Expedite fee

Village of Palmetto Bay Permit Application

Building and Capital Projects
9705 E. Hibiscus Street
Palmetto Bay, Florida 33157
Telephone: (305) 259-1250 Fax: (866) 927-5576
Inspection Line: (305) 259-1253
A division of the Department of Planning, Zoning, and Building Services

Tray 10

Walk on

GENERAL INFORMATION: Please read these instructions carefully before submitting the work for review

This application must be completed and signed by both the property owner and qualifier. Both of these signatures must be notarized. Please print legibly or type in order not to delay your application. For roofing permits, in addition to this permit you must also fill out a roofing permit application. Express permits require an additional fee and will only be accepted between the hours of 8:00 A.M. and 10:00 A.M., Monday through Friday. All other permits/plans must be dropped off before 3:00 p.m. for regular processing. During the processing of your application you may be asked to submit additional information. There may be additional permits and reviews required from other governmental agencies not affiliated with Palmetto Bay.

APPLICATION:

Clerk's Initials	Plan Process Number	Master Permit Number	Subsidiary Permit Number(s)	Expiration Date
ld	bld - 2018 - 2012			

Job Address: 14225 SW 79 AVE (Address) (Unit number) Palmetto Bay (City) FL (State) 33158 (Zip Code)

Folio Number: 33-5022-028-0360

Lot: 12 Block: 6

Subdivision: Royal Palm PB: ____ PG: ____

Current Use of Property: ____

Proposed Use of Property: ____

Description of Work: Windows Replacements 12 Impact / Doors Replacements 5 Impact

Zoning: ____ Square Feet: ____

Linear Feet: ____ Units: ____ Stories: ____

Value of Proposed Work: 47,487.00 Est. Bldg. Value: ____

Tax Assessed Value: ____

Flood Zone: ____ Base Floor Elev.: ____

Homeowner's Association: ____

Tenant Information: ____ Unit Number: ____

Check Permit Type		Check Permit Change		Check Type of Improvement			
Building	✓	Change of Contractor		New Construction		Deck/Concrete flatwork	
Electrical		Permit Renewal		Exterior Alteration	✓	Window Replacement	
Mechanical		Plan Revision		Interior Alteration		Shutters	
Plumbing		Permit Extension		Attached Addition		Garage Doors	
LPGX		Supplement		Detached Addition		Storage Shed	
Roofing		Re-inspection Fee		Repair		Railings	
Fence		PACE Program		Repair due to Fire		Stairs	
Sign				Demolish		Windows/Doors	✓
Public Works				Screen Enclosure		Roofing	
Other				Driveway		Re-Roof	
				Fence		Seal-cote	
				Pool		Other	

10662785

Architect Information	Engineer Information
Name:	Name:
License Number:	License Number:
Address:	Address:
Telephone Number:	Telephone Number:
Fax Number:	Fax Number:
Other:	Other:

Property Owner	Contractor
Name: GAIL HAMILTON	Company Name THE HOME DEPOT USA
Address: 14225 SW 79 AVE	Qualifier RAQUEL SWANNER
Home Telephone:	License Number
Business Telephone:	Address
Other Telephone:	Telephone Number
Fax Number:	Fax Number
Does Property have Homestead Exemption	Other

Bond Company (if applicable)	Mortgage Lender
Name:	Name:
Address:	Address:
City: State: Zip	City: State: Zip

Classification Of Proposed Work

Residential ☑ Duplex ☐ Townhouse ☐ Multi Family ☐ Commercial ☐ Industrial ☐ Other ☐

Effective Code_____ Occupancy_____ Construction Type _____

Zoning: Variance Number: Remarks:

OWNER AFFIDAVIT

Application is hereby made to obtain a permit to do the work and installation as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction. I understand that a separate permit must be secured for ELECTRICAL, MECHANICAL, PLUMBING, SIGNS, WELLS, POOLS, ROOFING, SHUTTERS, WINDOWS, FURNACES, BOILERS, HEATERS, TANKS, FENCE, DRIVEWAYS and AIR CONDITIONERS, ETC. In addition to the requirements of this permit, there may be additional restrictions found in the Public Records, and there may be additional permits required from other governmental entities.

I, the owner of the property, have disclosed all information related to any work that has been performed in the prior twelve months to the Building Division as part of this application. Further, I am fully aware that if the cumulative cost of work to my home or business under this and any other permit equals or exceeds fifty percent of the fair market value of the structure, the entire structure must meet the present federal flood criteria for finished floor elevation. I am also fully aware that if the cost of work to my home or business under this and any other permit equals or exceeds fifty per cent of the replacement cost of the structure, then the entire structure must conform to current code requirements of the Florida Building Code.

I, the owner of the property, understand that a permit application is subject to denial and a validated permit or permit card is subject to revocation or modification based upon applicable deeds, covenants, declarations, easements and any other legal restriction. By issuing a permit, the Village of Palmetto Bay makes no representation as to the existence or validity of any property restriction.

I, the owner of the property certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

(agent)

Signature of Owner

State of Florida, County of Broward

Sworn to (or affirmed) and subscribed before this 2 day of April, 2018.
by (print name) Renata Satram

Notary Name

Personally known ☐ or I.D. ☐
Type of identification produced:

MARIUSKA MORALES
Notary Public - State of Florida
Commission # FF 220108
My Comm. Expires Apr 13, 2019
Bonded through National Notary Assn.

Signature of Qualifier

State of Florida, County of Broward

Sworn to (or affirmed) and subscribed before this 1 day of April, 2018.
by (print name) Raquel Swanner

Notary Name

personally known or I.D.
Type of identification produced:

MARIUSKA MORALES
Notary Public - State of Florida
Commission # FF 220108
My Comm. Expires Apr 13, 2019
Bonded through National Notary Assn.

IMPORTANT NOTICES

- Do not begin work without receiving you validated permit and permit card. Applying for a permit does not grant you the right to commence construction. Construction can only occur during the hours of 7:00 a.m. to 7:00 p.m., Monday thru Saturday and from the hours of 9:00 a.m. to 6:00 p.m. on Sundays and Federal holidays.
- All construction sites must be maintained in a clean and orderly condition free from construction debris. Failure to do so will result in a fine and a suspension of inspections until said property is cleaned.
- Streets and neighboring properties shall be kept free from dirt and debris.
- Swales must be protected from damage by equipment or vehicles and sidewalks cannot be blocked.
- Portable Toilets for construction jobs require a separate permit. If toilet is not available the inspection will not be performed.
- Water cannot be discharged into the right of way or storm drains without the approval of the Public Works Department.
- No equipment or materials can be stored on the right of way; they must only be stored on your property.
- Florida Department of Health approval is required for applications involving Septic Tanks. Department of Environmental Resources Management (DERM) and /or Miami-Dade Water and Sewer Department approval is required for applications involving sewers and water. The tree section of the Department of Environmental Resources Management (DERM) approval is required on all landscape plans and on all tree removal applications.

CHECKLIST (OFFICE USE ONLY)

☐ OWNER-BUILDER FORM (Attached)

☐ FIRE DEPARTMENT APPROVAL (Commercial/multi (family only)

☐ CONCURRENCY (New Construction)

☐ PROOF OF OWNERSHIP (Attached)

☐ CONDO ASSOCIATION APPROVAL

☐ UPFRONT FEES AMOUNT: _____

☐ HEALTH DEPARTMENT APPROVAL (Septic/Sewer)

☐ IMPACT FEE (New Construction)

☐ SCHOOL REVIEW (New Construction)

☐ DERM REVIEW (New Construction/Additions/Tree Removal)

☐ PUBLIC WORKS

☐ PERMIT CLERK REVIEW
By: _____

- ☐ Complete Application
- ☐ Current liability ins.
- ☐ Worker's Comp.
- ☐ Cont. Lic. Check

☐ OTHER (Specify and Attach)

☐ FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION APPROVAL (RESTAURANTS)

PERMIT FEES (OFFICE USE ONLY)

Village of Palmetto Bay Permit Fees	172.35	**Art in Public Places**	
Miami-Dade County Fees (sq. ft. x $65//1000x0.60)	28.80	**Certificate of Use and Occupancy** (Zoning)	
Flood Zone Review		**Zoning Inspection Fee** ($48.00 per application)	
Radon-Inspector State Educational Fund and DCA State fee	205 205	**Administration Fee**	
Work without a permit fine (BLDG)		**Express Fee / Walk-in** ($25.00)	25.00
Certificate of Completion/Occupancy		**Public Works Fee / Review**	
Construction Sign Fee		**Landscape Review Fee** ($175.00 per hour)	
Roll-off Waste Container Fee (105.00 per container site)		**Special Review Fee** ($85.89 per hour)	
Rework Fee		**Other**	

$230.29

PLAN REVIEWER APPROVAL AREA (OFFICE USE ONLY)

SECTION	REVIEWER APPROVAL'S NAME	APPROVAL DATE	REJECTED DATE NUMBER 1	REJECTED DATE NUMBER 2	REJECTED DATE NUMBER 3
COMMUNITY DEVELOPMENT					
ZONING					
ELECTRICAL					
MECHANICAL					
PLUMBING					
FIRE					
ROOFING					
PUBLIC WORKS					
PLANNING					
STRUCTURAL					
BUILDING	GMG	2/5/18			
BUILDING OFFICIAL					

REWORKS: A fee of **$105.50** may be charged for failure to make required corrections previously indicated. The fee shall be charged after the initial review plus one follow up review per trade. Please note that Florida Statutes 553.80 section 2(b) states "with respect to evaluation of design professionals documents, if a local government finds it necessary, in order to enforce compliance with the Florida Building Code and issue a permit, to reject design documents required by the code three or more times for failure to correct a code violation specifically noted in each rejection, including but not limited to egress, fire protection, structural stability, energy, accessibility, lighting, ventilation, electrical, mechanical, plumbing, and gas systems, or other requirements identified by rule of the Florida Building Commission adopted pursuant to Chapter 120, the local government shall impose, each time after third such review the plans are rejected for that code violation a fee of **four times the amount** of the proportion of the permit fee attributed to plans review".

ISSUING OFFICIAL

FINAL PLAN REVIEWED AND PREPARED FOR ISSUANCE BY: _____ DATE: 2/5/18

CONDITIONS OF APPROVAL

PLAN TRACKING

Plans Checked out	Date	Clerk	Plans Checked in	Date	Clerk

EXPRESS PERMIT FEE

I understand that an additional fee of $25.00 (per-review) will be applied to my permit at final fee.

Authorization: Julio Diaz Date: 4/5/18

EXPEDITED PLAN REVIEW

I understand that an additional fee of $85.89 (per trade, per review) Will be applied to a RUSH review for permits with plans.
(For Example: New Construction, Additions, and Remodeling & Revisions to plans).

Authorization: Date:

OFFICE OF THE PROPERTY APPRAISER

Summary Report

Generated On : 4/5/2018

Property Information	
Folio:	33-5022-028-0350
Property Address:	14225 SW 79 AVE Palmetto Bay, FL 33158-1509
Owner	GAIL HAMILTON UCHENDU AZODO
Mailing Address	14225 SW 79 AVE PALMETTO BAY, FL 33158 USA
PA Primary Zone	2100 ESTATES - 15000 SQFT LOT
Primary Land Use	0101 RESIDENTIAL - SINGLE FAMILY : 1 UNIT
Beds / Baths / Half	4 / 2 / 0
Floors	1
Living Units	1
Actual Area	3,732 Sq.Ft
Living Area	2,373 Sq.Ft
Adjusted Area	2,907 Sq.Ft
Lot Size	15,631 Sq.Ft
Year Built	1966

Assessment Information			
Year	2017	2016	2015
Land Value	$229,732	$199,102	$183,786
Building Value	$207,850	$209,449	$222,560
XF Value	$21,774	$21,981	$17,137
Market Value	$459,356	$430,532	$423,483
Assessed Value	$271,994	$266,400	$264,549

Taxable Value Information	2017	2016	2015
County			
Exemption Value	$50,000	$50,000	$50,000
Taxable Value	$221,994	$216,400	$214,549
School Board			
Exemption Value	$25,000	$25,000	$25,000
Taxable Value	$246,994	$241,400	$239,549
City			
Exemption Value	$50,000	$50,000	$50,000
Taxable Value	$221,994	$216,400	$214,549
Regional			
Exemption Value	$50,000	$50,000	$50,000
Taxable Value	$221,994	$216,400	$214,549

Benefits Information				
Benefit	Type	2017	2016	2015
Save Our Homes Cap.	Assessment Reduction	$187,362	$164,132	$158,934
Homestead	Exemption	$25,000	$25,000	$25,000
Second Homestead	Exemption	$25,000	$25,000	$25,000

Note: Not all benefits are applicable to all Taxable Values (i.e. County, School Board, City, Regional).

Sales Information			
Previous Sale	Price	OR Book-Page	Qualification Description
01/30/2018	$650,000	30849-0016	Qual by exam of deed
03/01/1996	$0	17124-4101	Sales which are disqualified as a result of examination of the deed
11/01/1983	$165,000	11970-1458	Sales which are qualified
06/01/1980	$156,000	10790-0020	Sales which are qualified

Short Legal Description
PB 80-6
ROYAL PALM HARBOR 1ST ADDN
LOT 12 BLK 6
LOT SIZE SITE VALUE
OR 17124-4101 0396 4

INSPECTION REQUEST LINE (305) 259-1253 3:00PM DEADLINE

The Office of the Property Appraiser is continually editing and updating the tax roll. This website may not reflect the most current information on record. The Property Appraiser and Miami-Dade County assumes no liability, see full disclaimer and User Agreement at http://www.miamidade.gov/info/disclaimer.asp

10662785

LIMITED POWER OF ATTORNEY

BE IT KNOWN, that GAIL DANIELLE HAMILTON ("Principal") has made and appointed, and by these presents does make and appoint Home Depot USA and/or its agent Renato Satami true and lawful Attorney-in-Fact for him/her and in his/her name, place and stead, for the following specific and limited purposes only:

To execute any and all documents reasonably necessary, including without limitation any permit applications, for the sole, specific and limited purpose of obtaining a permit for home improvements on behalf of the homeowner(s) GAIL DANIELLE HAMILTON **and for the property located at:** 14225 SW 99 AVE Miami, FL 33156;

giving and granting said Attorney-in-Fact, full power and authority to do and perform all and every act and thing whatsoever necessary to be done in and about the specific and limited premises (set out hereinabove) as fully, to all intents and purposes, as might or could be done if personally present, with full power of substitution and revocation, hereby ratifying and confirming all that said attorney shall lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 9 day of FEBRUARY, 2018.

Signed, sealed and delivered in the presence of:

Witness Principal

Witness

STATE OF FLORIDA)
)
COUNTY OF MIAMI-DADE

I, Rodolfo Castellanos Jr, a Notary Public in and for the State of Florida, do hereby certify that FLD H 543-284-84-713-0 who is either ( ) personally known to me, or (✓) who provided GAIL DANIELLE HAMILTON as identification, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the said instrument as his/her free and voluntary authorized for the uses and purposes herein set forth.

GIVEN under my hand and official seal this this 9 day of FEBRUARY, 2018.

Notary Public

My commission expires:

Permit Authorization
4-21-2017

Job #10662785.

VILLAGE OF PALMETTO BAY BUILDING & CAPITAL PROJECTS DEPARTMENT
9705 E. HIBISCUS STREET
PALMETTO BAY, FLORIDA 33157
TEL: 305-259-1250 FAX: 305-259-1291

Village of Palmetto Bay
Window and Door Permit Supplement Form

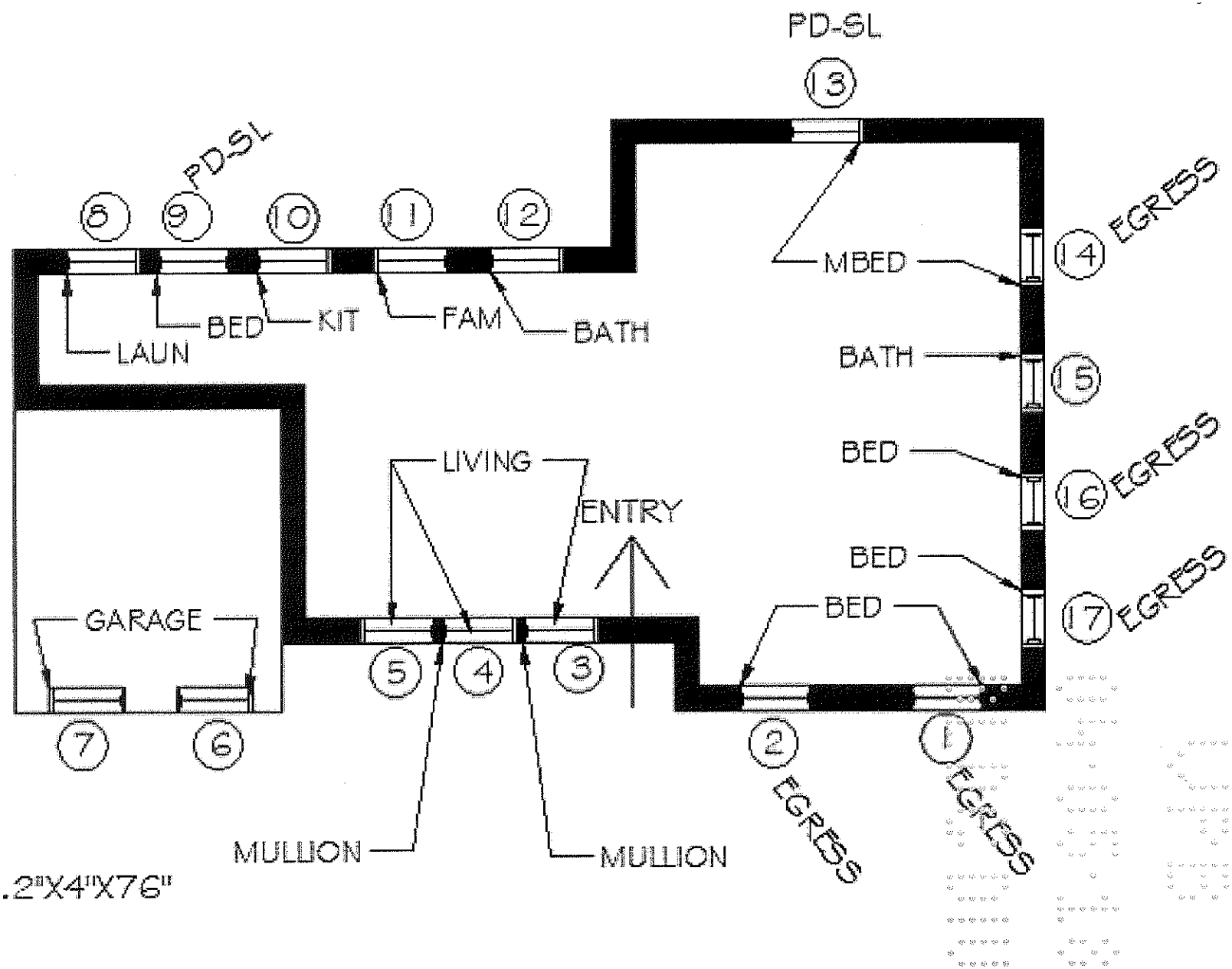
PROPERTY OWNER: GAIL, HAMILTON.

DATE: 3/23/2018

PROPERTY ADDRESS: 14225 SW 79 AVE Palmetto Bay, FL 33158.

CONTRACTOR: Home Depot USA.

	MARK No.	GLASS TYPE/ THICKNESS	SIZE (W.X H.)	UNIT TYPE	UNIT NAME	N.O.A.	MULLION ANCHORAGE	MULLION N.O.A.	MULLION HORIZONTAL/ VERTICAL	CALCULATED WIND PRESSURES NEGATIVE/ POSITIVE	CAPACITY WIND PRESSURES NEGATIVE/ POSITIVE	WATER INFILTRATION REQ. Y / N
ANNEALED	1	1/8 A GLASS	52" X 37"	1PNL	BED	17-0411.08 -				65/70	48.6 / 52.8	N
ANNEALED	2	1/8 A GLASS	52" X 37"	1PNL	BED	17-0411.08 -				65/70	48.6 / 52.8	N
ANNEALED	3	7/16 AIR G	36" X 72"	C1	LIV	17-0614.16 -	1/4 ELON	17-0630.01	Vertical	65/88	48.6 / 52.8	N
	4	7/16 AIR	36" X 72"	C1	LIV	17-0614.16 -	1/4 ELON	17-0630.01	Vertical	65/88	48.6 / 52.8	N
	5	7/16" AIR	36" X 72"	C1	LIV	17-0614.16 -	1/4 ELON	17-0630.01	Vertical	65/88	48.6 / 52.8	N
ANNEALED	6	1/8 A GLASS	52" X 37"	1PNL	GAR	17-0411.08 -				65/70	48.6 / 52.8	N
ANNEALED	7	1/8 A GLASS	52" X 37"	1PNL	GAR	17-0411.08 -				65/70	48.6 / 52.8	N
	8	7/16 AIR	36" X 37"	C1	LAUN	17-0614.16 -				65/88	48.6 / 52.8	N
	9	3/16 ANN	72" X 80"	PD-SL	BED	17-0420.06 -				60/60	48.6 / 52.8	Y
	10	3/16 ANN	46" X 45"	PD-PK	KITCA	17-0420.16 ✓				60/60	48.6 / 52.8	Y
	11	3/16 ANN	144" X 80"	PD-SL	FAM	17-0420.06 -				60/60	48.6 / 52.8	Y
	12	1/8" ANN.	33" X 81"	PD-FIXD	BATH	17-0504.05 ✓				70/70	48.6 / 52.8	Y
	13	3/16 ANN	72" X 80"	PD-SL	MBED	17-0420.06 -				60/60	48.6 / 52.8	Y
ANNEALED	14	1/8 A GLASS	75" X 37"	1PNL	MBED	17-0411.08 -				65/70	48.6 / 52.8	N
ANNEALED	15	1/8 A GLASS	36" X 25"	1PNL	BATH	17-0411.08 -				65/70	48.6 / 52.8	N
ANNEALED	16	1/8 A GLASS	52" X 37	1PNL	BED	17-0411.08 -				65/70	48.6 / 52.8	N
ANNEALED	17	1/8 A GLASS	52" X 37"	1PNL	BED.	17-0411.08 -				65/70	48.6 / 52.8	N
MULL	3/4/5		2X4X76"	MULL	LIV	17-0630.01 ✓	1/4 ELON	17-0630.01	VERTICAL	170/170	48.6 / 52.8	N



3...37"X72"
4...37"X72"
5...37X72"
MULL3/4/5.....2"X4"X76"

10662785 HAMILTON'S RESIDENCE FLOOR PLAN

GLASS TYPE

2/2

1 $\frac{1}{8}$ ANN

2 $\frac{1}{8}$ ANN

3 $\frac{7}{16}$ ANN

4 $\frac{7}{16}$ ANN

5 $\frac{7}{16}$ ANN

6 $\frac{1}{8}$ ANN

7 $\frac{1}{8}$ ANN

8 $\frac{3}{16}$ ANN

9 3/16 ANN

10 3/16 ANN

11 3/16 ANN

12 1/8" ANN

13 3/16 ANN

14 1/8 ANN

15 1/8 ANN

16 1/8 ANN

17 1/8 ANN.

0662785 HAMILTON'S RESIDENCE WINDOWS SCHEDULE FLOOR PLAN

FLORIDA BUILDING CODE 2017 - 6th Ed. - ASCE/SEI 7-10 - WIND LOAD TABLES - 170, 175 mph

Enclosed Building with mean roof height less than or equal than 60 Feet
EXPOSURE C AND D - LOAD FACTOR: 0.6 INCLUDED

WIND PRESSURES IN PSF
170 MPH VELOCITY - EXPOSURE C

Building Height	Roof Slope less than 10 degrees			Roof Slope greater than 10 degrees		
	Positive	Negative		Positive	Negative	
	z4 & z5	z4	z5	z4 & z5	z4	z5
0-15	34.6	37.5	46.1	37.8	41.0	50.6
16-20	36.8	39.8	49.0	40.2	43.6	53.8
21-30	40.0	43.4	53.4	43.7	47.4	58.6
31-40	42.5	46.1	56.7	46.5	50.4	62.2
41-50	44.6	48.3	59.4	48.7	52.8	65.2
51-60	46.3	50.2	61.8	50.6	54.9	67.8
LOCATION EXAMPLE	BROWARD COUNTY, PALM BEACH AND OTHER COUNTIES					

WIND PRESSURES IN PSF
170 MPH VELOCITY - EXPOSURE D

Building Height	Roof Slope less than 10 degrees			Roof Slope greater than 10 degrees		
	Positive	Negative		Positive	Negative	
	z4 & z5	z4	z5	z4 & z5	z4	z5
[illegible]	42.0	45.5	56.0	[illegible]	[illegible]	61.4
16-20	44.2	47.8	58.9	48.2	52.3	64.6
21-30	47.4	51.3	63.1	51.7	56.1	69.3
31-40	49.8	54.0	66.4	54.4	59.0	72.8
41-50	51.8	56.1	69.0	56.6	61.3	75.7
51-60	53.4	57.8	71.2	58.4	63.3	78.2
LOCATION EXAMPLE	BROWARD COUNTY, PALM BEACH AND OTHER COUNTIES					

WIND PRESSURES IN PSF
175 MPH VELOCITY - EXPOSURE C

Building Height	Roof Slope less than 10 degrees			Roof Slope greater than 10 degrees		
	Positive	Negative		Positive	Negative	
	z4 & z5	z4	z5	z4 & z5	z4	z5
0-15	36.7	39.7	48.9	40.1	43.4	53.6
16-20	39.0	42.2	51.9	42.6	46.2	57.0
21-30	42.4	46.0	56.6	46.3	50.2	62.1
31-40	45.1	48.8	60.1	49.2	53.4	65.9
41-50	47.2	51.2	63.0	51.6	56.0	69.1
51-60	49.1	53.2	65.4	53.6	58.2	71.8
LOCATION EXAMPLE	MIAMI-DADE COUNTY					

WIND PRESSURES IN PSF
175 MPH VELOCITY - EXPOSURE D

Building Height	Roof Slope less than 10 degrees			Roof Slope greater than 10 degrees		
	Positive	Negative		Positive	Negative	
	z4 & z5	z4	z5	z4 & z5	z4	z5
0-15	44.5	48.2	59.3	48.6	52.8	65.1
16-20	46.8	50.7	62.4	51.1	55.4	68.5
21-30	50.2	54.4	66.9	54.8	59.4	73.4
31-40	52.8	57.2	70.4	57.6	62.5	77.1
41-50	54.9	59.4	73.1	60.0	65.0	80.2
51-60	56.6	61.3	75.5	61.9	67.1	82.9
LOCATION EXAMPLE	MIAMI-DADE COUNTY					

GENERAL NOTES:

1- THESE TABLES ARE APPLICABLE ONLY TO CALCULATE THE WINDLOAD FOR *COMPONENTS AND CLADDING (HURRICANE SHUTTERS, WINDOWS AND DOORS)* APPLICABLE TO A SPECIFIC PROJECT. THE CONTRACTOR MUST PROPERLY SELECT THE DESIGN PRESSURE ACCORDINGLY WITH THE EXISTING CONDITION AND THIS INFORMATION BE VERIFIED BY THE CITY AUTHORITIES.

2- PLEASE, NOTE THAT A SPECIFIC PROJECT CONDITION IS NOT ANALYZED OR CERTIFIED BY THIS ENGINEER. THE SIGNATURE AND SEAL INDICATED ON THIS DRAWING IS ONLY APPLICABLE TO THE GENERIC WINDLOAD CHART BASED ON ASCE 7-10 PUBLICATION.

3- DO NOT USE THIS SHEET IF THE SITE CONDITION IS NOT COVERED BY THE TABLES OR A SITE SPECIFIC EVALUATION IS REQUIRED BY THE CITY OFFICIALS.

4- EXPOSURE B (Section 26.7.3) - Urban, suburban and wooded areas and other terrain with numerous closely spaced obstruction having the size of single family dwellings. For building <= 30ft exposure B prevails in the upwind direction for a distance greater than 1500 ft. For building > 30ft exposure B prevails in the upwind direction for a distance greater than 2600 ft or 20 times the building height, wichever is greater. Based on the FBC-HVHZ, use Exposure C when building is located in Exposure B

5- EXPOSURE C (Section 26.7.3) - Open terrain with scattered obstructions with heights less than 30', open country and grasslands. Exposure C will apply when exposure D and B do not apply.

6- EXPOSURE D (Section 26.7.3) - Flat, unobstructed areas and water surfaces prevails in the upwind direction for a distance greater than 5000 ft or 20 times the building height, whichever is greater

7- BUILDING CONSIDERED ENCLOSED - All glazing shall be impact resistant glazing or protected with an impact resistant covering.

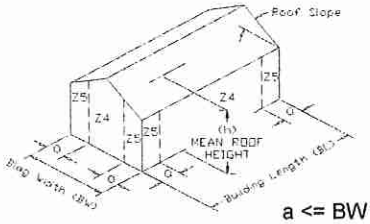
8- ULTIMATE WIND SPEED - V=170 MPH, 175 MPH

9- TOPOGRAPHIC FACTOR Kzt= 1 - (FLAT TERRAIN)

10- DIRECTIONALITY FACTOR Kd = .85 (Wind Directionality Factor)

11- TRIBUTARY AREA: 10 SQF

12- EDGE STRIP (a): The smaller of 10% of the least horizontal dimension or 40% of the Mean roof height, but not less than the larger of 4% of the least horizontal dimension or 3 ft.



PPMF Inc
ENGCO INC - CA 8116
9715 West Broward Blvd. PMB 247
Plantation - Florida 33324
E-mail: PPMF@AOL.com

a <= BW x 0.1 or a <= h x 0.4
BW less or equal than BL
a must not be less than
a = 3 feet or a= 0.04 x BW

DATE: 01/01/2018
PEDRO DE FIGUEIREDO - PE 52609
NOT VALID W/OUT SEAL

1/18/2018

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, Fl. 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami–Dade County RER–Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami–Dade County Product Control Section (In Miami–Dade County) and/ or the AHJ (in areas other than Miami–Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "FD-5555" Outswing PVC French Door w/ & w/o Sidelite and Transom – L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-555.1**, titled "Vinyl French Door and SLT/ TR", sheets 1 through 12 of 12, dated 05/07/13, with revision **C** dated 04/10/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami–Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA No. 16-0126.04** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P. E.**

MIAMI-DADE COUNTY APPROVED

12/05/17

NOA No. 17-0504.05
Expiration Date: January 23, 2019
Approval Date: December 14, 2017

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 13-0815.03)
2. Drawing No. **MD-555.1**, titled "Vinyl French Door and SLT/TR", sheets 1 through 12 of 12, dated 05/07/13, with revision **C** dated 04/10/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
   5) Large Missile Impact Test per FBC, TAS 201-94
   6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of a Series FD-5570/FD-2770 PVC double entrance outswing doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8717**, dated 11/16/15, signed and sealed by Idalmis Ortega, P.E.
   (Submitted under previous NOA No. 16-0126.04)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
   5) Large Missile Impact Test per FBC, TAS 201-94
   6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of a Series FD-5555/FD-7700 PVC double entrance outswing doors, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8716**, dated 11/12/15, signed and sealed by Idalmis Ortega, P.E.
   (Submitted under previous NOA No. 16-0126.04)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of a Series FD-5555/FD-7700 PVC fixed sidelite, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8715**, dated 11/05/15, signed and sealed by Idalmis Ortega, P.E.
   (Submitted under previous NOA No. 16-0126.04)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-0504.05
Expiration Date: January 23, 2019
Approval Date: December 14, 2017

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
along with marked-up drawings and installation diagram of an outswing PVC French door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7370**, dated 05/23/13, signed and sealed by Jorge A. Naya, Jr., P.E.
(Submitted under NOA No. 13-0815.03)

5. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an outswing Rigid PVC French door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7371**, dated 05/25/13, signed and sealed by Jorge A. Naya, Jr., P.E.
(Submitted under NOA No. 13-0815.03)

6. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
along with marked-up drawings and installation diagram of a PVC fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7338**, dated 05/25/13, signed and sealed by Jorge A. Naya, Jr., P.E.
(Submitted under NOA No. 13-0815.03)

7. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a Rigid PVC fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7339**, dated 05/23/13, signed and sealed by Jorge A. Naya, Jr., P.E.
(Submitted under NOA No. 13-0815.03)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 03/30/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 15-0409.03)

2. Glazing complies with **ASTM E1300-09**

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-0504.05
Expiration Date: January 23, 2019
Approval Date: December 14, 2017

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/19/17, expiring on 07/08/19.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**Kuraray SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18
3. Notice of Acceptance No. **14-0820.11** issued to Vision Extrusions Limited for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**", dated 11/06/14, expiring on 09/30/19.
   (Submitted under NOA No. 15-0409.03)
4. Notice of Acceptance No. **14-0820.12** issued to Vision Extrusions Limited for their "**Brown Coated (Painted or Laminated) White Rigid PVC Exterior Extrusions for Windows and Doors**", dated 11/06/14, expiring on 09/30/19.
   (Submitted under NOA No. 15-0409.03)
5. Notice of Acceptance No. **13-1121.01** issued to Vision Extrusions Limited for their series "**VE 2000 Tan 202 and lighter shades (Non–White) Rigid Cellular PVC Exterior Extrusions for Windows and Doors**" dated 01/23/14, expiring on 01/23/19.
   (Submitted under NOA No. 15-0409.03)
6. Notice of Acceptance No. **13-1121.02** issued to **Vision Extrusions Limited** for their series "**White Rigid Cellular PVC Exterior Extrusions for Windows and Doors**" dated 01/23/14, expiring on 01/23/19.
   (Submitted under NOA No. 15-0409.03)
7. Notice of Acceptance No. **11-0902.10** issued to Vision Extrusions Limited for their series "**VE 1000 Tan 202 (Non-White) Rigid PVC Exterior Extrusions for Windows and Doors**" dated 12/29/11, expiring on 12/29/16.
   (Submitted under previous NOA No. 15-0409.03)
8. Quanex Part **Super Spacer Standard** complying with ASTM C518 Thermal Conductivity 0.881 BTU-in/ hr.-ft²-°F, ASTM F 1249 WVTR-Pass, ASTM D3985 Oxygen–Pass, ASTM E 2190 I.G. Durability-No Fog-Pass.
   (Submitted under NOA No. 13-0815.03)
9. Quanex Part **Duraseal** complying with ASTM C518 Thermal Conductivity 2.22 BTU-in/ hr.-ft²-°F, ASTM F 1249 WVTR-Pass, ASTM D 1434 Argon Permeance-Pass, ASTM E 2189 I.G. Durability-No Fog, ASTM E 546 Dew Point Development -20°F in 48 hrs.
   (Submitted under NOA No. 13-0815.03)

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-0504.05
Expiration Date: January 23, 2019
Approval Date: December 14, 2017

E. MATERIAL CERTIFICATIONS (CONTINUED)

10. Vision Extrusions, Ltd. Parts complying with PVC-AAMA 303-13.
(Submitted under NOA No. 13-0815.03)

11. PVC-AAMA 303-13, Voluntary Specification for Rigid Polyvinyl Chloride (PVC) Exterior Profiles for Vision Extrusions, Ltd.-VEX-1 by AAMA Fenestration Exterior Profile Certification Program.
(Submitted under NOA No. 13-0815.03)

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)** and **FBC 6th Edition (2017)**, dated 08/16/17, issued by manufacturer, signed and sealed by A. Lynn Miller, P.E.

2. Statement letter of no financial interest, dated 04/28/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

3. Laboratory compliance letter for Test Reports No. **FTL-7370**, **FTL-7371**, **FTL-7338** and **FTL-7339**, all issued by Fenestration Testing Laboratory, Inc., dated 05/23/13 and 05/25/13, all signed and sealed by Jorge A. Naya, Jr., P.E.
(Submitted under NOA No. 13-0815.03)

G. OTHERS

1. Notice of Acceptance No. **16-0126.04**, issued to PGT Industries, Inc. for their Series "FD-5555" Outswing PVC French Door w/ & w/o Sidelite and Transom - L.M.I., approved on 05/05/16 and expiring on 01/23/19.

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-0504.05
Expiration Date: January 23, 2019
Approval Date: December 14, 2017

SERIES FD-5555,
IMPACT-RESISTANT, VINYL, REINFORCED, OUTSWING FRENCH DOOR & SIDELITE/TRANSOM (SLT/TR)

DESIGN PRESSURE RATING	IMPACT RATING
VARIES, SEE SHEETS 4 & 5	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS (CMU'S) OF NORMAL WEIGHT AND OF COMPRESSIVE STRENGTH OF MIN. 1.9 KSI AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.

4) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 1, THIS SHEET. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

5) IF SILL IS TIGHT TO SUBSTRATE, GROUT IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT AT 3.4 KSI MIN. PER ASTM C1107, (DONE BY OTHERS). MAX. 1/4" SHIM SPACE FOR GROUT WHICH MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION, COMPLYING WITH THE FBC.

6) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE THE EMBEDMENT SHOWN ON TABLE 1, THIS SHEET . NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. EXTERIOR INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

7) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE DOOR, SIDELITE OR TRANSOM.

8) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

9) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (INCLUDING ADOPTED STANDARDS) FOR CORROSION RESISTANCE.

10) ALL RIGID PVC AND RIGID CELLULAR PVC MANUFACTURED BY ENERGI FENESTRATION SOLUTIONS USA, INC. O R VISION EXTRUSIONS, LTD. HAS BEEN TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE FOR PLASTICS.

11) SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FLORIDA BUILDING CODE.

12) REFERENCES:
TEST REPORTS: FTL-7339, 7371, 8715, 8716 & 8717
NOA'S: ELCO ULTRACON, CRETEFLEX & AGGREGATOR ANCHOR NOA'S, ENERGI FENESTRATION SOLUTIONS USA, INC. OR VISION EXTRUSION, LTD. WHITE RIGID PVC NOA, VE 1000 TAN 202 AND LIGHTER SHADES (NON-WHITE) RIGID PVC NOA AND BROWN COATED (PAINTED OR LAMINATED) WHITE RIGID PVC NOA

13) THE 5555 SERIES IS ALSO KNOWN AS THE 555 SERIES.

Material	Min. F_y	Min. F_u
Steel Screw	92 ksi	120 ksi
18-8 Screw	60 ksi	95 ksi
410 Screw	90 ksi	110 ksi
Elco Aggre-Gator®	57 ksi	96 ksi
Elco UltraCon®	155 ksi	177 ksi
410 SS Elco CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

TABLE 1:

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	3/16" Elco Ultracon	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
B	#10 Steel SMS (G5) #10 410 S.S. SMS #10 18-8 S.S. SMS	P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	5/16"	0.063"
		Steel, A36*	5/16"	0.063"
		Steel Stud, A653 Gr. 33*	5/16"	0.063"
	3/16" Elco Ultracon	P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Grouted CMU, (ASTM C-90)	2-1/2"	2-1/4"
		Concrete (min. 2.85 ksi)	1"	1-3/8"
	1/4" Elco Ultracon	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
C	#12 Steel SMS (G5) #12 410 S.S. SMS #12 18-8 S.S. SMS	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.071"
		Steel, A36*	3/8"	0.071"
		Steel Stud, A653 Gr. 33*	3/8"	0.071" (14 Ga)
	1/4" Elco Ultracon	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"
		Concrete (min. 2.85 ksi)	1"	1-3/8"
	1/4" Elco 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	1"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" Elco 18-8 S.S. Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3.27 ksi)	1-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	4"	1-1/4"
D	1/4" Elco Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/8"
	1/4" Elco 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

TABLE 2:

Type #	Description	Where Used:
1	1-3/16" Lami. IG (1/8" T - 11/16" Air - 1/8" ANN - .090" PVB - 1/8" ANN)	Door
2	1-3/16" Lami. IG (3/16" T - 5/8" Air - 1/8" ANN - .090" PVB - 1/8" ANN)	Door
3	1-3/16" Lami. IG (1/8" T - 9/16" Air - 3/16" ANN - .090" SG - 3/16" ANN)	Sidelite/Transom
4	1-3/16" Lami. IG (3/16" T - 1/2" Air - 3/16" ANN - .090" SG - 3/16" ANN)	Sidelite/Transom
5	1-3/16" Lami. IG (1/8" T - 9/16" Air - 3/16" ANN - .090" PVB - 3/16" ANN)	Sidelite/Transom
6	1-3/16" Lami. IG (3/16" T - 1/2" Air - 3/16" ANN - .090" PVB - 3/16" ANN)	Sidelite/Transom
7	7/16" Lami. (3/16" ANN - .090" PVB - 3/16" ANN)	Door/Sidelite/Transom

"ANN" = ANNEALED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

SEE SHEET 3 FOR SPACER INFORMATION.

GUIDE TO SHEETS:

GENERAL NOTES..... 1
ELEVATIONS..... 2
GLAZING DETAILS..... 3
DESIGN PRESSURES..... 4-5
ANCHORS..... 4-6
INSTALLATION..... 7-9
EXTRUSION PROFILES..... 10
PARTS LIST..... 11-12
CORNER DETAILS..... 11
HARDWARE DETAILS..... 12

CODES / STANDARDS USED:

- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-12
- AISC 360-10

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0504.05
Expiration Date Jan 22, 2019
By Manuel Perez
Miami-Dade Product Control

Revision	
C	UPDATED TO FBC 2017, ADDED SPACER DWGS., REVISED #22 - JR - 04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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CERT. OF AUTH. #29296

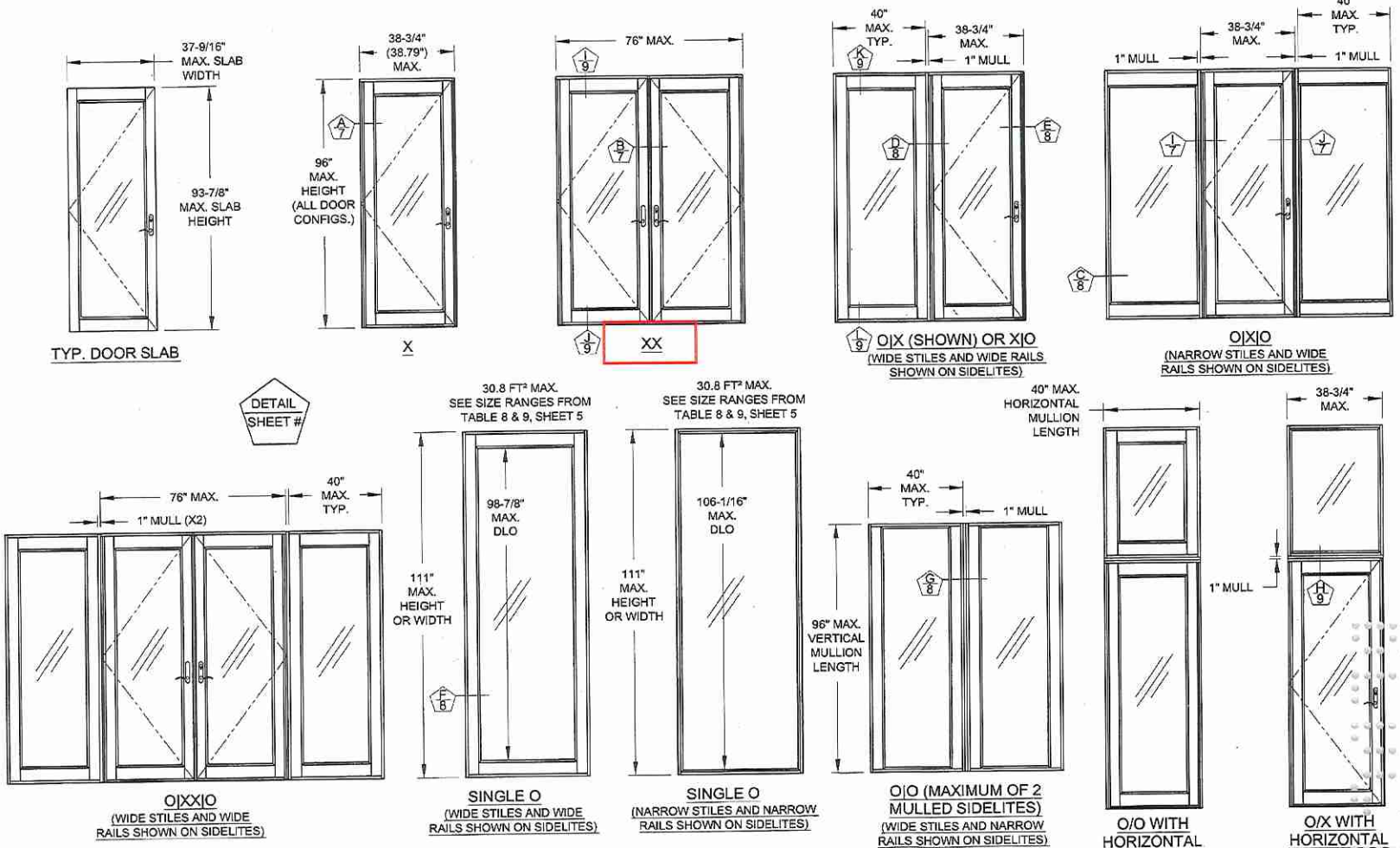
Title	Date	Drawn By	DWG No.	Rev.
VINYL FRENCH DOOR AND SLT/TR	5/7/13	J ROSOWSKI	MD-555.1	C
GENERAL NOTES				

Series	Scale	Sheet
FD-5555	NTS	1 OF 12

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/28/17

A. LYNN MILLER, P.E.
P.E.# 58705

EXAMPLE CONFIGURATIONS



NOTES:
1) SINGLE DOORS MAY BE LEFT OR RIGHT-HANDED.
2) MULLIONS SHOWN ARE STANDARD 1" FRENCH DOOR MULLIONS PER THIS NOA.
3) MULLED CONFIGURATIONS NOT SHOWN MAY BE POSSIBLE USING OTHER MULLION TYPES, SEE SEPARATE NOA.
4) FRENCH DOOR MULLION IS LIMITED TO 96" IN VERTICAL APPLICATIONS AND 40" IN HORIZONTAL APPLICATIONS.
5) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SLT/TR OR MULLED ASSEMBLY.
6) ADDITIONAL CONFIGURATIONS USING THE 1" FRENCH DOOR MULLION ARE POSSIBLE. USE THE ABOVE DRAWINGS AS A REFERENCE FOR SIZE LIMITATIONS.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 17-0504.05
Expiration Date 12-23-2019
By Manuel Gomez
Miami Dade Product Control

Revision
C) NO CHANGES THIS SHEET
JR - 04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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ALL RIGHTS RESERVED

CERT. OF AUTH. #29296

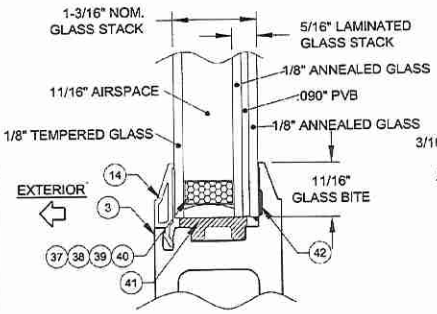
Title	Date	Drawn By	DWG No.	Rev.
VINYL FRENCH DOOR AND SLT/TR	5/7/13	J ROSOWSKI	MD-555.1	C

Series	Scale	Sheet	Desc.
FD-5555	NTS	2 OF 12	

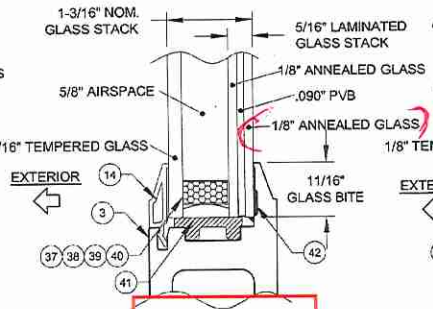
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/28/17

A. LYNN MILLER, P.E.
P.E.# 58705

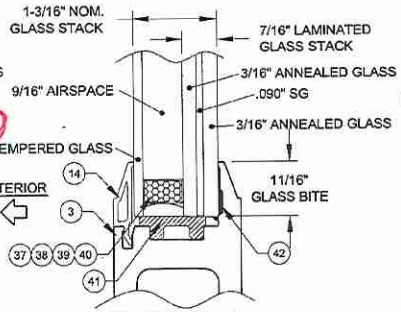
GLAZING DETAILS



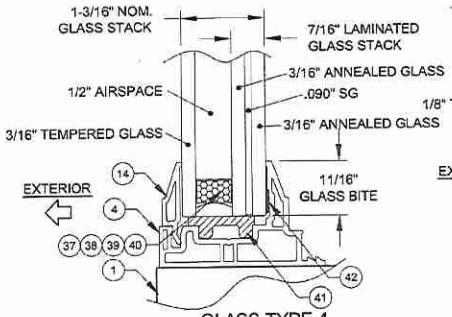
GLASS TYPE 1
USED IN DOOR ONLY



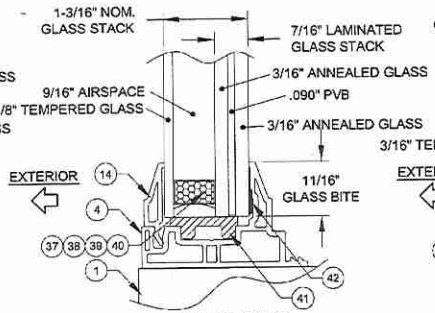
GLASS TYPE 2
USED IN DOOR ONLY



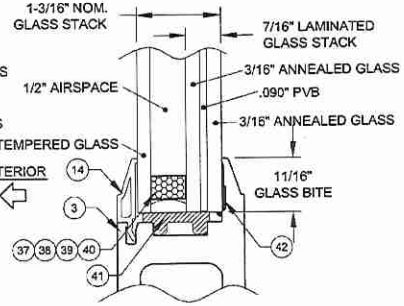
GLASS TYPE 3
TYP. WIDE FRAME GLAZING DETAIL, NARROW FRAME SIMILAR



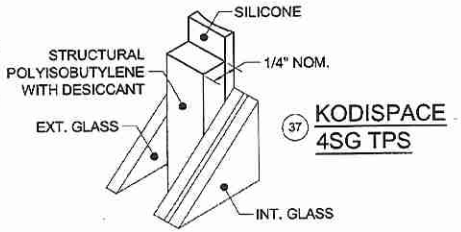
GLASS TYPE 4
TYP. NARROW FRAME GLAZING DETAIL, WIDE FRAME SIMILAR.



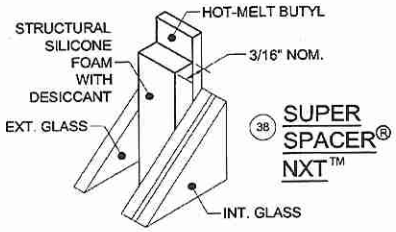
GLASS TYPE 5
TYP. NARROW FRAME GLAZING DETAIL, WIDE FRAME SIMILAR.



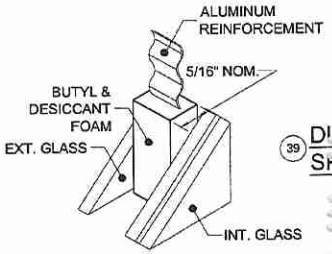
GLASS TYPE 6
TYP. WIDE FRAME GLAZING DETAIL, NARROW FRAME SIMILAR



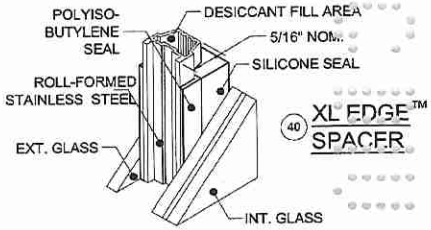
37 KODISPACE 4SG TPS



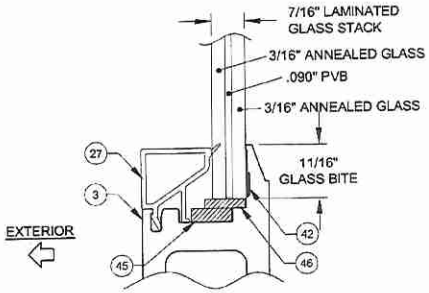
38 SUPER SPACER® NXT™



39 DURASEAL® SPACER



40 XL EDGE™ SPACER



GLASS TYPE 7
USED IN DOOR, (SHOWN) & SIDELITE/TRANSOM

"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0504.05
Expiration Date Jan 28, 2019
By Manuel Diaz
Miami Dade Product Control

Revision	
C) ADDED SPACER DRAWINGS - JR - 04/10/17	

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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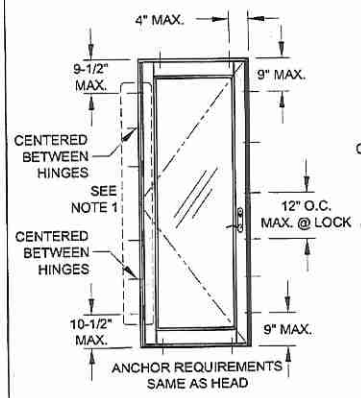
CERT. OF AUTH. #29296

Series	Desc.	Title	Scale	Sheet	DWG No.	Drawn By	Date	Rev.
FD-5555	GLAZING DETAILS	VINYL FRENCH DOOR AND SLT/TR	NTS	3 OF 12	MD-555.1	J ROSOWSKI	5/7/13	C

ANTHONY LYNN MILLER
LICENSE
No. 58705
4/28/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

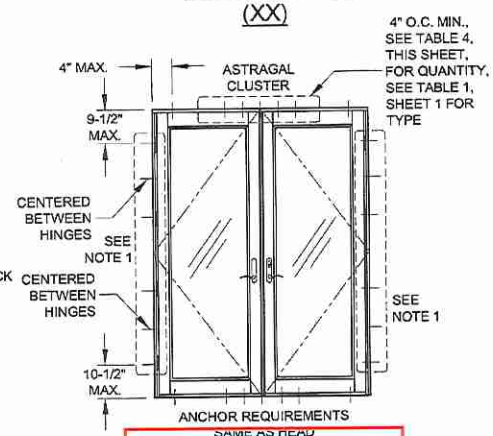
A. LYNN MILLER, P.E.
P.E.# 58705

SINGLE DOOR INSTALLATION (X)



X

DOUBLE DOOR INSTALLATION (XX)



XX, (USING ASTRAGAL)

TABLE 3:

X & XX Door: Design Pressure	
+/-50.0 PSF	Glass Type 1
+/-70.0 PSF	Glass Types 2 & 7

TABLE 4:

XX Door: Astragal Cluster Anchors Required @ Head & Sill								
	Door Width (in)							
	48	60		72		76		
Door Height (in)	Anchor Group B-D	Anchor Group B	Anchor Group C&D	Anchor Group B	Anchor Group C&D	Anchor Group B	Anchor Group C	Anchor Group D
80	4	4	4	5	[illegible]	5	4	4
96	4	5	4	6	4	6	5	4

SIDELITE-TO-SIDELITE MULLION INSTALLATION (O|O)

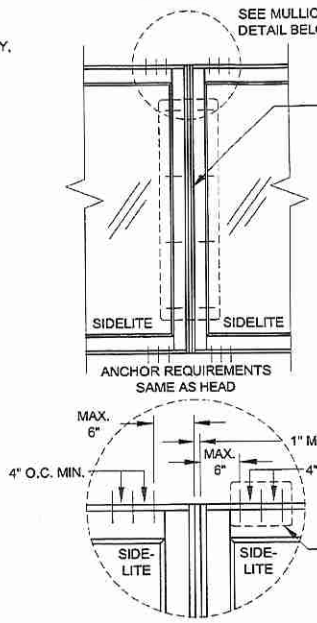


TABLE 5:

VERTICAL MULLION DESIGN PRESSURE
+/-70.0 PSF

SIDELITE-TO-DOOR MULLION INSTALLATION (X|O, O|X, X|X, O|X|O, X|O|X, O|XX|O, ETC)

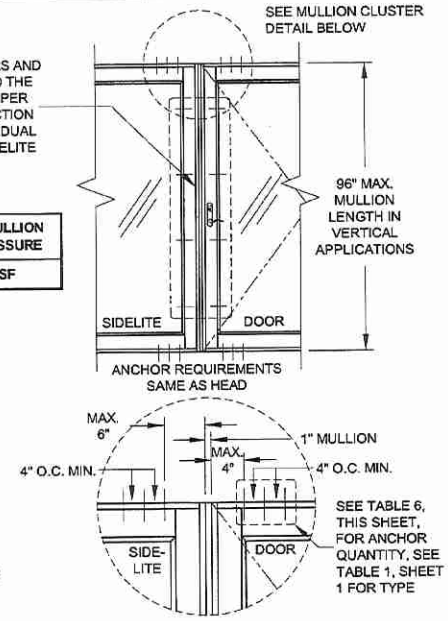


TABLE 6:

Anchors Required for a Vertical Mullion (each mullion end)													
		Door or Sidelite/Transom Width (in)											
		12	24		32			38-3/4			40		
	Mullion Height (in)	Anchor Group B-D	Anchor Group B&C	Anchor Group D	Anchor Group B	Anchor Group C	Anchor Group D	Anchor Group B	Anchor Group C	Anchor Group D	Anchor Group B	Anchor Group C	Anchor Group D
Door	80	N/A	2	1	2	2	1	3	2	1	N/A	N/A	N/A
SLT/TR		1	2	1	2	2	1	3	2	1	3	2	1
Door	96	N/A	2	1	3	2	1	3	3	2	N/A	N/A	N/A
SLT/TR		1	2	1	3	2	1	3	3	2	3	3	2

FOR "O|XX|O" AND SIMILAR CONFIGURATIONS CONTAINING A DOUBLE DOOR (XX), USE ONLY HALF OF THE FRAME WIDTH OF THE DOUBLE DOOR WHEN USING THIS TABLE.

TRANSOM-TO-DOOR (X/O) OR TRANSOM-TO-SIDELITE (O/O) MULLION ATTACHMENT& INSTALLATION

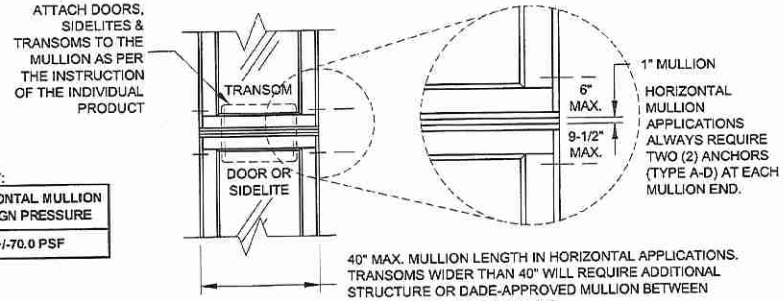


TABLE 7:

HORIZONTAL MULLION DESIGN PRESSURE
+/-70.0 PSF

INSTRUCTIONS:
1) DOOR HINGE JAMBS OF ALL HEIGHTS TO ALWAYS BE ANCHORED WITH SIX ANCHORS. SEE TABLE 4, SHEET 1, FOR ALL APPROVED ANCHORS. FOUR OF THE SIX ANCHORS MUST BE INSTALLED THROUGH THE HINGES, ONE AT EACH HINGE LOCATION (RECOMMENDED #10 FLATHEAD SMS OR 3/16" FLATHEAD ULTRACON FOR EACH HINGE ANCHOR).
2) FOR A MULLED UNIT, DETERMINE THE DESIGN PRESSURE OF EACH COMPONENT IN THAT CONFIGURATION. FOR EXAMPLE, ON AN "X|O" CONFIGURATION, THE DP FOR THE DOOR, THE MULLION AND THE SIDELITE MUST EACH BE DETERMINED. THE LOWEST DP APPLIES TO THE ENTIRE ASSEMBLY.

NOTES:
1) SINGLE DOOR MAY BE LEFT OR RIGHT-HANDED.
2) MULLIONS SHOWN ARE STANDARD 1" FRENCH DOOR MULLIONS.
3) MULLED CONFIGURATIONS NOT SHOWN MAY BE POSSIBLE USING OTHER MULLION TYPES, SEE SEPARATE NOA. THE LOWEST COMPONENT DP IS TO BE THE OVERALL ASSEMBLY DP.
4) FRENCH DOOR MULLION IS LIMITED TO 96" IN VERTICAL APPLICATIONS AND 40" IN HORIZONTAL APPLICATIONS.
5) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SIDELITE/TRANSOM OR MULLED ASSEMBLY.
6) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.

PRODUCT REVISED
as complying with the Florida Building Code
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By [illegible]
Miami Dade Product Control

Revision	
C) NO CHANGES THIS SHEET JR - 04/10/17	

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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CERT. OF AUTH. #29296

Date	5/7/13
Drawn By	J ROSOWSKI
Title	VINYL FRENCH DOOR AND SLT/TR
Desc.	DESIGN PRESSURE 1
DWG No.	MD-555.1
Rev.	C
Sheet	4 OF 12
Scale	NTS
Series	FD-5555

ANTHONY LYNN MILLER
LICENSE
No. 58705
4/28/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 8:

Sidelite/Transom Design Pressure (+/-, psf) for Glass Types 3 & 4

Short Side (in) \ Long Side (in)	63-3/16	66-5/8	68	70	72	76	78	82	84	88	92	96	98	104	108	111
24	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
28	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
32	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
36	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
38-3/4	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
40	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.6	+/-68.5		
42	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.6	+/-68.6	+/-67.7	+/-67.3			
44	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.4	+/-68.7	+/-67.6	+/-66.5	+/-65.6				
46	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.1	+/-67.6	+/-67	+/-65.8	+/-64.7					
48	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.9	+/-67.6	+/-65	+/-65.4	+/-64.1						
50	+/-70	+/-70	+/-70	+/-70	+/-69.1	+/-68.4	+/-66.2	+/-64.6	+/-63.9							
52	+/-70	+/-70	+/-70	+/-69.2	+/-68	+/-67.1	+/-65	+/-63.4								
54	+/-70	+/-70	+/-69.7	+/-68.3	+/-67.1	+/-64.9	+/-63.9									
56	+/-70	+/-70	+/-69	+/-67.6	+/-66.3	+/-64										
58	+/-70	+/-69.6	+/-68.5	+/-67	+/-65.6											
60	+/-70	+/-69.2	+/-68	+/-66.5												
62	+/-70	+/-69.1	+/-67.9	+/-66.2												
63-3/16	+/-69.1	+/-68.9														

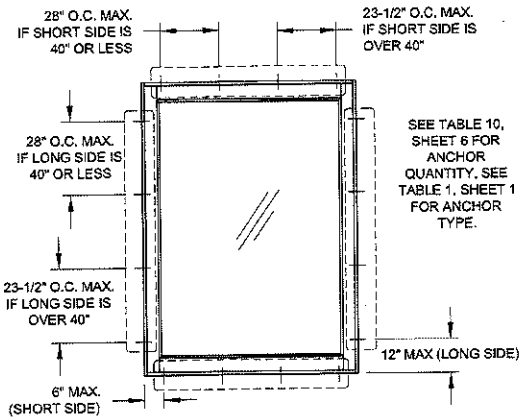
TABLE 9:

Sidelite/Transom Design Pressure, psf for Glass Types 5, 6 & 7

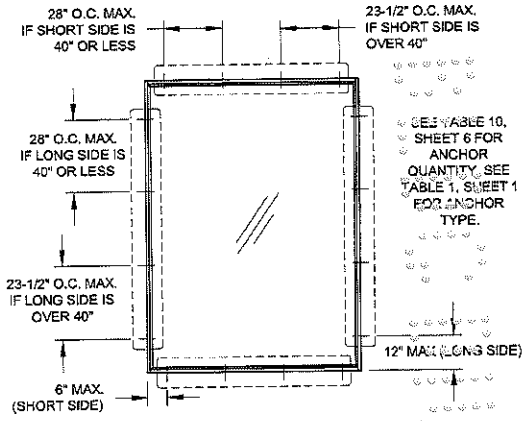
Short Side (in) \ Long Side (in)	63-3/16	66-5/8	68	70	72	76	78	82	84	88	92	96	98	104	108	111
24	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
28	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
32	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
36	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70
38-3/4	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.9	+/-69	+/-68.3	+/-67.9			
40	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.8	+/-69.3	+/-68.3	+/-67.4	+/-66.7	+/-66.3			
42	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.5	+/-68.8	+/-67.6	+/-67	+/-66	+/-65.1					
44	+/-70	+/-70	+/-70	+/-70	+/-69.1	+/-67.5	+/-66.8	+/-65.6	+/-65	+/-64						
46	+/-70	+/-70	+/-69.4	+/-68.4	+/-67.4	+/-65.8	+/-65.1	+/-63.8	+/-63.2							
48	+/-70	+/-68.8	+/-68	+/-66.9	+/-66	+/-64.3	+/-63.5	+/-62.2								
50	+/-69.9	+/-67.6	+/-66.8	+/-65.7	+/-64.7	+/-62.9	+/-62.1									
52	+/-69	+/-66.6	+/-65.7	+/-64.6	+/-63.6	+/-61.7										
54	+/-68.3	+/-65.7	+/-64.8	+/-63.6	+/-62.6											
56	+/-67.7	+/-65	+/-64.1	+/-62.8												
58	+/-67.3	+/-64.5	+/-63.5													
60	+/-67															
62	+/-66.9															
63-3/16	+/-66.8															

NOTES:
1) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SIDELITE/TRANSOM OR MULLED ASSEMBLY.
2) SIDELITE/TRANSOM MAY BE A SINGLE, STAND-ALONE UNIT.
3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.

SIDELITE/TRANSOM INSTALLATION (O)



(WIDE STILES AND WIDE RAILS SHOWN ON SIDELITES)



(NARROW STILES AND NARROW RAILS SHOWN ON SIDELITES)

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By Manuel Perez
Miami Dade Product Control

Revision	
C) NO CHANGES THIS SHEET JR - 04/10/17	

1070 TECHNOLOGY DRIVE
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CERT. OF AUTH. #29296

Title	VINYL FRENCH DOOR AND SLT/TR	Date	5/7/13	Rev.	C
Desc.	DESIGN PRESSURE 2	Drawn By	J ROSOWSKI	DWG No.	MD-555.1
				Sheet	5 OF 12
				Scale	NTS
				Series	FD-5555

ANTHONY LYNN MILLER
LICENSE
No. 58705
4/28/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 10:

Sidelite/Transom Anchor Quantity

Short Side (in)		Long Side (in) 63-3/16		66-5/8		68		70		72		76		78		82		84		88		92		96		98		104			108		111	
		Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Group B	Anchor Groups C-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D
24	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Long Side	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	5	5	6	6	6	6
28	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Long Side	4	4	4	4	4	4	4	4	4	4	5	4	5	4	5	4	5	5	5	5	6	5	6	5	6	5	6	5	5	7	6	7	6
32	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Long Side	4	4	4	4	4	4	4	4	5	4	5	4	5	4	5	4	6	5	6	5	6	5	6	5	7	5	7	5	5	7	6	8	6
36	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Long Side	4	4	5	4	5	4	5	4	5	4	5	4	5	4	6	4	6	5	6	5	7	5	7	5	7	5	8	5	5	7	6	8	6
38-3/4	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Long Side	4	4	5	4	5	4	5	4	5	4	6	4	6	4	6	4	6	5	7	5	7	5	7	5	8	5	8	5	5	8	6	9	6
40	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Long Side	4	4	5	4	5	4	5	4	5	4	6	4	6	4	6	4	6	5	7	5	7	5	8	5	8	5	8	5	5	9	6	9	6
42	Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3							
	Long Side	5	4	5	4	5	4	5	4	5	4	6	4	6	4	6	4	7	5	7	5	7	5	8	5	8	5	8	6	5				
44	Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3							
	Long Side	5	4	5	4	5	4	5	4	6	4	6	4	6	4	7	4	7	5	7	5	7	5	8	5	8	5							
46	Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3									
	Long Side	5	4	5	4	5	4	6	4	6	4	6	4	6	4	7	4	7	5	7	5	7	5	8	5									
48	Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3											
	Long Side	5	4	5	4	5	4	6	4	6	4	6	4	6	4	7	4	7	5	7	5	7	5											
50	Short Side	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3													
	Long Side	5	4	5	4	5	4	6	4	6	4	6	4	6	4	7	4	7	5	7	5													
52	Short Side	4	3	4	3	4	3	4	3	4	3	3	3	3	3	3	3	3	3															
	Long Side	5	4	5	4	6	4	6	4	6	4	6	4	6	4	7	4	7	5															
54	Short Side	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3																	
	Long Side	5	4	5	4	6	4	6	4	6	4	6	4	6	4	7	4																	
56	Short Side	4	3	4	3	4	3	4	3	4	3	4	3	4	3																			
	Long Side	5	4	6	4	6	4	6	4	6	4	6	4	6	4																			
58	Short Side	4	3	4	3	4	3	4	3	4	3	4	3																					
	Long Side	5	4	6	4	6	4	6	4	6	4	6	4																					
60	Short Side	5	4	5	4	5	4	4	4	4	4																							
	Long Side	5	4	6	4	6	4	6	4	6	4																							
62	Short Side	5	4	5	4	5	4	5	4																									
	Long Side	5	4	6	4	6	4	6	4																									
63-3/16	Short Side	5	4	5	4	5	4																											
	Long Side	5	4	6	4	6	4																											
66-5/8	Short Side	5	4	6	4																													
	Long Side	6	4	6	4																													

NOTES:
1) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SIDELITE/TRANSOM OR MULLED ASSEMBLY.
2) SIDELITE/TRANSOM MAY BE A SINGLE, STAND-ALONE UNIT.
3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0504.05
Expiration Date Jan. 23, 2019
By Miami-Dade Product Control

Revision: C) NO CHANGES THIS SHEET
JR - 04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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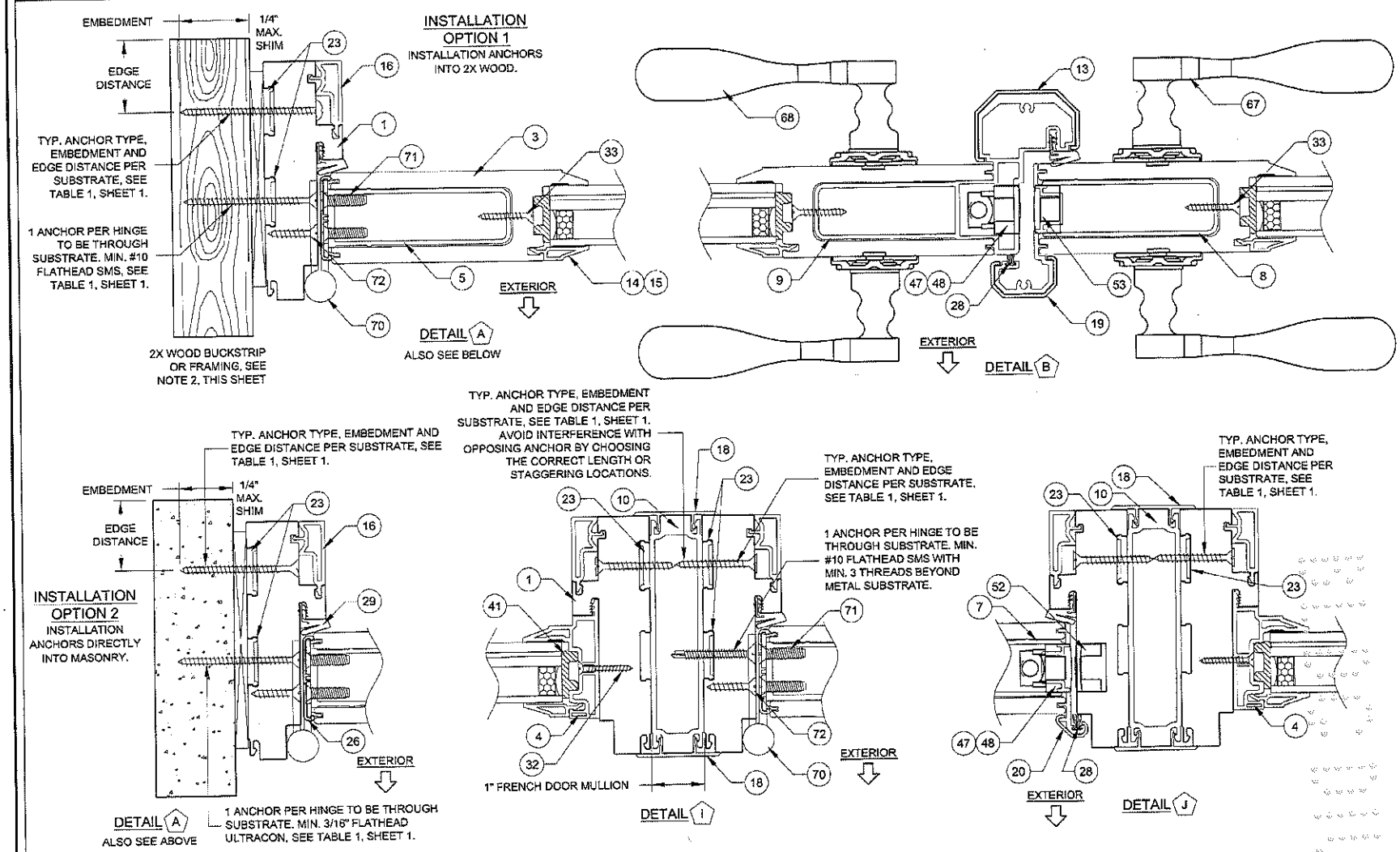
CERT. OF AUTH. #29296

Title: VINYL FRENCH DOOR AND SLT/TR
Date: 5/7/13
By: J ROSOWSKI
Drawn
Title: SLT/TR ANCHOR QUANTITIES
DWG No: MD-555.1
Rev: C
Sheet: 6 OF 12
Scale: NTS
Series: FD-5555

ANTHONY LYNN MILLER
LICENSE
No. 58705
7/28/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705



INSTALLATION NOTES:

1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 1, SHEET 1. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE DOOR, SIDELITE OR TRANSOM.
2) WOOD BUCKS DEPICTED ON THIS SHEET AS "1X", ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1-1/2". 1X WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO MASONRY. WOOD BUCKS DEPICTED AS "2X" ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
3) FOR ATTACHMENT TO METAL: THE STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE FRAME OF THE DOOR, SIDELITE OR TRANSOM.
4) IF APPLICABLE, LOWEST DESIGN PRESSURE FROM DOOR, SIDELITE, TRANSOM OR MULLION APPLIES TO THE WHOLE SYSTEM.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0504.05
Expiration Date Jan. 23, 2019
By Manuel Perez
Miami Dade Product Control

Revision
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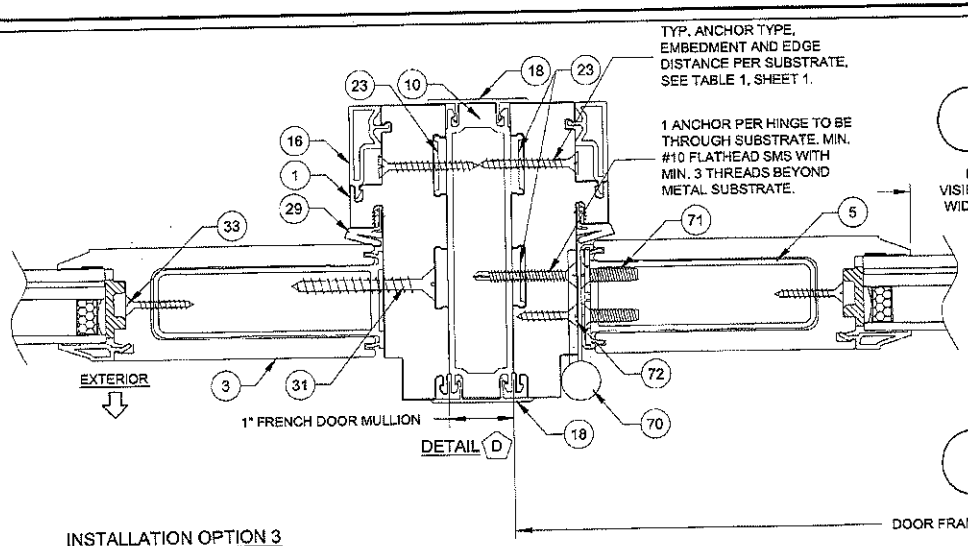
CERT. OF AUTH. #29296

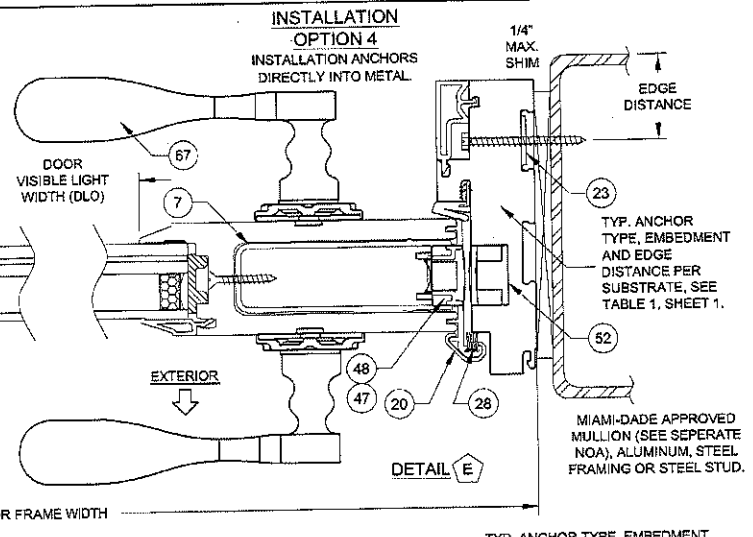
Title	Date	Drawn By	Dwg No	Rev.
VINYL FRENCH DOOR AND SLT/TR	5/7/13	J ROSOWSKI	MD-555.1	C
INSTALLATION 1				

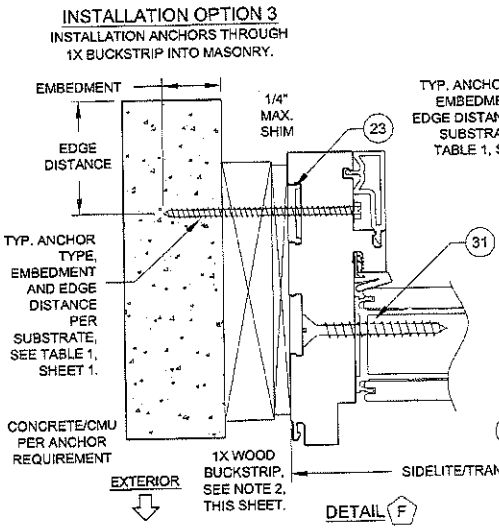
Series	Scale	Sheet	Dwg No	Rev.
FD-5555	NTS	7 OF 12	MD-555.1	C

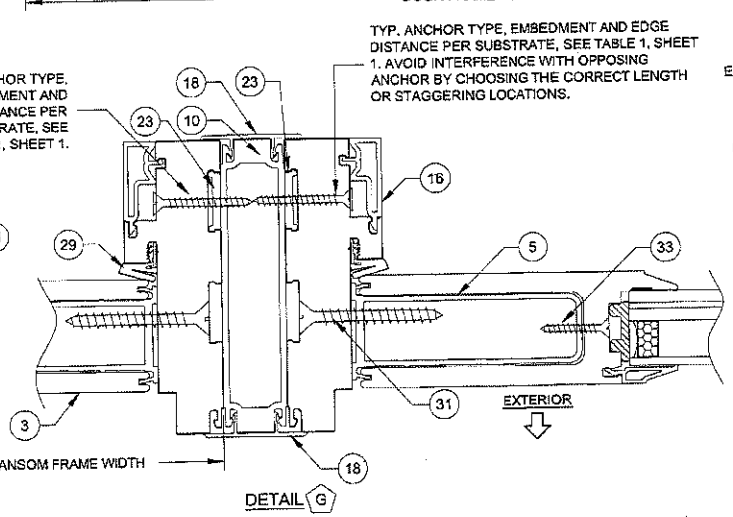
ANTHONY LYNN MILLER
LICENSE
No. 58705
4/28/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

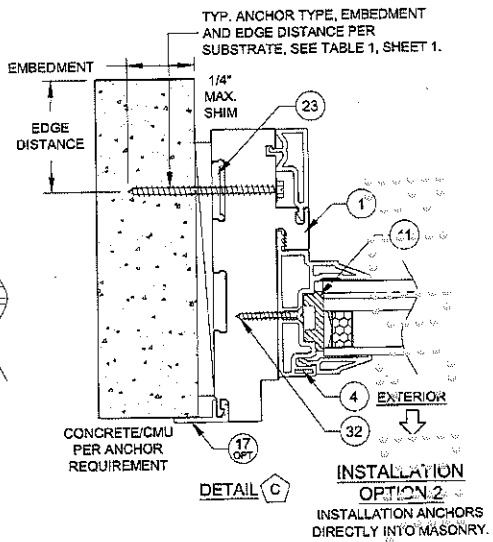
A. LYNN MILLER, P.E.
P.E.# 58705











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By Manuel Perez
Miami Dade Product Control

Revision	
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1070 TECHNOLOGY DRIVE
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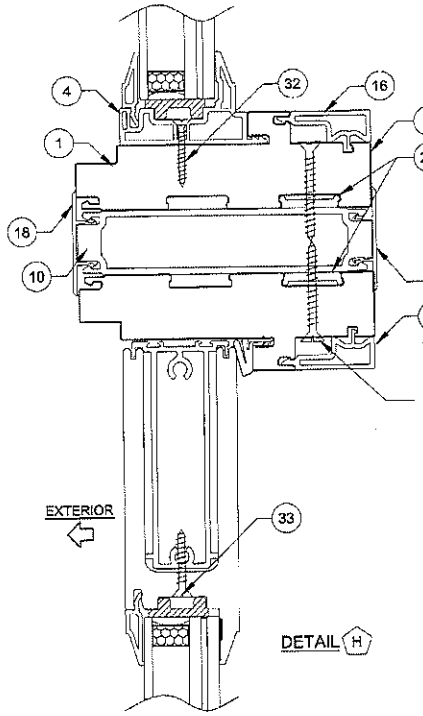
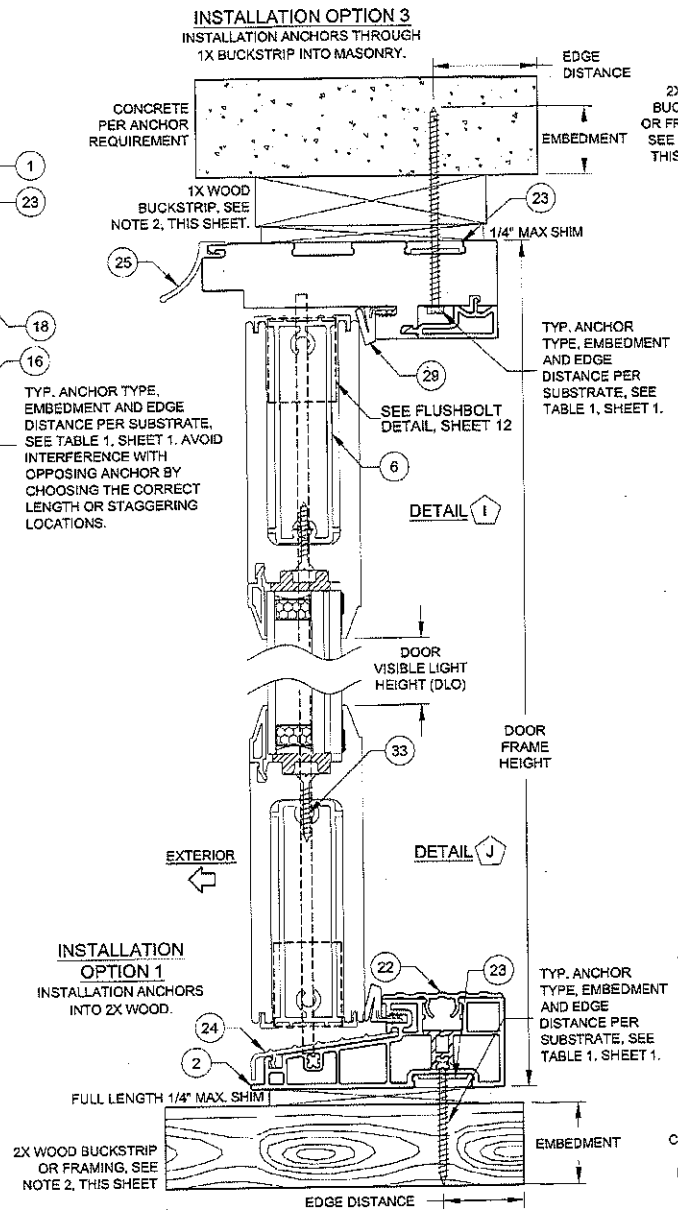
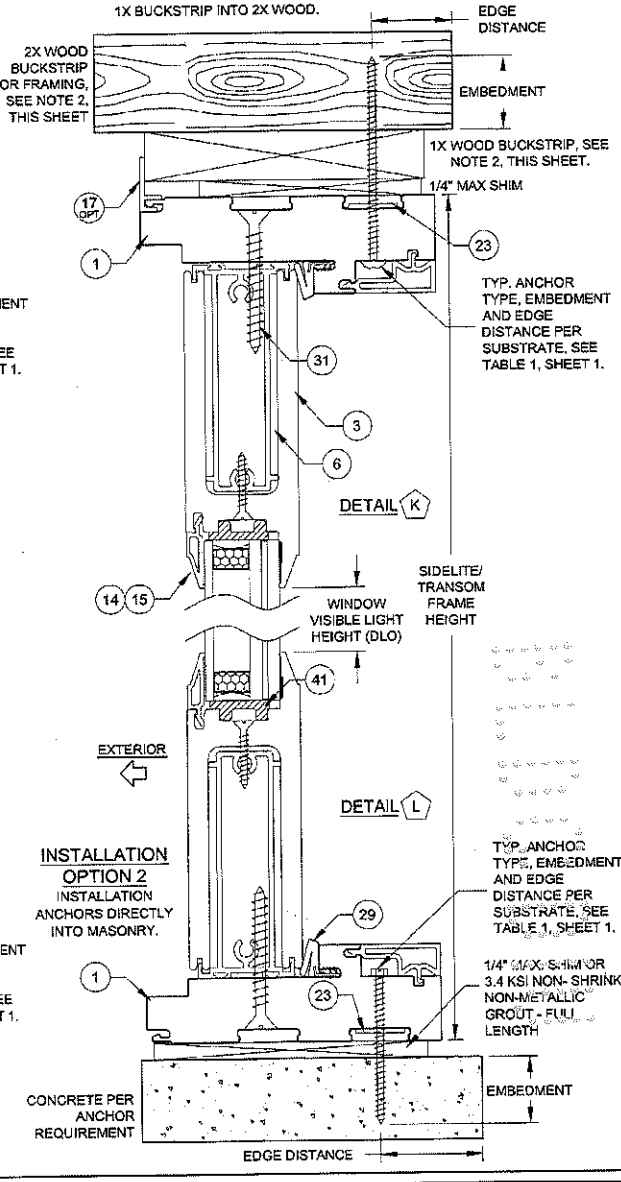
Date	5/7/13
Drawn By	J ROSOWSKI
DWG No.	MD-555.1
Rev.	C
Sheet	8 OF 12
Scale	NTS
Desc.	FD-5555
Title	VINYL FRENCH DOOR AND SLT/TR INSTALLATION 2

ANTHONY LYNN MILLER
LICENSE
No. 58705
7/28/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705







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1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 1, SHEET 1. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE DOOR, SIDELITE OR TRANSOM.

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PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0504.05
Expiration Date Jan. 23, 2019
By [signature]
Miami Dade Product Control

Revision
C) REVISED # 22 - JR - 04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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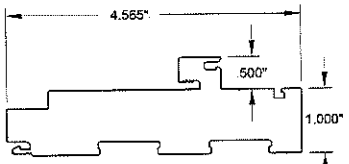
CERT. OF AUTH. #29296

Date	Drawn By	DWG No.	Rev.
5/7/13	J ROSOWSKI	MD-555.1	C

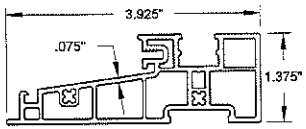
Title	Sheet	Scale	Series
VINYL FRENCH DOOR AND SLT/TR	9 OF 12	NTS	FD-5555

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/23/17

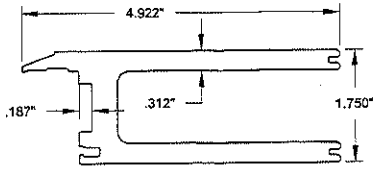
A. LYNN MILLER, P.E.
P.E.# 58705



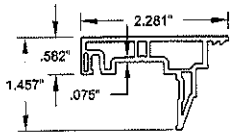
1 FRAME HEAD & JAMB
#20000,Rigid Cellular PVC



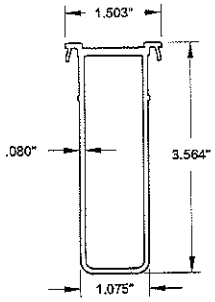
2 FRAME SILL
#20001, Rigid PVC



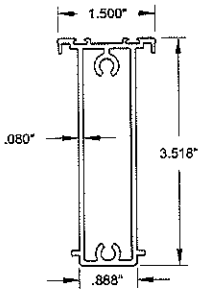
3 PANEL RAIL & STILE
#20002, Rigid Cellular PVC



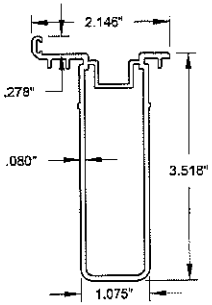
4 SIDELITE ADAPTER
#20003, Rigid PVC



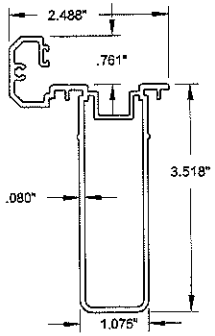
5 HINGE STILE REINFORCEMENT
#20013, 6063-T6



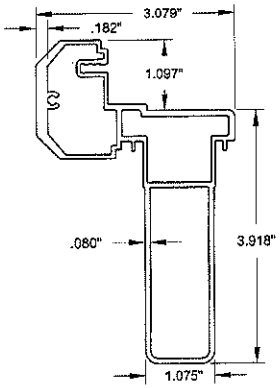
6 TOP & BOTTOM RAIL REINFORCEMENT
#20014, 6063-T6



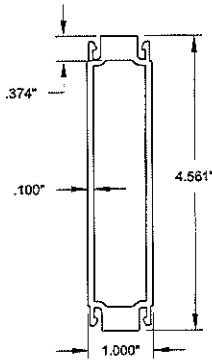
7 PANEL STILE REINFORCEMENT
#20015, 6063-T6



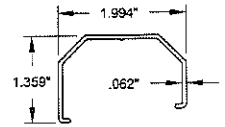
8 ACTIVE ASTRAGAL
#20016, 6063-T6



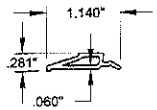
9 INACTIVE ASTRAGAL
#20017, 6063-T6



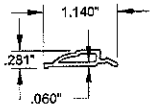
10 1" FRENCH DOOR MULLION
#20022, 6063-T6



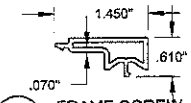
13 INACTIVE ASTRAGAL COVER
#20004, Rigid PVC



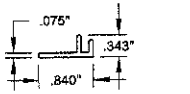
14 BEVELED BEAD
#20005, Rigid PVC



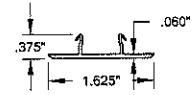
15 OGEE BEAD
#20006, Rigid PVC



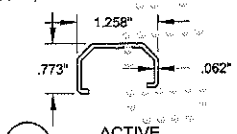
16 FRAME SCREW COVER
#20007, Rigid PVC



17 ADD-ON FIN/FLANGE
#20008, Rigid PVC



18 1" MULLION CAP
#20009, Rigid PVC



19 ACTIVE ASTRAGAL COVER
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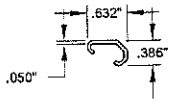
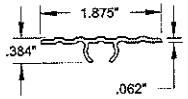
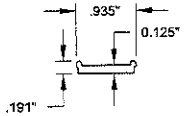


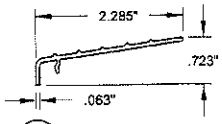
20 SINGLE DOOR ASTRAGAL COVER
#20012, Rigid PVC



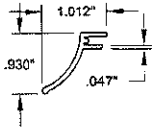
22 THRESHOLD COVER
#20057, 6063-T5



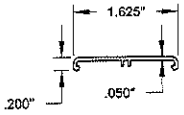
23 ANCHOR PLATE
#19031, 6063-T6



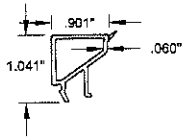
24 THRESHOLD CAP
#20020, 6063-T6



25 DRIP CAP
#20021, 6063-T6



26 HINGE TRIM COVER
#20023, Rigid PVC



27 7/16" SQUARE BEAD
#20047, Rigid PVC

ALL RIGID AND RIGID CELLULAR PVC BY VISION EXTRUSIONS, LTD.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-0504.05
Expiration Date Jan. 23, 2019
By Manuel Perez
Miami-Dade Product Control

Revision: C) REVISED # 22 - JR - 04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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CERT. OF AUTH. #29296

Date	5/7/13
Drawn By	J ROSOWSKI
Title	VINYL FRENCH DOOR AND SLT/TR EXTRUSIONS
Series	FD-5555
Scale	NTS
Sheet	10 OF 12
DWG No.	MD-555.1
Rev.	C

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
9/28/17

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 11:

#	PGT Part #	Description	Material
1	20000	Door & Sidelite/Transom Main Frame	Cellular PVC
2	20001	Door Frame Sill	Rigid PVC
3	20002	Panel Stile & Rail	Cellular PVC
4	20003	Sidelite Adaptor	Rigid PVC
5	20013	Hinge Stile Reinforcement	Alum., 6063-T6
6	20014	Panel Rail Reinforcement	Alum., 6063-T6
7	20015	Panel Stile Reinforcement	Alum., 6063-T6
8	20016	Active Astragal	Rigid PVC
9	20017	Inactive Astragal	Rigid PVC
10	20022	1" French Door Mullion	Alum., 6063-T6
13	20004	Inactive Astragal Cover	Rigid PVC
14	20005	1-1/16" Bevel Bead	Rigid PVC
15	20006	1-1/16" Ogee Bead	Rigid PVC
16	20007	Screw Cover	Rigid PVC
17	20008	Add-on Fin/Flange	Rigid PVC
18	20009	1" Mullion Cap	Rigid PVC
19	20011	Active Astragal Cover	Rigid PVC
20	20012	Single Door Astragal Cover	Rigid PVC
22	20057	Threshold Cover	Alum., 6063-T5
23	19031	Anchor Plate	Alum., 6063-T6
24	20020	Threshold Cover	Alum., 6063-T6
25	20021	Drip Cap	Rigid PVC
26	20023	Hinge Trim Cover	Rigid PVC
27	20047	7/16" Square Bead	Rigid PVC
28		Fin Weatherstrip	
29	1671/3	Frame Weatherstrip	
31	714FPT410XW	Frame-to-Wide Slab Screw: #14 X 1-1/2" Ph. FH, 16.625" O.C.	Stainless Steel
32	7S101X	Frame-to-Nar. Slab Screw: #10 X 1" Ph. FH, 28" O.C.	Stainless Steel
33	78X1FPT410	Reinforcement Screw: #8 X 1" Ph. FH, 18" O.C.	Stainless Steel
34	710X2FPAX	Frame Assembly Screw: #10 X 2" Ph. FH	Stainless Steel
35	714FPT410XW	W-W Slab Assembly Screw: #14 X 1-1/2" Ph. FH	Stainless Steel
36	714200X2.25	N-W Slab Assembly Screw: #14 X 2-1/4" Ph. FH	Stainless Steel
41	20026	Setting Block, 85 +/- 5 duro.	Vinyl
42		Backbedding: Dow-995 or GE-7700	Silicone
43		Argon Gas	
44	6HL5140	Hot Melt Butyl	
45	1652	Setting Block 9/16" x 4" x 3/16", 85 +/- 5 duro.	Neoprene
46	1614	Setting Block 1/2" x 1" x 1/8", 85 +/- 5 duro.	Neoprene
47 - 73 see Hardware BOM, Table 12, Sheet 12			
90	20033	Inactive Astragal Cap	Acetal
91	20035	Active Astragal Cap	Acetal

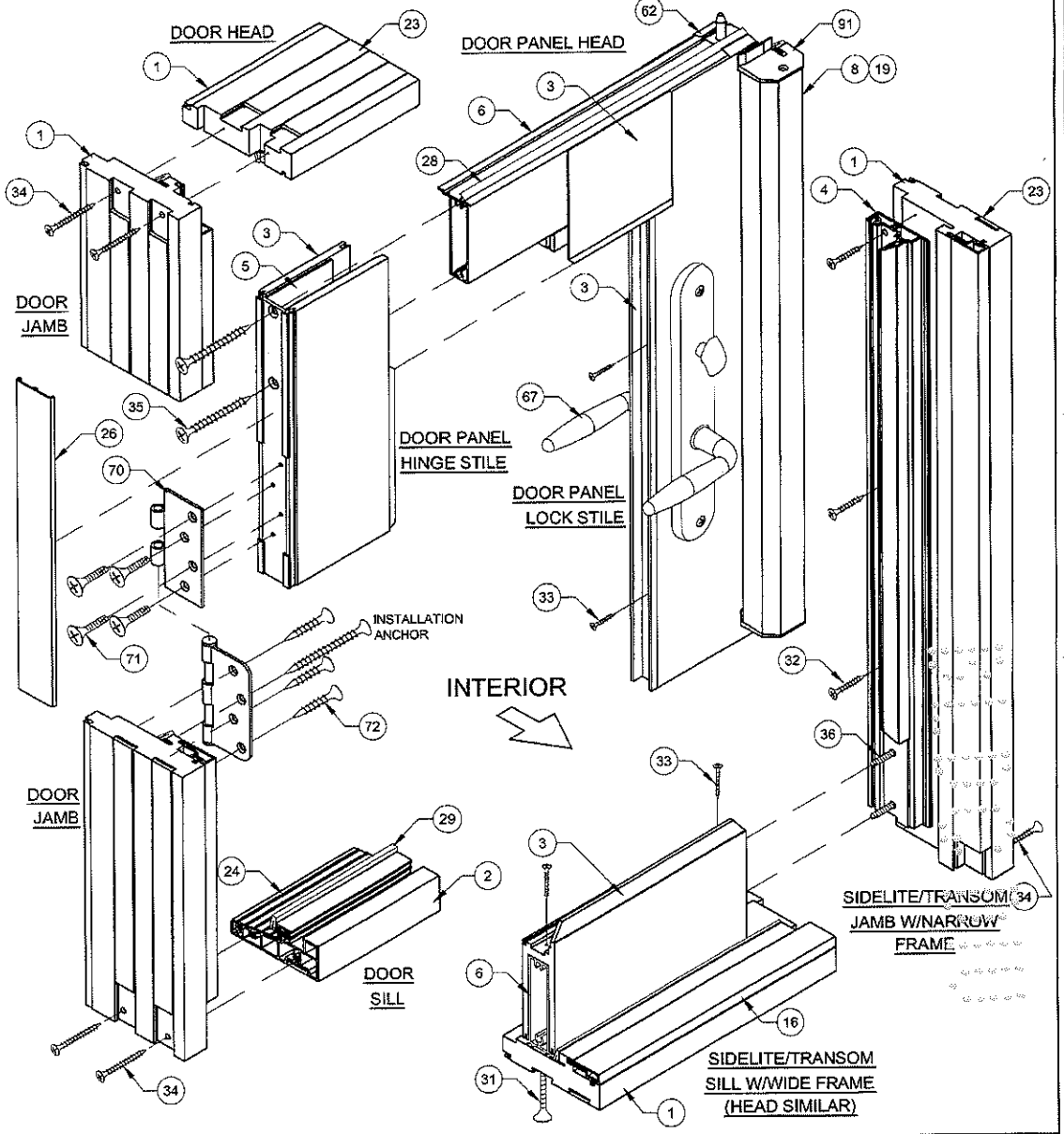
ALL RIGID PVC AND RIGID CELLULAR PVC BY ENERGI FENESTRATION SOLUTIONS USA, INC OR VISION EXTRUSIONS, LTD.

ANCHOR O.C. DIMENSIONS SHOWN AS MAXIMUM.

DAYLITE OPENING (DLO) SIZES

WHEN USING PART # 3: (WIDE RAILS OR STILES)
X DOOR FRAME HEIGHT- 12.1 = DLO HEIGHT
X DOOR FRAME WIDTH - 12.3 = DLO WIDTH
(XX DOOR FRAME HEIGHT) - 12.1 = DLO HEIGHT
(XX DOOR FRAME WIDTH / 2) - 11.5 = DLO WIDTH
SLT/TR FRAME HEIGHT- 12.1 = DLO HEIGHT
SLT/TR FRAME WIDTH - 12.1 = DLO WIDTH

WHEN USING PART # 4: (NARROW RAILS OR STILES)
SLT/TR FRAME HEIGHT- 4.9 = DLO HEIGHT
SLT/TR FRAME WIDTH - 4.9 = DLO WIDTH



PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0504.05
Expiration Date Jan 23, 2019
By Manuel Perez
Miami Dade Product Control

Revision: C) REVISED # 22 - JR - 04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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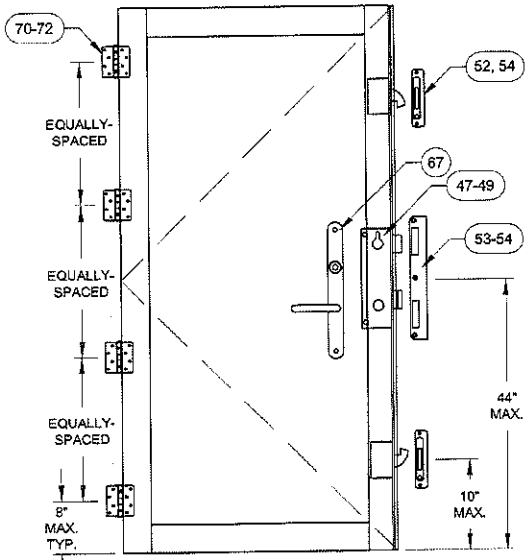
CERT. OF AUTH. #29296

Title	Date	Drawn By	DWG No.	Sheet	Scale	Rev.
VINYL FRENCH DOOR AND SLT/TR	5/7/13	J ROSOWSKI	MD-555.1	11 OF 12	NTS	C
CORNER DETAILS AND BOM						
Series	Level					
FD-5555						

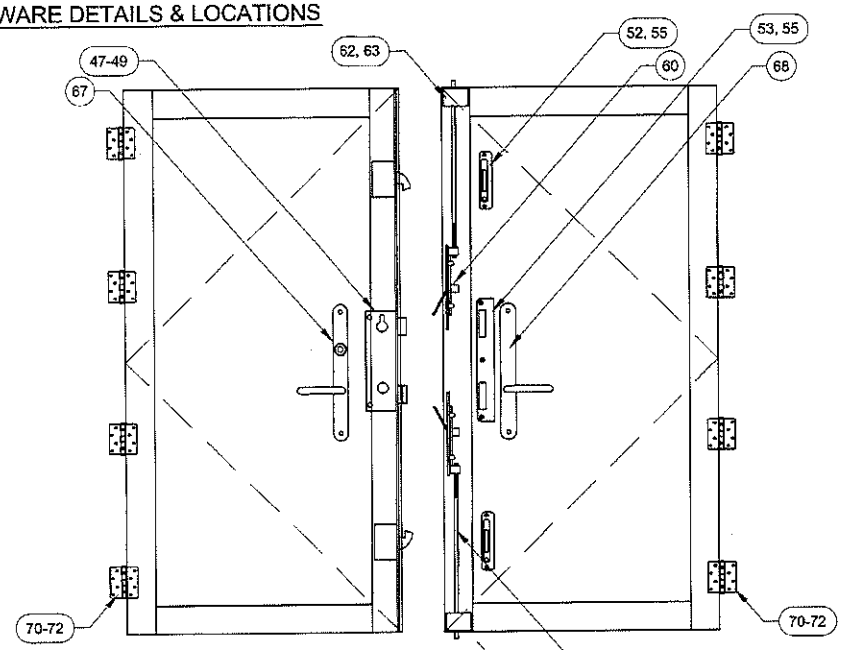
ANTHONY LYNN MILLER
LICENSE
No. 58705
4/28/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

HARDWARE DETAILS & LOCATIONS



"X" CONFIGURATION

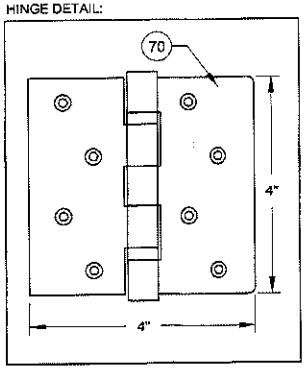


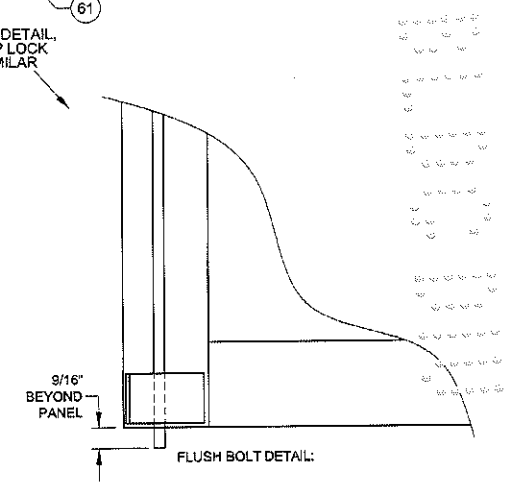
"XX" CONFIGURATION

TABLE 12:

#	PGT Part #	Description	Material
47	666032701	P3000 3-PT Rhino Lock (6'8"), Amesbury Inc.	Stainless Steel
48	666032702	P3000 3-PT Rhino Lock (over 6'8"), Amesbury Inc.	Stainless Steel
49	71032X1FPFX	Rhino Lock Screw: 10-32 X 1" Phil. FH	Stainless Steel
52	20027	Adjustable Strike Plate Assembly, Amesbury Inc.	Stainless Steel
53	20028	Center Strike Plate Assembly, Amesbury Inc.	Stainless Steel
54	7S101X	Strike Plate Screw, (X): #10 X 1" Phil. FH	410 S.S.
55	78X12PFHUX	Strike Plate Screw, (XX): #8 X 1/2" Phil. FH	410 S.S.
60	7SB1202	Flush Bolt (XX)	
61	7803725	Flush Bolt Rod (XX)	
62	420034	Flush Bolt Guide (XX)	
63	7832X12FPXP	Flush Bolt Guide Screw: 8-32 X 1/2" Phil. FH	
64	48033N	Guide Pin (XX)	
65	78036	Flush Bolt Strike Plate (XX), Amesbury Inc.	Stainless Steel
66	7832X12FPXP	Flush Bolt Strike Plate Screw, (XX): #8 X 3/4" Phil. FH	410 S.S.
67	varies	Handle/Lever	
68	varies	Dummy Handle/Lever	
70	20025	Butt Hinge, Amesbury Inc.	Stainless Steel
71	71032X1FPFX	Hinge, Slab Screw: #10-32 X 1" Phil FH	Stainless Steel
72	7S101X	Hinge, Frame Screw: #10 X 1" Phil. FH	Stainless Steel

HINGE DETAIL:





FLUSH BOLT DETAIL:

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0504.05
Expiration Date Jan. 23, 2019
By Manuel Pérez
Miami Dade Product Control

Revision
C) NO CHANGES THIS SHEET
JR - 04/10/17

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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CERT. OF AUTH. #29286

Title: VINYL FRENCH DOOR AND SLT/TR
Date:
Drawn By: J ROSOWSKI
Rev. C
Desc. Title: DESIGN PRESSURE TABLES 3
DWG No. MD-555.1
Sheet: 12 OF 12
Scale: NTS
Sel/Ref: FD-5555

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/28/17

A. LYNN MILLER, P.E.
P.E.# 58705

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive,
North Venice, Fl. 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "SGD 5570-Window" Vinyl Horizontal Sliding Glass Window (Reinforced) w/ wo 90^0 and 135^0 corners and w/wo Pockets-L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-5570W.0 Rev A**, titled "Vinyl Sliding Glass Window", sheets 1 through 21 of 21, prepared by manufacturer, dated 04/14/16 and last revised on 04/18/17, signed and sealed by Anthony L. Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and revision date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. **See table 1 (sheet 7) and table 2 (sheet 8) of this approved drawing set for applicable Window unit sizes, design pressures, reinforcements types, glass types, sill riser (Table B1 & B2) and anchors requirements.**
2. **See glass options in sheet 10. Product can be Exterior or Interior glazed. Interior glazed to be rotated 180^0 shown, such that "HS" surface of laminated glass adhered to glazing leg.**
3. **Rigid White PVC, Tan (Non-white) Rigid PVC and Brown coated (Painted or laminated) white Rigid PVC manufactured by Vision Extrusion, Ltd to be labeled per referenced NOA's requirements.**
4. **Pocket walls under separate approval, to be reviewed by Building official.**

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises # 16-0505.01** consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E**

MIAMI-DADE COUNTY APPROVED

8/24/17

NOA No. 17-0420.16
Expiration Date: August 04, 2021
Approval Date: August 31, 2017
Page 1

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files **see below**).
2. Drawing No. **MD-5570W.0 Rev A**, titled "Vinyl Sliding Glass Window", sheets 1 through 21 of 21, prepared by manufacturer, dated 04/14/16 and last revised on 04/18/17, signed and sealed by Anthony L. Miller, P.E.

Note: This revision consist of adding FBC 2017 (6th Edition) and identifying PVC extruder notes.

B. TESTS (Submitted under files **# 16-0505.01 /#15-1210.01**)

1. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94.
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC, TAS 202-94

   along with marked-up drawings and installation diagram of vinyl sliding glass doors, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 8546** dated 11/06/15 and revised on 01/04/16 & 02/11/16, **FTL 8547** dated 12/04/15 and revised on 02/15/16, Test Report No. **FTL 8548**, dated 12/04/15 & revised on 01/04/16 & 02/11/16, **FTL 8549** dated 11/06/15 and revised on 12/04/15 and 02/11/16, **FTL 8552** dated 12/04/15 and 02/15/2016, all signed and sealed by Idalmis Ortega, P. E.
2. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94.
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94

   along with marked-up drawings and installation diagram of vinyl sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 6638** (samples A-1 thru A-22), dated 11/19/10, signed and sealed by Jorge A. Causo, P. E.
   (The above test report has an addendum letter dated 3-11-11, issued by FTL, signed and sealed by Marlin D. Brinson, P.E. (reviewing Engineer). (Submitted under file **# 15-0409.02/#13-1125.05**)
3. REF Test report on 1) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   Along with marked-up drawings and installation diagram of Aluminum Sliding Glass Doors (w/ TPS, Super, Cardinal & Duraseal Spacers), prepared by Fenestration Testing Laboratory, Inc., Test Reports No(s) **FTL-8717, FTL-8970** and **FTL-8968**, dated 02/15/16, 06/07/16 and 06/20/16, all signed & sealed by Idalmis Ortega, P.E
4. Additional REF test report No. **FTL 6637** (samples A-1 thru A-5) per TAS 202-94, issued by Fenestration Testing Lab, Inc., dated 12/06/10, signed and sealed by Jorge A. Causo, P. E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0420.16
Expiration Date: August 04, 2021
Approval Date: August 31, 2017

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS (Submitted under files **# 16-0505.01**)

1. Statement letter of compliance to FBC 2017 (6th Edition) dated 08/02/17, prepared by PGT, signed and sealed by Anthony L. Miller, P.E.
2. Anchor verification calculations and structural analysis, complying with FBC-2014 (5th edition), prepared by PGT, dated 05/02/16, signed and sealed by Anthony L. Miller, P.E.
3. Glazing complies with ASTME-1300-02, -04 & -09.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0820.11** issued to Vision Extrusion Ltd for their "**White Rigid PVC**", expiring on 09/30/19.
2. Notice of Acceptance No. **16-0920.08** issued to Vision Extrusion Ltd for their "**VE 1000 Tan 202 & light shaded (Non-White) Rigid PVC**", expiring on 12/29/21.
3. Notice of Acceptance No. **14-0820.12** issued to Vision Extrusion Ltd for their "Brown Coated (Painted or Laminated) **White Rigid PVC**", expiring on 09/30/19
4. Test reports No(s). 10-002-792(A), 10-006-10231, 535753-09, per ASTME-84, ASTMD1929 and ASTMD-635, issued by EXOVA to Vision Extrusion for cellulosic composite material.
5. Notice of Acceptance No. **14-0916.11** issued to Kuraray America., Inc. for the "**Sentry Glass ® (Clear and White) Interlayer**", expiring on 07/04/18.
6. Notice of Acceptance No. **16-1117.01** issued to Kuraray America, Inc. for the "**Trosifol ultra clear, clear & color PVB glass interlayer** (former Kuraray **Butacite PVB Interlayer)**", expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of compliance to FBC 2017 (6th Edition) dated 08/02/18, prepared by PGT, signed and sealed by Anthony L. Miller, P.E.
2. Statement letters of compliance to FBC 2014 (5th Edition) and "No financial interest", dated 05/02/16, prepared by PGT, signed & sealed by Lynn Miller, P.E. (Submitted under files **# 16-0505.01)**
3. Letter of lab compliance, part of the above test reports.

G. OTHER

1. This NOA **revises # 16-0505.01**, expiring 04/04/21.
2. Test proposals #16-0152 dated 03/09/16 approved by RER, test proposal dated April 17, 2015 approved by Jaime D. Gascon, P.E. and # **10-0767**, dated 08/25/10 approved by BCCO.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0420.16
Expiration Date: August 04, 2021
Approval Date: August 31, 2017

SERIES 5570 IMPACT RESISTANT SLIDING GLASS WINDOW INCLUDING POCKETS & 90°/135° CORNERS

GENERAL NOTES:
1) GLAZING TYPE OPTIONS: SEE GLAZING DETAILS ON SHEET 10.
2) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
3) ANCHORAGE: THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
4) SHUTTERS ARE NOT REQUIRED PER FBC REQUIREMENTS, AS APPLICABLE.
5) INSTALLATION SCREWS & FRAME SPLICES TO BE SEALED WITH NARROW JOINT SEALANT.
6) REFERENCES (NOA'S): ELCO ULTRACON, CRETEFLEX & AGGREGATOR ANCHOR NOA'S, ENERGI FENESTRATION SOLUTIONS USA, INC. OR VISION EXTRUSION, LTD. WHITE RIGID PVC NOA, VE 1000 TAN 202 AND LIGHTER SHADES (NON-WHITE) RIGID PVC NOA AND BROWN COATED (PAINTED OR LAMINATED) WHITE RIGID PVC NOA
REFERENCES (TEST REPORTS): FTL-6337, 6338, 8646-8649, 8652 & 8717; EXOVA-10-002-792(A) & 10-006-10231; CAMBRIDGE 535753-09;
7) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FBC, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ). THE RIGID WHITE, BROWN & TAN PVC MANUFACTURED BY ENERGI FENESTRATION SOLUTIONS USA, INC. OR VISION EXTRUSION, LTD. HAS BEEN TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE FOR PLASTICS, (COMPONENT REQUIREMENTS).
8) WINDOW SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS OF THE FBC, AS APPLICABLE.
9) DRAWINGS DEPICT EXTERIOR-GLAZING, HOWEVER INTERIOR-GLAZING MAY BE SUBSTITUTED.
10) THE 5570 SERIES SLIDING GLASS WINDOW MAY ALSO BE KNOWN AS THE 570/2770 SERIES.

ANCHOR NOTES:
1) FOR CONCRETE/CMU SUBSTRATE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO ANCHORS. SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
2) FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE A ON THIS SHEET.
3) WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED, 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
4) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER THE FBC AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
5) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

INSTRUCTIONS:
1) KNOWING THE REQUIRED DESIGN PRESSURE OF THE OPENING, THE ANCHOR REQUIREMENTS FOR THE SLIDING GLASS WINDOWS MAY BE DETERMINED FROM DESIGN PRESSURE TABLES 1 OR 2, DEPENDING ON THE GLASS/REINFORCEMENT.
2) LOCATE THE SLIDING GLASS WINDOW SIZE ON THE TABLE, USING THE FRAME HEIGHT AND THE NOMINAL PANEL WIDTH IF YOUR EXACT SIZE IS NOT LISTED, ROUND UP TO THE NEXT GREATER LISTED WIDTH AND/OR HEIGHT.
3) CHOOSE WHICH ANCHOR GROUP (A-D) IS MOST APPLICABLE. ANCHORS ARE DEFINED IN TABLE A, THIS SHEET, ALONG WITH THE CORRESPONDING SUBSTRATE, MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE.
4) FROM THE DESIGN PRESSURE TABLES (TABLES 1 OR 2), VERIFY THAT THE OPENING'S REQUIRED DESIGN PRESSURE IS MET OR EXCEEDED. USE THE ANCHOR QUANTITIES SHOWN.
5) INSTALL AS PER THE GUIDELINES OF THIS SHEET-SET.
6) ADDITIONALLY, SEE THE EXAMPLE ON SHEET 9.

TABLE A:

Group	Anchor	Substrate	Frame Member	Min. Edge Distance	Min. Embedment
A	#12, steel SMS (G5) or 410 S.S. SMS (min. 11 threads/in) F_y=90 ksi, F_u=110 ksi	P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	9/16"	1-3/8"
			P-hook	9/16"	1-3/8"
		Aluminum, 6063-T5* (0.125" min. thickness)	Head/Sill/Jamb	3/8"	1/8"
			P-hook	3/8"	1/8"
		Steel, A36* (0.060" min. thickness)	Head/Sill/Jamb	3/8"	0.060"
			P-hook	3/8"	0.060"
		Steel Stud, A653 Gr. 33* (0.071" min. thickness)	Head/Sill/Jamb	3/8"	0.071" (14 Ga.)
			P-hook	3/8"	0.071" (14 Ga.)
	1/4" Elco Ultracon F_y= 155 ksi, F_u= 177 ksi	P.T. Southern Pine (SG=0.55)	Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
	1/4" Elco 410 S.S. CreteFlex F_y=127.4 ksi, F_u= 189.7 ksi	P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
B	#12, steel wood screw (G5)	P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	9/16"	1-3/8"
			P-hook	9/16"	1-3/8"
C	1/4" Elco Ultracon F_y= 155 ksi, F_u= 177 ksi	Concrete (min. 2.85 ksi)	P-hook	1"	1-3/8"
			Head/Sill/Jamb	1-3/16"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	1"	1-1/4"
			P-hook	1"	1-1/4"
	1/4" Elco 410 S.S. CreteFlex F_y=127.4 ksi, F_u=189.7 ksi	Ungrouted CMU, (ASTM C-90)	Jamb	1-3/4"	1-1/4"
			P-hook	1-3/4"	1-1/4"
		Concrete (min. 3.35 ksi)	Head/Sill/Jamb	1-3/16"	1-3/4"
			P-hook	1"	1-3/4"
	1/4" Elco 18-8 S.S. Aggre-Gator F_y=57 ksi, F_u=96 ksi	Concrete (min. 2.22 ksi)	Head/Sill/Jamb	1-1/2"	1-3/8"
			P-hook	1-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	2"	1-1/4"
			P-hook	2"	1-1/4"
		P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
D	1/4" Elco Ultracon F_y=155 ksi, F_u= 177 ksi	Concrete (min. 2.85 ksi)	Head/Sill/Jamb	2-1/2"	1-3/8"
			P-hook	2-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
			P-hook	2-1/2"	1-1/4"
	1/4" Elco 410 S.S. CreteFlex F_y=127.4 ksi, F_u= 189.7 ksi	Concrete (min. 3.35 ksi)	Head/Sill/Jamb	2-1/2"	1-3/4"
			P-hook	2-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
			P-hook	2-1/2"	1-1/4"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE. METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

FOR STEEL STUDS, MIN. FU=45 KSI & MIN. FY=33 KSI.

"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

DESIGN PRESSURE RATING
SEE TABLES 1, 2 & B1, B2 ON SHEETS 7 & 8

CODES / STANDARDS USED:
- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-12
- AISC 360-10

GENERAL NOTES.....1
EXAMPLE CONFIGS.....2
INSTALL DETAILS.....3-6
DP/ANCHOR TABLES.....7-8
EXAMPLE.....9
GLAZING DETAILS.....10
ANCHOR LOCATIONS.....11-16
PANEL TYPES.....17
EXTRUSIONS.....18
ACCESSORIES.....19
SCREEN DETAILS.....20
PARTS LIST.....21

PRODUCT REVISED
Complying with the Florida Building Code
Acceptance No 17-0420.16
Expiration Date: Aug 04, 2021
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

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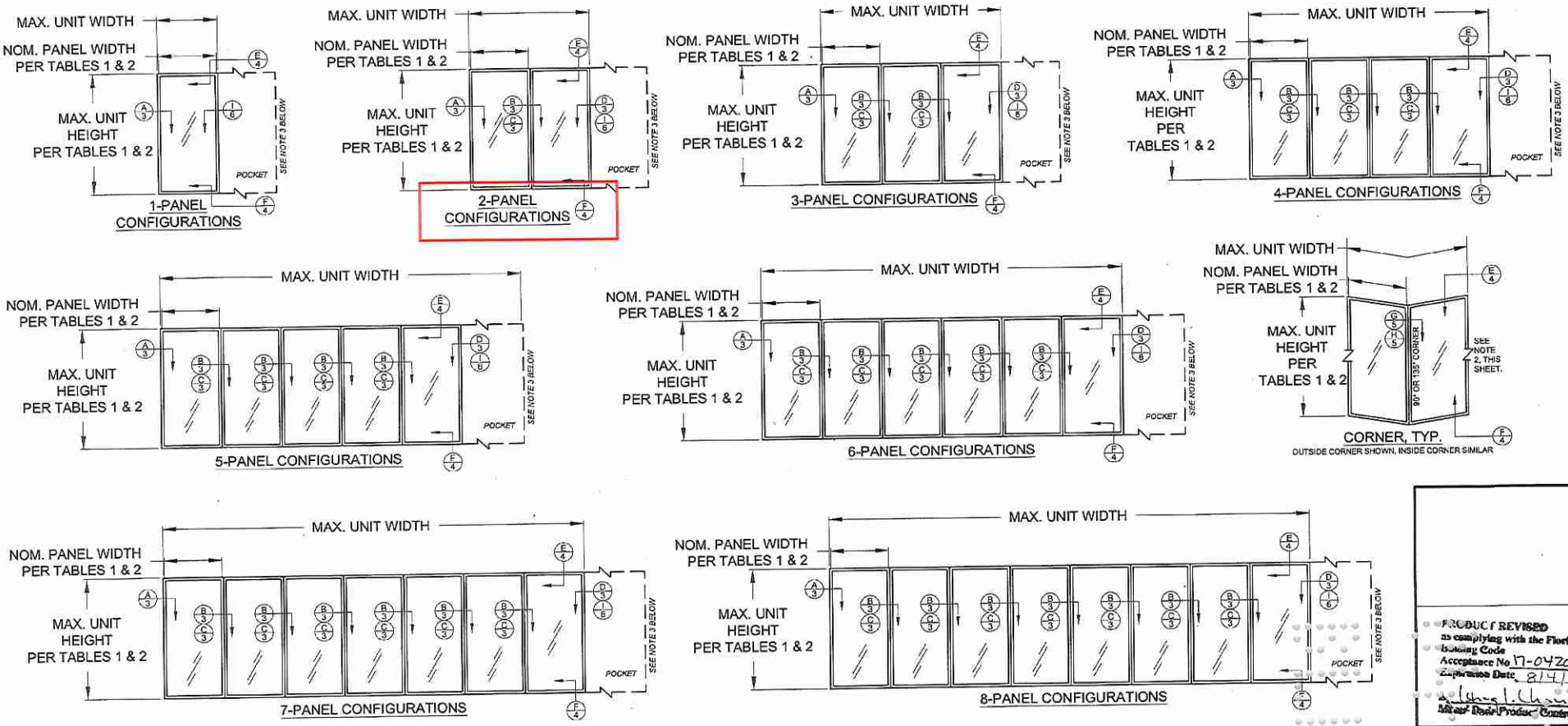
N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS WINDOW NOA (LM)			Date	04/14/16
Desc.	GENERAL NOTES			Drawn By	J ROSOWSKI
Rev	UPDATED TO FBC 2017, VINYL MFG.			Eng Dep	04/05/17
Rev				Rev Dep	
Series	SGD-5570 WINDOW	Scale NTS	Sheet 1 OF 21	DWG No. MD-5570W.0	Rev. No. A



CONFIGURATIONS NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. EXAMPLE: 4-PANEL XXXX IN POCKET (p) CONFIGURATION CAN BE pXXXXp, pXXXX OR XXXXp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.

2) 90° & 135° CORNER CONFIGURATIONS ARE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.

3) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

4) FOR NOM. PANEL WIDTH, SEE TABLES 1 & 2.

5) MAX. ALLOWABLE FRAME SQUARE FOOTAGE = 472.656 FT²

"X" = OPERABLE PANEL
"O" = INOPERABLE PANEL
"p" = POCKET

DETAIL LETTER
SHEET NUMBER

DLO WIDTH = NOM. PANEL WIDTH - 8-9/16"
NOM. PANEL WIDTH = PANEL WIDTH + 1-3/16"
DLO HEIGHT = DOOR HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 17-0420.16
Expiration Date 8/14/21
Miami-Dade Product Control

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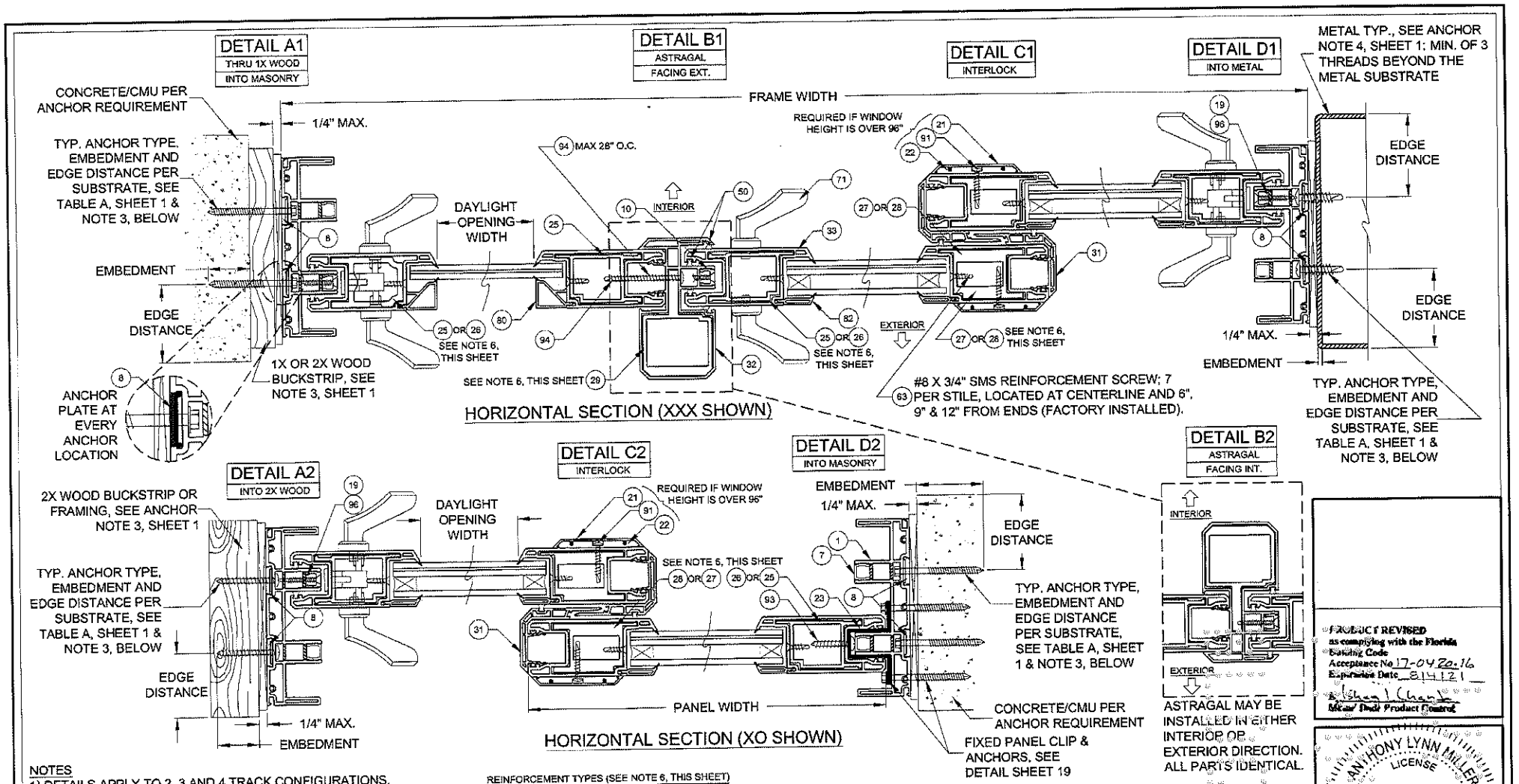
Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	EXAMPLE CONFIGURATIONS	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	

Series	Scale	Sheet	DWG No.	Rev. No.
SGD-5570 WINDOW	NTS	2 OF 21	MD-5570W.0	A



NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEET 13 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
6) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS. ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.
7) SEE SHEET 20 FOR SCREEN DETAILS.

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Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	INSTALLATION, HORIZONTAL X-SECT.	Drawn By	J ROSCWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	

Series	SGD-5570 WINDOW	Scale	NTS	Sheet	3 OF 21	DWG No.	MD-5570W.0	Rev No.	A

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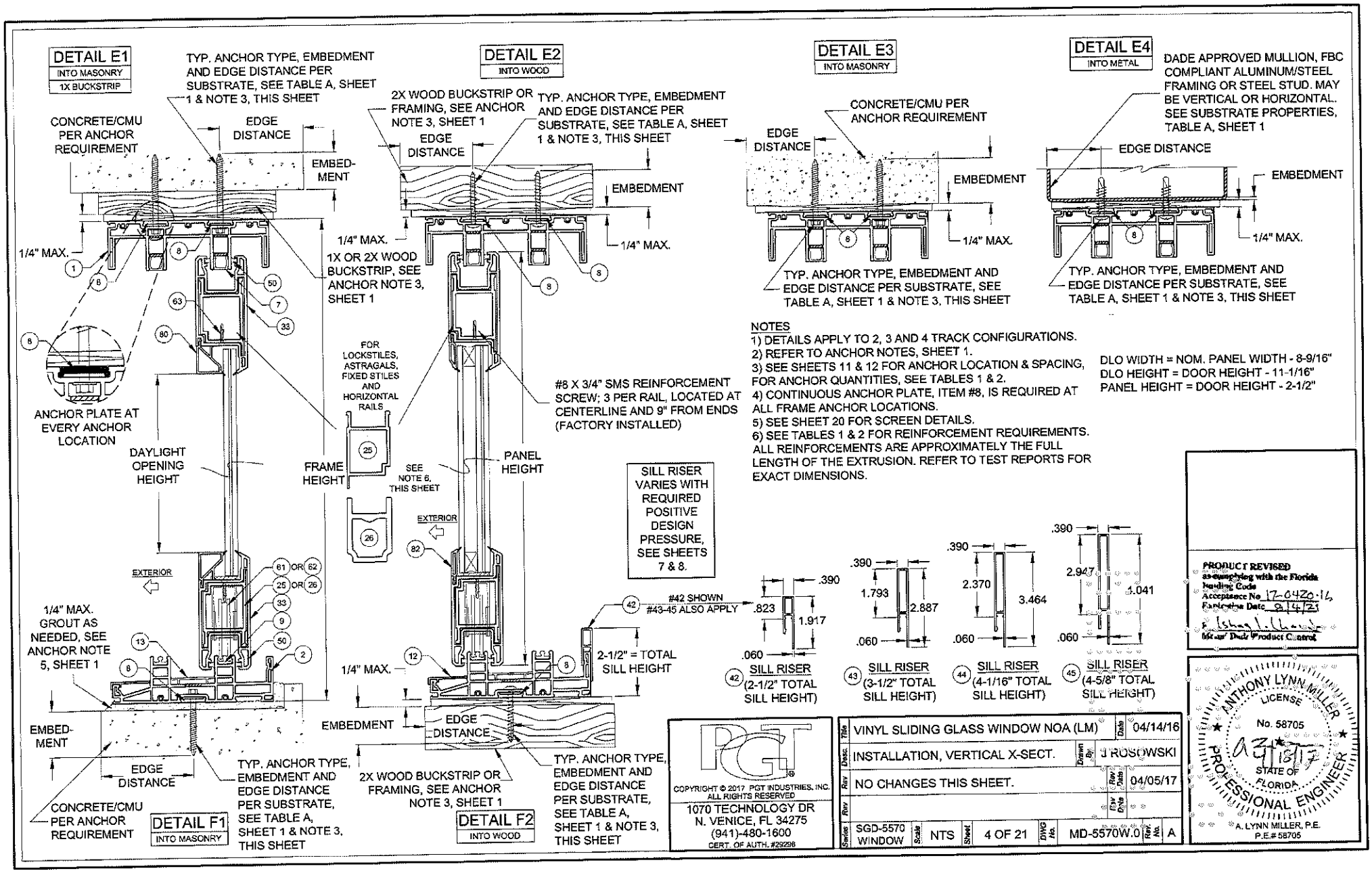
P.E.# 58705


DETAIL E1
INTO MASONRY
1X BUCKSTRIP
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET
CONCRETE/CMU PER ANCHOR REQUIREMENT
EDGE DISTANCE
EMBED-MENT
1/4" MAX.
1X OR 2X WOOD BUCKSTRIP, SEE ANCHOR NOTE 3, SHEET 1
ANCHOR PLATE AT EVERY ANCHOR LOCATION
DAYLIGHT OPENING HEIGHT
FRAME HEIGHT
EXTERIOR
1/4" MAX. GROUT AS NEEDED, SEE ANCHOR NOTE 5, SHEET 1
EMBED-MENT
EDGE DISTANCE
CONCRETE/CMU PER ANCHOR REQUIREMENT
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET
DETAIL F1
INTO MASONRY
DETAIL E2
INTO WOOD
2X WOOD BUCKSTRIP OR FRAMING, SEE ANCHOR NOTE 3, SHEET 1
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET
EDGE DISTANCE
EMBEDMENT
1/4" MAX.
FOR LOCKSTILES, ASTRAGALS, FIXED STILES AND HORIZONTAL RAILS
#8 X 3/4" SMS REINFORCEMENT SCREW; 3 PER RAIL, LOCATED AT CENTERLINE AND 9" FROM ENDS (FACTORY INSTALLED)
PANEL HEIGHT
SEE NOTE 6, THIS SHEET
EXTERIOR
SILL RISER VARIES WITH REQUIRED POSITIVE DESIGN PRESSURE, SEE SHEETS 7 & 8.
#42 SHOWN
#43-45 ALSO APPLY
2-1/2" = TOTAL SILL HEIGHT
1/4" MAX.
EMBEDMENT
EDGE DISTANCE
2X WOOD BUCKSTRIP OR FRAMING, SEE ANCHOR NOTE 3, SHEET 1
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET
DETAIL F2
INTO WOOD
DETAIL E3
INTO MASONRY
CONCRETE/CMU PER ANCHOR REQUIREMENT
EDGE DISTANCE
EMBEDMENT
1/4" MAX.
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET
DETAIL E4
INTO METAL
DADE APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLE A, SHEET 1
EDGE DISTANCE
EMBEDMENT
1/4" MAX.
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET
NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEETS 11 & 12 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) SEE SHEET 20 FOR SCREEN DETAILS.
6) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS. ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.
DLO WIDTH = NOM. PANEL WIDTH - 8-9/16"
DLO HEIGHT = DOOR HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"
.390
.823
1.917
.060
42 SILL RISER (2-1/2" TOTAL SILL HEIGHT)
.390
1.793
2.887
.060
43 SILL RISER (3-1/2" TOTAL SILL HEIGHT)
.390
2.370
3.464
.060
44 SILL RISER (4-1/16" TOTAL SILL HEIGHT)
.390
2.947
1.041
.060
45 SILL RISER (4-5/8" TOTAL SILL HEIGHT)
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-0420.16
Effective Date 8/4/21
Miami-Dade Product Control
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
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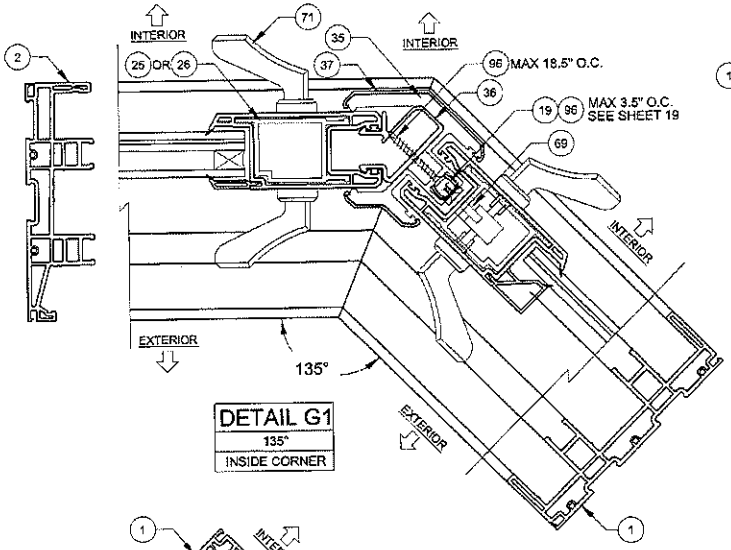
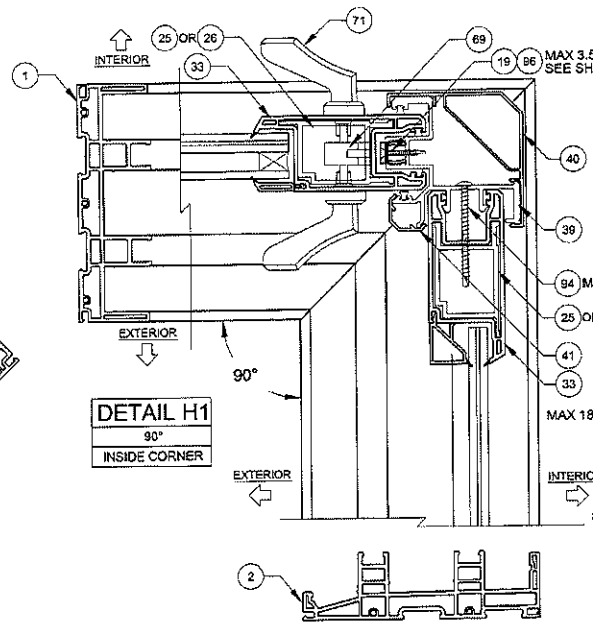
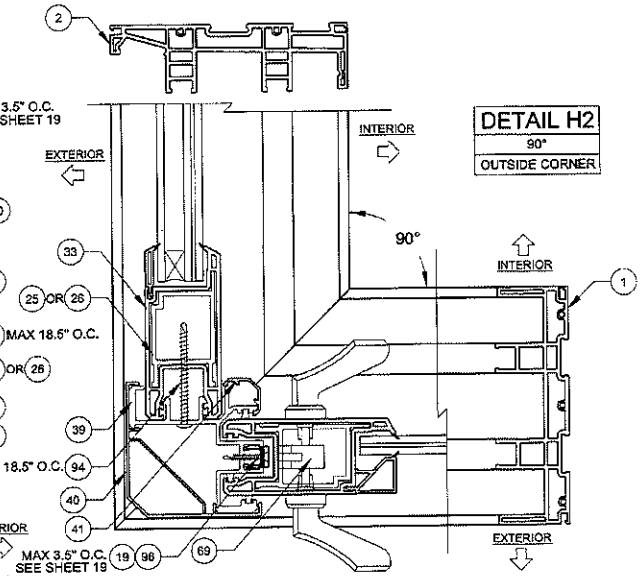
(941)-480-1600
CERT. OF AUTH. #29298
Title: VINYL SLIDING GLASS WINDOW NOA (LM)
Date: 04/14/16
Desc.: INSTALLATION, VERTICAL X-SECT.
Drawn By: J ROSOWSKI
Rev: NO CHANGES THIS SHEET.
Rev Date: 04/05/17
Series: SGD-5570 WINDOW
Scale: NTS
Sheet: 4 OF 21
DWG No.: MD-5570W.0
Rev. No.: A



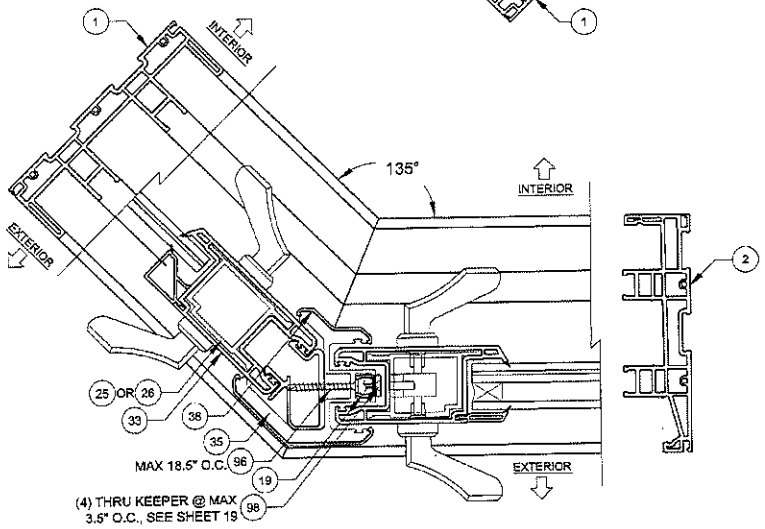
DETAIL G1
135°
INSIDE CORNER



DETAIL H1
90°
INSIDE CORNER



DETAIL H2
90°
OUTSIDE CORNER



DETAIL G2
135°
OUTSIDE CORNER

NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 14 & 15 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
3) CORNER ASTRAGAL MAY BE EITHER TO THE INTERIOR OR EXTERIOR, DEPENDING ON CONFIGURATION.

PRODUCT REVIEWED as complying with the Florida Building Code
Acceptance No. 17-0420.16
Expiration Date 8/4/21
Miami-Dade Product Control

ANTHONY LYNN MILLER
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No. 58705
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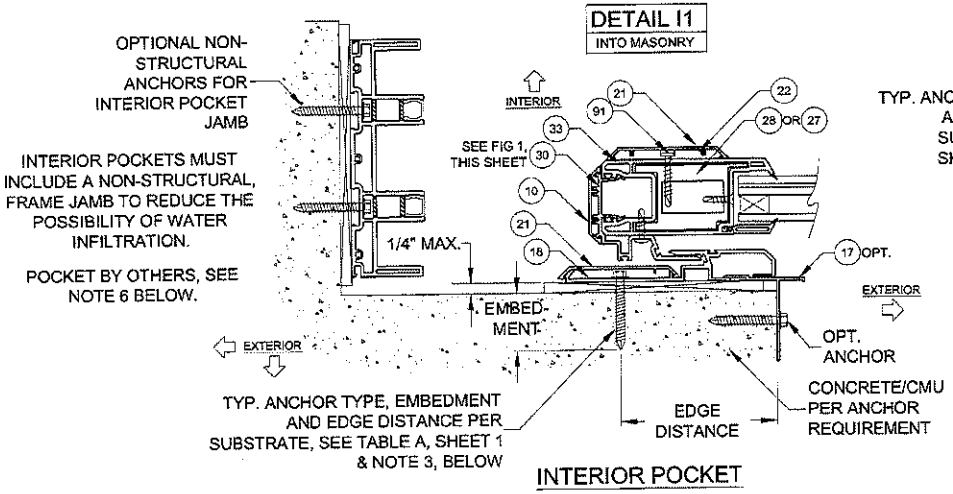
Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	CORNER ASTRAGAL HORIZ. X-SECT.	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	

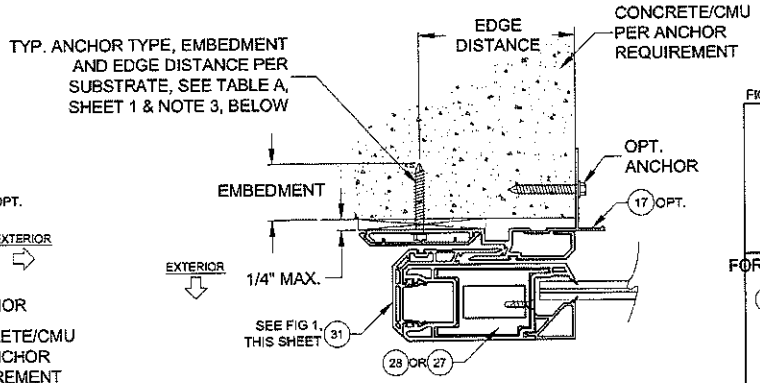
Series	SGD-5570 WINDOW	Scale	NTS	Sheet	5 OF 21	DWG No.	MD-5570W.0	Rev No.	A

DETAIL I1
INTO MASONRY



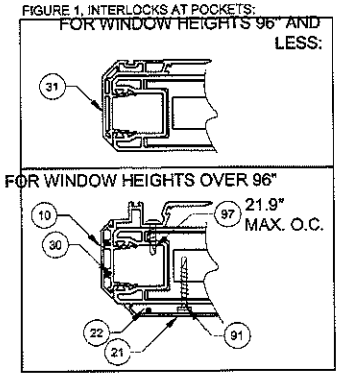
INTERIOR POCKET

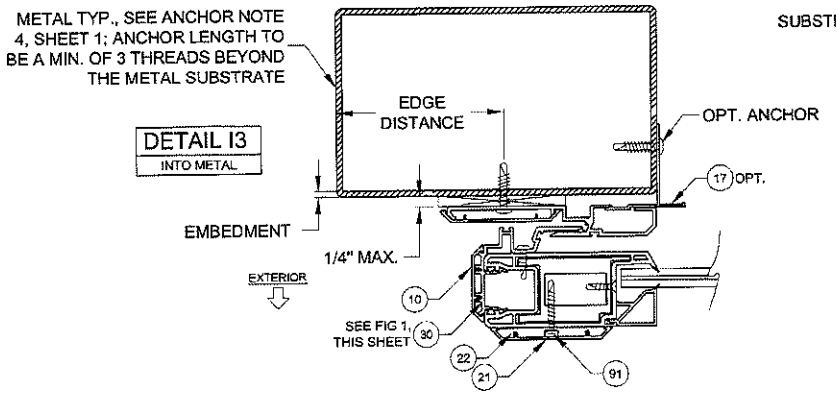
DETAIL I2
INTO MASONRY



EXTERIOR POCKET

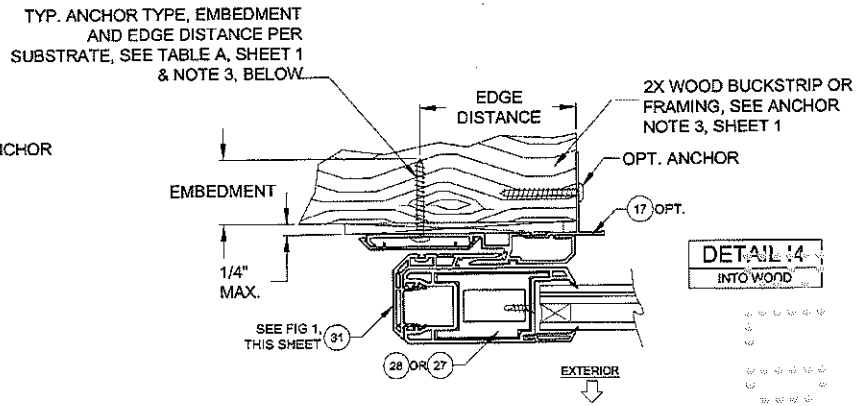
FIGURE 1, INTERLOCKS AT POCKETS:





DETAIL I3
INTO METAL

EXTERIOR POCKET



DETAIL I4
INTO WOOD

EXTERIOR POCKET

NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEET 13 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
4) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS.
5) INTERIOR OR EXTERIOR POCKETS APPLICABLE FOR ALL INSTALLATION METHODS.
6) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

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Title	ALUMINUM SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	P-HOOK EXAMPLES, HORIZ. X-SECT.	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Series	SGD-5570 WINDOW	Scale	NTS
Sheet	6 OF 21	DWG No.	MD-5570W.0
Rev. No.	A		

ANTHONY LYNN MILLER
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P.E.# 58705

TABLE 1:

Design Pressure (DP) and Anchor Quantities Required (for all approved configurations on Sheet 2)

Use this table for:
Glass Types 1, 1A, 3 or 3A
Astragal Reinforcement #29
Lockstile Reinforcement #25
HD Interlock Reinforcement #28

Nominal Panel Width			Door Unit Height																													
			30"				36"				48"				60"				72"				84"				96"			
			18-15/16" DLO Height				24-15/16" DLO Height				36-15/16" DLO Height				48-15/16" DLO Height				60-15/16" DLO Height				72-15/16" DLO Height				84-15/16" DLO Height			
			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24"	19-1/8" DLO Width	*Design Pressure*	*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
30"	25-1/8" DLO Width	*Design Pressure*	*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
36"	31-1/8" DLO Width	*Design Pressure*	*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
42"	37-1/8" DLO Width	*Design Pressure*	*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
48"	43-1/8" DLO Width	*Design Pressure*	*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C5+2	C3+1	C3+1	C3+1
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	6	5
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8

USED IN EXAMPLE ON SHEET 9

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

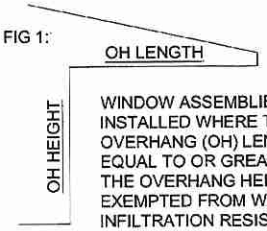
THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE B1, THIS SHEET.

OF ANCHORS THROUGH THE HEAD & SILL. (EX: FOR C3+1, 3 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS REQUIRED THROUGH THE P-HOOK, PERPENDICULAR TO THE GLASS.

FIG 1:



WINDOW ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT IS EXEMPTED FROM WATER INFILTRATION RESISTANCE.

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED,THE LESSER VALUES OF EITHER TABLE 1 AND TABLE B1 DETERMINES THE WATER LIMITED (+) DP.
2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED. IF SO, +DP'S SHOWN IN TABLE 1 MAY BE USED.
3) SEE SILL RISER TYPES ON SHEET 4.
4) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.
5) REFER TO ANCHOR NOTES, SHEET 1.
6) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING

TABLE B1:

Water-Limited (+) Design Pressure		
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed
None	1-11/16"	See Note 2
42	2-1/2"	+38.7 psf
43	3-1/2"	+60.0 psf
44	4-1/16"	+60.0 psf
45	4-5/8"	+60.0 psf

DLO WIDTH = NOM. PANEL WIDTH - 8-9/16"
DLO HEIGHT = DOOR HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

PRODUCT REVISED
Complying with the Florida Building Code
Compliance No. 17-0420.16
Expiration Date 8/14/21
Chief Daily Product Control

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CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS WINDOW NOA (LM)			Date	04/14/16
Desc.	DP & ANCHOR QUANTITY TABLE			Drawn by	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.			Rev Date	04/05/17
Rev				Rev Date	
Series	SGD-5570 WINDOW	Scale NTS	Sheet 7 OF 21	DWG No. MD-5570W.0	Rev. No. A

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 2:

Design Pressure (DP) and Anchor Quantities Required (for all approved configurations on Sheet 2)

Use this table for:
Glass Types 2 or 4
Astragal Reinforcement #29
Lockstile Reinforcement #25
HD Interlock Reinforcement #28

Nominal Panel Width	DLO Width		30" 18-15/16" DLO Height Anchor Group A	B	C	D	36" 24-15/16" DLO Height Anchor Group A	B	C	D	48" 36-15/16" DLO Height Anchor Group A	B	C	D
24"	19-1/8"	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4
30"	25-1/8"	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4
36"	31-1/8"	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4
42"	37-1/8"	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf			
		Head/Sill	C3+2	C3+1	C3+2	C3+1	C3+2	C3+1	C3+2	C3+1	C3+2	C3+2	C3+2	C3+1
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4
48"	43-1/8"	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf			
		Head/Sill	C3+2	C3+2	C3+2	C3+1	C3+2	C3+2	C3+2	C3+1	C3+2	C3+2	C3+2	C3+2
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4
54"	49-1/8"	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf			
		Head/Sill	C3+2	C3+2	C3+2	C3+2	C3+2	C3+2	C3+2	C3+2	C3+2	C3+2	C3+2	C3+2
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4
60"	55-1/8"	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf			
		Head/Sill	C3+2	C3+2	C3+2	C3+2	C3+2	C3+2	C3+2	C3+2	C3+3	C3+2	C3+2	C3+2
		Jamb	2	2	2	2	3	3	3	3	3	3	3	3
		P-hook	3	3	3	3	3	3	3	3	4	4	4	4

Nominal Panel Width	DLO Width		60" 48-15/16" DLO Height Anchor Group A	B	C	D	72" 60-15/16" DLO Height Anchor Group A	B	C	D	84" 72-15/16" DLO Height Anchor Group A	B	C	D	96" 84-15/16" DLO Height Anchor Group A	B	C	D
24"	19-1/8"	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf				+100 / -100 psf			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
		Jamb	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
		P-hook	5	5	5	5	6	6	6	6	7	7	7	7	8	8	9	9
30"	25-1/8"	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf				+100 / -100 psf			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C5+1	C3+1	C5+1	C3+1
		Jamb	4	4	4	4	4	4	5	4	5	5	6	5	5	5	7	5
		P-hook	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
36"	31-1/8"	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf				+100 / -100 psf			
		Head/Sill	C3+2	C3+1	C3+1	C3+1	C5+2	C3+1	C3+1	C3+1	C5+2	C3+1	C5+1	C3+1	C5+2	C5+1	C5+1	C3+1
		Jamb	4	4	4	4	4	4	5	4	5	5	6	5	5	5	7	5
		P-hook	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
42"	37-1/8"	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf				+100 / -100 psf			
		Head/Sill	C3+2	C3+2	C3+2	C3+1	C5+2	C3+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1
		Jamb	4	4	5	4	4	4	6	4	5	5	7	5	5	5	8	5
		P-hook	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
48"	43-1/8"	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf				+92.0 / -92.0 psf*			
		Head/Sill	C3+2	C3+2	C3+2	C3+2	C5+2	C3+2	C5+2	C3+2	C5+2	C5+2	C5+2	C3+2	C5+2	C5+2	C5+2	C5+2
		Jamb	4	4	5	4	4	4	6	4	5	5	8	5	5	5	9	5
		P-hook	5	5	5	5	6	6	6	6	7	7	8	8	8	8	9	9
54"	49-1/8"	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+80 / -80 psf			
		Head/Sill	C3+2	C3+2	C3+2	C3+2	C5+2	C3+2	C3+2	C3+2	C5+2	C3+2	C5+2	C3+2	C5+2	C5+2	C5+2	C3+2
		Jamb	4	4	4	4	4	4	5	4	5	5	7	5	5	5	8	5
		P-hook	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
60"	55-1/8"	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+80 / -80 psf			
		Head/Sill	C3+3	C3+2	C3+3	C3+2	C5+3	C3+2	C3+3	C3+2	C5+3	C3+2	C5+3	C3+2	C5+3	C5+2	C5+3	C3+2
		Jamb	4	4	4	4	4	4	5	4	5	5	7	5	5	5	8	5
		P-hook	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8

* +/-100.0 PSF FOR ANCHOR GROUPS B, C & D.

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

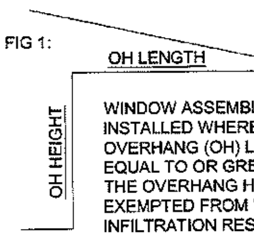
THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE B2, THIS SHEET.

OF ANCHORS THROUGH THE HEAD & SILL. (EX: FOR C3+1, 3 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS REQUIRED THROUGH THE P-HOOK, PERPENDICULAR TO THE GLASS.

FIG 1:



WINDOW ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT IS EXEMPTED FROM WATER INFILTRATION RESISTANCE.

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED,THE LESSER VALUES OF EITHER TABLE 2 AND TABLE B2 DETERMINES THE WATER LIMITED (+) DP.
2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED. IF SO, +DP'S SHOWN IN TABLE 2 MAY BE USED.
3) SEE SILL RISER TYPES ON SHEET 4.
4) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.
5) REFER TO ANCHOR NOTES, SHEET 1.
6) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING

TABLE B2:

Water-Limited (+) Design Pressure		
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed
None	1-11/16"	See Note 2
42	2-1/2"	+38.7 psf
43	3-1/2"	+80.0 psf
44	4-1/16"	+80.0 psf
45	4-5/8"	+100.0 psf

DLO WIDTH = NOM. PANEL WIDTH - 5-3/16"
DLO HEIGHT = DOOR HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 17-0420.16
Expiration Date 8/31/21
By [signature]
Miami Dade Product Control

ANTHONY LYNN MILLER ★ LICENSE No. 58705 ★ STATE OF FLORIDA PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

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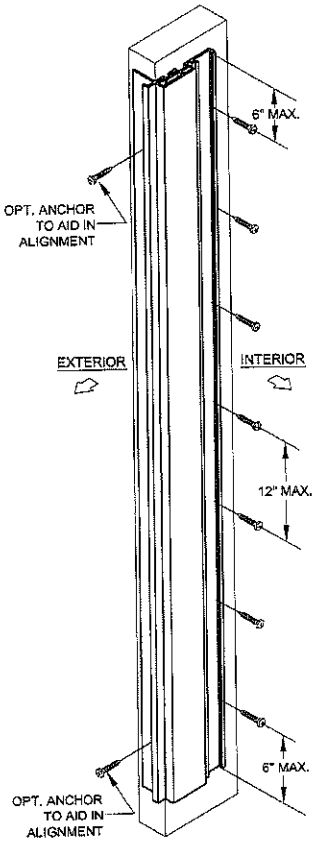
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	DP & ANCHOR QUANTITY TABLE	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	

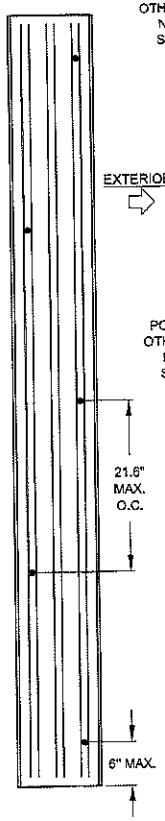
Series	Scale	Sheet	DWG No.	Rev. No.
SGD-5570 WINDOW	NTS	8 OF 21	MD-5570W.0	A

EXAMPLE:

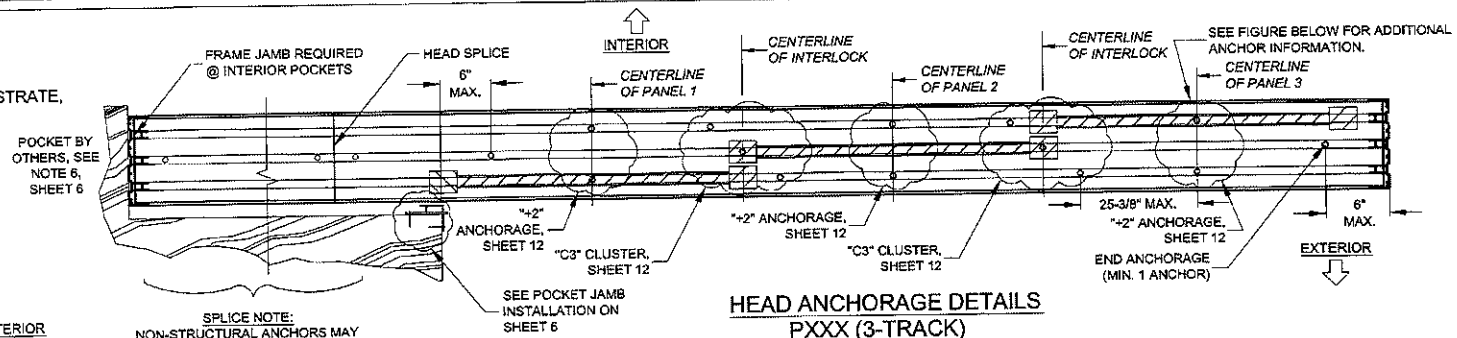
3-PANEL, 3 TRACK, STRAIGHT CONFIGURATION - PXXX, INTERIOR MOUNT POCKET, 48" X 84" NOM. PANELS, LAMINATED, IG GLAZING, ANCHOR GROUP A IN WOOD SUBSTRATE, PROJECT DESIGN PRESSURE REQUIRED: +48.2/-58.6 PSF



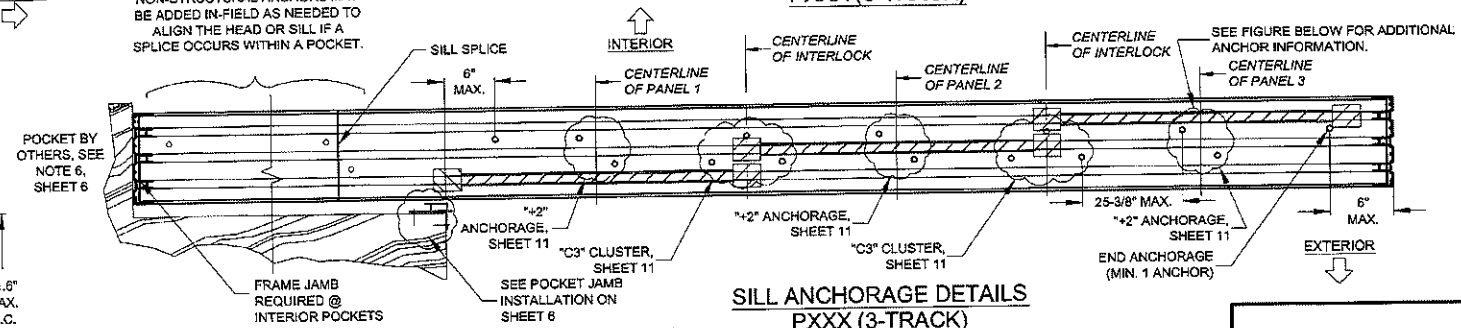
P-HOOK ANCHORAGE DETAILS



JAMB ANCHORAGE DETAILS



HEAD ANCHORAGE DETAILS
PXXX (3-TRACK)



SILL ANCHORAGE DETAILS
PXXX (3-TRACK)

1) KNOWING THE PRODUCT'S REQUIREMENTS, SCAN THROUGH TABLES 1 & 2 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +48.2/-58.6 AT A NOM. PANEL SIZE OF 48" X 84". FROM TABLE 1, SHEET 7, THE DESIGN PRESSURE IS +60/-60 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

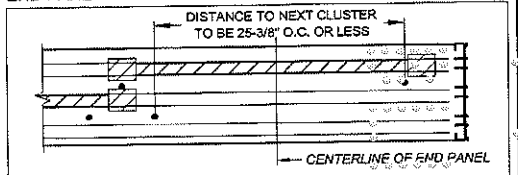
FOR WOOD INSTALLATION USING ANY ANCHOR IN GROUP A (SEE TABLE A), TABLE 1 SHOWS ANCHOR REQUIREMENTS OF:

Head/Sill	C3+2
Jamb	5
P-hook	7

2) ANCHOR LOCATION DETAILS, CAN BE FOUND ON:
HEAD (CLUSTER ANCHORS): SHEET 12 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK/ASTRAGAL.
HEAD (INTERMEDIATE ANCHORS): SHEET 12 FOR THE "+2 ANCHORS AT THE MIDSPAN OF EACH PANEL.
SILL (CLUSTER ANCHORS): SHEET 11 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK/ASTRAGAL.
SILL (INTERMEDIATE ANCHORS): SHEET 11 FOR THE "+2 ANCHORS AT THE MIDSPAN OF EACH PANEL.
JAMB: 5 ANCHORS, SHEET 13 FOR GEN. LAYOUT.
P-HOOK: 7 ANCHORS, SHEET 13 FOR GENERAL LAYOUT.

3) INSTALLATION DETAILS INTO WOOD CAN BE FOUND ON:
HEAD & SILL: SHEET 4
JAMB: SHEET 3
P-HOOK: SHEET 6

END PANEL ANCHOR EXCEPTION:



FOR SILL (SHOWN) AND HEAD, ANCHORS AT THE MIDPOINT OF END PANELS ARE ONLY REQUIRED IF THE O.C. DISTANCE TO THE NEXT ANCHOR CLUSTER IS OVER 25-3/8", OTHERWISE ANCHORS ARE NOT REQUIRED AS PER THE FIGURE ABOVE:

FOR PRODUCT REFERENCES, ALSO SEE:
A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS-SECTION DRAWINGS.
B) SHEET 10 FOR SPECIFIC GLAZING TYPES.
C) SHEET 17 FOR ALLOWABLE PANEL TYPES AND CALL NAMES.
D) SHEETS 4 & 18 FOR EXTRUSION CROSS-SECTION DRAWINGS.
E) SHEET 19 FOR INSTALLATION OF ADDITIONAL ACCESSORIES.
F) SHEET 21 FOR A BILL OF MATERIALS.

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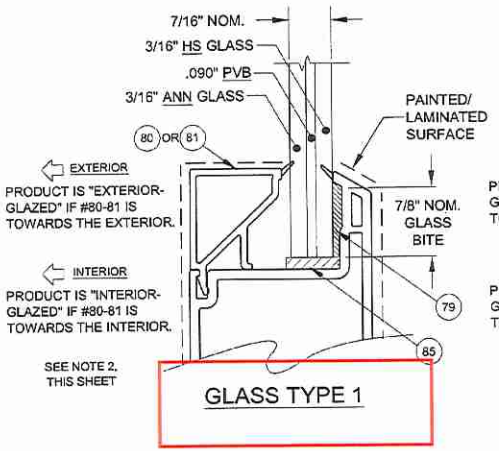
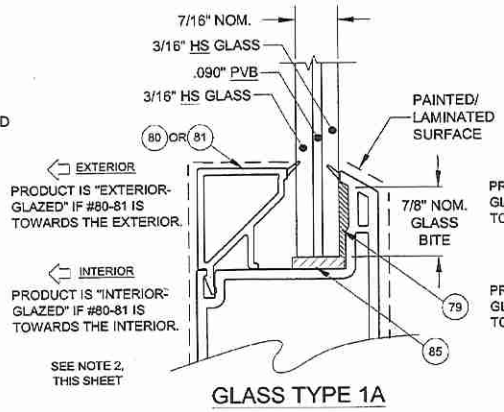
Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Descr.	STRAIGHT WINDOW EXAMPLE	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev. Date	04/05/17
Rev		Rev. Date	
Series	SGD-5570 WINDOW	Scale	NTS
Sheet	9 OF 21	DWG No.	MD-5570W.0
Rev. No.	A		

PRODUCT REVISED
Complying with the Florida Building Code
Acceptance No. 17-0426.06
Expiration Date 8/4/23
Product Control

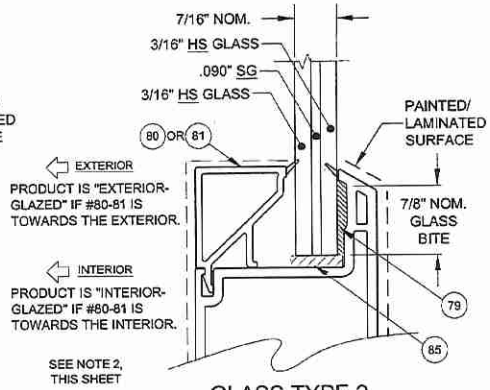
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



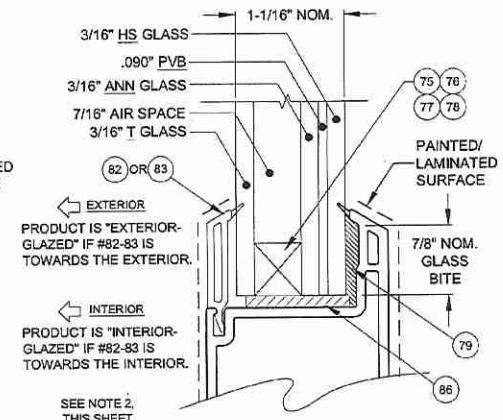
GLASS TYPE 1



GLASS TYPE 1A

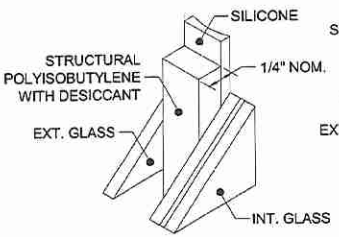


GLASS TYPE 2

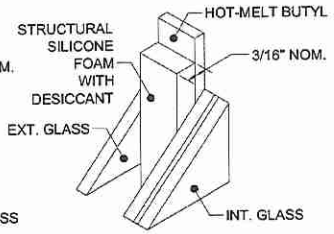


GLASS TYPE 3

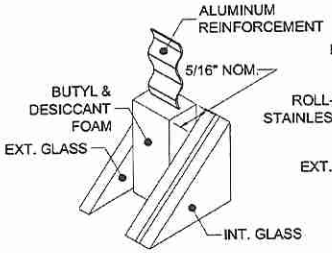
"ANN" = ANNEALED
"HS" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.



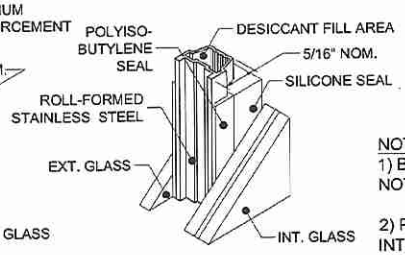
75 KODISPACE 4SG TPS



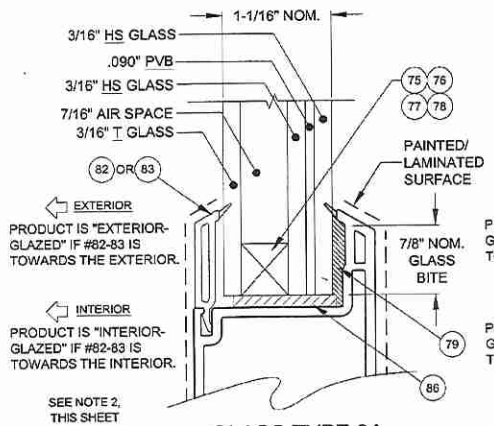
76 SUPER SPACER® NXT™



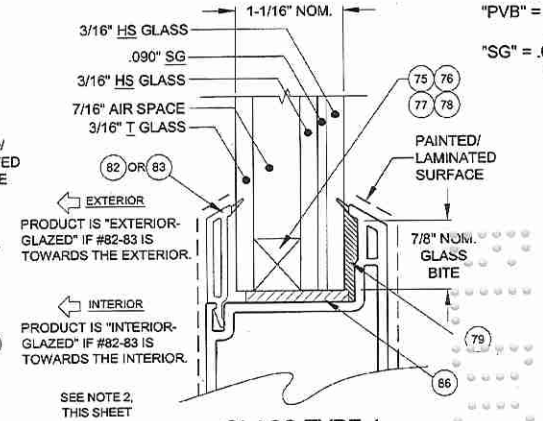
77 DURASEAL® SPACER



78 XL EDGE™ SPACER



GLASS TYPE 3A



GLASS TYPE 4

NOTES:
1) BACKBEDDING SURFACES SHALL NOT BE PAINTED OR LAMINATED.

2) PRODUCT MAY BE EITHER INTERIOR OR EXTERIOR GLAZED, PROVIDED THAT THE "HS" SURFACE OF A LAMINATED GLAZING UNIT IS ADHERED TO THE GLAZING LEG.

PRODUCT REVISED
Complying with the Florida Building Code
Acceptance No. 17-0420.16
Expiration Date 3/4/21
Chief Dade Product Control

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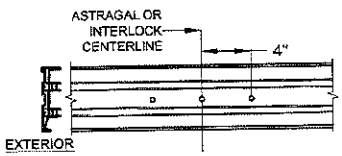
(941)-480-1600
CERT. OF AUTH. #25296

Title	VINYL SLIDING GLASS WINDOW NOA (LM)			Date	04/14/16
Desc.	GLAZING DETAILS		Drawn By	J ROSOWSKI	
Rev	NO CHANGES THIS SHEET.		Rev Date	04/05/17	
Rev			Rev Date		
Series	SGD-5570 WINDOW	Scale NTS	Sheet 10 OF 21	DWG No. MD-5570W.0	Rev. No. A

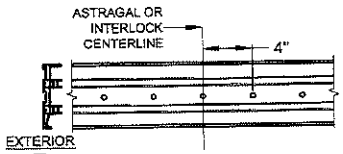
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17

A. LYNN MILLER, P.E.
P.E.# 58705

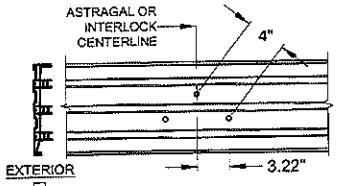
SILL CLUSTER ANCHORS LAYOUT:



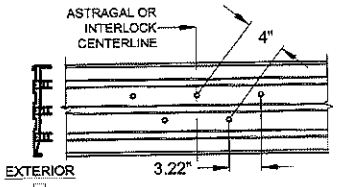
2-TRACK CLUSTER "C3" ANCHOR LOCATIONS



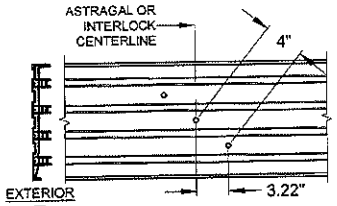
2-TRACK CLUSTER "C5" ANCHOR LOCATIONS



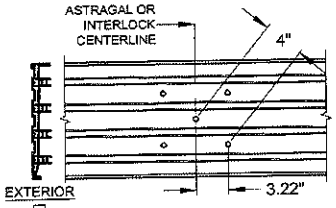
3-TRACK CLUSTER "C3" ANCHOR LOCATIONS



3-TRACK CLUSTER "C5" ANCHOR LOCATIONS



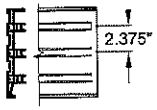
4-TRACK CLUSTER "C3" ANCHOR LOCATIONS



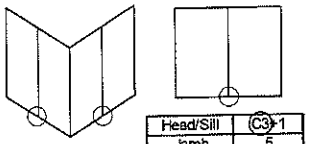
4-TRACK CLUSTER "C5" ANCHOR LOCATIONS

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:

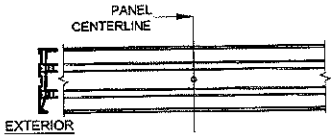


FIGURES PERTAIN TO THE FOLLOWING SILL CLUSTER ANCHOR LOCATIONS:

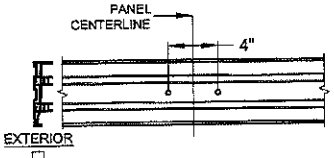


Head/Sill	C3-1
Jamb	5
P-hook	7

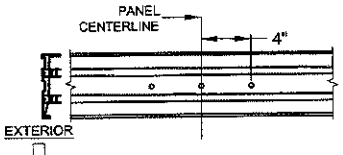
SILL "+" INTERMEDIATE ANCHORS LAYOUT:



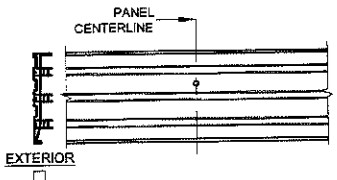
2-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



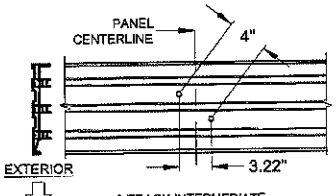
2-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



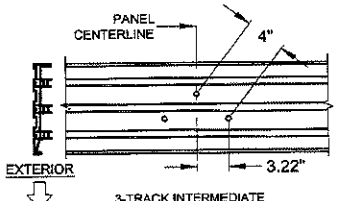
2-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS



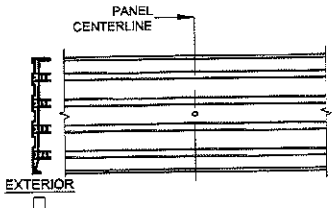
3-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



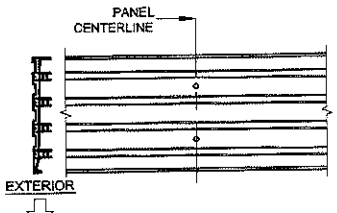
3-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



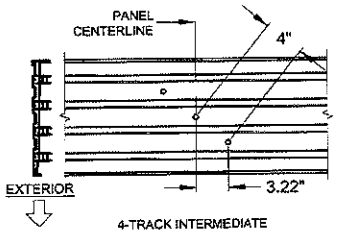
3-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS



4-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



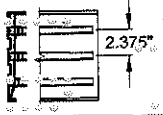
4-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



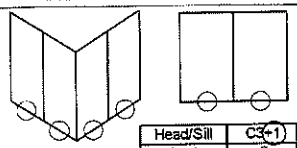
4-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:



FIGURES PERTAIN TO THE FOLLOWING SILL INTERMEDIATE ANCHOR LOCATIONS:



Head/Sill	C3-1
Jamb	5
P-hook	7

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CERT. OF AUTH. #29296

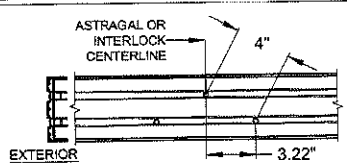
Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	ANCHOR LOCATIONS A	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Sw/we	SGD-5570 WINDOW	Scale NTS	Sheet 11 OF 21
DWG No.	MD-5570W.0	Rev. No.	A

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 17-0420.16
Expiration Date 8/4/21
Miami-Dade Product Control

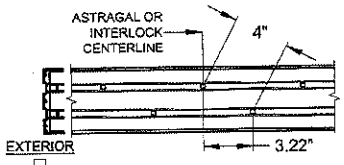
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

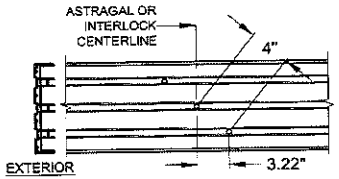
HEAD CLUSTER ANCHORS LAYOUT:



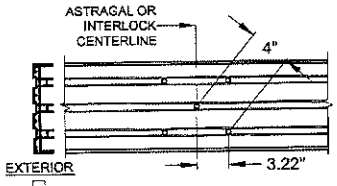
2-TRACK CLUSTER "C3" ANCHOR LOCATIONS



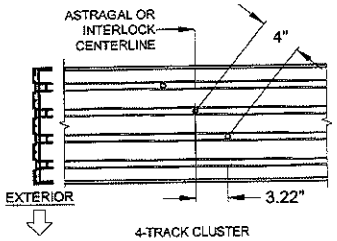
2-TRACK CLUSTER "C5" ANCHOR LOCATIONS



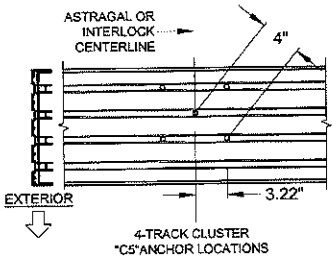
3-TRACK CLUSTER "C3" ANCHOR LOCATIONS



3-TRACK CLUSTER "C5" ANCHOR LOCATIONS



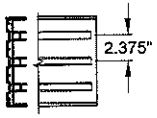
4-TRACK CLUSTER "C3"ANCHOR LOCATIONS



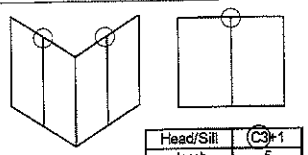
4-TRACK CLUSTER "C5"ANCHOR LOCATIONS

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:

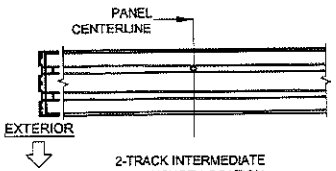


FIGURES PERTAIN TO THE FOLLOWING HEAD CLUSTER ANCHOR LOCATIONS:

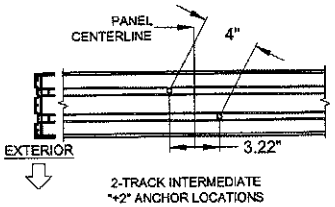


Head/Sill	C3+1
Jamb	5
P-hook	7

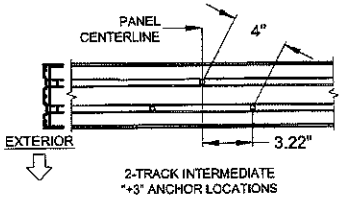
HEAD "+" INTERMEDIATE ANCHORS LAYOUT:



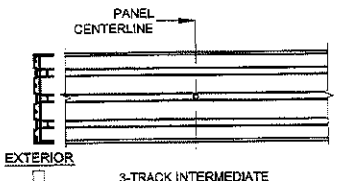
2-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



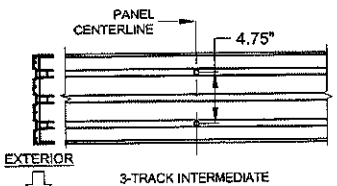
2-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



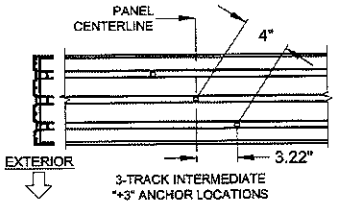
2-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS



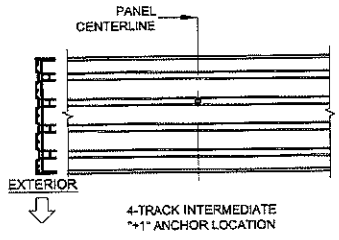
3-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



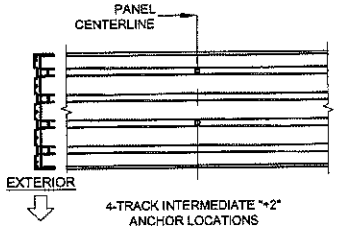
3-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



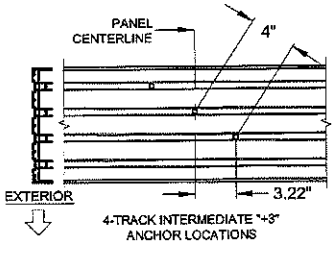
3-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS



4-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



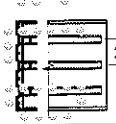
4-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



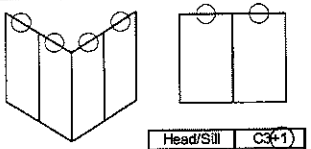
4-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:



FIGURES PERTAIN TO THE FOLLOWING HEAD INTERMEDIATE ANCHOR LOCATIONS:



Head/Sill	C3+1
Jamb	5
P-hook	7

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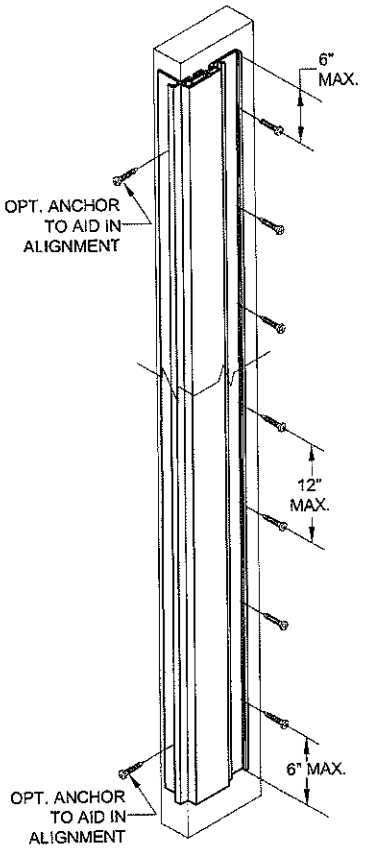
Title	VINYL SLIDING GLASS WINDOW NOA (LM)			Date	04/14/16
Desc.	ANCHOR LOCATIONS B			Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.			Rev Date	04/05/17
Rev				Rev Date	
Series	SGD-5570 WINDOW	Scale NTS	Sheet 12 OF 21	DWG No. MD-5570W.0	Rev. No. A

PRODUCT REVISED
is complying with the Florida Building Code
Acceptance No. 17-0428.06
Expiration Date 8/4/21
Mitsui Single Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17

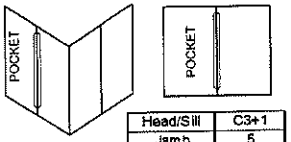
A. LYNN MILLER, P.E.
P.E.# 58705

P-HOOK ANCHORS LAYOUT:



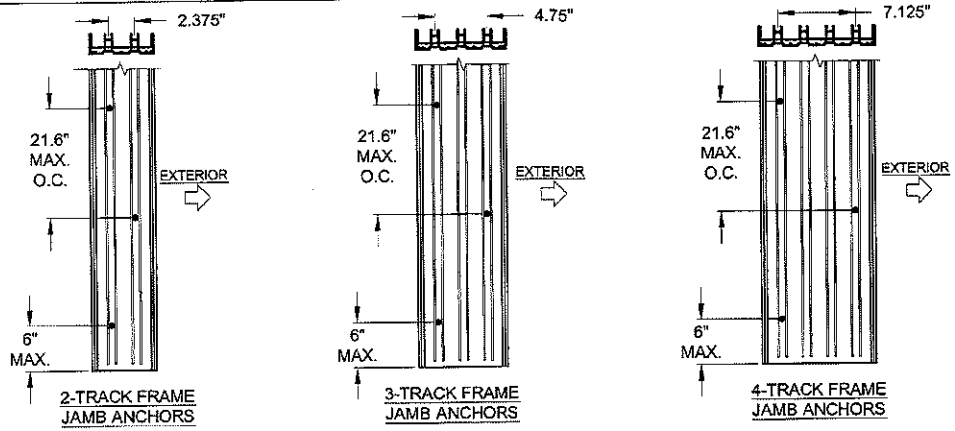
NOTES:
1) SEE TABLES 1 & 2 FOR EXACT QUANTITY OF ANCHORS REQUIRED IN THE P-HOOK.

FIGURES PERTAIN TO THE FOLLOWING POCKET JAMB (P-HOOK) ANCHOR LOCATIONS:

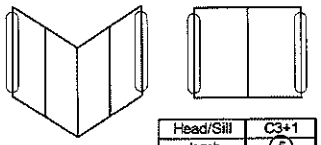


Head/Sill	C3+1
Jamb	5
P-hook	(7)

JAMB ANCHORS LAYOUT, (PARTIAL VIEW):

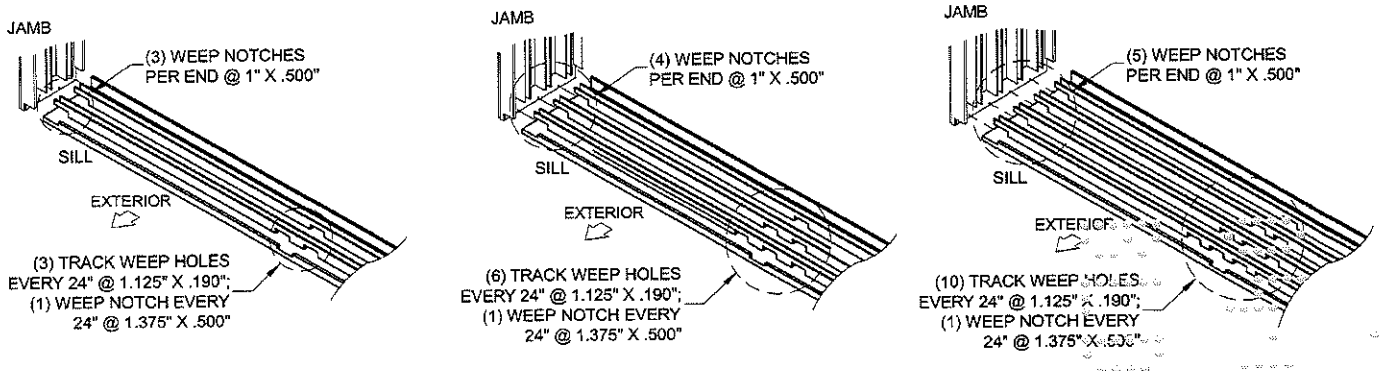


FIGURES PERTAIN TO THE FOLLOWING JAMB ANCHOR LOCATIONS:



Head/Sill	C3+1
Jamb	(5)
P-hook	7

NOTES:
1) STANDARD ANCHOR LOCATIONS SHOWN. FOR 3 AND 4-TRACK JAMBS, ANCHORS MAY BE LOCATED IN ANY ADJACENT TRACK (SIMILAR TO THE 2-TRACK JAMB) AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS. IN CASE OF AN ODD NUMBER OF ANCHORS, THE MAJORITY MAY BE TOWARD THE INTERIOR OR EXTERIOR.



SILL WEEPHOLE LAYOUT (2, 3 & 4 TRACKS)

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CERT. OF AUTH. #28296

Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	ANCHOR LOCATIONS C	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	

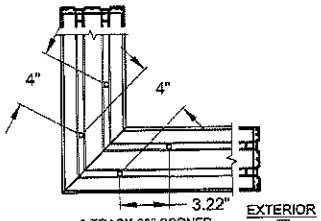
Sim/Mat	SGD-5570 WINDOW	Scale	NTS	Sheet	13 OF 21	DWG No.	MD-5570W.0	Rev. No.	A

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-0420.16
Expiration Date 9/14/21
By [signature]
Miami Dade Product Control

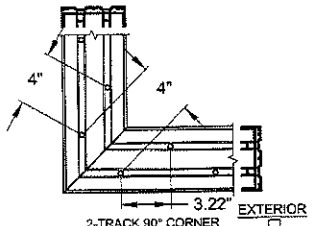
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17

A. LYNN MILLER, P.E.
P.E.# 58705

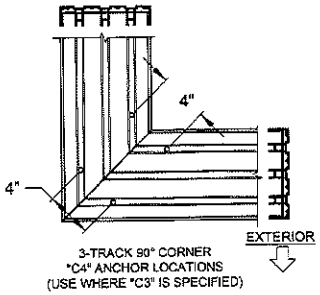
HEAD 90° CORNER CLUSTER ANCHORS LAYOUT:



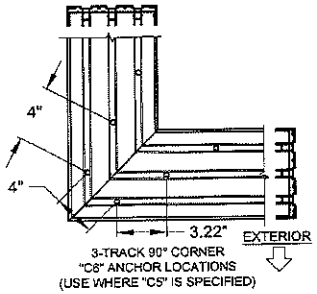
2-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



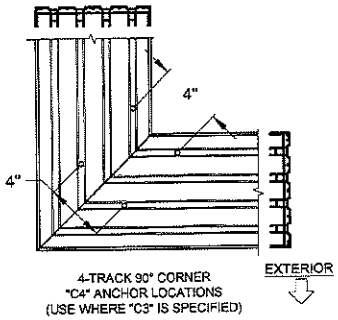
2-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



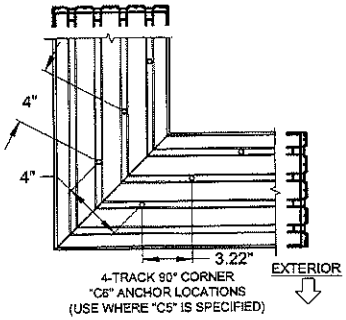
3-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

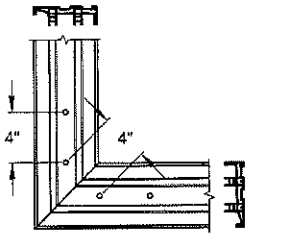


4-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)

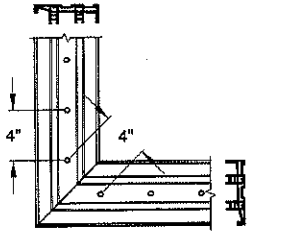


4-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

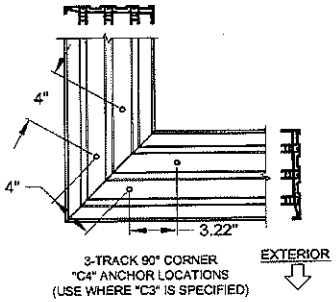
SILL 90° CORNER CLUSTER ANCHORS LAYOUT:



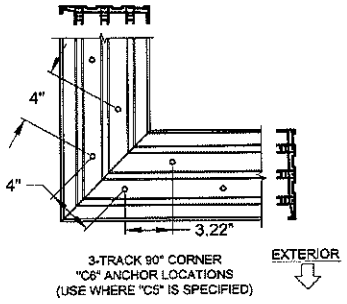
2-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



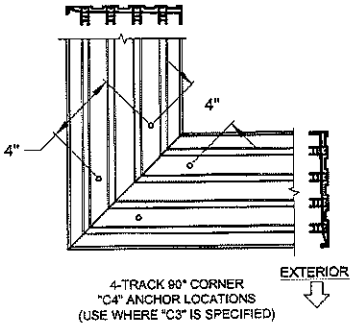
2-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



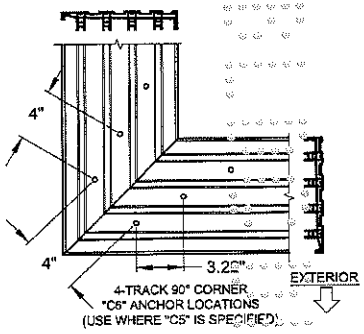
3-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

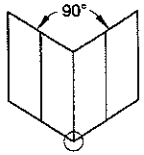


4-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



4-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

FIGURES PERTAIN TO THE FOLLOWING 90° CORNER SILL ANCHOR LOCATIONS:

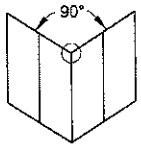


Head/Sill	C3+1
Jamb	5
P-hook	7

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 17-0420.16
Expiration Date 8/14/21
Director Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
4/18/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

FIGURES PERTAIN TO THE FOLLOWING 90° CORNER HEAD ANCHOR LOCATIONS:

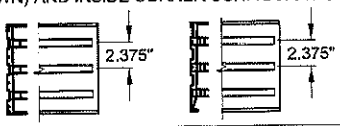


Head/Sill	C3+1
Jamb	5
P-hook	7

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.

3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:



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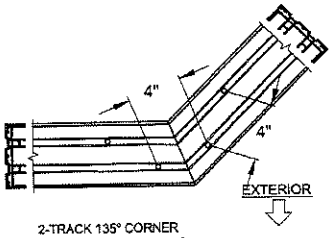
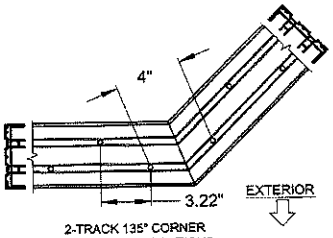
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS WINDOW NOA (LM)			Date	04/14/16
Desc.	ANCHOR LOCATIONS D		Drawn By	J ROSOWSKI	
Rev	NO CHANGES THIS SHEET.		Rev Date	04/05/17	
Rev			Rev Date		
Series	SGD-5570 WINDOW	Scale NTS	Sheet 14 OF 21	DWG No. MD-5570W.0	Rev. No. A

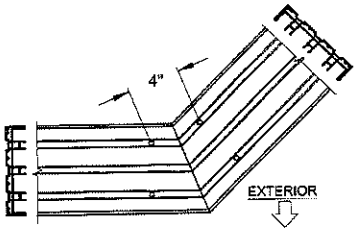
HEAD 135° CORNER CLUSTER ANCHORS LAYOUT:



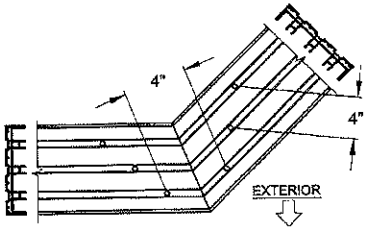
2-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



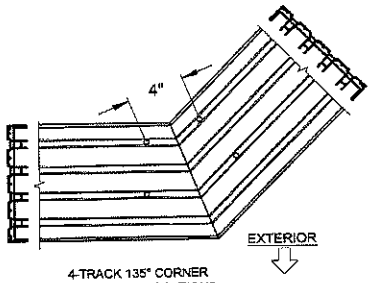
2-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



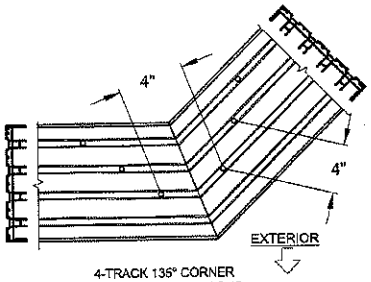
3-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

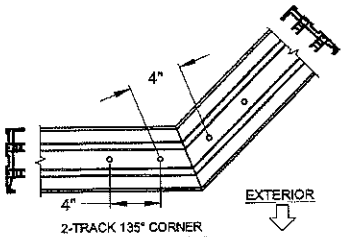


4-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)

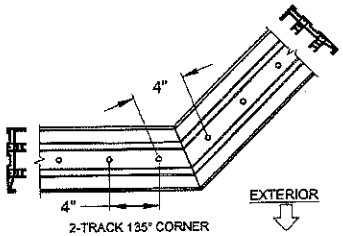


4-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

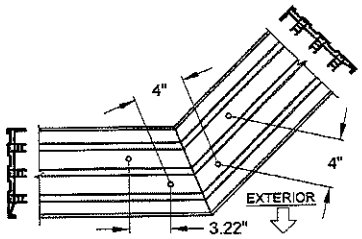
SILL 135° CORNER CLUSTER ANCHORS LAYOUT:



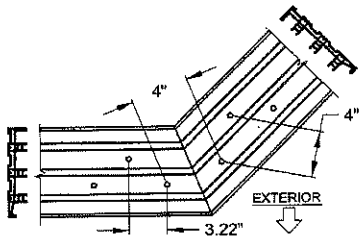
2-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



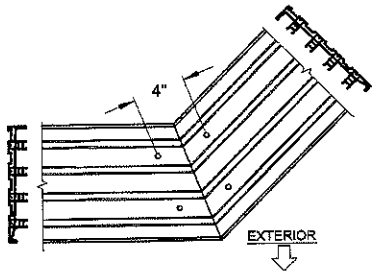
2-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



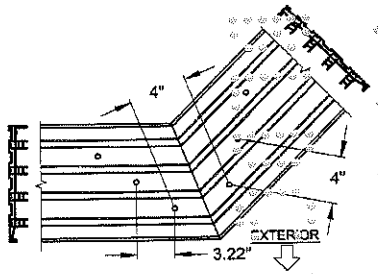
3-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

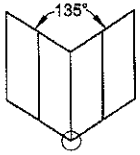


4-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



4-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

FIGURES PERTAIN TO THE FOLLOWING 135° CORNER SILL ANCHOR LOCATIONS:

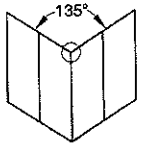


Head/Sill	C3+1
Jamb	5
P-hook	7

PRODUCT REVISED
as complying with the Florida building Code
Acceptance No. 17-0420.16
Expiration Date 8/4/21
Director Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/27/18/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

FIGURES PERTAIN TO THE FOLLOWING 135° CORNER HEAD ANCHOR LOCATIONS:

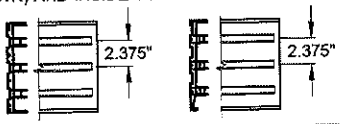


Head/Sill	C3+1
Jamb	5
P-hook	7

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.

3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:



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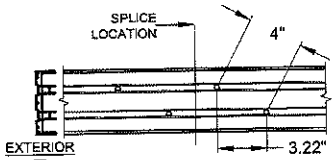
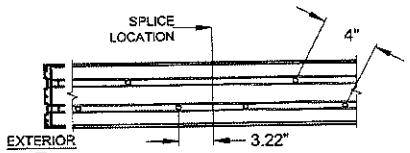
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS WINDOW NOA (LM)			Date	04/14/16
Desc.	ANCHOR LOCATIONS E		Drawn By	J ROSOWSKI	
Rev	NO CHANGES THIS SHEET.			Rev Date	04/05/17
Rev				Rev Date	
Series	SGD-5570 WINDOW	Scale NTS	Sheet 15 OF 21	DWG No. MD-5570W.0	Rev. No. A

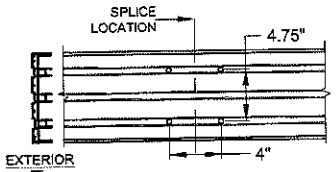
HEAD SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL:



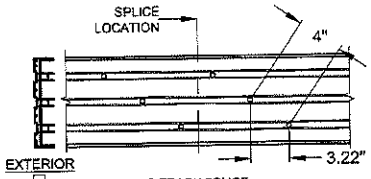
2-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



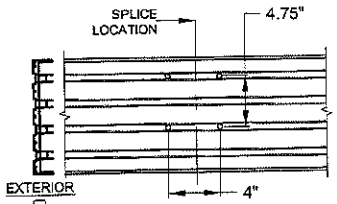
2-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



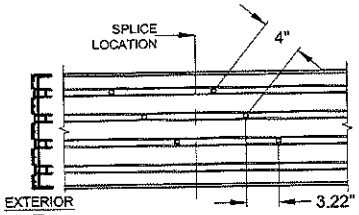
3-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

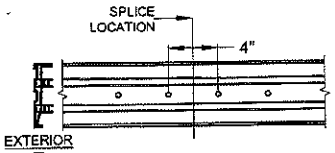


4-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)

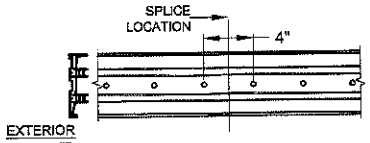


4-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

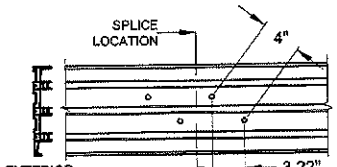
SILL SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL:



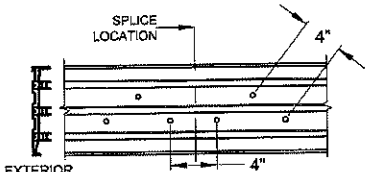
2-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



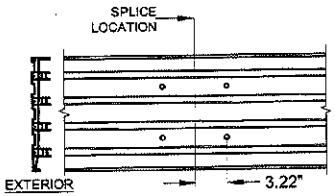
2-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



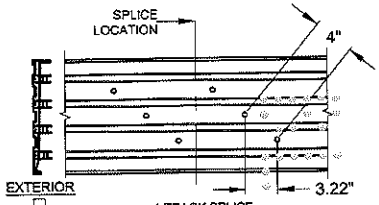
3-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

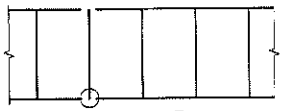


4-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



4-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

FIGURES PERTAIN TO THE FOLLOWING SPLICED SILL ANCHOR LOCATIONS:



Head/Sill	(C3)+1
Jamb	5
P-hook	7

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-0420.16
Expiration Date 8/14/21
Mitsuo Dada, Product Control

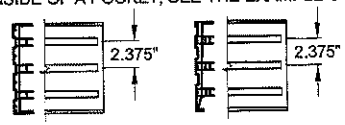
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17

A. LYNN MILLER, P.E.
P.E.# 58705

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

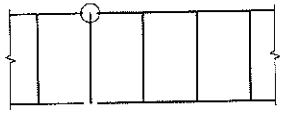
2) ABOVE FIGURES ARE FOR SPLICES OCCURRING AT THE ASTRAGAL OR INTERLOCK. FOR SPLICES OCCURRING INSIDE OF A POCKET, SEE THE EXAMPLE ON SHEET 9.

3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:



4) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

FIGURES PERTAIN TO THE FOLLOWING SPLICED HEAD ANCHOR LOCATIONS:



Head/Sill	(C3)+1
Jamb	5
P-hook	7

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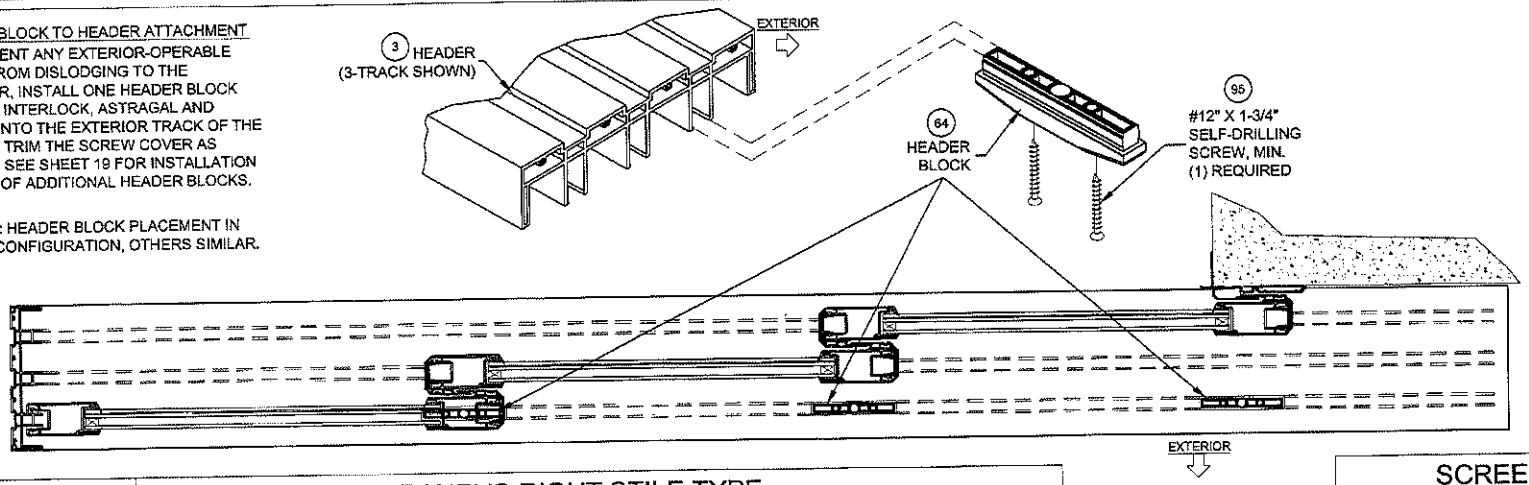
Title	VINYL SLIDING GLASS WINDOW NOA (LM)			Date	04/14/16
Desc.	ANCHOR LOCATIONS F		Drawn By	J ROSOWSKI	
Rev	NO CHANGES THIS SHEET.		Rev Dwg	04/05/17	
Rev			Rev Date		
Series	SGD-5570 WINDOW	Scale NTS	Sheet 16 OF 21	DWG No. MD-5570W.0	Rev. No. A

HEADER BLOCK TO HEADER ATTACHMENT

TO PREVENT ANY EXTERIOR-OPERABLE PANEL FROM DISLODGING TO THE EXTERIOR, INSTALL ONE HEADER BLOCK AT EACH INTERLOCK, ASTRAGAL AND P-HOOK INTO THE EXTERIOR TRACK OF THE HEADER. TRIM THE SCREW COVER AS NEEDED. SEE SHEET 19 FOR INSTALLATION DETAILS OF ADDITIONAL HEADER BLOCKS.

EXAMPLE: HEADER BLOCK PLACEMENT IN 3-PANEL CONFIGURATION, OTHERS SIMILAR.



PANEL NOTES:

1) SEE DP/ANCHOR TABLES 1 & 2, SHEETS 7-8 FOR PANEL SIZES & DESIGN PRESSURE.

2) PANEL TYPES NOT SHOWN ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.

3) MAXIMUM NOMINAL PANEL WIDTH FOR ALL PANEL CONFIGURATIONS IS 60".

4) PANEL TYPE MAY BE EITHER EXTERIOR (STANDARD) OR INTERIOR GLAZED, BOTH TYPES QUALIFIED BY THIS APPROVAL, SEE DETAILS SHEET 10.

PANEL TYPES INTERIOR OR EXTERIOR GLAZED	PANEL'S RIGHT STILE TYPE: SINGLE INTERLOCK OUT	SINGLE INTERLOCK IN	FIXED STILE	LOCKSTILE W/ HANDLE	ASTRAGAL BOX OUT	ASTRAGAL BOX IN	OUTSIDE 90° ASTRAGAL RECEIVER	INSIDE 90° ASTRAGAL RECEIVER	OUTSIDE 135° ASTRAGAL RECEIVER	INSIDE 135° ASTRAGAL RECEIVER
PANEL'S LEFT STILE TYPE: SINGLE INTERLOCK OUT	E	F	PP	K	L (BOX OUT)	L (BOX IN)	TC	TA	TV	TW
SINGLE INTERLOCK IN	B	H	P	A	C (BOX OUT)	C (BOX IN)	SC	SA	SV	SW
FIXED STILE	RR	R			S (BOX OUT)	S (BOX IN)	FC	FD	FV	FW
LOCKSTILE W/ HANDLE	D	M			J (BOX OUT)	J (BOX IN)				
ASTRAGAL BOX OUT	LR (BOX OUT)		T (BOX OUT)	U (BOX OUT)						
ASTRAGAL BOX IN		N (BOX IN)	T (BOX IN)	U (BOX IN)						
OUT. 90° ASTRAGAL RECEIVER	CT	CS	CF							
IN. 90° ASTRAGAL RECEIVER	AT	AS	DF							
OUT. 135° ASTRAGAL RECEIVER	VT	VS	VF							
IN. 135° ASTRAGAL RECEIVER	WT	WS	WF							

LEFT PANEL STILE — PANEL TYPE "F" SHOWN. — RIGHT PANEL STILE

SCREEN PANEL TYPES			
C	DOUBLE INTERLOCK		ASTRAGAL
M	LOCKSTILE		DOUBLE INTERLOCK
J	LOCKSTILE		ASTRAGAL
SD	SINGLE INTERLOCK		DOUBLE INTERLOCK
A	DOUBLE INTERLOCK		LOCKSTILE
U	ASTRAGAL		LOCKSTILE
DS	DOUBLE INTERLOCK		SINGLE INTERLOCK

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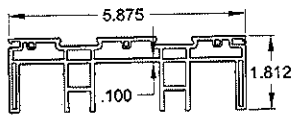
Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Dwg.	PANEL TYPES & HEADER BLOCK	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Series	SGD-5570 WINDOW	Scale	NTS
Sheet	17 OF 21	DWG No.	MD-5570W.0
Rev. No.	A		

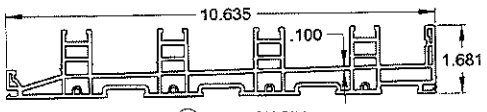
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-0420.16
Expiration Date 8-14-21
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17

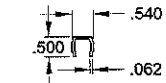
A. LYNN MILLER, P.E.
P.E.# 58705



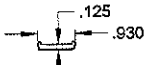
1 2 TRACK HEAD/JAMB



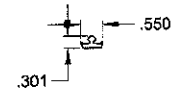
6 4 TRACK SILL



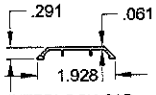
7 FRAME SCREW COVER (PVC)



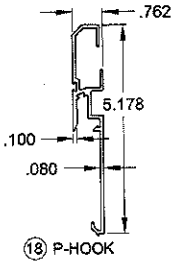
8 ANCHOR PLATE



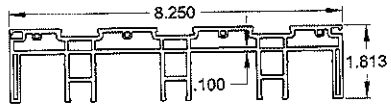
9 TRACK INSERT



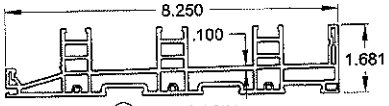
10 INTERLOCK CAP, EXTENDED POCKET



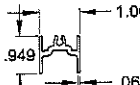
18 P-HOOK



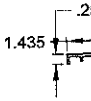
3 3 TRACK HEAD/JAMB



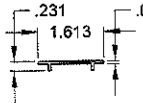
4 3 TRACK SILL



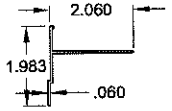
11 BOTTOM RAIL SUPPORT



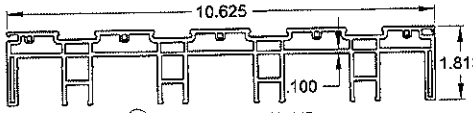
12 OUTER SILL COVER



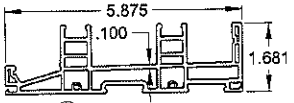
13 SILL TRACK COVER



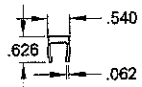
17 P-HOOK ADAPTOR



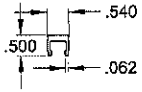
5 4 TRACK HEAD/JAMB



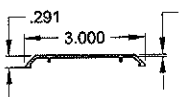
2 2 TRACK SILL



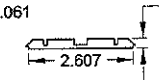
19 EXTENDED KEEPER



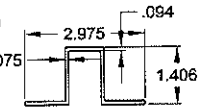
20 KEEPER



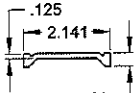
21 REINFORCEMENT BAR COVER



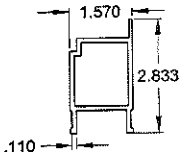
22 REINFORCEMENT BAR



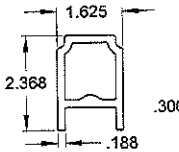
23 FIXED PANEL CLIP



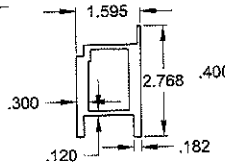
24 REINFORCEMENT PLATE



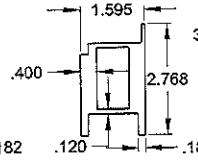
25 TOP, BOTTOM AND STILE REINFORCEMENT



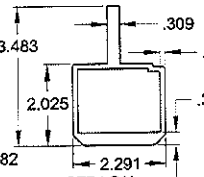
26 TOP, BOTTOM AND STILE COMPOSITE REINFORCEMENT



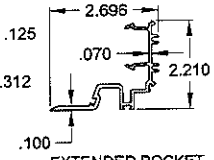
27 INTERLOCK .300 REINFORCEMENT, STANDARD



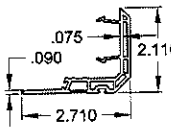
28 INTERLOCK .400 REINFORCEMENT, HEAVY-DUTY



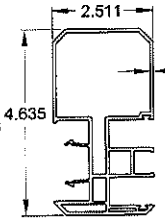
29 ASTRAGAL REINFORCEMENT



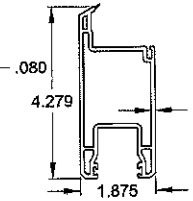
30 EXTENDED POCKET INTERLOCK ADAPTER



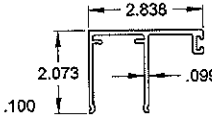
31 INTERLOCK ADAPTER



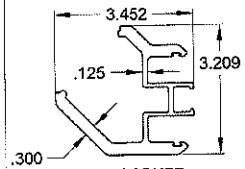
32 ASTRAGAL ADD-ON



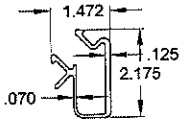
33 PANEL STILE, TOP AND BOTTOM RAIL



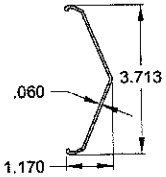
34 INTERIOR JAMB COVER



35 135° CORNER ASTRAGAL

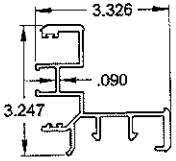


36 135° CORNER PASSIVE MOUNT

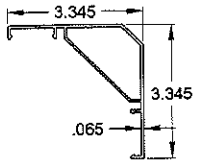


37 135° CORNER ASTRAGAL CAP, EXTERIOR

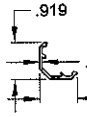
38 135° CORNER ASTRAGAL CAP, INTERIOR



39 90° CORNER ASTRAGAL



40 90° CORNER ASTRAGAL CAP, EXTERIOR



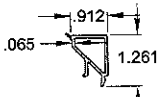
41 90° CORNER ASTRAGAL CAP, INTERIOR

NOTES:

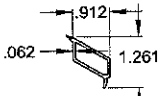
1) SEE SHEET 4 FOR SILL RISERS.

2) SEE SHEET 20 FOR SCREEN PARTS.

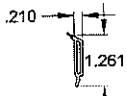
3) ALL DIMENSIONS IN INCHES.



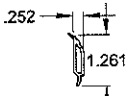
80 7/16" SQUARE BEAD



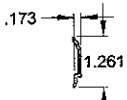
81 7/16" BEVELED BEAD



82 1-1/16" BEVELED BEAD



83 1-1/16" OGEE BEAD



84 1-3/16" OGEE BEAD

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(941)-480-1600
CERT. OF AUTH. #29296

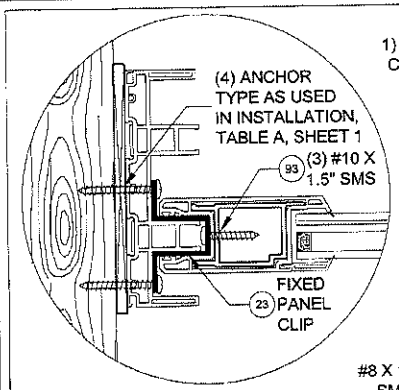
Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	EXTRUSIONS	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	

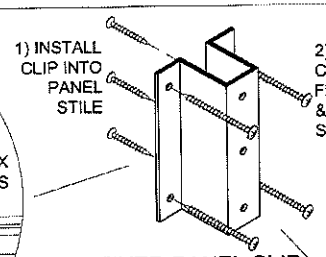
Series	SGD-5570 WINDOW	Scale	NTS	Sheet	18 OF 21	DWG No.	MD-5570W.0	Rev. No.	A

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0420.16
Expiration Date 8/4/21
Manager Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17

A. LYNN MILLER, P.E.
P.E.# 58705



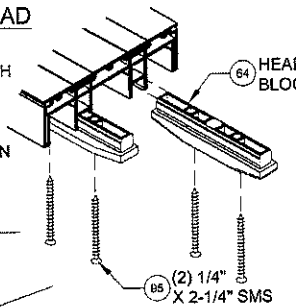


FIXED PANEL CLIP

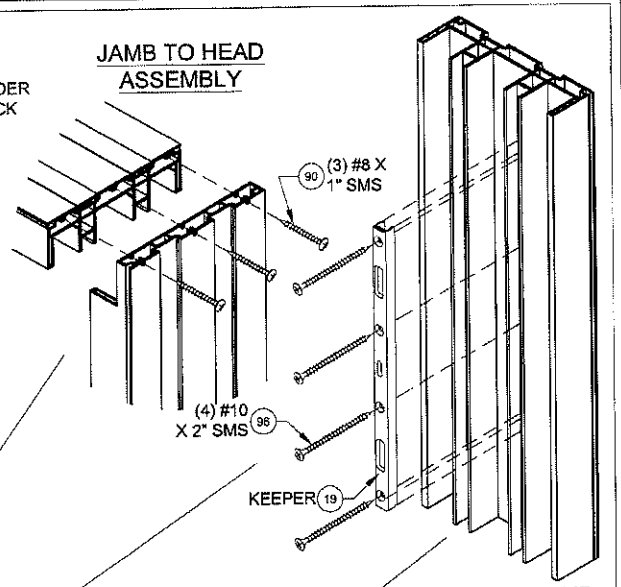
INSTALL ONE CLIP AT THE MIDSPAN OF EACH FIXED PANEL-TO-FRAME JAMB LOCATION.

HEADER BLOCK TO HEAD ATTACHMENT

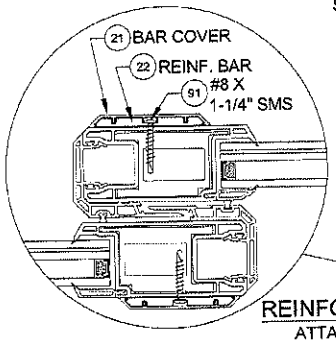
INSTALL ONE BLOCK AT EACH INTERLOCK. AT ASTRAGAL, INSTALL ONE BLOCK THAT SPANS BOTH PANELS. SEE SHEET 17 FOR INSTALLATION DETAILS OF ADDITIONAL HEADER BLOCKS.



JAMB TO HEAD ASSEMBLY

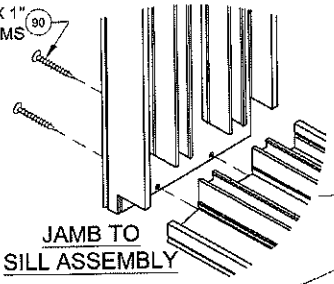


KEEPER TO JAMB ATTACHMENT

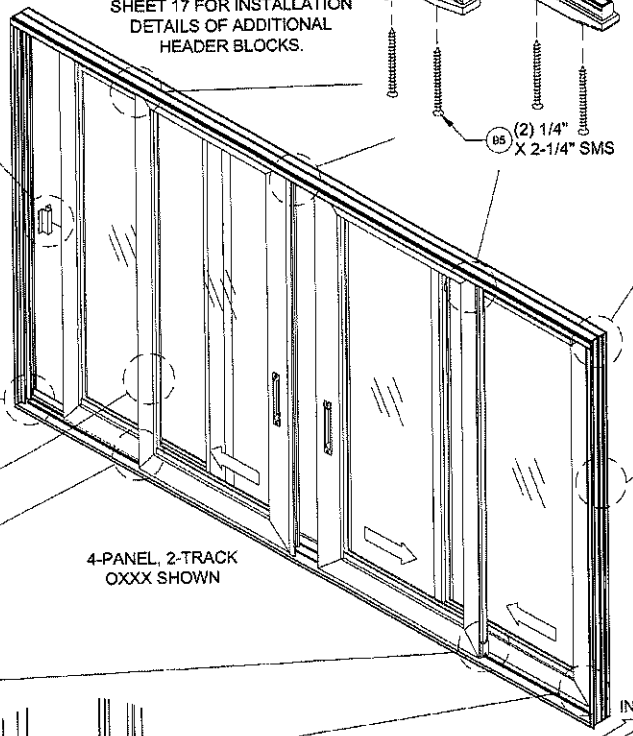


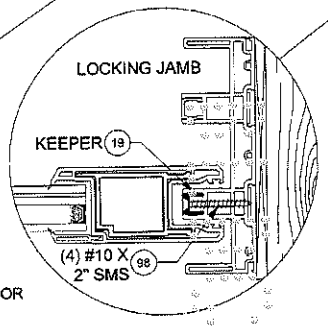
REINFORCEMENT PLATE

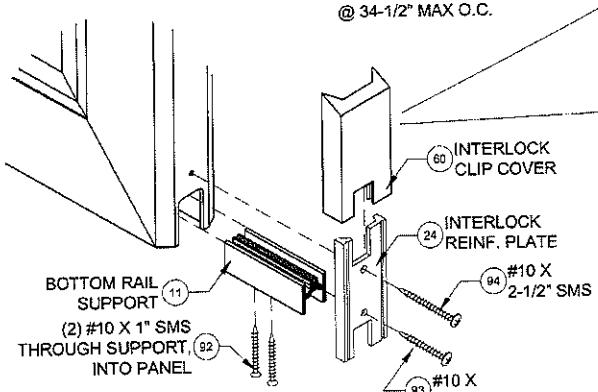
ATTACH WITH #8 X 1-1/4" @ 34-1/2" MAX O.C.



JAMB TO SILL ASSEMBLY

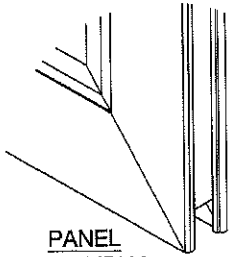






INTERLOCK SILL RETAINER CLIP ATTACHMENT

INSTALL ONE ASSEMBLY AT EACH INTERLOCK



PANEL ASSEMBLY

ALL PANEL CORNERS WELDED, NO ASSEMBLY FASTENERS

NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING.
3) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.

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1070 TECHNOLOGY DR
N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	ACCESSORIES INSTALLATION	Drawn By	J ROSOWSKI
Rev	CORRECTED #96	Rev Date	04/05/17
Rev		Rev Date	

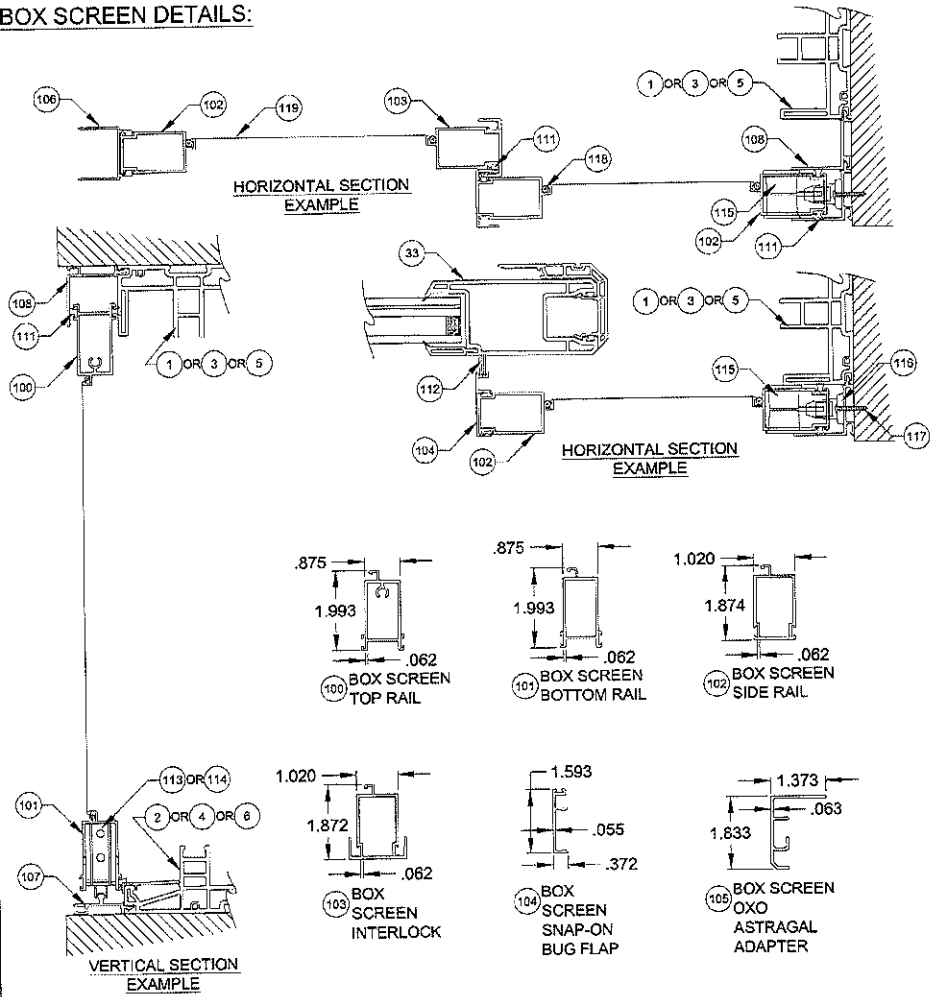
Series	SGD-5570 WINDOW	Scale	NTS	Sheet	19 OF 21	DWG No.	MD-5570W.0	Rev. No.	A

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-0420.16
Expiration Date 8/14/21
Miami-Dade Product Control

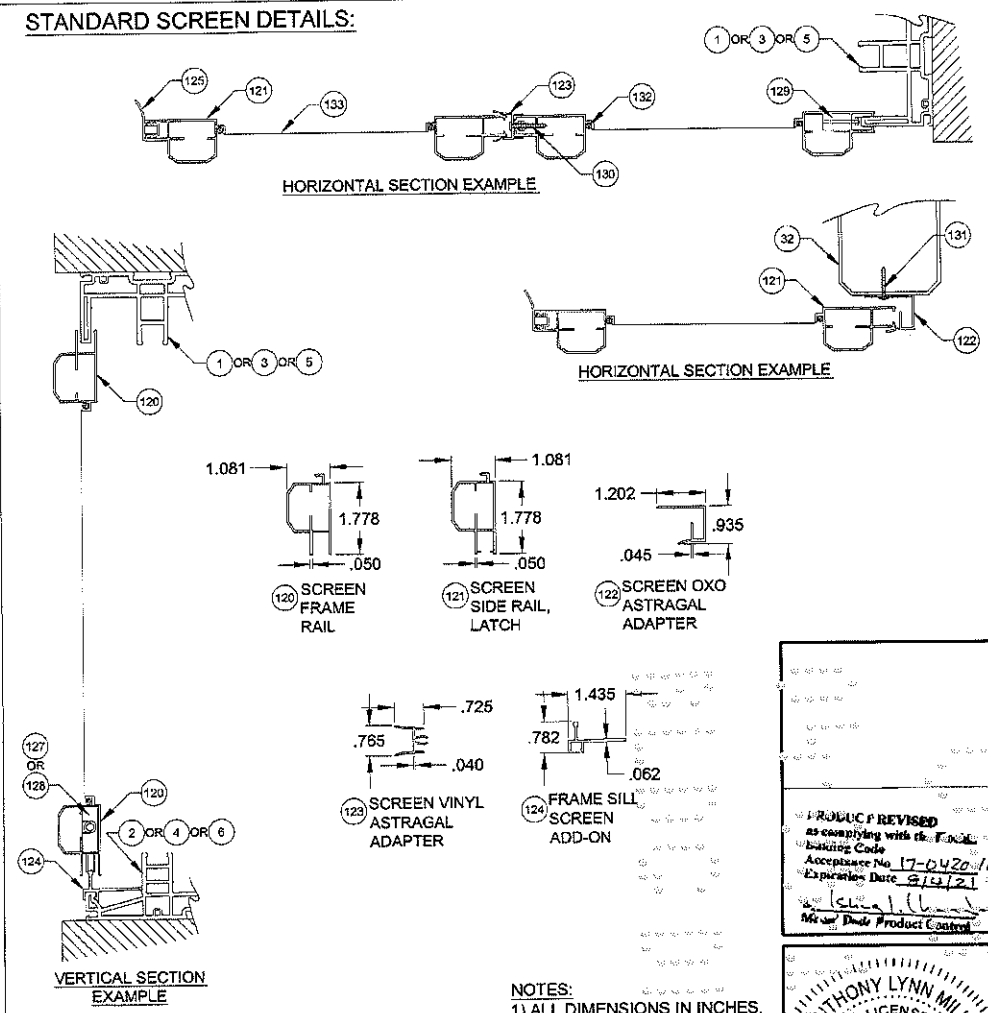
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17

A. LYNN MILLER, P.E.
P.E.# 58705

BOX SCREEN DETAILS:



STANDARD SCREEN DETAILS:



NOTES:
1) ALL DIMENSIONS IN INCHES.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 17-0420.16
Expiration Date 8/4/21
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
4/18/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

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N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	SCREEN DETAILS	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Series	SGD-5570 WINDOW	Scale	NTS
Sheet	20 OF 21	DWG No.	MD-5570W.0
Rev. No.	A		

TABLE C:

#	Part #	Description	Material
1	19001	2-Track Head/Jamb	Rigid PVC
2	19002	2-Track Sill	Rigid PVC
3	19025	3-Track Head/Jamb	Rigid PVC
4	19026	3-Track Sill	Rigid PVC
5	19027	4-Track Head/Jamb	Rigid PVC
6	19028	4-Track Sill	Rigid PVC
7	19009	Frame Screw Cover	Rigid PVC
8	19031	Anchor Plate	6063-T6 Alum.
9	19007	Track Insert	6063-T6 Alum.
10	19084	Interlock Cap - Extended Pocket	Rigid PVC
11	19036	Bottom Rail Support	6063-T6 Alum.
12	19006A	Outer Sill Cover	6063-T6 Alum.
13	19011	Sill Track Cover	Rigid PVC
17	19032	P-Hook Adapter	6063-T6 Alum.
18	19020	P-Hook	6063-T6 Alum.
19	19047M	Extended Keeper	6063-T6 Alum.
20	19029M	Keeper	6063-T6 Alum.
21	19014	Reinforcement Bar Cover	Rigid PVC
22	19030	Reinforcement Bar	6005-T5 Alum.
23	19037M	Fixed Panel Clip	6063-T6 Alum.
24	19035M	Reinforcement Plate	6063-T6 Alum.
25	19017M	Top Rail, Bottom Rail and Lockstile Reinforcement	6005-T5 Alum.
26	19046		Composite
27	19018M	Interlock .300 Reinforcement, Std.	6005-T5 Alum.
28	19013M	Interlock .400 Reinforcement, HD	6005-T5 Alum.
29	19019M	Astragal Reinforcement	6005-T5 Alum.
30	19083	Extended Pocket Interlock Adaptor	6063-T6 Alum.
31	19005	Interlock Adaptor	Rigid PVC
32	19008	Astragal Add-on	Rigid PVC
33	19004	Panel Stile, Top/Bottom Rail	Rigid PVC
34	19040	Interior Jamb Cover	6063-T6 Alum.
35	19076	135° Corner Astragal	6063-T6 Alum.
36	19077	135° Corner Astragal Passive Mount	6063-T6 Alum.
37	19079	135° Corner Astragal Cap - Ext.	Rigid PVC
38	19080	135° Corner Astragal Cap - Int.	Rigid PVC
39	19078	90° Corner Astragal	6063-T6 Alum.
40	19081	90° Corner Astragal Cap - Ext.	Rigid PVC
41	19082	90° Corner Astragal Cap - Int.	Rigid PVC

#	Part #	Description	Material
42	19085	Sill Riser - (2-1/2")	6063-T6 Alum.
43	19022A	Sill Riser - (3-1/2")	6063-T6 Alum.
44	19023A	Sill Riser - (4-1/16")	6063-T6 Alum.
45	19024A	Sill Riser - (4-5/8")	6063-T6 Alum.
50	718609W	.187" x .320" Finseal (Stile)	
51	71695K	1-1/2" x 1" x 3/4" Fin Seal Dust Plug	
52	71696	Dust Plug	
60	419041	Interlock Clip Cover	PVC
61	78153X	Tandem Roller Assembly	SS
62	78153N	Tandem Roller Assembly	Nylon
63	78X75FPTX	#8 x 3/4" Ph. FH SMS @ Roller & Reinf.	SS
64	419042	Frame Header Block	Nylon
65	48052	Roller Adj. Hole Plug	PVC
66	44385	4 Hole Bumper Stop	PVC
67	76X114FPTX	#8 x 1-1/4" Ph. FH SMS @Bumper Stop	SS
68	71696G	Sill Plug	PVC
69	78185X	Gemini Mortise Lock w/long Trim plate	Steel/SS
70	71032X1FPFX	10-32 x 1" Ph.FH MS @ Lock	SS
71	varies	Handle Kit	Cast Zinc
72	19054	Interlock Retainer Clip	Nylon
75		Kommerling 4SG TPS Spacer System	See Sheet 10 for Materials
76		Quanex Super Spacer nXT with Hot Melt Butyl	
77		Quanex Duraseal	
78		Cardinal XL Edge Spacer	
79		Dow Corning 995 or GE-7700 Backbedding	Silicone
80	19090	7/16" Square Bead	Rigid PVC
81		7/16" Beveled Bead	Rigid PVC
82	19044	1-1/16" Beveled Bead	Rigid PVC
83	19045	1-1/16" Ogee Bead	Rigid PVC
84	19016	1-3/16" Ogee Bead	Rigid PVC
85	71725K	Setting Block 1/2" x 4" x 1/16", 85 +/- 5 duro.	Neoprene
86	71726K	Setting Block 1" x 4" x 1/16", 85 +/- 5 duro.	Neoprene
90	781PSTX	#8 x 1" Ph. PH SMS @ Frame Assembly	SS
91	78X114PHPT410X	#8 x 1-1/4" Ph. PH SMS @ Reinf. Bar	SS
92	710X1PHPT18-8X	#10 x 1" Ph. PH SMS @ Rail Support	SS
93	710X115PPX	#10 x 1-1/2" Ph. PH SMS @ Fxd. Pnl. Clip	SS
94	710X2.5PHPT18-8X	#10 x 2-1/2" Ph. PH SMS @ Reinf. Plate/Ast.	SS
95	71420X2.25FPFX	#12 x 2-1/4" Ph. PH SMS @ Hdr. Block	SS
96	710X1.75PPX	#10 x 1-3/4" Ph. FH SMS @ Keeper	SS
97	710X34PPX	#10 x 3/4" Ph. PH SMS @ Ext. Pkt. Int.	SS
98	710X2PPX	#10 x 2" Ph. FH SMS @ Keeper	SS

TABLE D: BOX SCREEN

#	Part #	Description	Material
100	12256	Box Screen Top Rail	6063 T5 Al
101	12257	Box Screen Bottom Rail	6063 T5 Al
102	12258	Box Screen Side Rail	6063 T5 Al
103	64428	Box Screen Interlock	6063 T6 Al
104	17347A	Box Screen Snap-on Bug Flap	6063 T6 Al
105	64345	Box Screen OXD Astragal Adapter	6063 T6 Al
106	17349	Box Screen Astragal Adapter	6063 T5 Al
107	19039	Box Screen Frame Sill Add-on	6063 T6 Al
108	19038	Box Screen Head/Jamb Add-on	6063 T6 Al
109	720X1X	#14-20 x 1" MS @ Top Rail	SS
110	720X112X	#14-20 x 1-1/2" MS @ Bottom Rail	SS
111	71793G	Wstp, .270" x .150" - Fin Seal	
112	61805K	Wstp, .187" x .500" @ Bug Flap	
113	7SRAZ	Standard Roller	Nylon
114	7SRAX	HD Roller	SS
115	varies	Screen Locking Hardware	Steel
116	419053	Screen Keeper	Steel
117	76X1PPA	#6 x 1" Ph. PH SMS	Steel
118	1692/3/4	Screen Spline - .150" & .165"	Vinyl
119	1816C20	Screen Cloth	Fiberglass

TABLE E: STANDARD SCREEN

#	Part #	Description	Material
120	12033	Screen Frame Rail	6063 T5 Al
121	12026A	Screen Frame - Side Rail (Latch)	6063 T5 Al
122	17363	Screen OXD Astragal Adapter	6063 T6 Al
123	4853K	Screen Vinyl Astragal Adapter	Rigid PVC
124	19012B	Frame Sill Screen Add-on	6063 T6 Al
125	6FP95K	Bug Flap, 85 +/- 5 duro.	Vinyl
126	78X112PSATS	#8 x 1-1/2" Ph. PH SMS (Assembly)	SS
127	712027	Corner Key Wheel Assembly (Standard)	Nylon
128	712027SS	Corner Key Wheel Assembly (HD)	SS
129	varies	Screen Locking Hardware	Steel
130	710X34PPSDAX	#10 x 3/4" Ph. PH SMS @ Screen Ast.	SS
131	78X12PPSMSX	#8 x 1/2" Ph. PH SMS @ Door Ast.	SS
132	1692/3/4	Screen Spline - .145"	Vinyl
133	1816C20	Screen Cloth	Fiberglass

NOTES:
1) ITEMS #14-16, 46-49, 53-59, 73, 74 & 87-89, 98 & 99 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

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N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS WINDOW NOA (LM)	Date	04/14/16
Desc.	PARTS LIST	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Series	SGD-5570 WINDOW	Scale NTS	Sheet 21 OF 21
DWG No.	MD-5570W.0	Rev. No.	A

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-0420.16
Expiration Date 2/4/21
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive,
North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "5570/2770" Vinyl Sliding Glass Door (Reinforced)-L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-5570.0**, titled "Vinyl Sliding Glass Door NOA (LM)", sheets 1 through 21 of 21, prepared by manufacturer, dated 10/05/15, with revision A dated 04/05/17, signed and sealed by A. Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA #15-1210.01** and consists of this page 1 and evidence pages E-1, E-2, E-3 & E-4 as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P.E.**

MIAMI-DADE COUNTY APPROVED

09/15/17

NOA No. 17-0420.06
Expiration Date: April 14, 2021
Approval Date: September 28, 2017

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 11-0107.04)
2. Drawing No. **MD-5570.0**, titled "Vinyl Sliding Glass Door NOA (LM)", sheets 1 through 21 of 21, prepared by manufacturer, dated 10/05/15, with revision A dated 04/05/17, signed and sealed by A. Lynn Miller, P.E.

B. TESTS

1. Test report on 1) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of vinyl sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 8717**, dated 12/07/15, signed and sealed by Idalmis Ortega, P. E. (Test report revised on 02/15/16 and 02/24/16)
2. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94.
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC, TAS 202-94

   along with marked-up drawings and installation diagram of vinyl sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 8546**, dated 11/06/15, signed and sealed by Idalmis Ortega, P. E. (Test report revised on 01/04/16 and 02/11/2016)
3. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC, TAS 202-94

   along with marked-up drawings and installation diagram of vinyl sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 8547**, dated 12/04/15, signed and sealed by Idalmis Ortega, P. E. (Test report revised on 02/15/16)
4. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC, TAS 202-94

   along with marked-up drawings and installation diagram of vinyl sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 8548**, dated 12/04/15, signed and sealed by Idalmis Ortega, P. E. (Test report revised on 01/04/16 and 02/11/16)

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0420.06
Expiration Date: April 14, 2021
Approval Date: September 28, 2017

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (continued)

5. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94.
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC, TAS 202-94

   along with marked-up drawings and installation diagram of vinyl sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 8549**, dated 11/06/15, signed and sealed by Idalmis Ortega, P. E. (Test report revised on 12/04/15 and 02/11/16)
6. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94.
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of vinyl sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 8552**, dated 12/04/15, signed and sealed by Idalmis Ortega, P. E. (Test report revised on 02/15/2016)
7. Test report on 1) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of vinyl sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 6638** (samples A-1 thru A-22), dated 11/19/10, signed and sealed by Jorge A. Causo, P. E.

   (Submitted under NOA No. 11-0107.04)
8 Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94.
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC, TAS 202-94

along with marked-up drawings and installation diagram of vinyl sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 6337** (samples A-1 thru A-5), dated 12/06/10, signed and sealed by Jorge A. Causo, P. E.
(Submitted under NOA No. 11-0107.09)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2014, prepared by PGT, dated 12/09/15and last revised on 02/15/16, signed and sealed by Anthony L. Miller, P.E.

   (Submitted under NOA No. 15-1210.01)

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0420.06
Expiration Date: April 14, 2021
Approval Date: September 28, 2017

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS (cont.)

2. Glazing complies with ASTME-1300-09

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **15-0528.14** issued to Vision Extrusion Limited for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**", dated 08/13/15, expiring on 09/30/19.
2. Notice of Acceptance No. **16-0920.08** issued to Vision Extrusion Limited for their "**VE 1000 Tan 202 and lighter Shades (Non-White) Rigid PVC Exterior Extrusions for Windows and Doors**", dated 12/08/16, expiring on 12/29/21.
3. Notice of Acceptance No. **15-0528.15** issued to Vision Extrusion Limited for their "**Brown Coated (Painted or Laminated) White Rigid PVC Exterior Extrusions for Windows and Doors**", dated 08/13/15, expiring on 09/30/19.
4. Notice of Acceptance No. **16-0712.02** issued to ENERGI Fenestration Solutions USA, Inc. for their "**TAN 3040 and Lighter Shades (Non-White) Rigid PVC Exterior Extrusions for Windows and Doors**" dated 09/15/16, expiring on 02/04/21.
5. Notice of Acceptance No. **16-0712.04** issued to ENERGI Fenestration Solutions USA, Inc. for their "**Bronze and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors**" dated 09/15/16, expiring on 04/16/20.
6. Notice of Acceptance No. **16-0712.03** issued to ENERGI Fenestration Solutions USA, Inc. for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 08/10/17, expiring on 02/28/18.
7. Test reports No(s). 10-002-792(A), 10-06-M0527, 535753-09, per ASTME-84, ASTMD1929 and ASTMD-635, issued by EXOVA to Vision Extrusion for cellulosic composite material. ***(Submitted under NOA No. 11-0107.04)***
8. Notice of Acceptance No. **14-0916.11** issued to Kuraray America., Inc. for their "**SentryGlas® (Clear and White) Interlayer**", expiring on 07/04/18.
9. Notice of Acceptance No.**16-1117.01** issued to Kuraray America, Inc. for their "**Trosifol® Ultraclear, Clear and Color PVB Interlayers**", expiring on 07/08/19.

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0420.06
Expiration Date: April 14, 2021
Approval Date: September 28, 2017

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance with **FBC-5th Edition (2014)** and **FBC-6th Edition (2017)**, issued by manufacturer, dated 08/14/17, signed & sealed by Lynn Miller, P.E.
2. Statement letter of no financial interest, dated 04/18/17, issued by manufacturer, signed & sealed by Lynn Miller, P.E.
3. Letter of lab compliance, part of the above test reports.
4. RER Test Proposal No. 17-0387, dated 05/05/17, signed by Ishaq Chanda, P.E.

G. OTHER

1. Notice of Acceptance No. **15-1210.01**, issued to PGT Industries, for their Series **"5570/2770" Vinyl Sliding Glass Door (Reinforced) – L.M.I."**, approved on 03/03/16 and expiring on 04/14/21.

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0420.06
Expiration Date: April 14, 2021
Approval Date: September 28, 2017

SERIES 5570 IMPACT RESISTANT SLIDING GLASS DOOR INCLUDING POCKETS & 90°/135° CORNERS

GENERAL NOTES:
1) GLAZING TYPE OPTIONS: SEE GLAZING DETAILS ON SHEET 10.
2) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
3) ANCHORAGE: THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
4) SHUTTERS ARE NOT REQUIRED PER FBC REQUIREMENTS, AS APPLICABLE.
5) INSTALLATION SCREWS & FRAME SPLICES TO BE SEALED WITH NARROW JOINT SEALANT.
6) REFERENCES (NOA'S): ELCO ULTRACON, CRETEFLEX & AGGREGATOR ANCHOR NOA'S, ENERGI FENESTRATION SOLUTIONS USA, INC. OR VISION EXTRUSION, LTD. WHITE RIGID PVC NOA, VE 1000 TAN 202 AND LIGHTER SHADES (NON-WHITE) RIGID PVC NOA AND BROWN COATED (PAINTED OR LAMINATED) WHITE RIGID PVC NOA
REFERENCES (TEST REPORTS): FTL-6337, 6338, 8646-8649, 8652 & 8717; EXOVA-10-002-792(A) & 10-006-10231; CAMBRIDGE 535753-09;
7) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FBC, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ). THE RIGID WHITE, BROWN & TAN PVC MANUFACTURED BY ENERGI FENESTRATION SOLUTIONS USA, INC. OR VISION EXTRUSION, LTD. HAS BEEN TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE FOR PLASTICS, (COMPONENT REQUIREMENTS).
8) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS OF THE FBC, AS APPLICABLE.
9) DRAWINGS DEPICT EXTERIOR-GLAZING, HOWEVER INTERIOR-GLAZING MAY BE SUBSTITUTED.
10) THE 5570 SERIES SLIDING GLASS DOOR MAY ALSO BE KNOWN AS THE 570/2770 SERIES.

ANCHOR NOTES:
1) FOR CONCRETE/CMU SUBSTRATE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO ANCHORS. SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
2) FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE A ON THIS SHEET.
3) WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED, 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
4) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER THE FBC AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
5) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

INSTRUCTIONS:
1) KNOWING THE REQUIRED DESIGN PRESSURE OF THE OPENING, THE ANCHOR REQUIREMENTS FOR THE SLIDING GLASS DOORS MAY BE DETERMINED FROM DESIGN PRESSURE TABLES 1 OR 2, DEPENDING ON THE GLASS/REINFORCEMENT.
2) LOCATE THE SLIDING GLASS DOOR SIZE ON THE TABLE, USING THE FRAME HEIGHT AND THE NOMINAL PANEL WIDTH IF YOUR EXACT SIZE IS NOT LISTED, ROUND UP TO THE NEXT GREATER LISTED WIDTH AND/OR HEIGHT.
3) CHOOSE WHICH ANCHOR GROUP (A-D) IS MOST APPLICABLE. ANCHORS ARE DEFINED IN TABLE A, THIS SHEET, ALONG WITH THE CORRESPONDING SUBSTRATE, MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE.
4) FROM THE DESIGN PRESSURE TABLES (TABLES 1 OR 2), VERIFY THAT THE OPENING'S REQUIRED DESIGN PRESSURE IS MET OR EXCEEDED. USE THE ANCHOR QUANTITIES SHOWN.
5) INSTALL AS PER THE GUIDELINES OF THIS SHEET-SET.
6) ADDITIONALLY, SEE THE EXAMPLE ON SHEET 9.

TABLE A:

Group	Anchor	Substrate	Frame Member	Min. Edge Distance	Min. Embedment
A	#12, steel SMS (G5) or 410 S.S. SMS (min. 11 threads/in)	P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	9/16"	1-3/8"
			P-hook	9/16"	1-3/8"
		Aluminum, 6063-T5* (0.125" min. thickness)	Head/Sill/Jamb	3/8"	1/8"
			P-hook	3/8"	1/8"
		Steel, A36* (0.060" min. thickness)	Head/Sill/Jamb	3/8"	0.080"
			P-hook	3/8"	0.080"
		Steel Stud, A653 Gr. 33* (0.071" min. thickness)	Head/Sill/Jamb	3/8"	0.071" (14 Ga.)
			P-hook	3/8"	0.071" (14 Ga.)
	1/4" Elco Ultracon	P.T. Southern Pine (SG=0.55)	Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
	1/4" Elco 410 S.S. CreteFlex	P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
B	#12, steel wood screw (G5)	P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	9/16"	1-3/8"
			P-hook	9/16"	1-3/8"
C	1/4" Elco Ultracon	Concrete (min. 2.85 ksi)	P-hook	1"	1-3/8"
			Head/Sill/Jamb	1-3/16"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	1"	1-1/4"
			P-hook	1"	1-1/4"
	1/4" Elco 410 S.S. CreteFlex	Ungrouted CMU, (ASTM C-90)	Jamb	1-3/4"	1-1/4"
			P-hook	1-3/4"	1-1/4"
		Concrete (min. 3.35 ksi)	Head/Sill/Jamb	1-3/16"	1-3/4"
			P-hook	1"	1-3/4"
	1/4" Elco 18-8 S.S. Aggre-Gator	Concrete (min. 2.22 ksi)	Head/Sill/Jamb	1-1/2"	1-3/8"
			P-hook	1-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	2"	1-1/4"
			P-hook	2"	1-1/4"
		P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
D	1/4" Elco Ultracon	Concrete (min. 2.85 ksi)	Head/Sill/Jamb	2-1/2"	1-3/8"
			P-hook	2-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
			P-hook	2-1/2"	1-1/4"
	1/4" Elco 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	Head/Sill/Jamb	2-1/2"	1-3/4"
			P-hook	2-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
			P-hook	2-1/2"	1-1/4"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE. METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

DESIGN PRESSURE RATING
SEE TABLES 1, 2 & B1, B2 ON SHEETS 7 & 8

GENERAL NOTES..... 1
EXAMPLE CONFIGS..... 2
INSTALL DETAILS.....3-6
DP/ANCHOR TABLES..... 7-8
EXAMPLE.....9
GLAZING DETAILS..... 10
ANCHOR LOCATIONS.....11-16
PANEL TYPES..... 17
EXTRUSIONS.....18
ACCESSORIES.....19
SCREEN DETAILS..... 20
PARTS LIST.....21

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

CODES / STANDARDS USED:
- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-12
- AISC 360-10

Material	Min. F_y	Min. F_u
Steel Screw	92 ksi	120 ksi
410 Screw	90 ksi	110 ksi
Elco Aggre-Gator®	57 ksi	98 ksi
Elco UltraCon®	155 ksi	77 ksi
410 SS Elco CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

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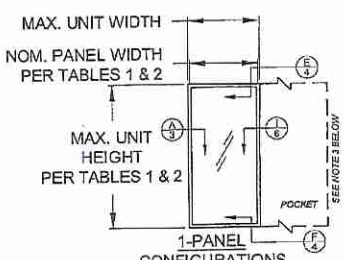
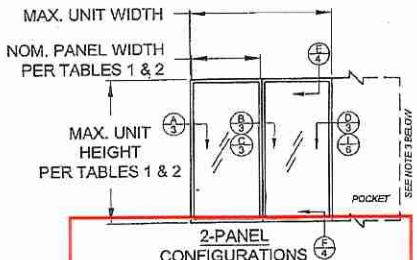
1070 TECHNOLOGY DR
N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS DOOR NOA (LM)			Date	10/05/15
Descr.	GENERAL NOTES			Drawn by	J ROSOWSKI
Rev	UPDATED TO FBC 2017, VINYL MFG.			Rev Date	04/05/17
Rev				Rev Date	
Series	SGD-5570	Scale NTS	Sheet 1 OF 21	DWG No. MD-5570.0	Rev. No. A

ANTHONY LYNN MILLER
LICENSE
No. 58705
4/18/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



1-PANEL CONFIGURATIONS



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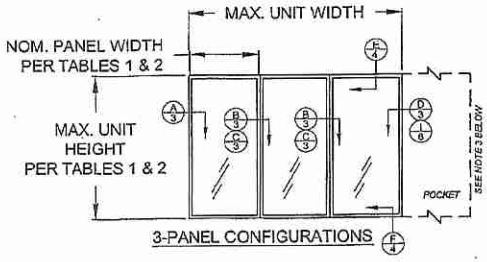
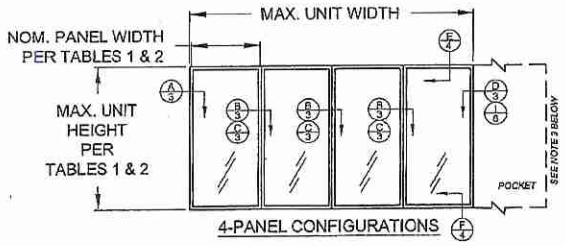
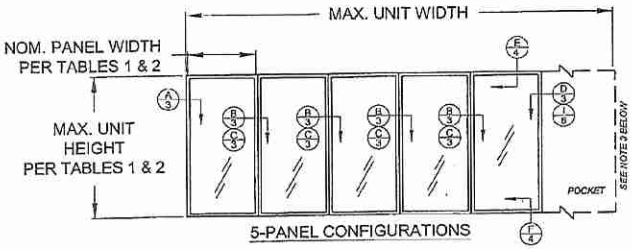


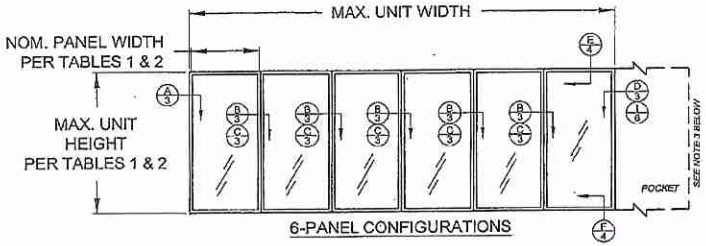
3-PANEL CONFIGURATIONS



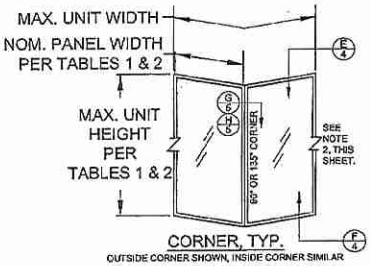
4-PANEL CONFIGURATIONS



5-PANEL CONFIGURATIONS

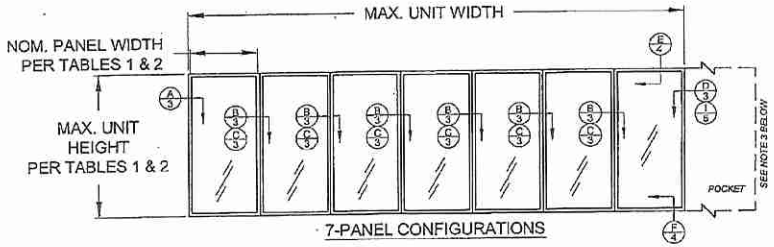


6-PANEL CONFIGURATIONS

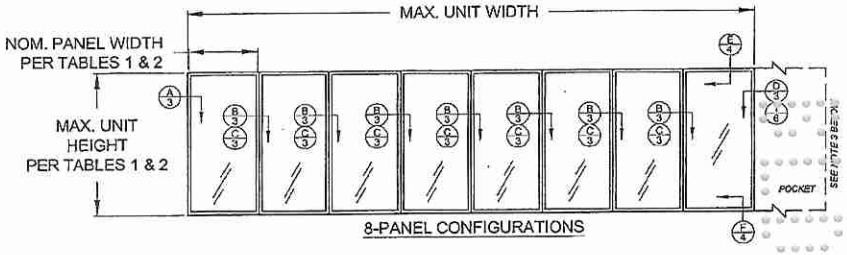


CORNER, TYP.

OUTSIDE CORNER SHOWN, INSIDE CORNER SIMILAR



7-PANEL CONFIGURATIONS



8-PANEL CONFIGURATIONS

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NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

CONFIGURATIONS NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. EXAMPLE: 4-PANEL XXXX IN POCKET (p) CONFIGURATION CAN BE pXXXXp, pXXXX OR XXXXp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.

2) 90° & 135° CORNER CONFIGURATIONS ARE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.

3) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

4) FOR NOM. PANEL WIDTH, SEE TABLES 1 & 2.

5) MAX. ALLOWABLE FRAME SQUARE FOOTAGE = 472.656 FT²

"X" = OPERABLE PANEL
"O" = INOPERABLE PANEL
"p" = POCKET

DLO WIDTH = NOM. PANEL WIDTH - 8-9/16"
NOM. PANEL WIDTH = PANEL WIDTH + 1-3/16"
DLO HEIGHT = DOOR HEIGHT - 11-7/16"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

DETAIL LETTER
SHEET NUMBER

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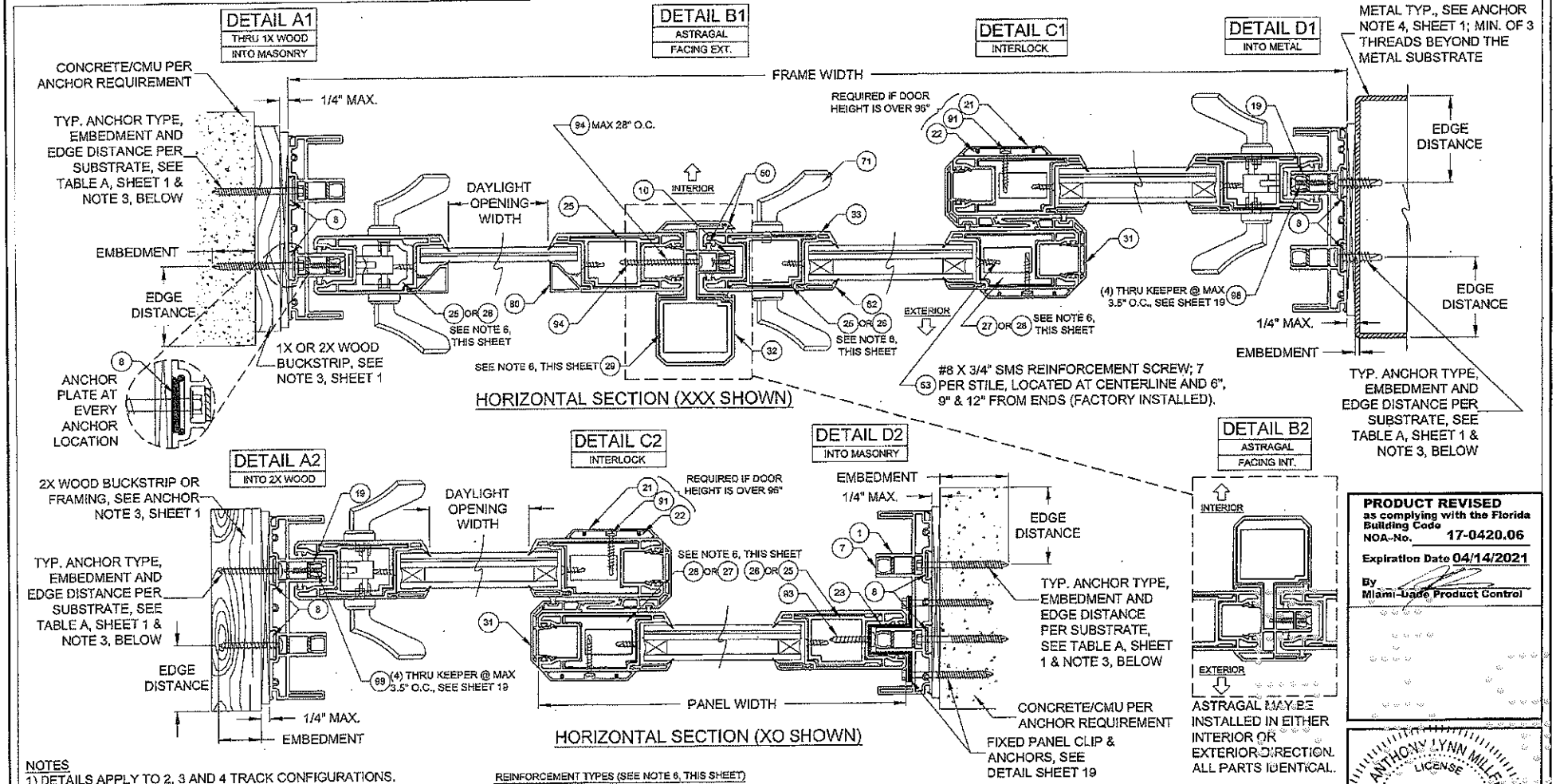
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Descr.	EXAMPLE CONFIGURATIONS	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/03/17
Rev		Rev Date	

Series	SGD-5570	Scale	NTS	Sheet	2 OF 21	DWG No.	MD-5570.0	Rev. No.	A

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705



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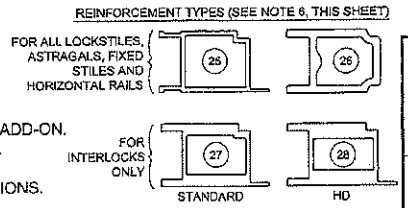
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEET 13 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
6) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS. ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.
7) SEE SHEET 20 FOR SCREEN DETAILS.

REINFORCEMENT TYPES (SEE NOTE 6, THIS SHEET)



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Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Dwg.	INSTALLATION, HORIZONTAL X-SECT.	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/06/17
Rev		Rev Date	

Series	SGD-5570	Scale	NTS	Sheet	3 OF 21	DWG No.	MD-5570.0	Rev. No.	A

ANTHONY LYNN MILLER
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STATE OF FLORIDA
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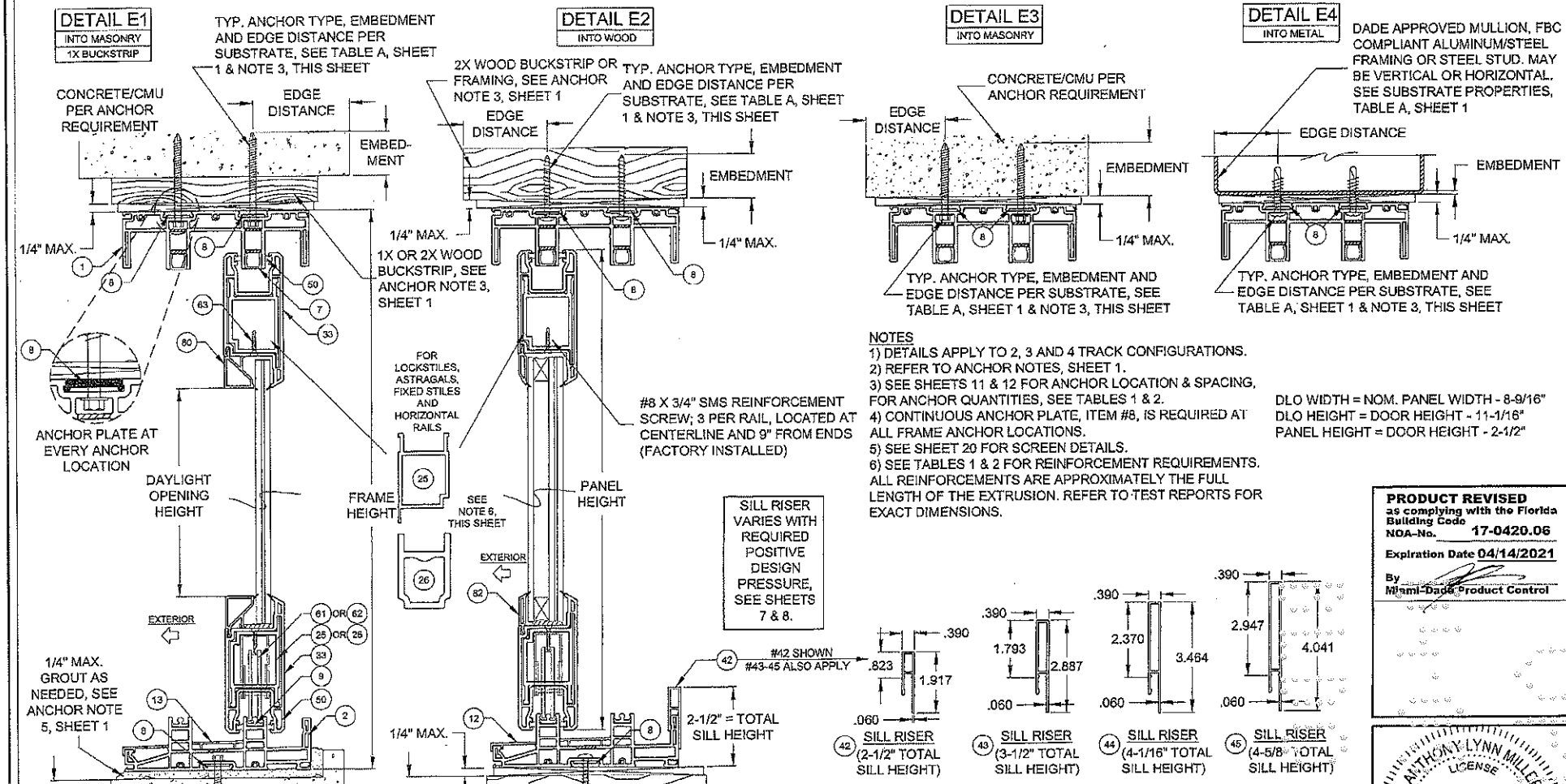
4/7/17
A. LYNN MILLER, P.E.
P.E.# 58705



NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEETS 11 & 12 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) SEE SHEET 20 FOR SCREEN DETAILS.
6) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS. ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.

DLO WIDTH = NOM. PANEL WIDTH - 8-9/16"
DLO HEIGHT = DOOR HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/13/17
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P.E.# 58705

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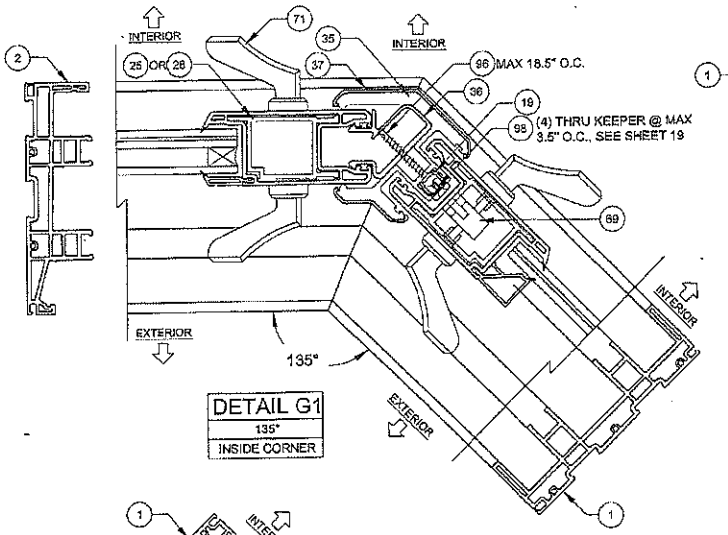
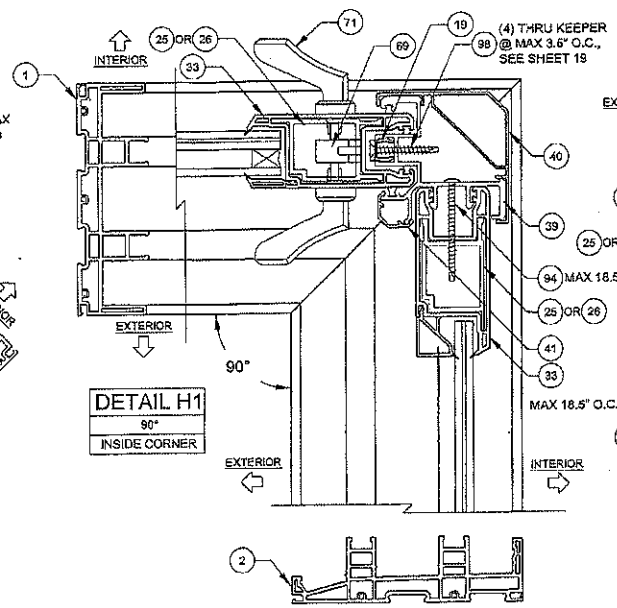
1070 TECHNOLOGY DR
N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Div.	INSTALLATION, VERTICAL X-SECT.	Drawn by	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/06/17
Rev		Rev Date	

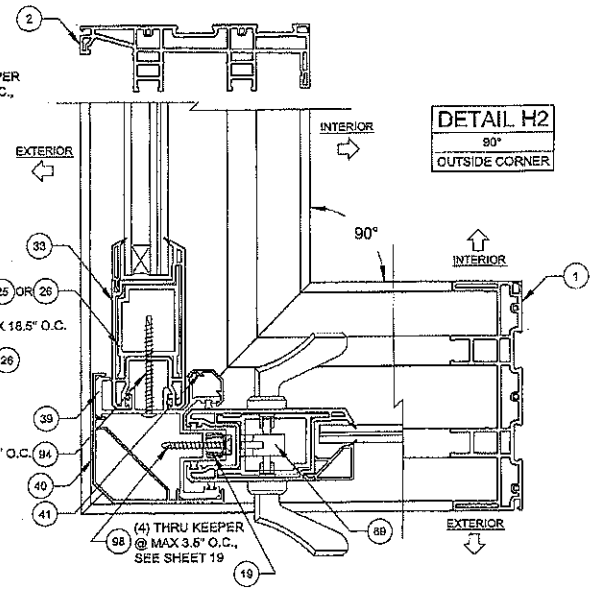
Series	SGD-5570	Scale	NTS	Sheet	4 OF 21	DWG No.	MD-5570.0	Rev. No.	A



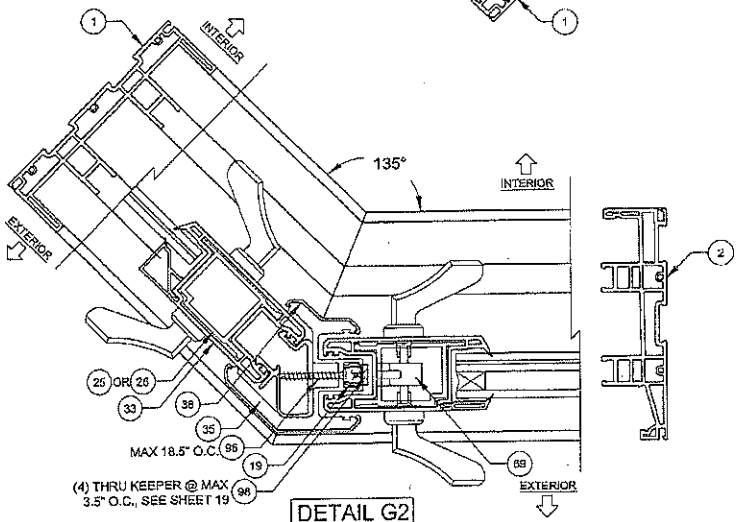
DETAIL G1
135°
INSIDE CORNER



DETAIL H1
90°
INSIDE CORNER



DETAIL H2
90°
OUTSIDE CORNER



DETAIL G2
135°
OUTSIDE CORNER

NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 14 & 15 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
3) CORNER ASTRAGAL MAY BE EITHER TO THE INTERIOR OR EXTERIOR, DEPENDING ON CONFIGURATION.

PRODUCT REVISED
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NOA-No. 17-0420.06
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Miami-Dade Product Control

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Rev		Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date 10/05/15
Rev		Desc.	CORNER ASTRAGAL HORIZ. X-SECT.	Drawn By J ROSOWSKI
Rev			NO CHANGES THIS SHEET.	Rev Date 01/06/17
Rev				Rev Date
Series SGD-5570	Scale NTS	Sheet 5 OF 21	DWG No. MD-5570.0	Rev. No. A

ANTHONY LYNN MILLER
LICENSE
No. 58705
4/18/17
STATE OF FLORIDA
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A. LYNN MILLER, P.E.
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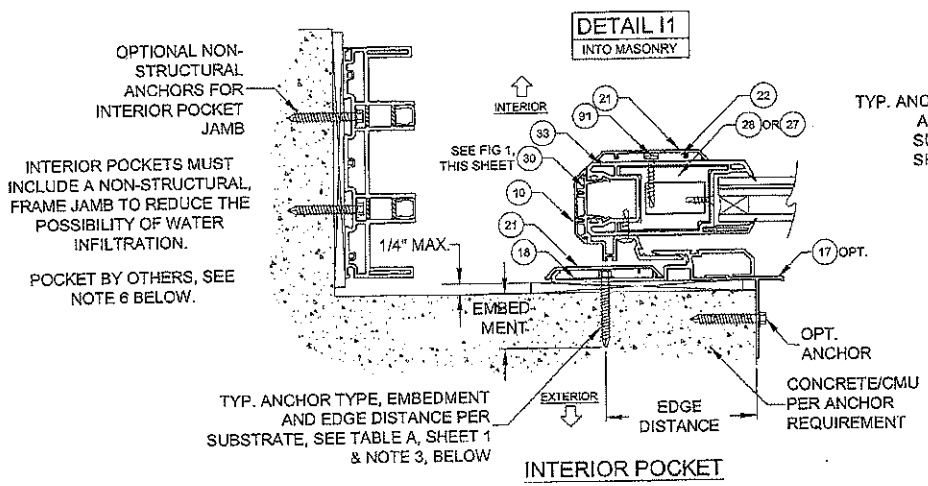
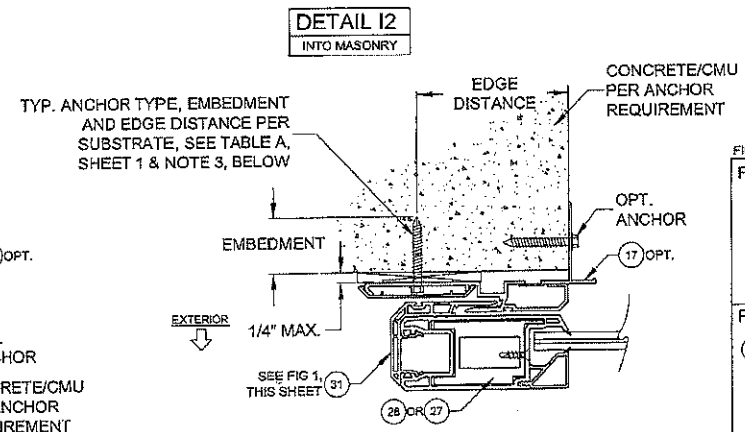
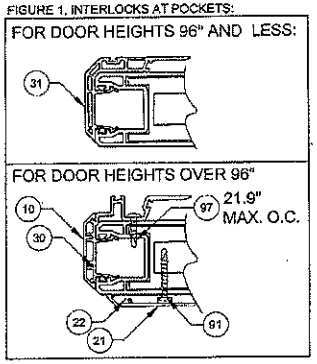


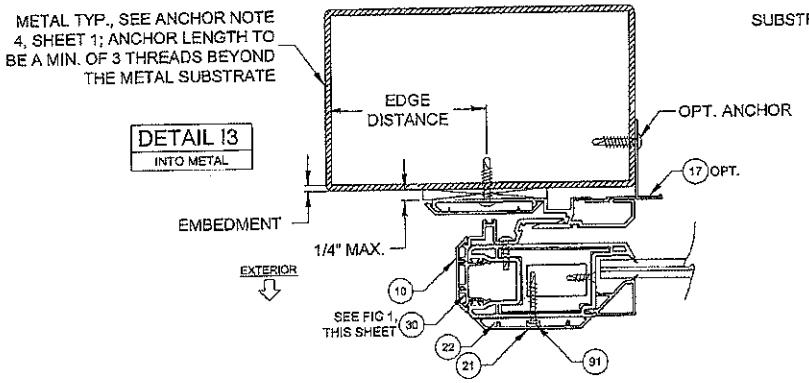
INTERIOR POCKET



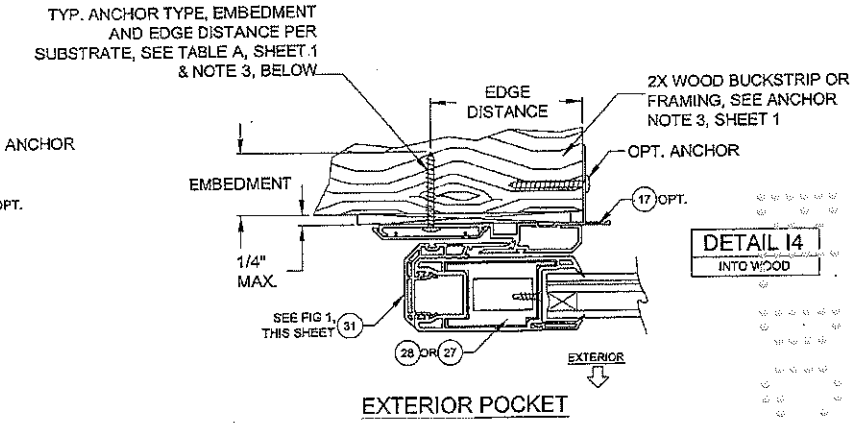
EXTERIOR POCKET

FIGURE 1, INTERLOCKS AT POCKETS:





EXTERIOR POCKET



EXTERIOR POCKET

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Expiration Date 04/14/2021
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NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEET 13 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
4) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS.
5) INTERIOR OR EXTERIOR POCKETS APPLICABLE FOR ALL INSTALLATION METHODS.
6) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

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Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Desc.	P-HOOK EXAMPLES, HORIZ. X-SECT.	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Series	SGD-5570	Scale	NTS
Sheet	6 OF 21	DWG No.	MD-5570.0
Rev. No.	A		

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P.E.# 58705

TABLE 1:

Design Pressure (DP) and Anchor Quantities Required,
(for all approved configurations on Sheet 2)

Use this table for:
Glass Types 1, 1A, 3 or 3A
Astragal Reinforcement #29
Lockstile Reinforcement #25 or #26
Std. Interlock Reinforcement #27

Nominal Panel Width			Door Unit Height											
			80"				84"				96"			
			~~68-15/16" DLO Height~~				72-15/16" DLO Height				84-15/16" DLO Height			
			Anchor Group				Anchor Group				Anchor Group			
			A	B	C	D	A	B	C	D	A	B	C	D
24"	19-1/8" DLO Width	*Design Pressure*	*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8
30"	25-1/8" DLO Width	*Design Pressure*	*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8
36"	31-1/8" DLO Width	*Design Pressure*	*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8
42"	37-1/8" DLO Width	*Design Pressure*	*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8
48"	43-1/8" DLO Width	*Design Pressure*	*+60 / -60 psf*				*+60 / -60 psf*				*+60 / -60 psf*			
		Head/Sill	C3+2	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C5+2	C3+1	C3+1	C3+1
		Jamb	5	5	5	5	5	5	5	5	5	5	6	5
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8

USED IN EXAMPLE ON SHEET 9

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE B1, THIS SHEET.

OF ANCHORS THROUGH THE HEAD & SILL. (EX: FOR C3+1, 3 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

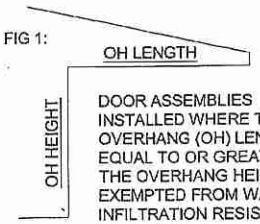
TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS REQUIRED THROUGH THE P-HOOK, PERPENDICULAR TO THE GLASS.

TABLE B1:

Water-Limited (+) Design Pressure		
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed
None	1-11/16"	See Note 2
42	2-1/2"	+38.7 psf
43	3-1/2"	+60.0 psf
44	4-1/16"	+60.0 psf
45	4-5/8"	+60.0 psf

FIG 1:



DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT IS EXEMPTED FROM WATER INFILTRATION RESISTANCE.

DLO WIDTH = NOM. PANEL WIDTH - 8-9/16"
DLO HEIGHT = DOOR HEIGHT - 1[illegible]-1/16"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

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TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED,THE LESSER VALUES OF EITHER TABLE 1 AND TABLE B1 DETERMINES THE WATER LIMITED (+) DP.
2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED. IF SO, +DP'S SHOWN IN TABLE 1 MAY BE USED.
3) SEE SILL RISER TYPES ON SHEET 4.
4) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.
5) REFER TO ANCHOR NOTES, SHEET 1.
6) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING

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Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Desc.	DP & ANCHOR QUANTITY TABLE	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Series	SGD-5570	Scale	NTS
Sheet	7 OF 21	DWG No.	MD-5570.0
Rev. No.	A		

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PROFESSIONAL ENGINEER
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P.E.# 58705

TABLE 2:

Design Pressure (DP) and Anchor Quantities Required,

(for all approved configurations on Sheet 2)

Use this table for:
Glass Types 2 or 4
Astragal Reinforcement #29
Lockstile Reinforcement #25
HD Interlock Reinforcement #28

Nominal Panel Width			Door Unit Height																			
			80"				84"				96"				108"				120"			
			68-15/16" DLO Height				72-15/16" DLO Height				84-15/16" DLO Height				96-15/16" DLO Height				108-15/16" DLO Height			
			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24"	19-1/8" DLO Width	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf				+60 / -65 psf				+60 / -65 psf			
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
30"	25-1/8" DLO Width	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf				+60 / -65 psf				+60 / -65 psf			
		Head/Sill	C5+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C5+1	C3+1	C5+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
		Jamb	5	5	5	5	5	5	6	5	5	5	7	5	6	6	6	6	6	6	6	6
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
36"	31-1/8" DLO Width	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf				+60 / -65 psf				+60 / -65 psf			
		Head/Sill	C5+2	C3+1	C5+1	C3+1	C5+2	C3+1	C5+1	C3+1	C5+2	C5+1	C5+1	C3+1	C5+1	C3+1	C3+1	C3+1	C5+1	C3+1	C5+1	C3+1
		Jamb	5	5	6	5	5	5	6	5	5	5	7	5	6	6	6	6	6	6	6	6
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
42"	37-1/8" DLO Width	Design Pressure	+100 / -100 psf				+100 / -100 psf				+100 / -100 psf				+60 / -65 psf				+60 / -65 psf			
		Head/Sill	C5+2	C3+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+1	C3+1	C5+1	C3+1	C5+1	C5+1	C5+1	C3+1
		Jamb	5	5	7	5	5	5	7	5	5	5	8	5	6	6	6	6	6	6	7	6
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
48"	43-1/8" DLO Width	Design Pressure	+100 / -100 psf				+100 / -100 psf				+92 / -92 psf *				+60 / -65 psf				+60 / -65 psf			
		Head/Sill	C5+2	C5+2	C5+2	C3+2	C5+2	C5+2	C5+2	C3+2	C5+2	C5+2	C5+2	C5+2	C5+2	C3+1	C5+2	C3+1	C5+2	C5+1	C5+2	C3+1
		Jamb	5	5	7	5	5	5	8	5	5	5	9	5	6	6	7	6	6	6	8	6
		P-hook	7	7	7	7	7	7	8	8	8	8	9	9	9	9	9	9	10	10	10	10
54"	49-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / 65 psf				+54.1 / -58.7 psf			
		Head/Sill	C5+2	C3+2	C5+2	C3+2	C5+2	C3+2	C5+2	C3+2	C5+2	C5+2	C5+2	C3+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2
		Jamb	5	5	6	5	5	5	7	5	5	5	8	5	6	6	8	6	6	6	8	6
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
60"	55-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+59.1 / -64 psf				+49.6 / -53.7 psf			
		Head/Sill	C5+3	C3+2	C5+3	C3+2	C5+3	C3+2	C5+3	C3+2	C5+3	C5+2	C5+3	C3+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2
		Jamb	5	5	6	5	5	5	7	5	5	5	8	5	6	6	8	6	6	6	8	6
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10

* +/-100.0 PSF FOR ANCHOR GROUPS B, C & D.

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

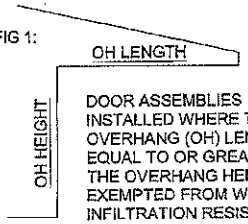
THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE B2, THIS SHEET.

OF ANCHORS THROUGH THE HEAD & SILL. (EX: FOR C3+1, 3 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS REQUIRED THROUGH THE P-HOOK, PERPENDICULAR TO THE GLASS.

FIG 1:



DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT IS EXEMPTED FROM WATER INFILTRATION RESISTANCE.

TABLE B2:

Water-Limited (+) Design Pressure		
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed
None	1-11/16"	See Note 2
42	2-1/2"	+38.7 psf
43	3-1/2"	+60.0 psf
44	4-1/16"	+80.0 psf
45	4-5/8"	+100.0 psf

DLO WIDTH = NOM. PANEL WIDTH - 8-9/16"
DLO HEIGHT = DOOR HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

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NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED,THE LESSER VALUES OF EITHER TABLE 2 AND TABLE B2 DETERMINES THE WATER LIMITED (+) DP.
2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED. IF SO, +DP'S SHOWN IN TABLE 2 MAY BE USED.
3) SEE SILL RISER TYPES ON SHEET 4.
4) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.
5) REFER TO ANCHOR NOTES, SHEET 1.
6) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING

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Title	VINYL SLIDING GLASS DOOR NOA (LM)			Date	10/06/16
Desc.	DP & ANCHOR QUANTITY TABLE		Drawn By	J ROSOWSKI	
Rev	NO CHANGES THIS SHEET.		Rev Date	04/05/17	
Rev			Rev Drn.		
Series	SGD-5570	Scale NTS	Sheet 8 OF 21	DWG No. MD-5570.0	Rev. No. A

ANTHONY LYNN MILLER
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No. 58705
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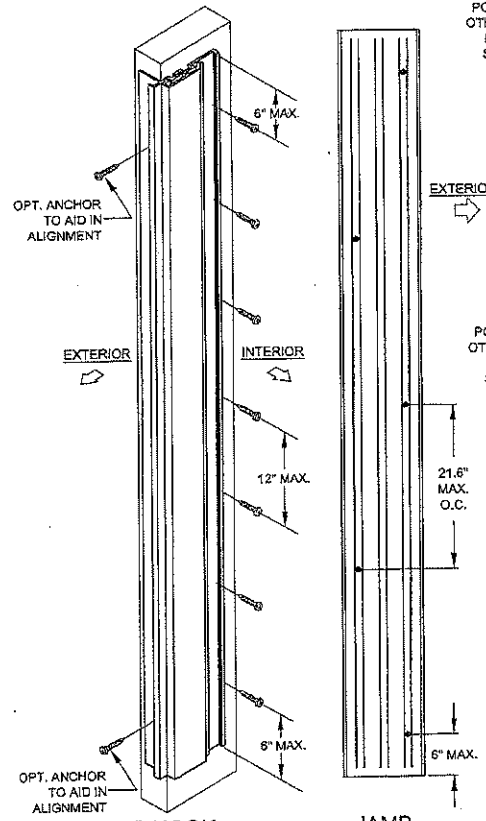
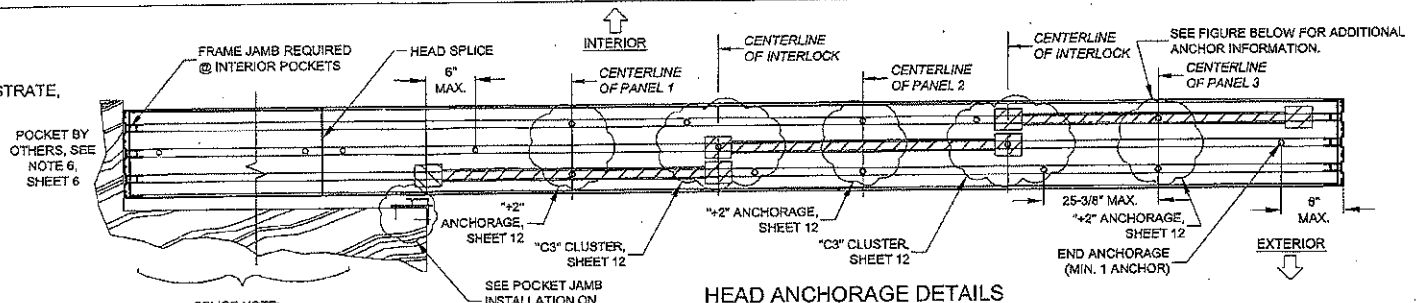
P.E.# 58705

EXAMPLE:
3-PANEL, 3 TRACK, STRAIGHT CONFIGURATION - PXXX,
INTERIOR MOUNT POCKET, 48" X 84" NOM. PANELS,
LAMINATED, IG GLAZING, ANCHOR GROUP A IN WOOD SUBSTRATE,
PROJECT DESIGN PRESSURE REQUIRED: +48.2/-58.6 PSF



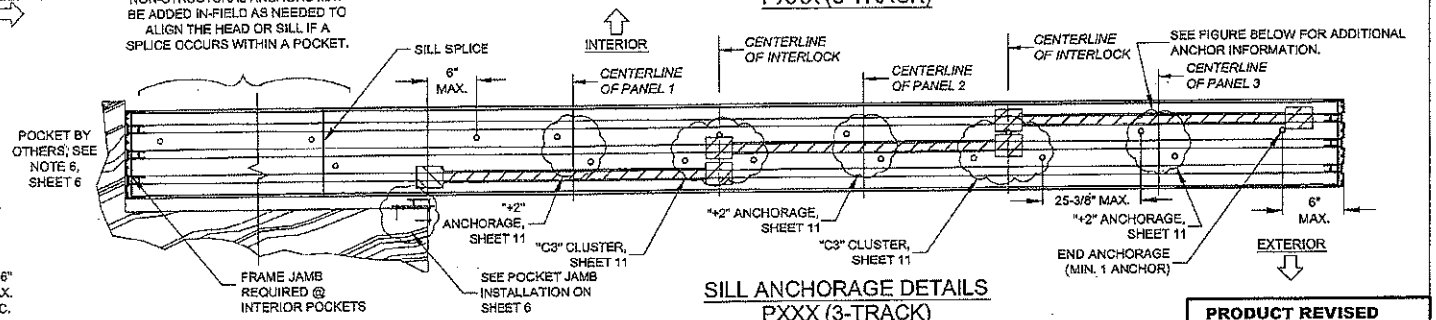
P-HOOK ANCHORAGE DETAILS

JAMB ANCHORAGE DETAILS



SPLICE NOTE:
NON-STRUCTURAL ANCHORS MAY BE ADDED IN-FIELD AS NEEDED TO ALIGN THE HEAD OR SILL IF A SPLICE OCCURS WITHIN A POCKET.

HEAD ANCHORAGE DETAILS
PXXX (3-TRACK)



SILL ANCHORAGE DETAILS
PXXX (3-TRACK)

1) KNOWING THE PRODUCT'S REQUIREMENTS, SCAN THROUGH TABLES 1 & 2 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +48.2/-58.6 AT A NOM. PANEL SIZE OF 48" X 84". FROM TABLE 1, SHEET 7, THE DESIGN PRESSURE IS +60/-60 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

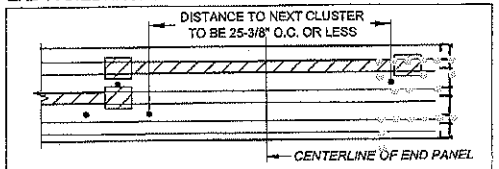
FOR WOOD INSTALLATION USING ANY ANCHOR IN GROUP A (SEE TABLE A), TABLE 1 SHOWS ANCHOR REQUIREMENTS OF:

Head/Sill	C3+2
Jamb	5
P-hook	7

2) ANCHOR LOCATION DETAILS, CAN BE FOUND ON:
HEAD (CLUSTER ANCHORS): SHEET 12 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK/ASTRAGAL.
HEAD (INTERMEDIATE ANCHORS): SHEET 12 FOR THE "+2 ANCHORS AT THE MIDSPAN OF EACH PANEL.
SILL (CLUSTER ANCHORS): SHEET 11 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK/ASTRAGAL.
SILL (INTERMEDIATE ANCHORS): SHEET 11 FOR THE "+2 ANCHORS AT THE MIDSPAN OF EACH PANEL.
JAMB: 5 ANCHORS, SHEET 13 FOR GEN. LAYOUT.
P-HOOK: 7 ANCHORS, SHEET 13 FOR GENERAL LAYOUT.

3) INSTALLATION DETAILS INTO WOOD CAN BE FOUND ON:
HEAD & SILL: SHEET 4
JAMB: SHEET 3
P-HOOK: SHEET 6

END PANEL ANCHOR EXCEPTION:



FOR SILL (SHOWN) AND HEAD, ANCHORS AT THE MIDPOINT OF END PANELS ARE ONLY REQUIRED IF THE O.C. DISTANCE TO THE NEXT ANCHOR CLUSTER IS OVER 25-3/8", OTHERWISE ANCHORS ARE NOT REQUIRED AS PER THE FIGURE ABOVE:

FOR PRODUCT REFERENCES, ALSO SEE:
A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS-SECTION DRAWINGS.
B) SHEET 10 FOR SPECIFIC GLAZING TYPES.
C) SHEET 17 FOR ALLOWABLE PANEL TYPES AND CALL NAMES.
D) SHEETS 4 & 18 FOR EXTRUSION CROSS-SECTION DRAWINGS.
E) SHEET 19 FOR INSTALLATION OF ADDITIONAL ACCESSORIES.
F) SHEET 21 FOR A BILL OF MATERIALS.

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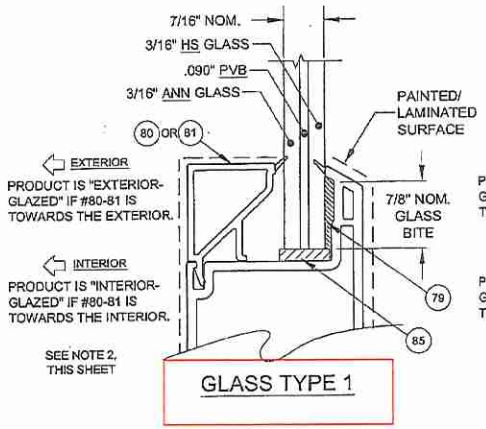
N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS DOOR NOA (LM)	Dt'g	10/05/15
Desc.	STRAIGHT DOOR EXAMPLE	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	

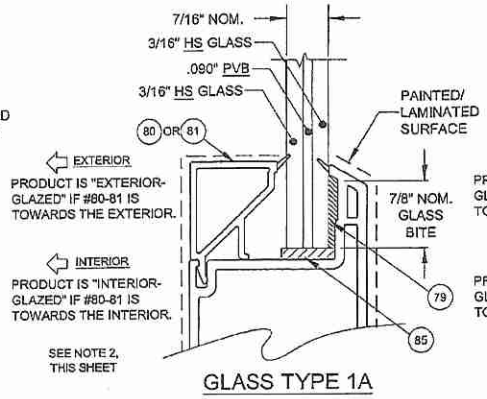
Sadjw	SGD-5570	Scale	NTS	Sheet	9 OF 21	DWG No.	MD-5570.0	Rev. No.	A

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

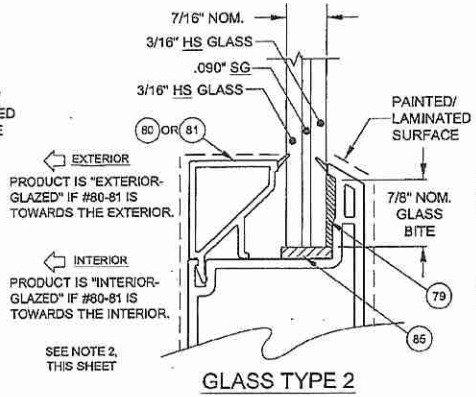
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705



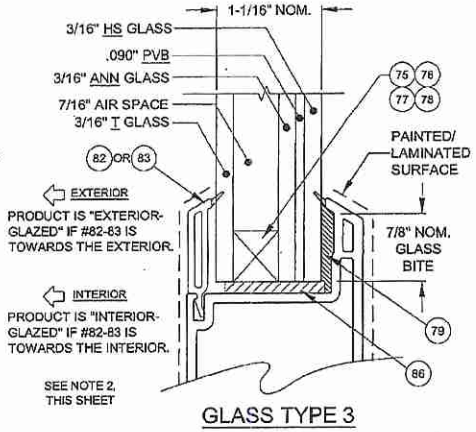
GLASS TYPE 1



GLASS TYPE 1A

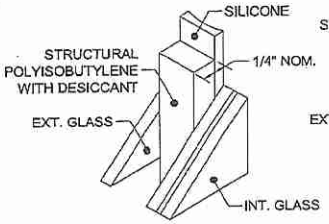


GLASS TYPE 2

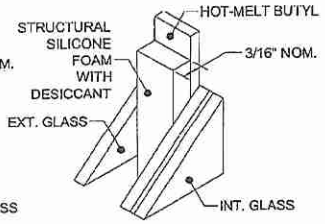


GLASS TYPE 3

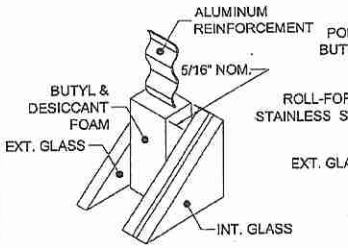
"ANN" = ANNEALED
"HS" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.



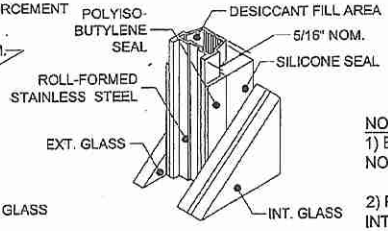
75 KODISPACE 4SG TPS



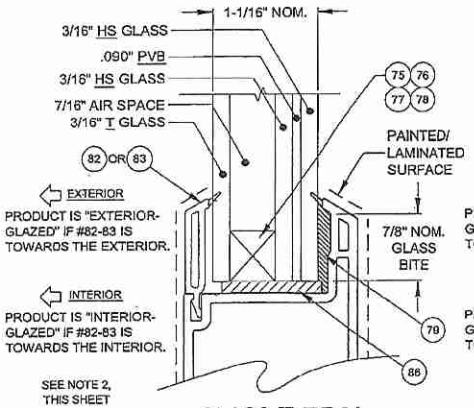
76 SUPER SPACER® NXT™



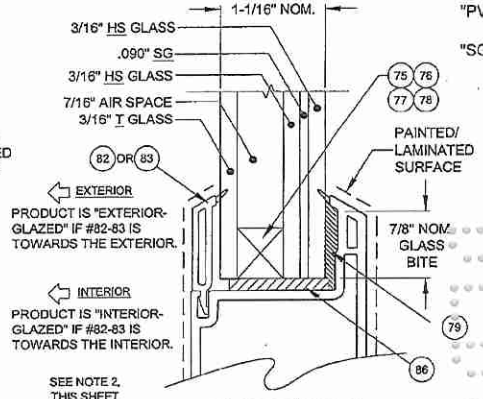
77 DURASEAL® SPACER



78 XL EDGE™ SPACER



GLASS TYPE 3A



GLASS TYPE 4

NOTES:
1) BACKBEDDING SURFACES SHALL NOT BE PAINTED OR LAMINATED.

2) PRODUCT MAY BE EITHER INTERIOR OR EXTERIOR GLAZED, PROVIDED THAT THE "HS" SURFACE OF A LAMINATED GLAZING UNIT IS ADHERED TO THE GLAZING LEG.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
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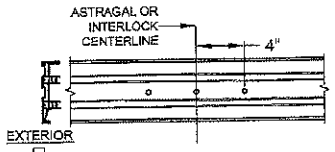
N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29296

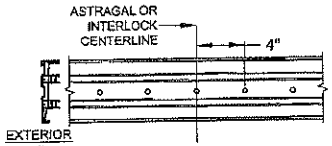
Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Desc.	GLAZING DETAILS	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	

Series	SGD-5570	Scale	NTS	Sheet	10 OF 21	DWG No.	MD-5570.0	Rev. No.	A

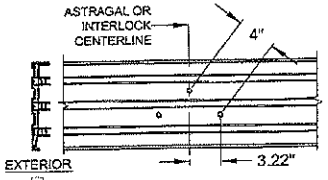
SILL CLUSTER ANCHORS LAYOUT:



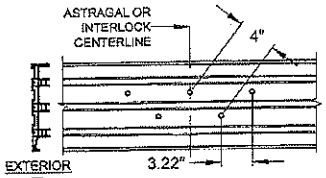
2-TRACK CLUSTER "C3" ANCHOR LOCATIONS



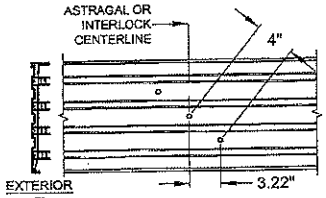
2-TRACK CLUSTER "C5" ANCHOR LOCATIONS



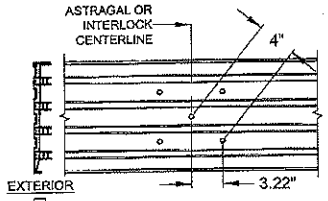
3-TRACK CLUSTER "C3" ANCHOR LOCATIONS



3-TRACK CLUSTER "C5" ANCHOR LOCATIONS



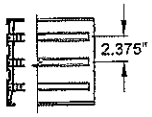
4-TRACK CLUSTER "C3" ANCHOR LOCATIONS



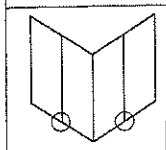
4-TRACK CLUSTER "C5" ANCHOR LOCATIONS

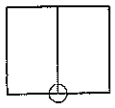
NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:



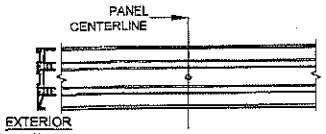
FIGURES PERTAIN TO THE FOLLOWING SILL CLUSTER ANCHOR LOCATIONS:



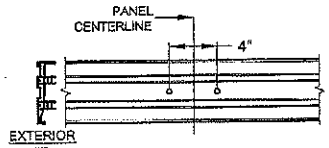


Head/Sill	C3+1
Jamb	5
P-hook	7

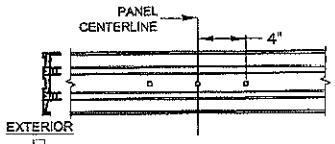
SILL "+" INTERMEDIATE ANCHORS LAYOUT:



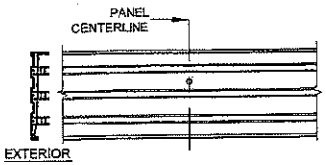
2-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



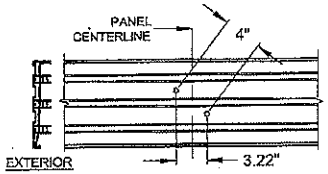
2-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



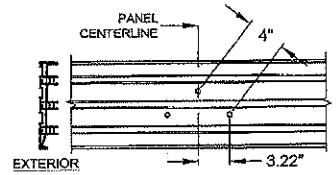
2-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS



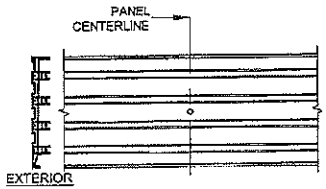
3-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



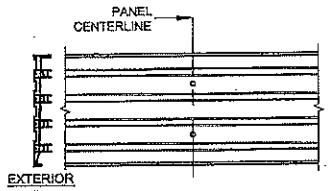
3-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



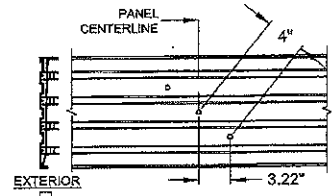
3-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS



4-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



4-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS

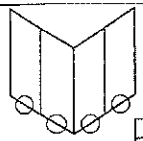


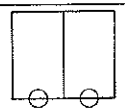
4-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:

FIGURES PERTAIN TO THE FOLLOWING SILL INTERMEDIATE ANCHOR LOCATIONS:





Head/Sill	C3+1
Jamb	5
P-hook	7

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
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Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
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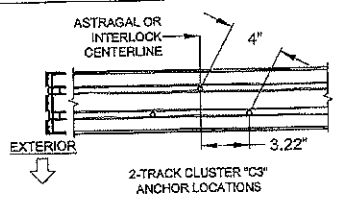
N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29206

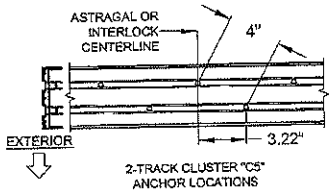
Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Desc.	ANCHOR LOCATIONS A	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET:	Rev Date	04/05/17
Rev		Rev Date	

Series	SGD-5570	Scale	NTS	Sheet	11 OF 21	DWG No.	MD-5570.0	Rev. No.	A

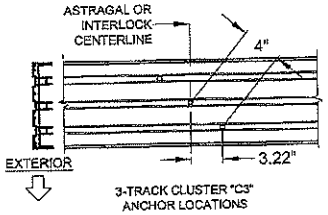
HEAD CLUSTER ANCHORS LAYOUT:



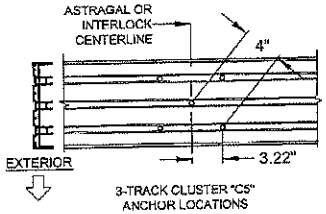
2-TRACK CLUSTER "C3" ANCHOR LOCATIONS



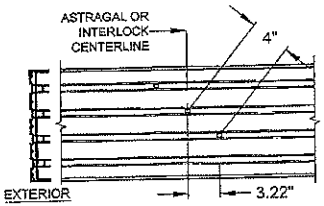
2-TRACK CLUSTER "C5" ANCHOR LOCATIONS



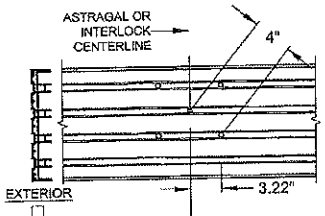
3-TRACK CLUSTER "C3" ANCHOR LOCATIONS



3-TRACK CLUSTER "C5" ANCHOR LOCATIONS



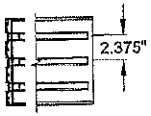
4-TRACK CLUSTER "C3"ANCHOR LOCATIONS



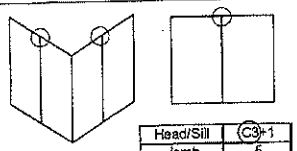
4-TRACK CLUSTER "C5"ANCHOR LOCATIONS

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:

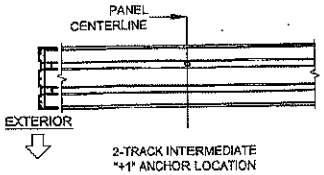


FIGURES PERTAIN TO THE FOLLOWING HEAD CLUSTER ANCHOR LOCATIONS:

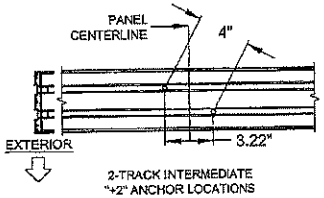


Head/Sill	C3+1
Jamb	5
P-hook	7

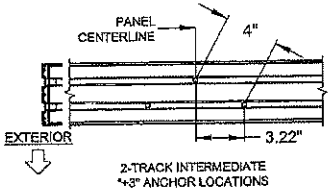
HEAD "+" INTERMEDIATE ANCHORS LAYOUT:



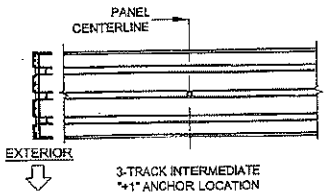
2-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



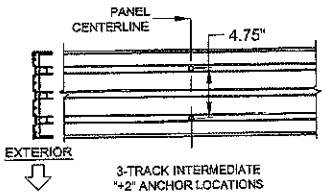
2-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



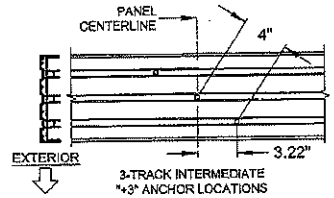
2-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS



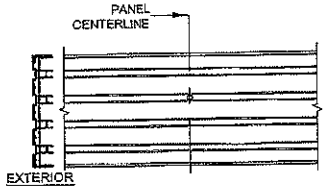
3-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



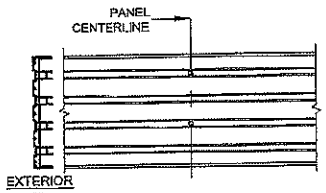
3-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



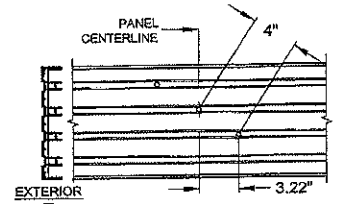
3-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS



4-TRACK INTERMEDIATE "+1" ANCHOR LOCATION



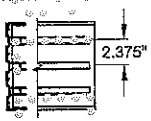
4-TRACK INTERMEDIATE "+2" ANCHOR LOCATIONS



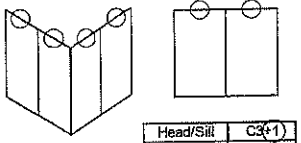
4-TRACK INTERMEDIATE "+3" ANCHOR LOCATIONS

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:



FIGURES PERTAIN TO THE FOLLOWING HEAD INTERMEDIATE ANCHOR LOCATIONS:



Head/Sill	C3+1
Jamb	5
P-hook	7

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
5/18/17

A. LYNN MILLER, P.E.
P.E.# 58705

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1070 TECHNOLOGY DR
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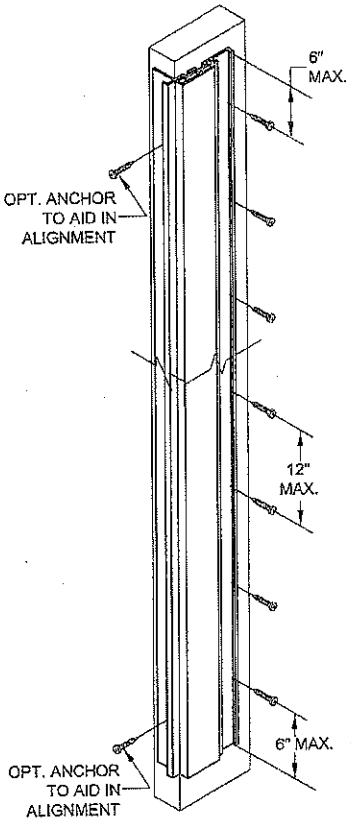
CERT. OF AUTH. #29298

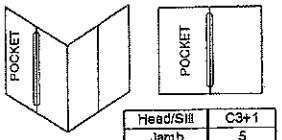
Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Desc.	ANCHOR LOCATIONS B	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Series	SGD-5570	Scale	NTS
Sheet	12 OF 21	DWG No.	MD-5570.0
Rev. No.	A		

P-HOOK ANCHORS LAYOUT:



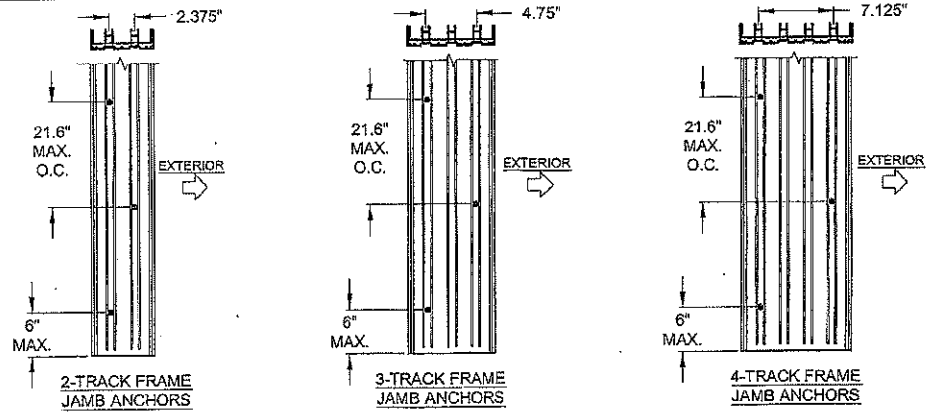
NOTES:
1) SEE TABLES 1 & 2 FOR EXACT QUANTITY OF ANCHORS REQUIRED IN THE P-HOOK.

FIGURES PERTAIN TO THE FOLLOWING POCKET JAMB (P-HOOK) ANCHOR LOCATIONS:

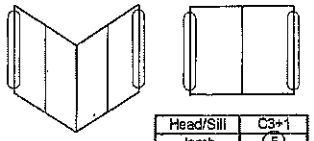


Head/Sill	C3+1
Jamb	5
P-hook	(7)

JAMB ANCHORS LAYOUT, (PARTIAL VIEW):

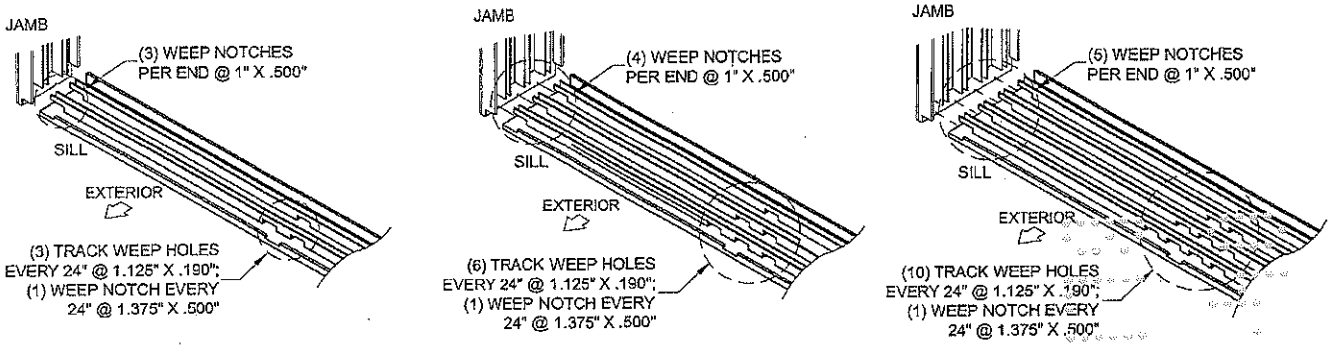


FIGURES PERTAIN TO THE FOLLOWING JAMB ANCHOR LOCATIONS:



Head/Sill	C3+1
Jamb	(5)
P-hook	7

NOTES:
1) STANDARD ANCHOR LOCATIONS SHOWN. FOR 3 AND 4-TRACK JAMBS, ANCHORS MAY BE LOCATED IN ANY ADJACENT TRACK (SIMILAR TO THE 2-TRACK JAMB) AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS. IN CASE OF AN ODD NUMBER OF ANCHORS, THE MAJORITY MAY BE TOWARD THE INTERIOR OR EXTERIOR.



SILL WEEPHOLE LAYOUT (2, 3 & 4 TRACKS)

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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P.E.# 58705

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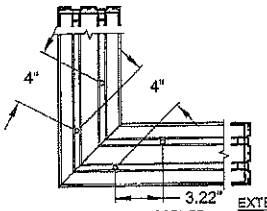
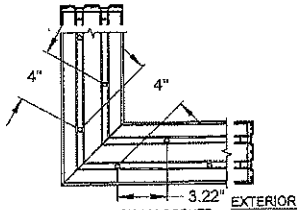
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS DOOR NOA (LM)			Date	10/05/15
Desc.	ANCHOR LOCATIONS C		Drawn By	J ROSOWSKI	
Rev	NO CHANGES THIS SHEET.			Rev Date	04/05/17
Rev				Rev Date	
Series	SGD-5570	Scale NTS	Sheet 13 OF 21	DWG No. MD-5570.0	Rev. No. A

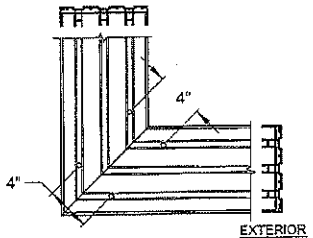
HEAD 90° CORNER CLUSTER ANCHORS LAYOUT:



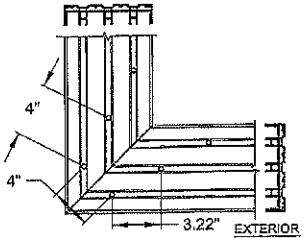
2-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



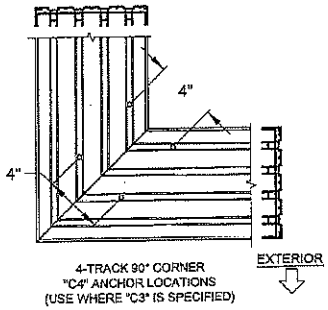
2-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



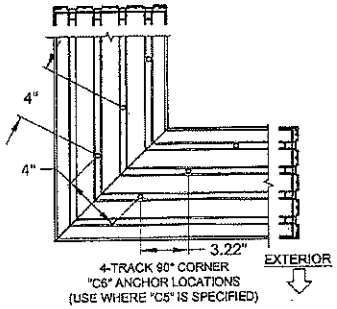
3-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

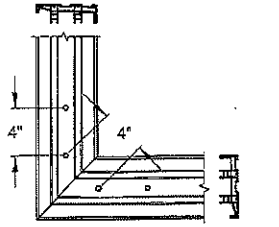


4-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)

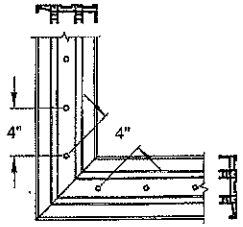


4-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

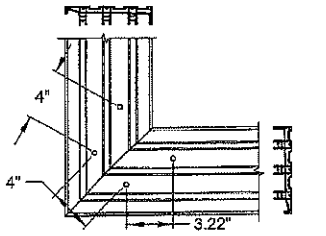
SILL 90° CORNER CLUSTER ANCHORS LAYOUT:



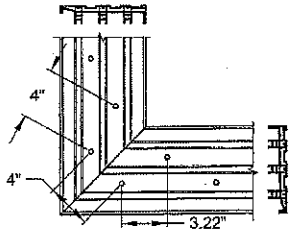
2-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



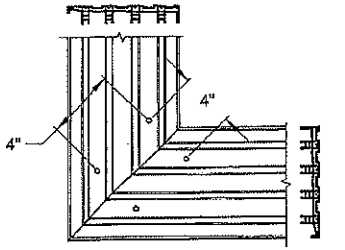
2-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



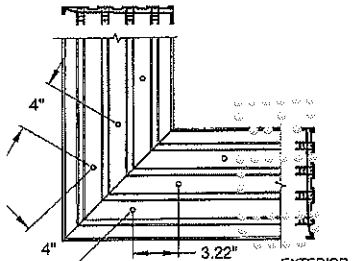
3-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

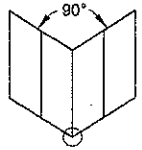


4-TRACK 90° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



4-TRACK 90° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

FIGURES PERTAIN TO THE FOLLOWING 90° CORNER SILL ANCHOR LOCATIONS:

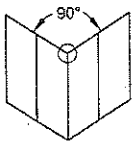


Head/Sill	C3+1
Jamb	6
P-hook	7

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17
A. LYNN MILLER, P.E.
P.E.# 58705

FIGURES PERTAIN TO THE FOLLOWING 90° CORNER HEAD ANCHOR LOCATIONS:

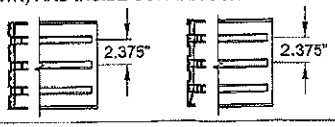


Head/Sill	C3+1
Jamb	6
P-hook	7

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.

3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:



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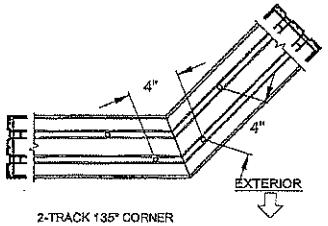
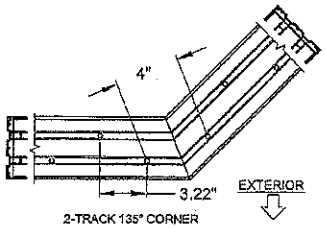
Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Descr.	ANCHOR LOCATIONS D	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Series	SGD-5570	Scale	NTS
Sheet	14 OF 21	DWG No.	MD-5570.0
Rev. No.	A		

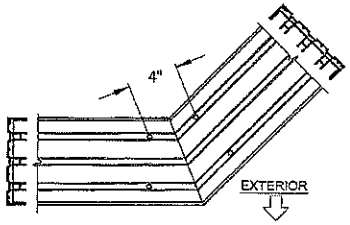
HEAD 135° CORNER CLUSTER ANCHORS LAYOUT:



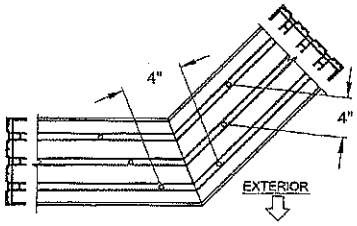
2-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



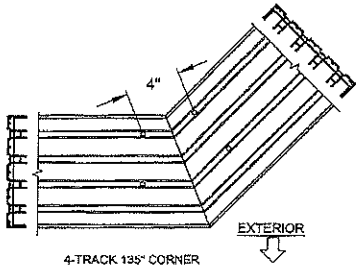
2-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



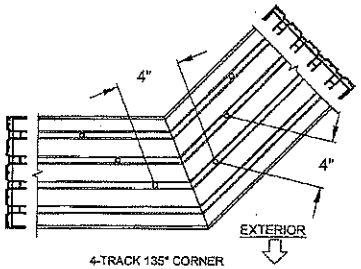
3-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

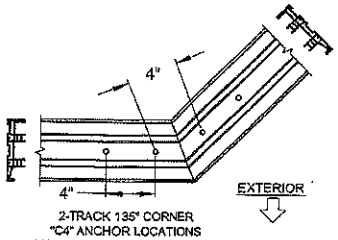


4-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)

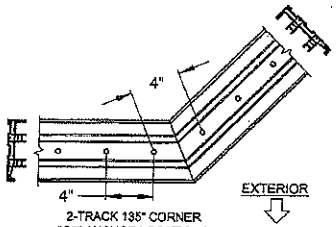


4-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

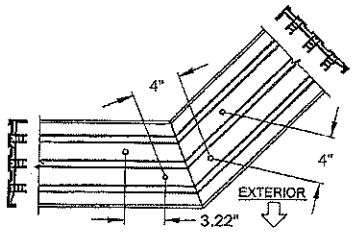
SILL 135° CORNER CLUSTER ANCHORS LAYOUT:



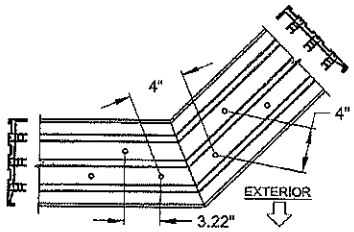
2-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



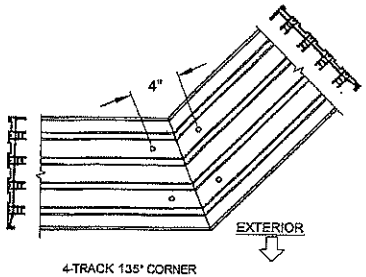
2-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



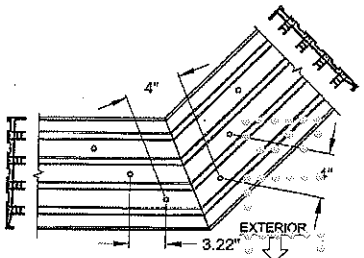
3-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

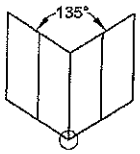


4-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



4-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

FIGURES PERTAIN TO THE FOLLOWING 135° CORNER SILL ANCHOR LOCATIONS:



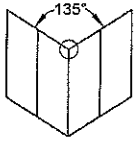
Head/Sill	C3+1
Jamb	5
P-hook	7

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
7/18/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

FIGURES PERTAIN TO THE FOLLOWING 135° CORNER HEAD ANCHOR LOCATIONS:

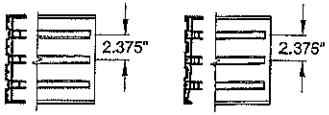


Head/Sill	C3+1
Jamb	5
P-hook	7

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.

3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:



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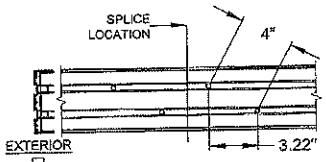
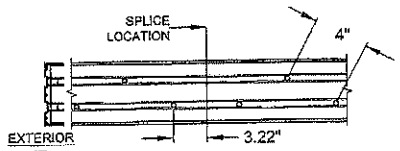
N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS DOOR NOA (EM)	Date	10/05/15
Desc.	ANCHOR LOCATIONS E	Drawn by	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Series	SGD-5570	Scale	NTS
Sheet	15 OF 21	DWG No.	MD-5570.0
Rev. No.	A		

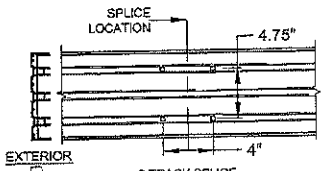
HEAD SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL:



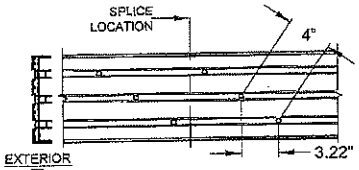
2-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



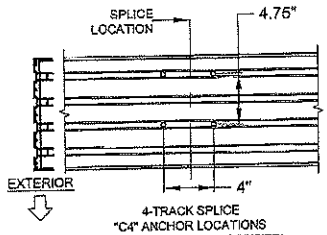
2-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



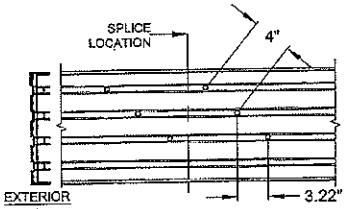
3-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

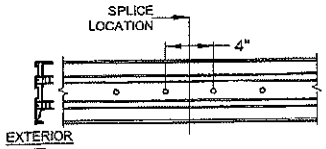


4-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)

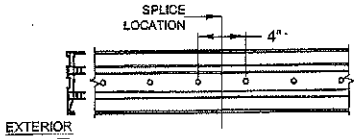


4-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

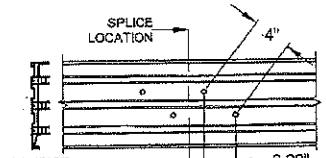
SILL SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL:



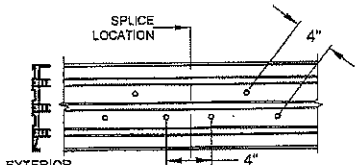
2-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



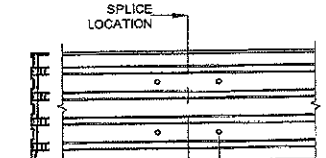
2-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



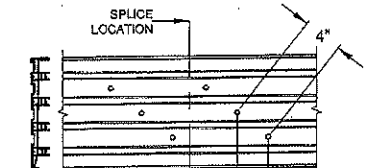
3-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

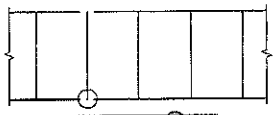


4-TRACK SPLICE
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



4-TRACK SPLICE
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

FIGURES PERTAIN TO THE FOLLOWING SPLICED SILL ANCHOR LOCATIONS:



Head/Sill	(C3)-1
Jamb	5
P-hook	7

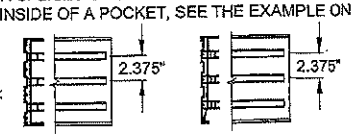
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/18/17
ANTHONY LYNN MILLER, P.E.
P.E.# 58705

NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

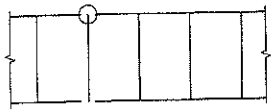
2) ABOVE FIGURES ARE FOR SPLICES OCCURRING AT THE ASTRAGAL OR INTERLOCK. FOR SPLICES OCCURRING INSIDE OF A POCKET, SEE THE EXAMPLE ON SHEET 9.

3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:



4) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

FIGURES PERTAIN TO THE FOLLOWING SPLICED HEAD ANCHOR LOCATIONS:



Head/Sill	(C3)-1
Jamb	5
P-hook	7

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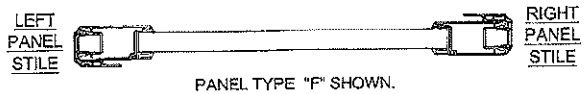
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS DOOR NOA (LM)			Date	10/05/15
Desc.	ANCHOR LOCATIONS F			Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.			Rev Date	04/05/17
Rev				Rev Date	
Series	SGD-5570	Scale NTS	Sheet 16 OF 21	DWG No. MD-5570.0	Rev. No. A

PANEL TYPES INTERIOR OR EXTERIOR GLAZED	PANEL'S RIGHT STILE TYPE									
PANEL'S LEFT STILE TYPE	SINGLE INTERLOCK OUT	SINGLE INTERLOCK IN	FIXED STILE	LOCKSTILE W/ HANDLE	ASTRAGAL BOX OUT	ASTRAGAL BOX IN	OUTSIDE 90° ASTRAGAL RECEIVER	INSIDE 90° ASTRAGAL RECEIVER	OUTSIDE 135° ASTRAGAL RECEIVER	INSIDE 135° ASTRAGAL RECEIVER
SINGLE INTERLOCK OUT	E	F	PP	K	L (BOX OUT)	L (BOX IN)	TC	TA	TV	TW
SINGLE INTERLOCK IN	B	H	P	A	C (BOX OUT)	C (BOX IN)	SC	SA	SV	SW
FIXED STILE	RR	R			S (BOX OUT)	S (BOX IN)	FC	FD	FV	FW
LOCKSTILE W/ HANDLE	D	M			J (BOX OUT)	J (BOX IN)				
ASTRAGAL BOX OUT	LR (BOX OUT)		T (BOX OUT)	U (BOX OUT)						
ASTRAGAL BOX IN		N (BOX IN)	T (BOX IN)	U (BOX IN)						
OUT. 90° ASTRAGAL RECEIVER	CT	CS	CF							
IN. 90° ASTRAGAL RECEIVER	AT	AS	DF							
OUT. 135° ASTRAGAL RECEIVER	VT	VS	VF							
IN. 135° ASTRAGAL RECEIVER	WT	WS	WF							

SCREEN PANEL TYPES

C	DOUBLE INTERLOCK		ASTRAGAL
M	LOCKSTILE		DOUBLE INTERLOCK
J	LOCKSTILE		ASTRAGAL
SD	SINGLE INTERLOCK		DOUBLE INTERLOCK
A	DOUBLE INTERLOCK		LOCKSTILE
U	ASTRAGAL		LOCKSTILE
DS	DOUBLE INTERLOCK		SINGLE INTERLOCK



PANEL TYPE "F" SHOWN.

PANEL NOTES:

1) SEE DP/ANCHOR TABLES 1 & 2, SHEETS 7-8 FOR PANEL SIZES & DESIGN PRESSURE.

2) PANEL TYPES NOT SHOWN ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.

3) MAXIMUM NOMINAL PANEL WIDTH FOR ALL PANEL CONFIGURATIONS IS 60".

4) PANEL TYPE MAY BE EITHER EXTERIOR (STANDARD) OR INTERIOR GLAZED, BOTH TYPES QUALIFIED BY THIS APPROVAL, SEE DETAILS SHEET 10.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

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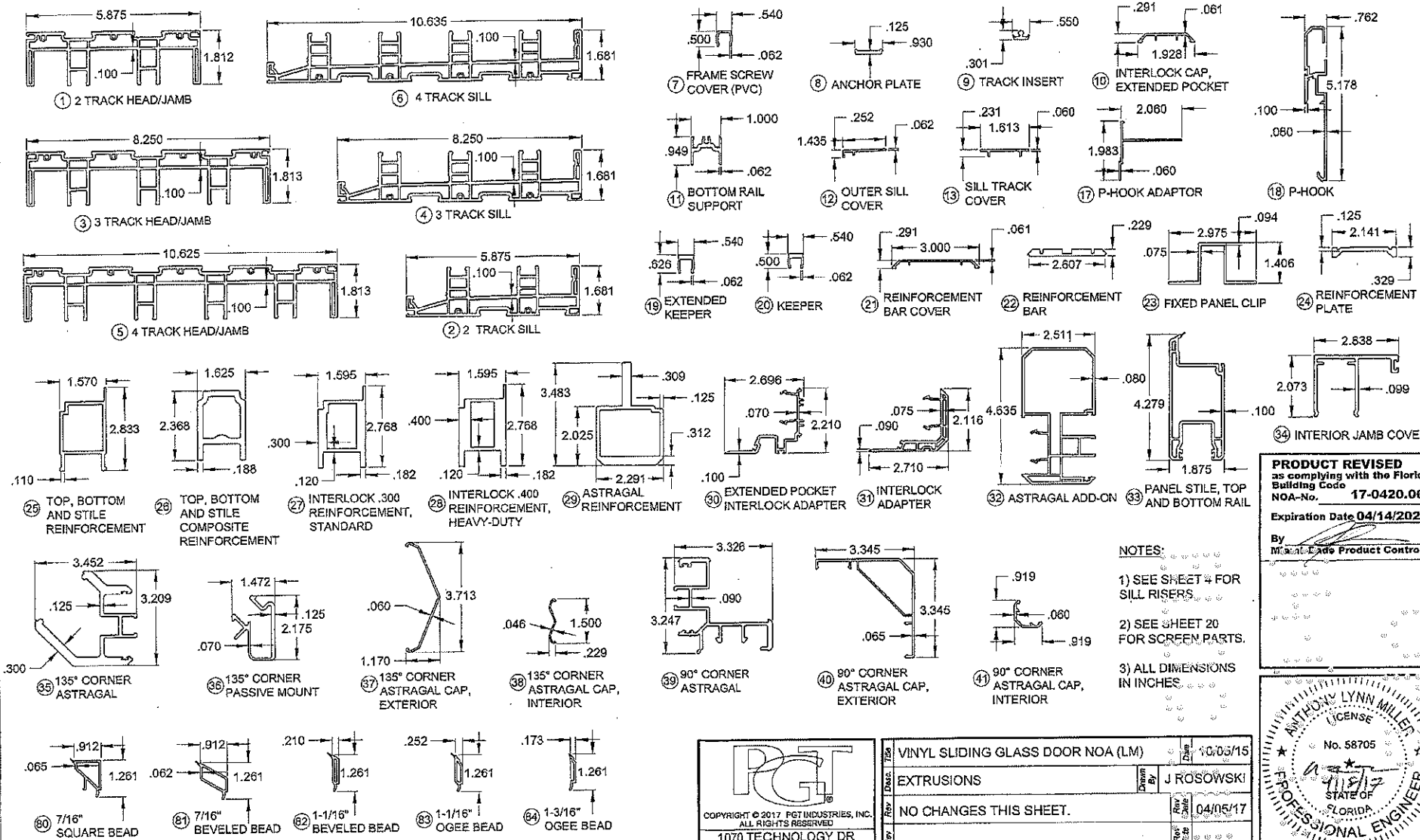
CERT. OF AUTH. #29298

Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Descr.	PANEL TYPES	Drawn By	J ROSOWSKI
Rev.	NO CHANGES THIS SHEET.	Rev. Date	04/05/17
Rev.		Rev. Drawn	

Series	SGD-5570	Scale	NTS	Sheet	17 OF 21	Dwg. No.	MD-5570.0	Rev. No.	A

ANTHONY LYNN MILLER
LICENSE
No. 58705
4/19/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



NOTES:

1) SEE SHEET 4 FOR SILL RISERS.

2) SEE SHEET 20 FOR SCREEN PARTS.

3) ALL DIMENSIONS IN INCHES.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

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P.E.# 58705

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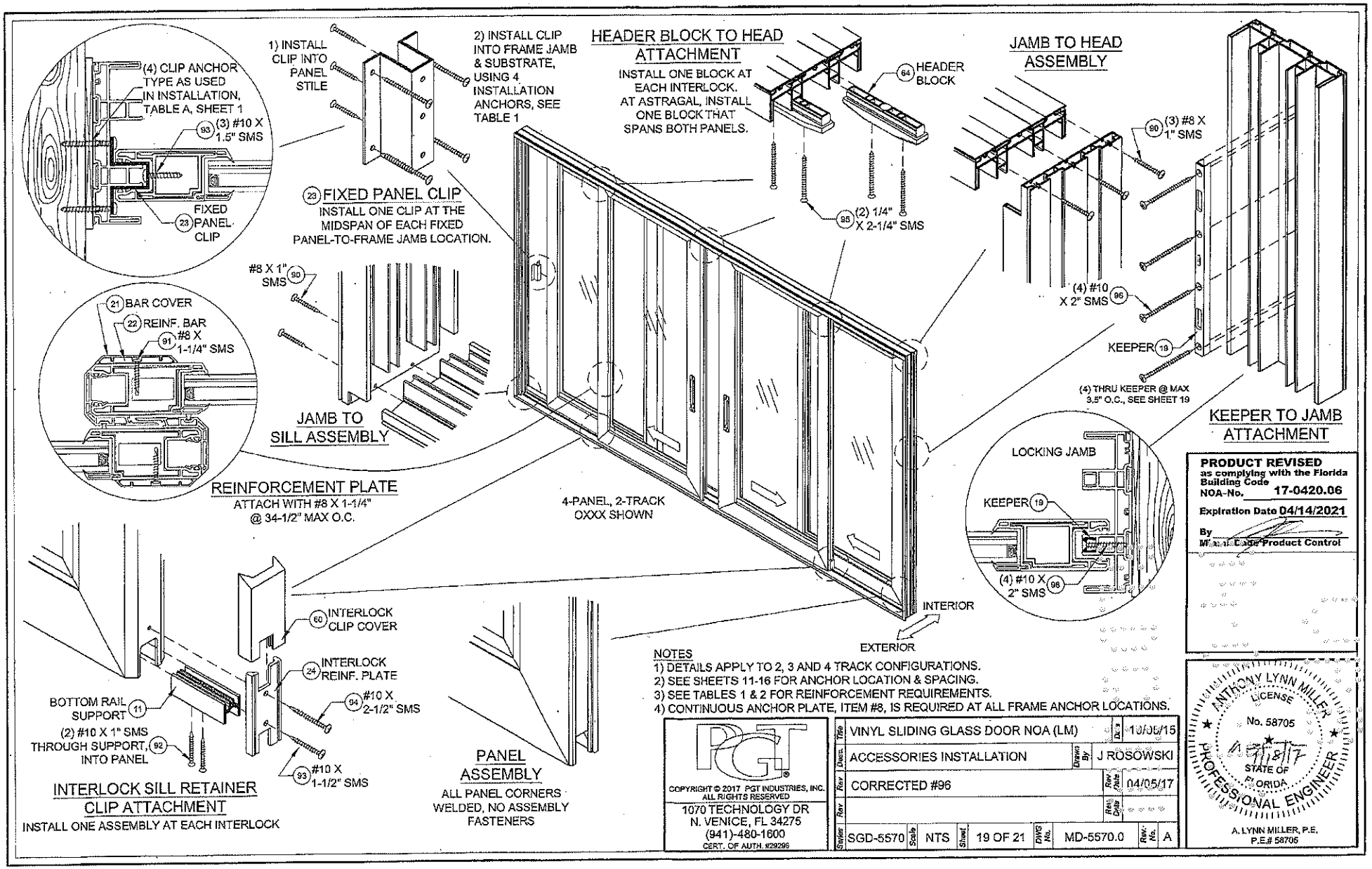
CERT. OF AUTH. #29280

Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Desc.	EXTRUSIONS	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev. Date	04/05/17
Rev		Rev. Eng.	

Series	SGD-5570	Scale	NTS	Sheet	18 OF 21	DWG No.	MD-5570.0	Rev. No.	A



NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING.
3) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

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P.E.# 58705

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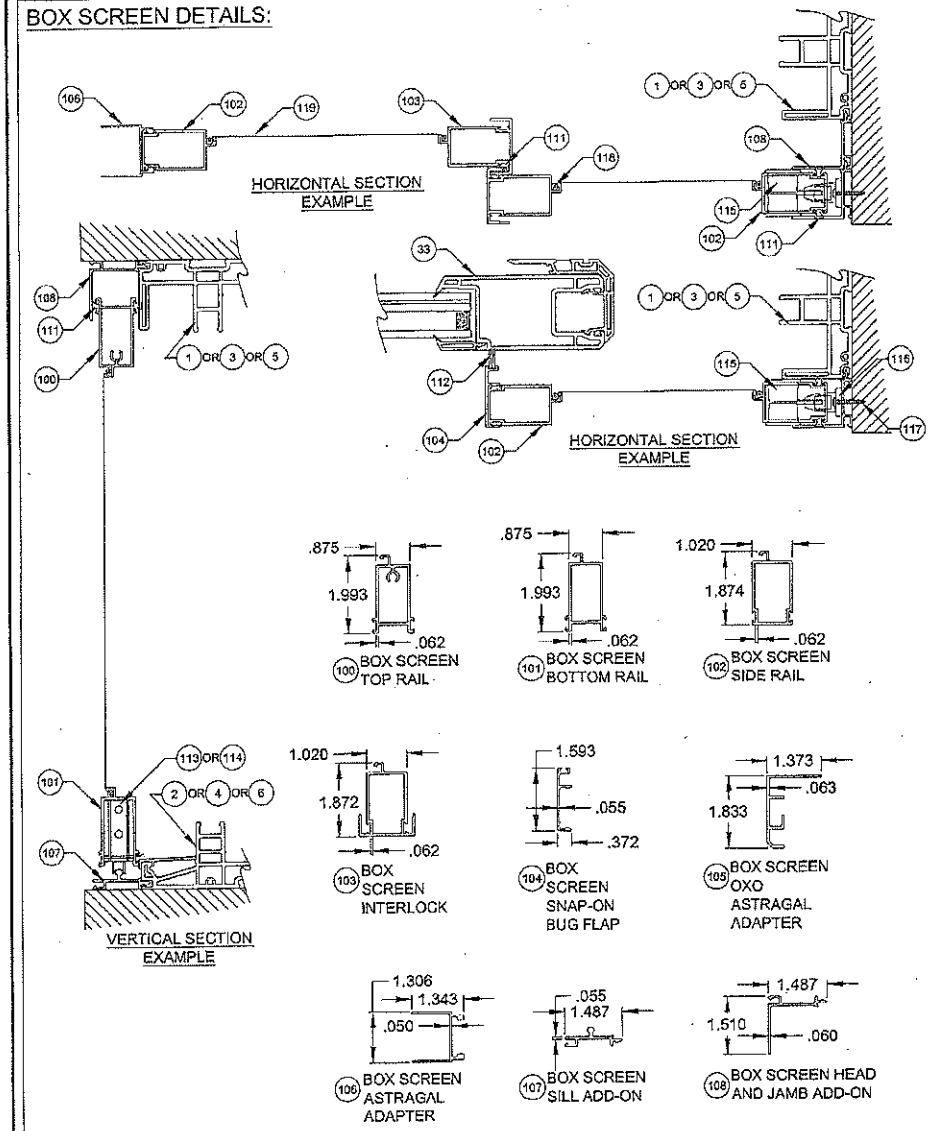
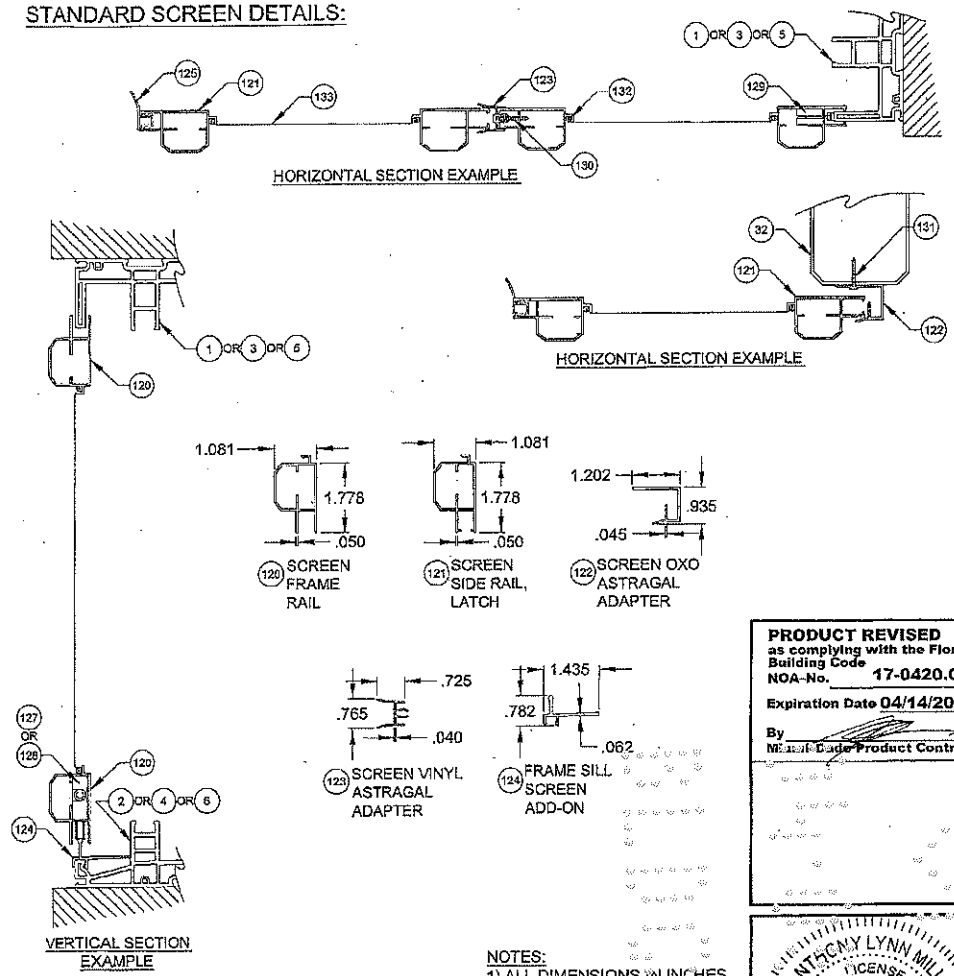
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS DOOR NOA (LM)		Date	10/06/15	
Descr.	ACCESSORIES INSTALLATION	Drawn By	J ROSOWSKI		
Rev	CORRECTED #96	Rev. Date	04/05/17		
Rev		Rev. Date			
Starter	SGD-5570	Scale	NTS	Sheet	19 OF 21
DWG No.	MD-5570.0	Rev. No.	A		

BOX SCREEN DETAILS:



STANDARD SCREEN DETAILS:



NOTES:
1) ALL DIMENSIONS IN INCHES.

PRODUCT REVISED
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NOA-No. 17-0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
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Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Desc.	SCREEN DETAILS	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Drtr	

Series	SGD-5570	Scale	NTS	Sheet	20 OF 21	Dwg No.	MD-5570.0	Rev. No.	A

TABLE C:

#	Part #	Description	Material
1	19001	2-Track Head/Jamb	Rigid PVC
2	19002	2-Track Sill	Rigid PVC
3	19025	3-Track Head/Jamb	Rigid PVC
4	19026	3-Track Sill	Rigid PVC
5	19027	4-Track Head/Jamb	Rigid PVC
6	19028	4-Track Sill	Rigid PVC
7	19009	Frame Screw Cover	Rigid PVC
8	19031	Anchor Plate	6063-T6 Alum.
9	19007	Track Insert	6063-T6 Alum.
10	19084	Interlock Cap - Extended Pocket	Rigid PVC
11	19036	Bottom Rail Support	6063-T6 Alum.
12	19006A	Outer Sill Cover	6063-T6 Alum.
13	19011	Sill Track Cover	Rigid PVC
17	19032	P-Hook Adapter	6063-T6 Alum.
18	19020	P-Hook	6063-T6 Alum.
19	19047M	Extended Keeper	6063-T6 Alum.
20	19029M	Keeper	6063-T6 Alum.
21	19014	Reinforcement Bar Cover	Rigid PVC
22	19030	Reinforcement Bar	6005-T5 Alum.
23	19037M	Fixed Panel Clip	6063-T6 Alum.
24	19035M	Reinforcement Plate	6063-T6 Alum.
25	19017M	Top Rail, Bottom Rail and Lockstile Reinforcement	6005-T5 Alum.
26	19046		Composite
27	19018M	Interlock .300 Reinforcement, Std.	6005-T5 Alum.
28	19013M	Interlock .400 Reinforcement, HD	6005-T5 Alum.
29	19019M	Astragal Reinforcement	6005-T5 Alum.
30	19083	Extended Pocket Interlock Adaptor	6063-T6 Alum.
31	19005	Interlock Adaptor	Rigid PVC
32	19008	Astragal Add-on	Rigid PVC
33	19004	Panel Stile, Top/Bottom Rail	Rigid PVC
34	19040	Interior Jamb Cover	6063-T6 Alum.
35	19076	135° Corner Astragal	6063-T6 Alum.
36	19077	135° Corner Astragal Passive Mount	6063-T6 Alum.
37	19079	135° Corner Astragal Cap - Ext.	Rigid PVC
38	19080	135° Corner Astragal Cap - Int.	Rigid PVC
39	19078	90° Corner Astragal	6063-T6 Alum.
40	19081	90° Corner Astragal Cap - Ext.	Rigid PVC
41	19082	90° Corner Astragal Cap - Int.	Rigid PVC

#	Part #	Description	Material
42	19085	Sill Riser - (2-1/2")	6063-T6 Alum.
43	19022A	Sill Riser - (3-1/2")	6063-T6 Alum.
44	19023A	Sill Riser - (4-1/16")	6063-T6 Alum.
45	19024A	Sill Riser - (4-5/8")	6063-T6 Alum.
50	718609W	.187" x .320" Finseal (Stile)	
51	71695K	1-1/2" x 1" x 3/4" Fin Seal Dust Plug	
52	71696	Dust Plug	
60	419041	Interlock Clip Cover	PVC
61	78153X	Tandem Roller Assembly	SS
62	78153N	Tandem Roller Assembly	Nylon
63	78X75FPTX	#8 x 3/4" Ph. FH SMS @ Roller & Reinf.	SS
64	419042	Frame Header Block	Nylon
65	48052	Roller Adj. Hole Plug	PVC
66	44385	4 Hole Bumper Stop	PVC
67	76X114FPTX	#8 x 1-1/4" Ph. FH SMS @Bumper Stop	SS
68	71696G	Sill Plug	PVC
69	78185X	Gemini Mortise Lock w/long Trim plate	Steel/SS
70	71032X1FPFX	10-32 x 1" Ph.FH MS @ Lock	SS
71	varies	Handle Kit	Cast Zinc
72	19054	Interlock Retainer Clip	Nylon
75		Kommerling 4SG TPS Spacer System	See Sheet 10 for Materials
76		Quanex Super Spacer nXT with Hot Melt Butyl	
77		Quanex Duraseal	
78		Cardinal XL Edge Spacer	
79		Dow Corning 995 or GE-7700 Backbedding	Silicone
80	19090	7/16" Square Bead	Rigid PVC
81		7/16" Beveled Bead	Rigid PVC
82	19044	1-1/16" Beveled Bead	Rigid PVC
83	19045	1-1/16" Ogee Bead	Rigid PVC
84	19016	1-3/16" Ogee Bead	Rigid PVC
85	71725K	Setting Block 1/2" x 4" x 1/16", 85 +/- 5 duro.	Neoprene
88	71726K	Setting Block 1" x 4" x 1/16", 85 +/- 5 duro.	Neoprene
90	781PSTX	#8 x 1" Ph. PH SMS @ Frame Assembly	SS
91	78X114PHPT410X	#8 x 1-1/4" Ph. PH SMS @ Reinf. Bar	SS
92	710X1PHPT18-8X	#10 x 1" Ph. PH SMS @ Rail Support	SS
93	710X115PPX	#10 x 1-1/2" Ph. PH SMS @ Fxd. Pnl. Clip	SS
94	710X2.5PHPT18-8X	#10 x 2-1/2" Ph. PH SMS @ Reinf. Plate/Ast.	SS
95	71420X2.25FPFX	#12 x 2-1/4" Ph. PH SMS @ Hdr. Block	SS
96	710X1.75PPX	#10 x 1-3/4" Ph. FH SMS @ Ast. Mount	SS
97	710X34PPX	#10 x 3/4" Ph. PH SMS @ Ext. Pkt. Int.	SS
98	710X2PPX	#10 x 2" Ph. FH SMS @ Keeper	SS

TABLE D: BOX SCREEN

#	Part #	Description	Material
100	12256	Box Screen Top Rail	6063 T5 Al
101	12257	Box Screen Bottom Rail	6063 T5 Al
102	12258	Box Screen Side Rail	6063 T5 Al
103	64428	Box Screen Interlock	6063 T6 Al
104	17347A	Box Screen Snap-on Bug Flap	6063 T6 Al
105	64345	Box Screen OXO Astragal Adapter	6063 T6 Al
106	17349	Box Screen Astragal Adapter	6063 T5 Al
107	19039	Box Screen Frame Sill Add-on	6063 T6 Al
108	19038	Box Screen Head/Jamb Add-on	6063 T6 Al
109	720X1X	#14-20 x 1" MS @ Top Rail	SS
110	720X112X	#14-20 x 1-1/2" MS @ Bottom Rail	SS
111	71793G	Wstp, .270" x .150" - Fin Seal	
112	61805K	Wstp, .187" x .500" @ Bug Flap	
113	7SRAZ	Standard Roller	Nylon
114	7SRAX	HD Roller	SS
115	varies	Screen Locking Hardware	Steel
116	419053	Screen Keeper	Steel
117	76X1PPA	#8 x 1" Ph. PH SMS	Steel
118	1692/3/4	Screen Spline - .150" & .165"	Vinyl
119	1816C20	Screen Cloth	Fiberglass

TABLE E: STANDARD SCREEN

#	Part #	Description	Material
120	12033	Screen Frame Rail	6063 T5 Al
121	12026A	Screen Frame - Side Rail (Latch)	6063 T5 Al
122	17363	Screen OXO Astragal Adapter	6063 T6 Al
123	4853K	Screen Vinyl Astragal Adapter	Rigid PVC
124	19012B	Frame Sill Screen Add-on	6063 T6 Al
125	8FP95K	Bug Flap, 85 +/- 5 duro.	Vinyl
126	78X112PSATS	#8 x 1-1/2" Ph. PH SMS (Assembly)	SS
127	712027	Corner Key Wheel Assembly (Standard)	Nylon
128	712027SS	Corner Key Wheel Assembly (HD)	SS
129	varies	Screen Locking Hardware	Steel
130	710X34PPSDAX	#10 x 3/4" Ph. PH SMS @ Screen Ast.	SS
131	78X12PPSMSX	#8 x 1/2" Ph. PH SMS @ Door Ast.	SS
132	1692/3/4	Screen Spline - .145"	Vinyl
133	1816C20	Screen Cloth	Fiberglass

NOTES:
1) ITEMS #14-16, 46-49, 53-59, 73, 74 & 87-89 & 99 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

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1070 TECHNOLOGY DR
N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #29296

Title	VINYL SLIDING GLASS DOOR NOA (LM)	Date	10/05/15
Desc.	PARTS LIST	Drawn By	J ROSOWSKI
Rev	NO CHANGES THIS SHEET.	Rev Date	04/05/17
Rev		Rev Date	
Series	SGD-5570	Scale	NTS
Sheet	21 OF 21	DWG No.	MD-5570.0
Rev. No.	A		

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17.0420.06
Expiration Date 04/14/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "HR-5510" PVC Horizontal Rolling Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-HR5510-01** titled "Horizontal Roller - LM", sheets 1 through 18 of 18, dated 05/15/15, with revision B dated 03/27/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA# 16-0714.17** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P.E.**

MIAMI-DADE COUNTY APPROVED

8/23/17

NOA No. 17-0411.08
Expiration Date: September 24, 2020
Approval Date: August 31, 2017

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No.15-0903.10)
2. Drawing No. **MD-HR5510-01** titled "Horizontal Roller - LM", sheets 1 through 18 of 18, dated 05/15/15, with revision B dated 03/27/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal® spacer system, Super Spacer® NXT™ spacer system and XL Edge™ spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717, FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.
   (Submitted under previous NOA No. 16-0714.17)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
   5) Large Missile Impact Test per FBC, TAS 201-94
   6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of series 5410 and series 5510 PVC horizontal sliding windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8072**, dated 02/03/15, signed and sealed by Idalmis Ortega, P.E.
   (Submitted under NOA No.15-0903.10)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
   5) Large Missile Impact Test per FBC, TAS 201-94
   6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of series 5510 PVC horizontal sliding windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8073**, dated 02/18/15, signed and sealed by Idalmis Ortega, P.E.
   (Submitted under NOA No.15-0903.10)

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0411.08
Expiration Date: September 24, 2020
Approval Date: August 31, 2017

B. TESTS (CONTINUED)

4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of series 5510 PVC horizontal sliding windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8074**, dated 11/06/14, signed and sealed by Idalmis Ortega, P.E.
   (Submitted under NOA No.15-0903.10)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 08/28/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
   (Submitted under NOA No.15-0903.10)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their **"Trosifol® Ultraclear, Clear, and Color PVB Glass Interlayers"** dated 01/19/17, expiring on 07/08/19.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 06/25/15, expiring on 07/04/18.
3. Notice of Acceptance No. **16-0712.03** issued to ENERGI Fenestration Solutions USA for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 08/10/17, expiring on 02/28/18.
4. Notice of Acceptance No. **16-0712.04** issued to ENERGI Fenestration Solutions USA, Inc. for their "**Bronze and Lighter Shades of Cap Coated White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 09/15/16, expiring on 04/16/20.
5. Notice of Acceptance No. **16-0712.05** issued to ENERGI Fenestration Solutions USA, Inc. for their "**Performance Core Rigid PVC Exterior Extrusions for Windows and Doors**" dated 09/15/16, expiring on 04/16/20.

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0411.08
Expiration Date: September 24, 2020
Approval Date: August 31, 2017

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

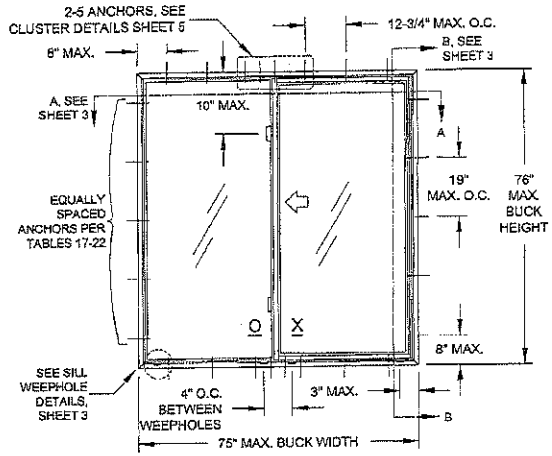
1. Statement letter of conformance, complying with **FBC-5th Edition (2014)** and **FBC-6th Edition (2017)**, dated 08/02/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated 03/31/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.
   (Submitted under previous NOA No. 16-0714.17)
4. Proposal issued by Product Control, dated 8/27/14 and revised on 9/10/14, signed by Jaime Gascon, P.E. Supervisor, Product Control Section.
   (Submitted under NOA No.15-0903.10)

E. OTHERS

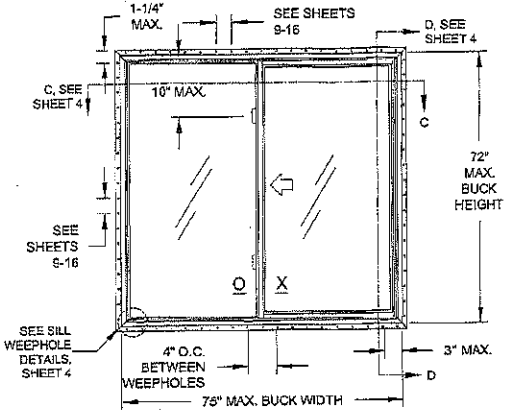
1. Notice of Acceptance No. **16-0714.17**, issued to PGT Industries, Inc. for their Series "HR-5510" PVC Horizontal Rolling Window - L.M.I., approved on 09/01/17 and expiring on 09/24/20.

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0411.08
Expiration Date: September 24, 2020
Approval Date: August 31, 2017

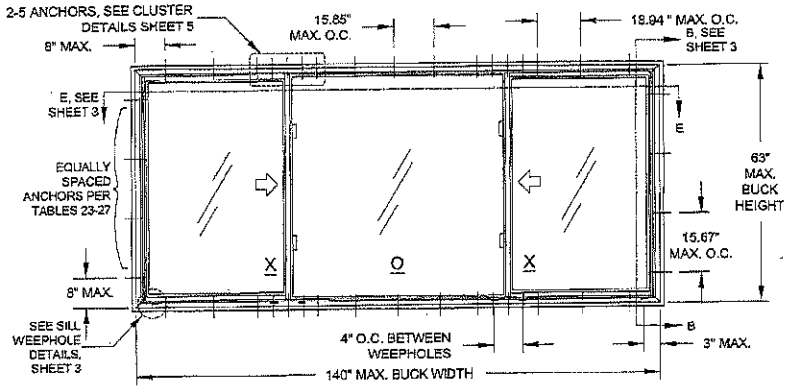
DESIGN PRESSURE RATING	IMPACT RATING
VARIES PER REINFORCEMENT LEVEL, SEE SHEETS 6-8	LARGE & SMALL MISSILE IMPACT RESISTANT



ELEVATION FOR TYP. EQUAL LEG FRAME SHOWN AS OX CONFIGURATION



ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME SHOWN AS OX CONFIGURATION ANCHORED THROUGH THE NAIL-FIN



ELEVATION FOR TYP. FLANGE FRAME SHOWN AS XOX CONFIGURATION

CODES / STANDARDS USED:

- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-12
- AISC 360-10

GENERAL NOTES: SERIES 5510 IMPACT RESISTANT HORIZONTAL ROLLER

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED .
3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.
4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).
5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
6) 1/4" MAX. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.
7) DESIGN PRESSURES:
   A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
   B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
   C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
9) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
10) REFERENCES: TEST REPORTS FTL-8072, 8073 & 8074; ELCO ULTRACON NOA; ELCO CRETEFLEX NOA; ELCO ASGRE-GATOR NOA; ENERGI WINDOW AND DOOR PROFILES, LTD WHITE & BRONZE/LIGHTER SHADES OF CAP COATED PVC EXTRUSION NOA'S; NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ANSI/AF&PA NDS & ALUMINUM DESIGN MANUAL
11) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

GENERAL NOTES..... 1
ELEVATIONS..... 1
FRAME, GLASS & ANCHOR OPTIONS..... 2
INSTALLATION, FLANGE & EQUAL LEG/BOX..... 3
INSTALLATION, INTEGRAL FIN & J-CHANNEL..... 4
GLAZING DETAILS..... 5
DESIGN PRESSURES..... 6-8
ANCHOR QUANTITIES..... 9-16
EXTRUSION PROFILES & BOM..... 17
ASSEMBLY..... 18

USER INSTRUCTIONS:

1) DETERMINE THE SITE SPECIFIC, WINDOW OPENING'S DESIGN PRESSURE REQUIREMENT USING WINDLOAD STANDARD ASCE 7.
2) KNOWING YOUR FRAME TYPE, WINDOW CONFIGURATION (OX, XO, XOX), SIZE, GLAZING OPTION FROM (TABLE 1) AND REINFORCEMENT LEVEL, DETERMINE YOUR WINDOW'S DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING USING TABLES 6-16 (SHEETS 6-8). IT MUST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1. USE INDEX TABLE 5 ON SHEET 6 TO HELP FIND THE APPROPRIATE TABLE.
3) DETERMINE THE MOST SUITABLE ANCHOR GROUP FROM TABLES 2 AND 3 ON SHEET 2 ACCORDING TO THE INSTALLATION CONDITIONS.
4) DETERMINE THE ANCHOR QUANTITY FROM TABLES 17-27 (SHEETS 9-16), VERIFY THE ANCHOR/SUBSTRATE WILL MEET REQUIREMENTS FOR YOUR OPENING'S CONDITION FROM TABLES 2 OR 3, AND THAT ALL MIN. REQUIREMENTS FROM THIS SHEET SET ARE MET.
5) INSTALL AS PER SHEET 3 FOR FLANGE/EQUAL LEG INSTALLATION OR SHEET 4 FOR INTEGRAL FIN/J-CHANNEL INSTALLATION. USE TABLE 4 ON SHEET 2 TO FIND THE APPROPRIATE DETAILS.

NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (J-CHANNEL, FLANGE, INTEGRAL FIN OR EQUAL LEG/BOX). SEE FIGURE B ON SHEET 2.

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/31/17
A. LYNN MILLER, P.E.
P.E.# 58705

PRODUCT REVISED as complying with the Florida Building Code
NOA No. 17-0411.08
Expiration Date 09/24/2020
By Miami-Dade Product Control

Revised By:	Date:	Revision:
JR	03/27/17	UPDATED TO FBC 2017. ADDED NOTE TO ANCHOR QTY. TBLS.
Revised By:	Date:	Revision:

PGT®
1070 TECHNOLOGY DRIVE
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CERT. OF AUTH. #29296

Description:	Drawn By:
GENERAL NOTES & ELEVATION	J. ROSOWSKI
Title: HORIZONTAL ROLLER - LM	Date: 05/15/15

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
HR-5510	NTS	1 OF 18	MD-HR5510-01	B

TABLE 1: ALLOWABLE GLASS TYPES

Glass Type	Description (Listed from Exterior to Interior)
5	7/8" Laminated I.G.: 1/8" A Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer
6	7/8" Laminated I.G.: 1/8" T Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer
7	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer
8	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer
10	7/8" Laminated I.G.: 1/8" T Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer
11	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer
12	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer
14	7/8" Laminated I.G.: 1/8" T Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer
15	7/8" Laminated I.G.: 3/16" A Exterior Cap + 1/4" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer
16	7/8" Laminated I.G.: 3/16" T Exterior Cap + 1/4" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer

SEE SHEET 6, TABLE 5 FOR GLAZING/DESIGN PRESSURE/ANCHORAGE INDEX.

"A" = ANNEALED
"H" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

! GLASS TYPES 5, 7, 11 & 15 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

TABLE 4: INDEX OF INSTALLATION METHODS PER FRAME TYPE

Frame Types (see Fig B)	Glass Options (see Table 1)	Installation Conditions	Substrate Option Detail Sheet
J-Channel (#1)	1 - 4	Through the integral fin.....	....into 2X Wood Frame/Buckstrip - sheet 4, option 5
			....into Metal - sheet 4, option 8
		Through the frame of the window.....	....into 2X Wood Frame/Buckstrip - sheet 4, option 6
			....into Metal - sheet 4, option 7
Flange (#2)	1 - 4	Through the frame of the window.....	....into 2X Wood Frame/Buckstrip - sheet 3, option 1
			....into Concrete/CMU - sheet 3, option 2
			....through 1X Buckstrip into Concrete/CMU - sheet 3, option 3
			....into Metal - sheet 3, option 4
Integral Fin (#3)	1 - 4	Through the integral fin.....	....into 2X Wood Frame/Buckstrip - sheet 4, option 5
			....into Metal - sheet 4, option 8
		Through the frame of the window.....	....into 2X Wood Frame/Buckstrip - sheet 4, option 6
			....into Metal - sheet 4, option 7
Box / Equal-Leg (#4)	1 - 4	Through the frame of the window.....	....into 2X Wood Frame/Buckstrip - sheet 3, option 1
			....into Concrete/CMU - sheet 3, option 2
			....through 1X Buckstrip into Concrete/CMU - sheet 3, option 3
			....into Metal - sheet 3, option 4

TABLE 2: ALLOWABLE ANCHORS THROUGH THE FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.050"
	3/16" steel Ultracon	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Concrete (min. 2.85 ksi)	1"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.063"
C	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	1"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" steel Creteflex	Concrete (min. 3.35 ksi)	1"	1-3/4"
D	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
	1/4" steel Ultracon	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Creteflex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
	1/4" steel Creteflex	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Aggre-Gator	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
	1/4" steel Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Grouted CMU, (ASTM C-90)	2"	2"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

Material	Min. F_y	Min. F_u
Steel Screw	92 ksi	120 ksi
18-8 Screw	60 ksi	95 ksi
410 Screw	90 ksi	110 ksi
Elco Aggre-Gator®	57 ksi	96 ksi
Elco UltraCon®	155 ksi	177 ksi
410 SS Elco CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

INSTALLATION NOTES, SEE SHEETS 3 & 4 FOR ILLUSTRATIONS:

1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3, THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, THIS SHEET. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

4) SEE SHEET 18 FOR OPTIONAL EGRESS LOCK DETAILS.

FIGURE B: FRAME TYPES

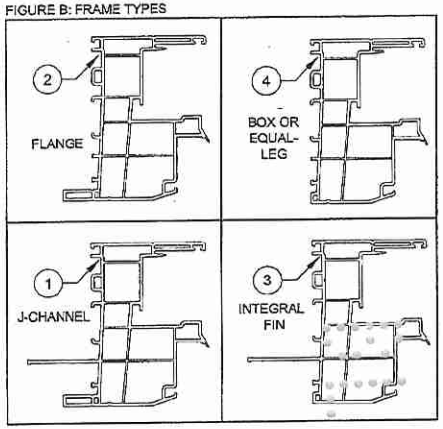

TABLE 3: ALLOWABLE ANCHORS THROUGH THE INTEGRAL FIN

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
E	2-1/2" x .131" Common Nail	P.T. Southern Pine (SG=0.55)	3/8"	2-7/16"
F	2-1/2" Ring-shank Roofing Nail	P.T. Southern Pine (SG=0.55)	3/8"	2-7/16"
	#10 Trusshead SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.050"
		Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
		Steel, A36*	3/8"	0.050"
	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.063"
		Steel Stud, Gr. 33*	3/8"	0.050"
		Steel, A36*	3/8"	0.050"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

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3/31/17
A. LYNN MILLER, P.E.
P.E.# 58705

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NOA-No. 17-0411.06
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Revised By:	Date:	Revision:
JR	03/27/17	NO CHANGES THIS SHEET.
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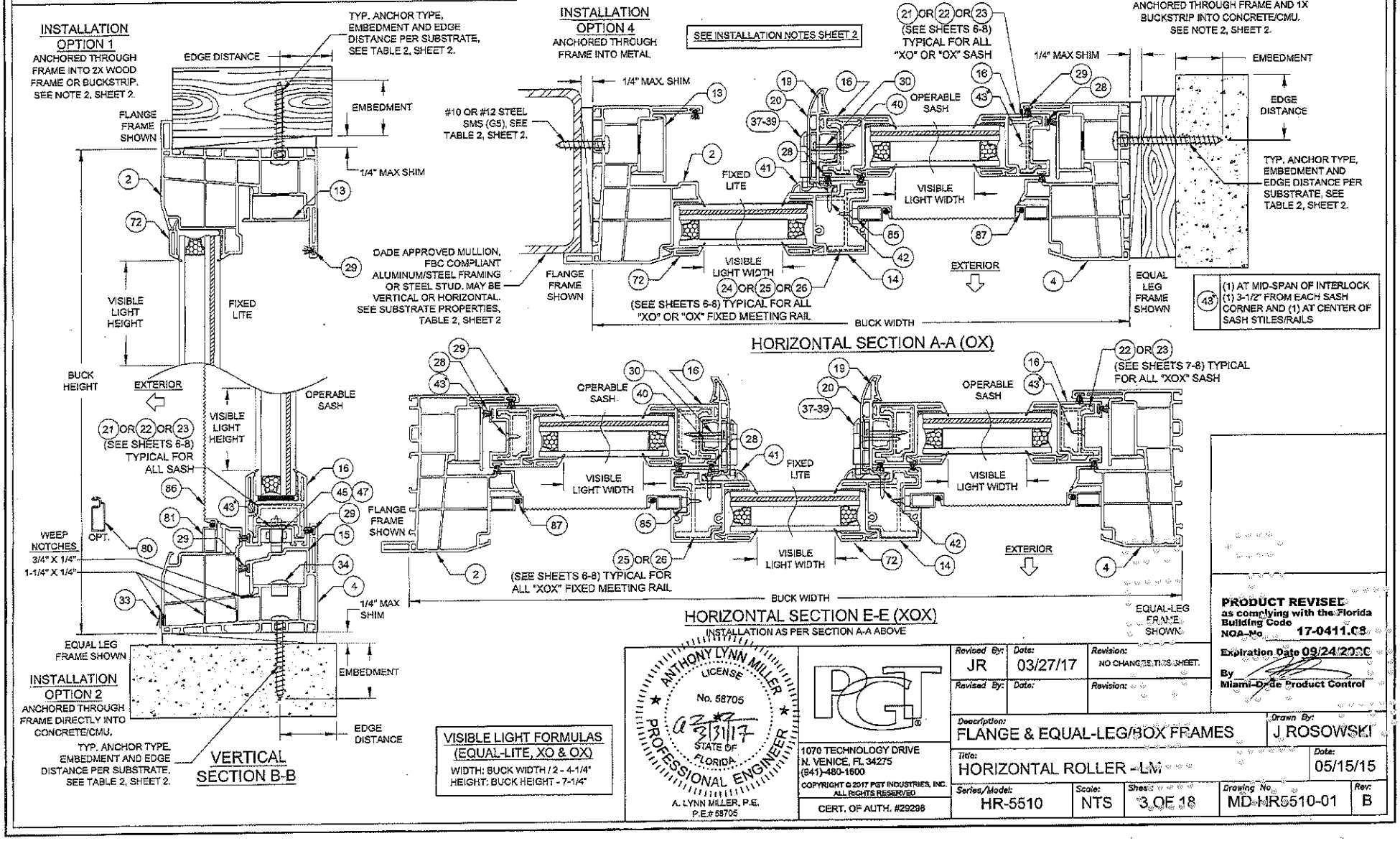
Description: GLASS/ANCHORS/FRAME OPTIONS
Drawn By: J. ROSOWSKI
Title: HORIZONTAL ROLLER - LM
Date: 05/15/15
Series/Model: HR-5510
Scale: NTS
Sheet: 2 OF 18
Drawing No.: MD-HR5510-01
Rev: B

INSTALLATION DETAILS FOR FLANGE AND EQUAL-LEG FRAMES



VISIBLE LIGHT FORMULAS (EQUAL-LITE, XO & OX)

WIDTH: BUCK WIDTH / 2 - 4-1/4"
HEIGHT: BUCK HEIGHT - 7-1/4"

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Revised By:	Date:	Revision:

PRODUCT REVISED as complying with the Florida Building Code
NOA-No. 17-0411.C8
Expiration Date 09/24/2020
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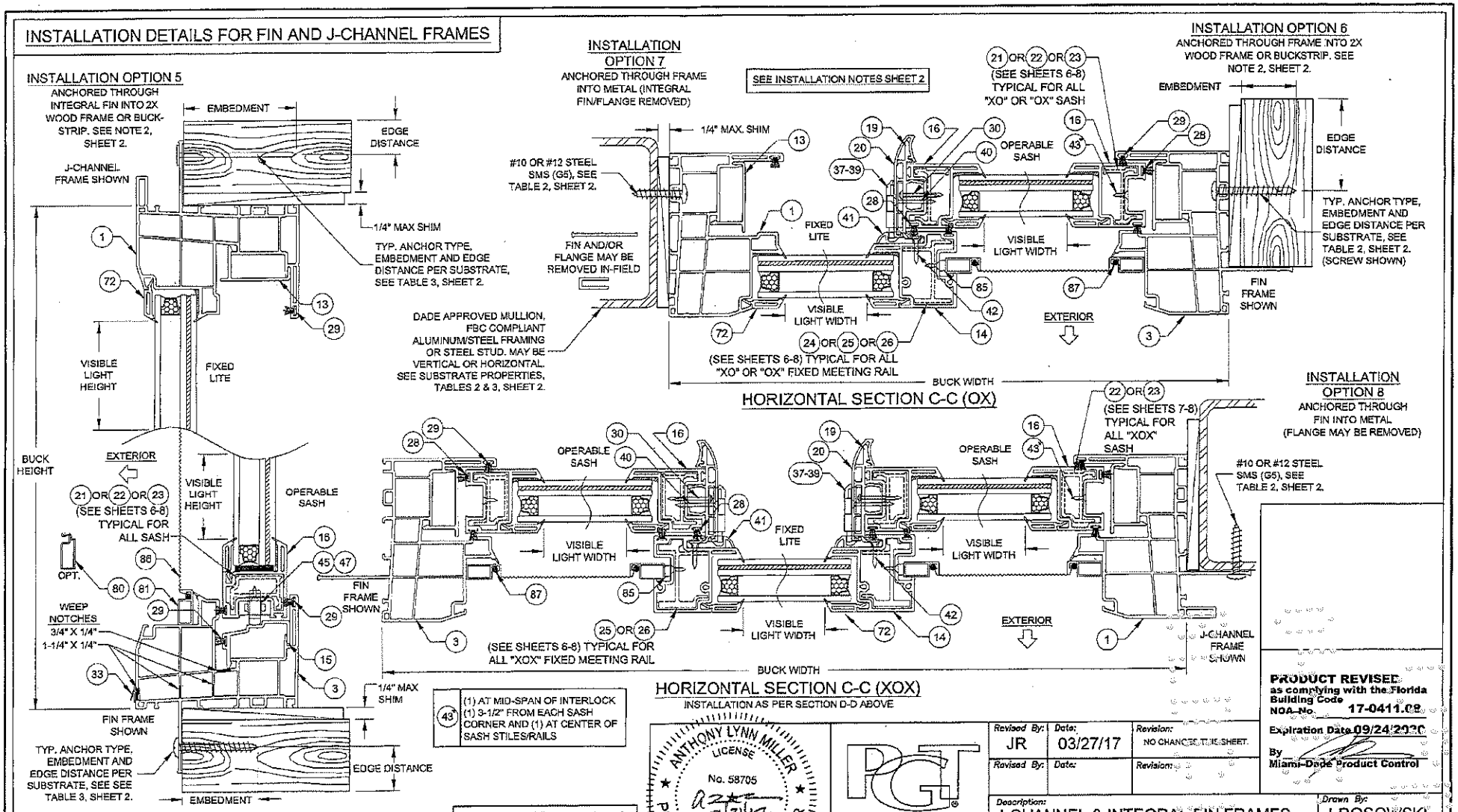
Description:	Drawn By:
FLANGE & EQUAL-LEG/BOX FRAMES	J ROSOWSKI
Title: HORIZONTAL ROLLER - LM	Date: 05/15/15

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
HR-5510	NTS	3 OF 18	MD-HR5510-01	B

INSTALLATION DETAILS FOR FIN AND J-CHANNEL FRAMES



(43)	(1) AT MID-SPAN OF INTERLOCK (1) 3-1/2" FROM EACH SASH CORNER AND (1) AT CENTER OF SASH STILES/RAILS

VISIBLE LIGHT FORMULAS (EQUAL-LITE, XO & OX)

WIDTH: BUCK WIDTH / 2 - 4-1/4"
HEIGHT: BUCK HEIGHT - 7-1/4"

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Revised By:	Date:	Revision:
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Revised By:	Date:	Revision:

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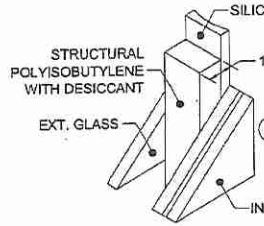
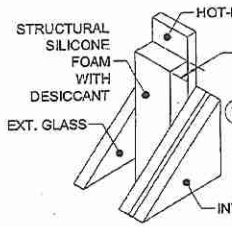
By Miami-Dade Product Control

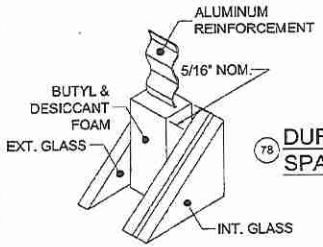
Description: J-CHANNEL & INTEGRAL FIN FRAMES			Drawn By: J ROSOWSKI	
Title: HORIZONTAL ROLLER - LM				Date: 05/15/15
Series/Model: HR-5510	Scale: NTS	Sheet: 4 OF 18	Drawing No. MD-HR5510-01	Rev: B



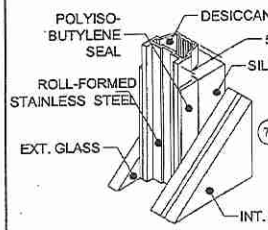
76 KODISPACE 4SG TPS



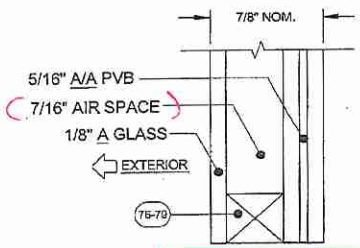
77 SUPER SPACER® NXT™



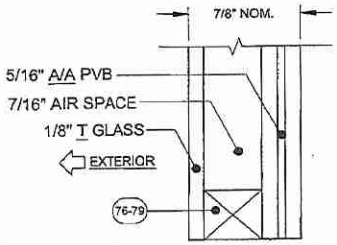
78 DURASEAL® SPACER



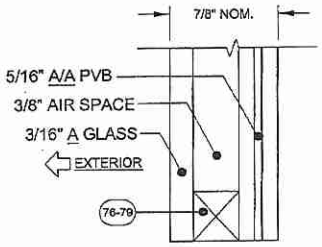
79 XL EDGE™ SPACER



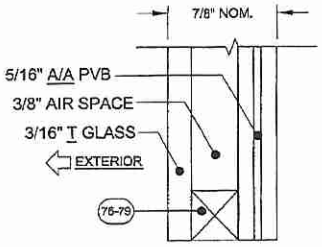
GLASS TYPE 5



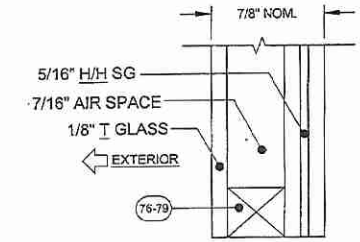
GLASS TYPE 6



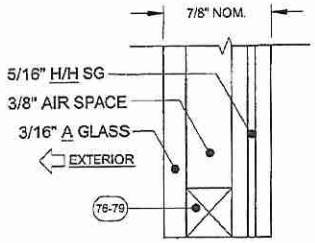
GLASS TYPE 7



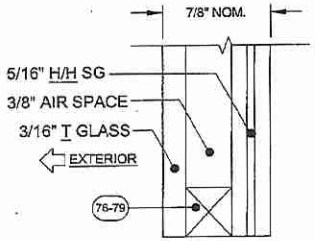
GLASS TYPE 8



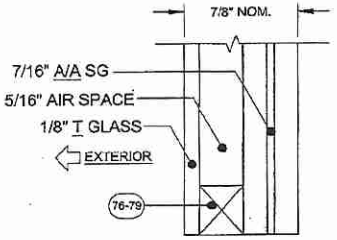
GLASS TYPE 10



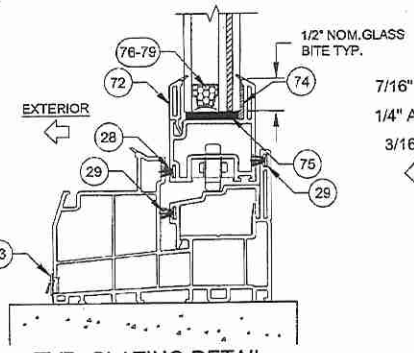
GLASS TYPE 11



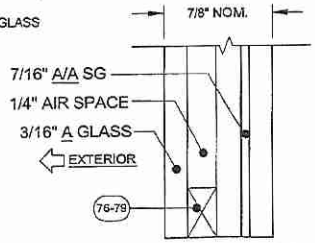
GLASS TYPE 12



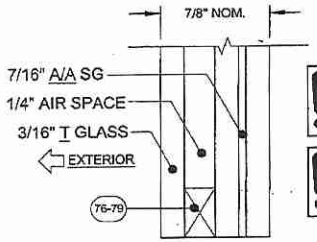
GLASS TYPE 14



TYP. GLAZING DETAIL



GLASS TYPE 15



GLASS TYPE 16

GLASS TYPES 5, 7, 11 & 15 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

GLASS TYPES 10-12 & 14-16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

Part #	Description	Material
76	Kommering 4SG TPS Spacer System	See this Sheet for Materials
77	Quanex Super Spacer nXT with Hot Melt Butyl	
78	Quanex Duraseal Spacer	
79	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

"A" = ANNEALED
"H" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

FOR LAMINATED GLAZING COMPONENTS, SEE TABLE 1. SHEET 2.

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Revised By:	Date:	Revision:

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NOA-No. 17-041[illegible].08
Expiration Date 09/24/2020
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Description: GLAZING DETAILS
Drawn By: J ROSOWSKI
Title: HORIZONTAL ROLLER WINDOW - LM
Date: 05/15/15
Series/Model: HR-5510
Scale: NTS
Sheet: 5 OF 18
Drawing No. MD-HR5510-01
Rev: B

TABLE 5:

Index to All Design Pressure and Anchor Quantity Tables

Config.	Max. Width	Max. Height	Glass Type	Reinf. Level	Design Pressure		Anchor Quantity	
					Table #	Sheet #	Table #	Sheet #
XO or OX	75"	54"	5 - 8	1	6	6	17	9
		54"		2	7	6	18	9
		63"		3	8	7	19	10
		63"		4	11	8	21	11
		72"	6 - 8	4	10	8	20	10
	75"	76"	10 - 12	4	12	8	22	11
			14 - 16	4	12	8	22	11
XOX	120"	63"	5 - 8	3	9	7	23	12
			5 & 6	4	13	8	24	13
			7 & 8	4	14	8	25	14
	140"	63"	10 - 12	4	15	8	26	15
			14 - 16	4	16	8	27	16

TABLE 6:

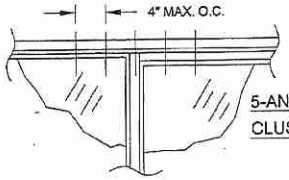
Glass Types 5 - 8	Design Pressure (lbs/ft²) for XO or OX Windows
Reinf. Level R1	All Buck Heights up to 54"
All Buck Widths up to 75"	+50 / -50

SEE TABLE 17 FOR ANCHORAGE

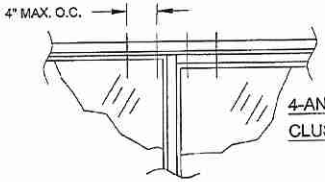
TABLE 7:

Glass Types 5 - 8	Design Pressure (lbs/ft²) for XO or OX Windows
Reinf. Level R2	All Buck Heights up to 54"
All Buck Widths up to 75"	+65 / -70

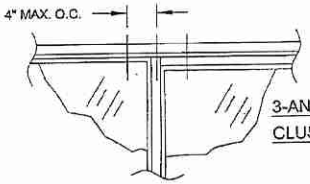
SEE TABLE 18 FOR ANCHORAGE



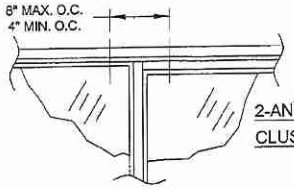
5-ANCHOR CLUSTER DETAIL



4-ANCHOR CLUSTER DETAIL



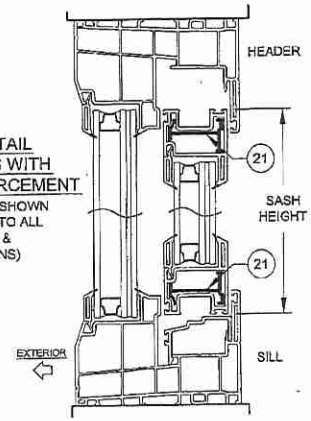
3-ANCHOR CLUSTER DETAIL

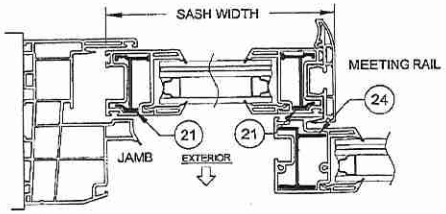


2-ANCHOR CLUSTER DETAIL

SECTION DETAIL FOR WINDOWS WITH LEVEL R1 REINFORCEMENT

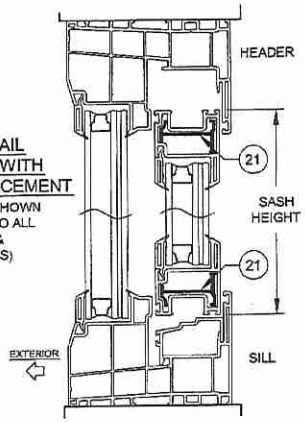
(REINFORCEMENTS SHOWN IN FIGURES APPLY TO ALL FRAME TYPES & CONFIGURATIONS)

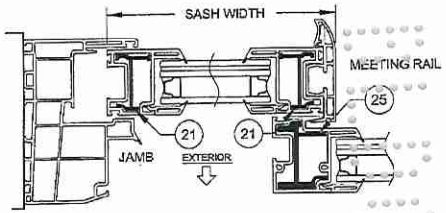




SECTION DETAIL FOR WINDOWS WITH LEVEL R2 REINFORCEMENT

(REINFORCEMENTS SHOWN IN FIGURES APPLY TO ALL FRAME TYPES & CONFIGURATIONS)





NOTES:
1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
2) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SHEETS 3-4). SASH SIZE IS AS PER THE FIGURE.
3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
03/31/17
A. LYNN MILLER, P.E.
P.E.# 58705

PRODUCT REVISED as complying with the Florida Building Code
NOA No. 17-0411.08
Expiration Date 09/24/2020
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Revised By:	Date:	Revision:
JR	03/27/17	CORRECTED TABLE 6.
Revised By:	Date:	Revision:

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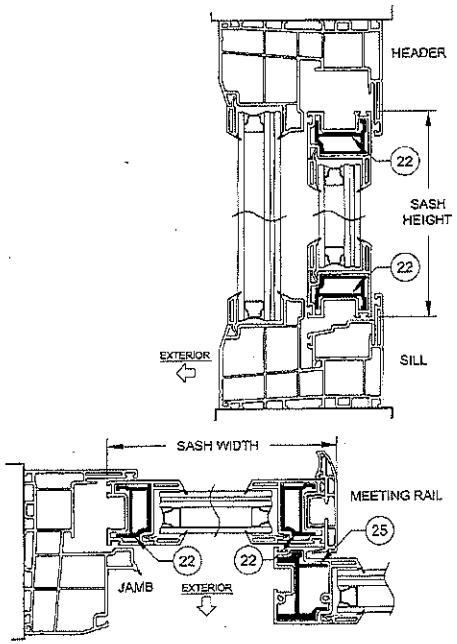
Description: DESIGN PRESSURE TABLES
Drawn By: J ROSOWSKI
Title: HORIZONTAL ROLLER - LM
Date: 05/15/15
Series/Model: HR-5510
Scale: NTS
Sheet: 6 OF 18
Drawing No. MD-HR5510-01
Rev: B



SECTION DETAIL
FOR WINDOWS WITH
LEVEL R3 REINFORCEMENT

(REINFORCEMENTS SHOWN IN FIGURES APPLY TO ALL FRAME TYPES & CONFIGURATIONS)

TABLE 8:

Glass Types 5 - 8	Design Pressure (lbs/ft²) for XO or OX Windows
Reinf. Level R3	All Buck Heights up to 63"
All Buck Widths up to 75"	+50 / -50

SEE TABLE 19 FOR ANCHORAGE

TABLE 9:

Glass Types 5 - 8 / Reinf. Level R3		Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows — Window Buck Height 48"		54"		63"	
Window Buck Width	35-1/4"	⅓-⅓-⅓	11.391 - 11.391	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	36"	⅓-⅓-⅓	12.308 - 12.308	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	45-1/8"	¼-½-¼	11.391 - 13.397	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		⅓-⅓-⅓	13.398 - 14.683	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	47-3/4"	¼-½-¼	11.391 - 12.297	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		⅓-⅓-⅓	12.298 - 15.558	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	52-1/8"	Custom	11.391 - 12.016	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		¼-½-¼	12.017 - 13.397	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		⅓-⅓-⅓	13.398 - 17.016	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	60"	Custom	11.391 - 13.397	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		¼-½-¼	13.398 - 15.360	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		⅓-⅓-⅓	15.361 - 19.641	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	75"	Custom	11.391 - 13.397	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		¼-½-¼	13.398 - 19.110	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		⅓-⅓-⅓	19.111 - 24.641	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	96"	Custom	18.360 - 19.397	+50.0	-50.0	+50.0	-50.0	+49.1*	-49.1*
		¼-½-¼	19.398 - 24.360	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
		Custom	24.361 - 30.360	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	120"	¼-½-¼	** - 30.360	+50.0	-50.0	+50.0	-50.0	+49.1*	-49.1*

* +50/-50 FOR GLASS TYPES 6-8

SEE TABLE 23 FOR ANCHORAGE

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 59.28}{2}$

NOTES:
1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
2) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURE.
3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/31/17
A. LYNN MILLER, P.E.
P.E.# 58705

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600
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Revised By:	Date:	Revision:
JR	03/27/17	NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:

PRODUCT REVISED
as complying with the Florida Building Code
NOA No. 17-0411.08
Expiration Date 09/24/2020
By
Miami-Dade Product Control

Description:	Drawn By:
DESIGN PRESSURE TABLES	J ROSOWSKI
Title: HORIZONTAL ROLLER - LM	Date: 05/15/15

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
HR-5510	NTS	7 OF 18	MD-HR5510-01	B

TABLE 10:

Glass Types 6 - 8	Design Pressure (lbs/ft²) for XO or OX Windows
Reinf. Level R4	All Buck Heights up to 72"
All Buck Widths up to 75"	+50 / -50

SEE TABLE 20 FOR ANCHORAGE

TABLE 11:

Glass Types 5 - 8		Design Pressure (lbs/ft²) for XO or OX Windows					
Reinf. Level R4		Window Buck Height					
		48"		54"		63"	
Window Buck Width	25-1/2"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	28"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	36"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	42"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	48"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	60"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	75"	+65.0	-70.0	+65.0	-70.0	+64.3*	-64.3*

* +65/-70 FOR GLASS TYPES 6-8
SEE TABLE 21 FOR ANCHORAGE

TABLE 12:

Glass Types 10-12 & 14-16		Design Pressure (lbs/ft²) for XO or OX Windows					
Reinf. Level R4		Window Buck Height					
		54"		63"		76"	
Window Buck Width	25-1/2"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	28"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	36"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	42"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	48"	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	60"	+65.0	-110.0	+65.0	-110.0	+65.0	-93.9
	75"	+65.0	-110.0	+65.0	-103.5	+65.0	-80.0

SEE TABLE 22 FOR ANCHORAGE

TABLE 13:

Glass Types 5 & 6		Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows							
Reinf. Level R4				Window Buck Height							
				36"		48"		54"		63"	
Window Buck Width	60"	Custom	11.391 - 13.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-65.3
		¼-½-½	13.398 - 15.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		½-½-⅔	15.361 - 19.641	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	75"	Custom	11.391 - 13.397	+65.0	-70.0	+65.0	-59.6	+63.3	-63.3	+53.2	-53.2
		¼-½-¼	13.398 - 19.110	+65.0	-70.0	+65.0	-70.0	+65.0	-66.5	+56.2	-56.2
		½-½-⅔	19.111 - 24.641	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-68.0
	96"	Custom	18.360 - 19.397	+65.0	-70.0	+59.9	-59.9	+55.5	-55.5	+49.1	-49.1
		¼-½-¼	19.398 - 24.360	+65.0	-70.0	+62.1	-62.1	+58.0	-58.0	+50.3	-50.3
		Custom	24.361 - 30.360	+65.0	-70.0	+65.0	-67.3	+57.0	-57.0		
	120"	¼-½-¼	** - 30.360	+65.0	-70.0	+59.9	-59.9	+55.5	-55.5	+49.1	-49.1

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 59.28}{2}$

SEE TABLE 24 FOR ANCHORAGE

TABLE 14:

Glass Types 7 & 8		Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows							
Reinf. Level R4				Window Buck Height							
				36"		48"		54"		63"	
Window Buck Width	60"	Custom	11.391 - 13.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		¼-½-¼	13.398 - 15.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		½-½-⅔	15.361 - 19.641	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	75"	Custom	11.391 - 13.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		¼-½-¼	13.398 - 19.110	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		½-½-⅔	19.111 - 24.641	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	96"	Custom	18.360 - 19.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0*	-67.2*
		¼-½-¼	19.398 - 24.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0*	-66.8*
		Custom	24.361 - 30.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	120"	¼-½-¼	** - 30.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0*	-67.2*

* +65/-70 FOR GLASS TYPE 8

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 59.28}{2}$

SEE TABLE 25 FOR ANCHORAGE

TABLE 15:

Glass Types 10 - 12		Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows					
Reinf. Level R4				Window Buck Height					
				48"		54"		63"	
Window Buck Width	60"	Custom	11.391 - 13.397	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
		¼-½-¼	13.398 - 15.360	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
		½-½-⅔	15.361 - 19.641	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	75"	Custom	11.391 - 13.397	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
		¼-½-¼	13.398 - 19.110	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
		½-½-⅔	19.111 - 24.641	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	96"	Custom	17.641 - 19.397	+65.0	-110.0	+65.0	-110.0	+65.0*	-104.6*
		¼-½-¼	19.398 - 24.360	+65.0	-110.0	+65.0	-110.0	+65.0*	-109.5*
		Custom	24.361 - 31.641	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	120"	¼-½-¼	28.641 - 32.515	+65.0	-110.0	+65.0	-110.0	+65.0*	-104.6*
		½-½-⅔	32.516 - 39.641	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	140"	Custom	** - 39.641	+65.0	-110.0	+65.0	-110.0	+65.0*	-104.6*

* +65/-110 FOR GLASS TYPES 11 & 12

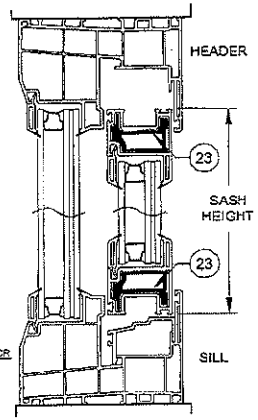
SEE TABLE 26 FOR ANCHORAGE

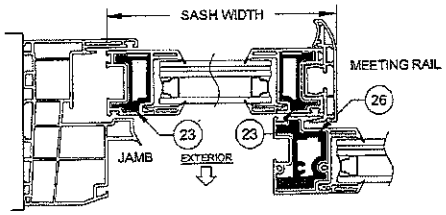
** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 60.72}{2}$

TABLE 16:

Glass Types 14 - 16		Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows					
Reinf. Level R4				Window Buck Height					
				48"		54"		63"	
Window Buck Width	60"	Custom	11.391 - 13.397	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
		¼-½-¼	13.398 - 15.360	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
		½-½-⅔	15.361 - 19.641	+65.0	-110.0	+65.0	-110.0	+65.0	-110.0
	75"	Custom	11.391 - 13.397	+65.0	-110.0	+65.0	-110.0	+65.0	-108.3
		¼-½-¼	13.398 - 19.110	+65.0	-110.0	+65.0	-110.0	+65.0	-102.0
		½-½-⅔	19.111 - 24.641	+65.0	-110.0	+65.0	-110.0	+65.0	-102.9
	96"	Custom	17.641 - 19.397	+65.0	-110.0	+65.0	-110.0	+65.0	-97.4
		¼-½-¼	19.398 - 24.360	+65.0	-110.0	+65.0	-110.0	+65.0	-92.0
		Custom	24.361 - 31.641	+65.0	-110.0	+65.0	-110.0	+65.0	-88.4
	120"	¼-½-¼	29.641 - 32.515	+65.0	-110.0	+65.0	-109.8	+65.0	-84.3
		½-½-⅔	32.516 - 39.641	+65.0	-110.0	+65.0	-105.0	+65.0	-80.8
	140"	Custom	** - 39.641	+65.0	-110.0	+65.0	-105.0	+65.0	-80.0

SEE TABLE 27 FOR ANCHORAGE





SECTION DETAIL
FOR WINDOWS WITH
LEVEL R4 REINFORCEMENT
(REINFORCEMENTS SHOWN IN FIGURES APPLY TO ALL FRAME TYPES & CONFIGURATIONS)

! GLASS TYPES 10-12 & 14-16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

NOTES:
1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN AS ALLOWED BY GLASS TYPE.
2) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURE.
3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

PRODUCT REVISED as complying with the Florida Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By
Miami-Dade Product Control

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Revised By:	Date:	Revision:
JR	03/27/17	NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:

Description: DESIGN PRESSURE TABLES
Drawn By: J ROSOWSKI
Title: HORIZONTAL ROLLER - LM
Date: 05/15/15
Series/Model: HR-5510
Scale: NTS
Sheet: 8 OF 18
Drawing No. MD-HR5510-01
Rev: B

TABLE 17:

Glass Types 5 - 8 / Reinf. Level R1	Sash Width (in)	Anchor Quantities for XO or OX Windows															
		30" Height		36" Height		48" Height		54" Height		30" Height		36" Height		48" Height		54" Height	
		Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
		Anchor Group A								Anchor Group C							
Window Buck Width	25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
	75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
		Anchor Group B								Anchor Group D							
Window Buck Width	25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
	75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3

SEE TABLE 6 FOR DESIGN PRESSURE

TABLE 18:

Glass Types 5 - 8 / Reinf. Level R2	Sash Width (in)	Anchor Quantities for XO or OX Windows															
		30" Height		36" Height		48" Height		54" Height		30" Height		36" Height		48" Height		54" Height	
		Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
		Anchor Group A								Anchor Group C							
Window Buck Width	25-1/2"	12.147	Not Allowed							1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	28"	13.397								1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	36"	17.397								1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	42"	20.397								1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	48"	23.397								1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	60"	29.397								2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
	75"	36.897								2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
		Anchor Group B								Anchor Group D							
Window Buck Width	25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
	60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3
	75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3	2+C2+2	2	2+C2+2	3	2+C2+2	3	2+C2+2	3

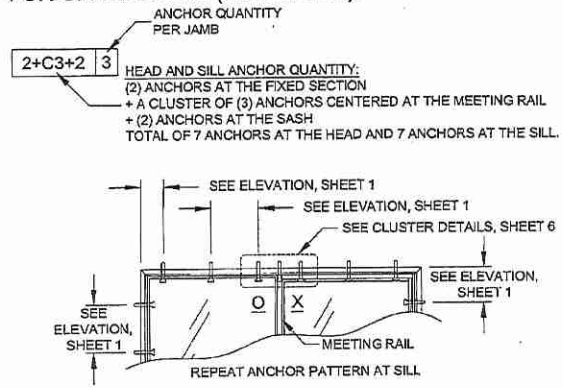
MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

SEE TABLE 7 FOR DESIGN PRESSURE

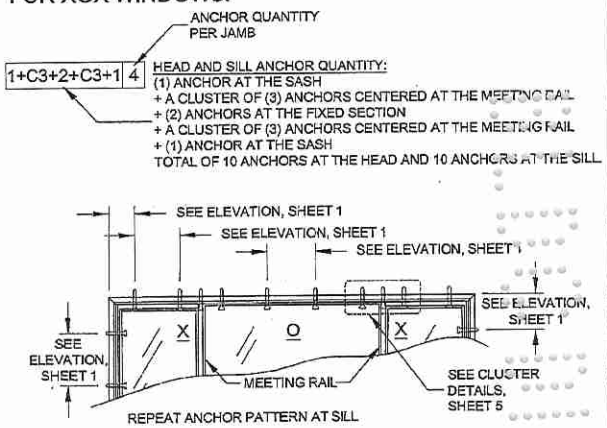
Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group E	Anchor Group F
	3.8"	4"

GUIDE TO USING ANCHOR QUANTITY TABLES

FOR OX WINDOWS (XO SIMILAR):



FOR XOX WINDOWS:



Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group F
	4"

NOTES:
1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By Miami-Dade Product Control

Rev B: ADDED NOTE TO ANCHOR QTY. TABLES.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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Rev.	Date	Drawn By	DWG No.	Sheet	Scale	Sheets	Desc. Title
B	05/15/15	J ROSOWSKI	MD-HR5510-01	9 OF 18	NTS	HR-5510	ANCHOR QUANTITY TABLES HORIZONTAL ROLLER - LM

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
3/31/17

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 19:

Anchor Quantities for XO or OX Windows

Glass Types 5 - 8 / Reinf. Level R3	Sash Width (in)	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb
		Anchor Group A										Anchor Group C									
Window Buck Width 25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
		Anchor Group B										Anchor Group D									
Window Buck Width 25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4

SEE TABLE 8 FOR DESIGN PRESSURE

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	
Anchor Group E	Anchor Group F
3.5"	4"

TABLE 20:

Anchor Quantities for XO or OX Windows

Glass Types 6 - 8 / Reinf. Level R4	Sash Width (in)	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb	72" Height Head & Sill	72" Height Jamb	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb	72" Height Head & Sill	72" Height Jamb
		Anchor Group A												Anchor Group C											
Window Buck Width 25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5
28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5
36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5
42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5
48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C3+1	5
60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C3+2	4	2+C3+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C3+2	4	2+C3+2	5	2+C4+2	5
75"	36.897	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5
		Anchor Group B												Anchor Group D											
Window Buck Width 25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5
28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C2+1	5
36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5
42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5
48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C3+1	5
60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C3+2	4	2+C3+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C3+2	4	2+C3+2	5	2+C4+2	5
75"	36.897	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5

SEE TABLE 10 FOR DESIGN PRESSURE

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	
Anchor Group E	Anchor Group F
3.2"	4"

NOTES:
1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.

MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By Miami-Dade Product Control

Rev B: ADDED NOTE TO ANCHOR QTY. TABLES. REMOVED GLASS 5 FROM TABLE 20.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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Title	Drawn By	Date	Rev.
ANCHOR QUANTITY TABLES	J ROSOWSKI	05/15/15	B

Series	Drawing No.	Sheet	Scale
HR-5510	MD-HR5510-01	10 OF 18	NTS

HORIZONTAL ROLLER - LM

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 21:

Glass Types 5 - 8 / Reinf. Level R4	Sash Width (in)	Anchor Quantities for XO or OX Windows																					
		30" Height		36" Height		48" Height		54" Height		63" Height		30" Height		36" Height		48" Height		54" Height		63" Height	
		Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
		Anchor Group A										Anchor Group C									
Window Buck Width 25-1/2"	12.147	Not Allowed										1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
28"	13.397											1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
36"	17.397											1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
42"	20.397											1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
48"	23.397											1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
60"	29.397											2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
75"	36.897											2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4
		Anchor Group B										Anchor Group D									
Window Buck Width 25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4

SEE TABLE 11 FOR DESIGN PRESSURE

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group F
	4"

TABLE 22:

Glass Types 10-12 & 14-16 / Reinf. Level R4	Sash Width (in)	Anchor Quantities for XO or OX Windows																							
		30" Height		36" Height		48" Height		54" Height		63" Height		76" Height		30" Height		36" Height		48" Height		54" Height		63" Height		76" Height	
		Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
		Anchor Group A												Anchor Group C											
Window Buck Width 25-1/2"	12.147	Not Allowed												1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5
28"	13.397													1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5
36"	17.397													1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5
42"	20.397													1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5
48"	23.397													1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C4+1	5	1+C4+1	5
60"	29.397													2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5
75"	36.897													2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5
		Anchor Group B												Anchor Group D											
Window Buck Width 25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	5	1+C3+1	5
28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C3+1	5	1+C3+1	5
36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5
42"	20.397	1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5	1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C3+1	5	1+C4+1	5
48"	23.397	1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C4+1	5	1+C4+1	5	1+C2+1	2	1+C2+1	3	1+C3+1	4	1+C3+1	4	1+C4+1	5	1+C4+1	5
60"	29.397	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C3+2	4	2+C4+2	5	2+C4+2	5
75"	36.897	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5	2+C2+2	2	2+C2+2	3	2+C3+2	4	2+C4+2	4	2+C4+2	5	2+C4+2	5

SEE TABLE 12 FOR DESIGN PRESSURE

MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

! GLASS TYPES 10-12 & 14-16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

NOTES:
1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By
Miami-Dade Product Control

Rev B: ADDED NOTE TO ANCHOR QTY. TABLES.

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(941)-480-1600

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Title	Date	Drawn By	Dwg No.	Sheet	Rev
ANCHOR QUANTITY TABLES	05/15/15	J ROSOWSKI	MD-HR5510-01	11 OF 18	B
HORIZONTAL ROLLER - LM			HR5510	NTS	

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 23:

MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

Anchor Quantities for XOX Windows

Glass Types 5 - 8 / Reinf. Level R3	Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	24" Height Jamb	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb
			Anchor Group A											
Window Buck Width 35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
45-1/8"	¼-⅓-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	⅓-⅓-⅓	13.398 - 14.683	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
47-3/4"	¼-⅓-¼	11.391 - 12.297	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
52-1/8"	Custom	11.391 - 12.016	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-⅓-¾	12.017 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
60"	Custom	11.391 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-⅓-¾	13.398 - 15.360	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-⅓-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
	⅓-⅓-⅓	19.111 - 24.641	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
96"	Custom	18.360 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4
	¼-⅓-¼	19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4
	Custom	24.361 - 30.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C3+2+C3+1	4
120"	¼-⅓-¼	** - 30.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4
			Anchor Group B											
Window Buck Width 35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
45-1/8"	¼-⅓-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	⅓-⅓-⅓	13.398 - 14.683	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
47-3/4"	¼-⅓-¼	11.391 - 12.297	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
52-1/8"	Custom	11.391 - 12.016	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-⅓-¾	12.017 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
60"	Custom	11.391 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-⅓-¾	13.398 - 15.360	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-⅓-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
	⅓-⅓-⅓	19.111 - 24.641	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
96"	Custom	18.360 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-⅓-¼	19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	Custom	24.361 - 30.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
120"	¼-⅓-¼	** - 30.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4

Glass Types 5 - 8 / Reinf. Level R3	Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	24" Height Jamb	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb
			Anchor Group C											
Window Buck Width 35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
45-1/8"	¼-⅓-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	⅓-⅓-⅓	13.398 - 14.683	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
47-3/4"	¼-⅓-¼	11.391 - 12.297	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
52-1/8"	Custom	11.391 - 12.016	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-⅓-¾	12.017 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
60"	Custom	11.391 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-⅓-¾	13.398 - 15.360	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-⅓-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
	⅓-⅓-⅓	19.111 - 24.641	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
96"	Custom	18.360 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-⅓-¼	19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	Custom	24.361 - 30.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
120"	¼-⅓-¼	** - 30.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
			Anchor Group D											
Window Buck Width 35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
45-1/8"	¼-⅓-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	⅓-⅓-⅓	13.398 - 14.683	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
47-3/4"	¼-⅓-¼	11.391 - 12.297	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
52-1/8"	Custom	11.391 - 12.016	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-⅓-¾	12.017 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
60"	Custom	11.391 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-⅓-¾	13.398 - 15.360	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-⅓-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
	⅓-⅓-⅓	19.111 - 24.641	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
96"	Custom	18.360 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-⅓-¼	19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	Custom	24.361 - 30.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
120"	¼-⅓-¼	** - 30.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4

SEE TABLE 9 FOR DESIGN PRESSURE

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group E	Anchor Group F
	2.9"	4"

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 59.28}{2}$

NOTES:
1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4).
SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.
4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By
Miami-Dade Product Control

Rev B: ADDED NOTE TO ANCHOR QTY. TABLES.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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CERT. OF AUTH. #29296

Date: 05/15/15
Drawn By: J ROSOWSKI
Rev: B
DWG No: MD-HR5510-01
Sheet: 12 OF 18
Scale: NTS
Series: HR-5510
Design: HORIZONTAL ROLLER - LM
Title: ANCHOR QUANTITY TABLES

ANTHONY LYNN MILLER
LICENSE
No. 58705
3/9/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 24:

MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

Anchor Quantities for XOX Windows

Glass Types 5 & 8 / Reinf. Level R4		Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	24" Height Jamb	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb
				Anchor Group A											
Window Buck Width	35-1/4"	⅓-⅓-⅓	11.391 - 11.391	Not Allowed											
	38"	⅓-⅓-⅓	12.308 - 12.308												
	45-1/8"	¼-½-¼	11.391 - 13.397												
		½-½-½	13.398 - 14.683												
	47-3/4"	¼-½-¼	11.391 - 12.297												
		½-½-½	12.298 - 15.558												
	52-1/8"	Custom	11.391 - 12.016												
		¼-½-¼	12.017 - 13.397												
		½-½-½	13.398 - 17.016												
	60"	Custom	11.391 - 13.397												
		¼-½-¼	13.398 - 15.360												
		½-½-½	15.361 - 19.641												
	75"	Custom	11.391 - 13.397												
		¼-½-¼	13.398 - 19.110												
		½-½-½	19.111 - 24.641												
	96"	Custom	18.360 - 19.397												
		¼-½-¼	19.398 - 24.360												
		Custom	24.361 - 30.360												
	120"	¼-½-¼	** - 30.360												
				Anchor Group B											
Window Buck Width	35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	45-1/8"	¼-½-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
		⅓-⅓-⅓	13.398 - 14.683	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	47-3/4"	¼-½-¼	11.391 - 12.297	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
		½-½-½	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	52-1/8"	Custom	11.391 - 12.016	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
		¼-½-¼	12.017 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
		½-½-½	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	60"	Custom	11.391 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
		¼-½-¼	13.398 - 15.360	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
		½-½-½	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4
	75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
		¼-½-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
		½-½-½	19.111 - 24.641	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	96"	Custom	18.360 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
		¼-½-¼	19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
		Custom	24.361 - 30.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
	120"	¼-½-¼	** - 30.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4

Sash Configuration	24" Height Head & Sill	24" Height Jamb	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb
Anchor Group C												
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4	
1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4	
1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4	
1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4	
1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4	
Anchor Group D												
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4	
1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4	
1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	
1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4	
1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4	
1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4	

SEE TABLE 13 FOR DESIGN PRESSURE

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group F
	4"

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 59.28}{2}$

NOTES:
1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4).
SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.
4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By
Miami-Dade Product Control

Rev B

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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CERT. OF AUTH. #29296

Date	05/15/15
Drawn By	J ROSOWSKI
Rev.	B
DWG No.	MD-HR5510-01
Sheet	13 OF 18
Scale	NTS
Series	HR-5510
Title	ANCHOR QUANTITY TABLES
Desc.	HORIZONTAL ROLLER - LM

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 25:

MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

Anchor Quantities for XOX Windows

Glass Types 7 & 8, Reinf. Level R4

Anchor Group A

Window Buck Width	Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	Jamb	30" Height Head & Sill	Jamb	36" Height Head & Sill	Jamb	48" Height Head & Sill	Jamb	54" Height Head & Sill	Jamb	63" Height Head & Sill	Jamb
35-1/4"	⅓-⅓-⅓	11.391 - 11.391	Not Allowed											
38"	⅓-⅓-⅓	12.308 - 12.308												
45-1/8"	¼-½-¼	11.391 - 13.397												
	⅓-⅓-⅓	13.398 - 14.683												
47-3/4"	¼-½-¼	11.391 - 12.297												
	⅓-⅓-⅓	12.298 - 15.558												
52-1/8"	Custom	11.391 - 12.016												
	¼-½-¼	12.017 - 13.397												
	⅓-⅓-⅓	13.398 - 17.016												
60"	Custom	11.391 - 13.397												
	¼-½-¼	13.398 - 15.360												
	⅓-⅓-⅓	15.361 - 19.641												
75"	Custom	11.391 - 13.397												
	¼-½-¼	13.398 - 19.110												
	⅓-⅓-⅓	19.111 - 24.641												
96"	Custom	18.380 - 19.397												
	¼-½-¼	19.398 - 24.380												
	Custom	24.361 - 30.360												
120"	¼-½-¼	** - 30.360												

Anchor Group B

Window Buck Width	Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	Jamb	30" Height Head & Sill	Jamb	36" Height Head & Sill	Jamb	48" Height Head & Sill	Jamb	54" Height Head & Sill	Jamb	63" Height Head & Sill	Jamb
35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
45-1/8"	¼-½-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	⅓-⅓-⅓	13.398 - 14.683	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
47-3/4"	¼-½-¼	11.391 - 12.297	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
52-1/8"	Custom	11.391 - 12.016	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-½-¼	12.017 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
60"	Custom	11.391 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-½-¼	13.398 - 15.360	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4
75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-½-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C3+2+C3+1	4
	⅓-⅓-⅓	19.111 - 24.641	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C3+1+C3+1	4
96"	Custom	18.380 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4
	¼-½-¼	19.398 - 24.380	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4
	Custom	24.361 - 30.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C3+2+C3+1	4
120"	¼-½-¼	** - 30.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4

Anchor Group C

Window Buck Width	Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	Jamb	30" Height Head & Sill	Jamb	36" Height Head & Sill	Jamb	48" Height Head & Sill	Jamb	54" Height Head & Sill	Jamb	63" Height Head & Sill	Jamb
35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
45-1/8"	¼-½-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	⅓-⅓-⅓	13.398 - 14.683	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
47-3/4"	¼-½-¼	11.391 - 12.297	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
52-1/8"	Custom	11.391 - 12.016	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-½-¼	12.017 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
60"	Custom	11.391 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-½-¼	13.398 - 15.360	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-½-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
	⅓-⅓-⅓	19.111 - 24.641	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
96"	Custom	18.380 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-½-¼	19.398 - 24.380	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4
	Custom	24.361 - 30.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C3+2+C3+1	4
120"	¼-½-¼	** - 30.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4

Anchor Group D

Window Buck Width	Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	Jamb	30" Height Head & Sill	Jamb	36" Height Head & Sill	Jamb	48" Height Head & Sill	Jamb	54" Height Head & Sill	Jamb	63" Height Head & Sill	Jamb
35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
45-1/8"	¼-½-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	⅓-⅓-⅓	13.398 - 14.683	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
47-3/4"	¼-½-¼	11.391 - 12.297	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
52-1/8"	Custom	11.391 - 12.016	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-½-¼	12.017 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
60"	Custom	11.391 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	¼-½-¼	13.398 - 15.360	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
	⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-½-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
	⅓-⅓-⅓	19.111 - 24.641	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4
96"	Custom	18.380 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	¼-½-¼	19.398 - 24.380	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4
	Custom	24.361 - 30.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4
120"	¼-½-¼	** - 30.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4

SEE TABLE 14 FOR DESIGN PRESSURE

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 59.28}{2}$

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group F
	3.7"

NOTES:
1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.
4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By
Miami-Dade Product Control

Rev B: ADDED NOTE TO ANCHOR QTY. TABLES.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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Title	ANCHOR QUANTITY TABLES
Date	05/15/15
Desc.	HORIZONTAL ROLLER - LM
Drawn By	J ROSOWSKI
Series	HR-5510
Scale	NTS
Sheet	14 OF 18
DWG No.	MD-HR5510-01
Rev.	B

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/31/17

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 26:

MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

Anchor Quantities for XOX Windows

Glass Types 10 - 12 Reinf. Level R4	Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	24" Height Jamb	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb
			Anchor Group A											
Window Buck Width	35-1/4"	⅓-⅓-⅓	Not Allowed											
	38"	⅓-⅓-⅓												
	45-1/8"	¼-⅓-¼												
		⅓-⅓-⅓												
	47-3/4"	¼-⅓-¼												
		⅓-⅓-⅓												
	52-1/8"	Custom												
		¼-⅓-¼												
		⅓-⅓-⅓												
	60"	Custom												
		¼-⅓-¼												
		⅓-⅓-⅓												
	75"	Custom												
		¼-⅓-¼												
		⅓-⅓-⅓												
	96"	Custom												
		¼-⅓-¼												
		⅓-⅓-⅓												
	120"	¼-⅓-¼												
		⅓-⅓-⅓												
	140"	Custom	** - 39.641											
			Anchor Group B											
Window Buck Width	35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	45-1/8"	¼-⅓-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	13.398 - 14.683	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4
	47-3/4"	¼-⅓-¼	11.391 - 12.297	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
	52-1/8"	Custom	11.391 - 12.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
		¼-⅓-¼	12.017 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
	60"	Custom	11.391 - 13.397	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C3+2+C3+1	4	1+C3+2+C3+1	4
		¼-⅓-¼	13.398 - 15.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C3+2+C3+1	4	1+C3+2+C3+1	4
		⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4
	75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C3+3+C3+1	4	1+C3+3+C3+1	4
		¼-⅓-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+3+C3+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4
		⅓-⅓-⅓	19.111 - 24.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C3+0+C3+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	96"	Custom	17.641 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+4+C2+1	3	1+C3+4+C3+1	4	1+C3+4+C3+1	4	1+C4+4+C4+1	4
		¼-⅓-¼	19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+4+C2+1	3	1+C3+4+C3+1	4	1+C3+4+C3+1	4	1+C4+4+C4+1	4
		⅓-⅓-⅓	24.361 - 31.641	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+3+C3+2	4	2+C3+3+C3+2	4	2+C4+3+C4+2	4
	120"	¼-⅓-¼	29.641 - 32.515	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+4+C2+2	3	2+C3+4+C3+2	4	2+C3+4+C3+2	4	2+C4+4+C4+2	4
		⅓-⅓-⅓	32.516 - 39.641	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+4+C3+2	4	2+C4+4+C4+2	4	2+C5+4+C5+2	4
	140"	Custom	** - 39.641	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+4+C2+2	3	2+C3+4+C3+2	4	2+C4+4+C4+2	4	2+C5+4+C5+2	4

Glass Types 10 - 12 Reinf. Level R4	Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	24" Height Jamb	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb
			Anchor Group C											
Window Buck Width	35-1/4"	⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	38"	⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	45-1/8"	¼-⅓-¼	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4
	47-3/4"	¼-⅓-¼	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
	52-1/8"	Custom	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
		¼-⅓-¼	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
	60"	Custom	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C3+2+C3+1	4	1+C3+2+C3+1	4
		¼-⅓-¼	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C3+2+C3+1	4	1+C3+2+C3+1	4
		⅓-⅓-⅓	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4
	75"	Custom	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4
		¼-⅓-¼	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C3+3+C3+1	4	1+C3+3+C3+1	4
		⅓-⅓-⅓	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	4	1+C3+2+C3+1	4	1+C4+2+C4+1	4
		⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C3+0+C3+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	96"	Custom	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+4+C3+1	4	1+C3+4+C3+1	4	1+C4+4+C4+1	4
		¼-⅓-¼	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+3+C3+1	4	1+C3+3+C3+1	4	1+C4+3+C4+1	4
		⅓-⅓-⅓	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	4	1+C3+2+C3+1	4	1+C4+2+C4+1	4
	120"	¼-⅓-¼	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+3+C3+2	4	2+C3+3+C3+2	4	2+C4+3+C4+2	4
		⅓-⅓-⅓	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+4+C3+2	4	2+C3+4+C3+2	4	2+C4+4+C4+2	4
	140"	Custom	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+4+C3+2	4	2+C4+4+C4+2	4	2+C4+4+C4+2	4
			Anchor Group D											
Window Buck Width	35-1/4"	⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	38"	⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	45-1/8"	¼-⅓-¼	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4
	47-3/4"	¼-⅓-¼	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
	52-1/8"	Custom	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
		¼-⅓-¼	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
		⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
	60"	Custom	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C3+2+C3+1	4	1+C3+2+C3+1	4
		¼-⅓-¼	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C3+2+C3+1	4	1+C3+2+C3+1	4
		⅓-⅓-⅓	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C3+1+C3+1	4	1+C3+1+C3+1	4
	75"	Custom	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4
		¼-⅓-¼	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C3+3+C3+1	4	1+C3+3+C3+1	4
		⅓-⅓-⅓	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	4	1+C3+2+C3+1	4	1+C4+2+C4+1	4
		⅓-⅓-⅓	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C3+0+C3+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	96"	Custom	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+4+C3+1	4	1+C3+4+C3+1	4	1+C4+4+C4+1	4
		¼-⅓-¼	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+3+C3+1	4	1+C3+3+C3+1	4	1+C4+3+C4+1	4
		⅓-⅓-⅓	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	4	1+C3+2+C3+1	4	1+C4+2+C4+1	4
	120"	¼-⅓-¼	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+4+C3+2	4	2+C3+4+C3+2	4	2+C4+4+C4+2	4
		⅓-⅓-⅓	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+4+C3+2	4	2+C4+3+C4+2	4	2+C4+3+C4+2	4
	140"	Custom	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C3+4+C3+2	4	2+C4+4+C4+2	4	2+C4+4+C4+2	4

SEE TABLE 15 FOR DESIGN PRESSURE

GLASS TYPES 10-12 & 14-16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 60.72}{2}$

NOTES:
1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4).
SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.
4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By
Miami-Dade Product Control

Rev B: ADDED NOTE TO ANCHOR QTY. TABLES.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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Title	Date	Drawn By	DWG No.	Sheet	Scale	Series	Rev.
ANCHOR QUANTITY TABLES	05/15/15	J ROSOWSKI	MD-HR5510-01	15 OF 18	NTS	HR-5510	B

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 27: MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

Anchor Quantities for XOX Windows

Glass Types 14 - 16 Reinf. Level R4	Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	24" Height Jamb	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb
			Anchor Group A											
Window Buck Width 35-1/4"	⅓-⅓-⅓	11.391 - 11.391	Not Allowed											
38"	⅓-⅓-⅓	12.308 - 12.308												
45-1/8"	¼-½-¼	11.391 - 13.397												
	⅓-⅓-⅓	13.398 - 14.663												
47-3/4"	¼-½-¼	11.391 - 12.297												
	⅓-⅓-⅓	12.298 - 15.558												
52-1/8"	Custom	11.391 - 12.016												
	¼-½-¼	12.017 - 13.397												
	⅓-⅓-⅓	13.398 - 17.016												
60"	Custom	11.391 - 13.397												
	¼-½-¼	13.398 - 15.360												
	⅓-⅓-⅓	15.361 - 19.641												
75"	Custom	11.391 - 13.397												
	¼-½-¼	13.398 - 19.110												
	⅓-⅓-⅓	19.111 - 24.641												
96"	Custom	17.641 - 19.397												
	¼-½-¼	19.398 - 24.360												
	⅓-⅓-⅓	24.361 - 31.641												
120"	¼-½-¼	29.641 - 32.515												
	⅓-⅓-⅓	32.516 - 39.641												
140"	Custom	** - 39.641												
			Anchor Group B											
Window Buck Width 35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4
45-1/8"	¼-½-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4
	⅓-⅓-⅓	13.398 - 14.663	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C5+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
47-3/4"	¼-½-¼	11.391 - 12.297	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4
	⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
52-1/8"	Custom	11.391 - 12.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C3+0+C3+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	¼-½-¼	12.017 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C3+0+C3+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C3+0+C3+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
60"	Custom	11.391 - 13.397	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C3+2+C3+1	4	1+C4+2+C4+1	4
	¼-½-¼	13.398 - 15.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4
	⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+3+C3+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4
	¼-½-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+3+C3+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4
	⅓-⅓-⅓	19.111 - 24.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C3+0+C3+1	3	1+C5+0+C3+1	4	1+C4+0+C4+1	4	1+C5+0+C5+1	4
96"	Custom	17.641 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+4+C3+1	4	1+C4+4+C4+1	4	1+C4+4+C4+1	4
	¼-½-¼	19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C4+4+C4+1	4	1+C4+4+C4+1	4	1+C4+3+C4+1	4
	⅓-⅓-⅓	24.361 - 31.641	1+C2+2+C2+1	2	2+C2+2+C2+2	2	2+C2+3+C2+2	3	2+C4+3+C4+2	4	2+C4+3+C4+2	4	1+C4+2+C4+1	4
120"	¼-½-¼	29.641 - 32.515	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C4+3+C4+2	4
	⅓-⅓-⅓	32.516 - 39.641	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C4+3+C4+2	4	2+C4+3+C4+2	4	2+C4+2+C4+2	4
140"	Custom	** - 39.641	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+4+C2+2	3	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C4+3+C4+2	4

Glass Types 14 - 16 Reinf. Level R4	Sash Configuration	Sash Width Range (in)	24" Height Head & Sill	24" Height Jamb	30" Height Head & Sill	30" Height Jamb	36" Height Head & Sill	36" Height Jamb	48" Height Head & Sill	48" Height Jamb	54" Height Head & Sill	54" Height Jamb	63" Height Head & Sill	63" Height Jamb
			Anchor Group C											
Window Buck Width 35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4
45-1/8"	¼-½-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4
	⅓-⅓-⅓	13.398 - 14.663	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
47-3/4"	¼-½-¼	11.391 - 12.297	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
52-1/8"	Custom	11.391 - 12.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	¼-½-¼	12.017 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
60"	Custom	11.391 - 13.397	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4
	¼-½-¼	13.398 - 15.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4
	⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+3+C3+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4
	¼-½-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+3+C3+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4
	⅓-⅓-⅓	19.111 - 24.641	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C5+0+C5+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
96"	Custom	17.641 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+4+C3+1	4	1+C4+4+C4+1	4	1+C4+4+C4+1	4
	¼-½-¼	19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C4+4+C4+1	4	1+C4+4+C4+1	4	1+C4+3+C4+1	4
	⅓-⅓-⅓	24.361 - 31.641	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4
120"	¼-½-¼	29.641 - 32.515	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C4+3+C4+2	4
	⅓-⅓-⅓	32.516 - 39.641	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C4+3+C4+2	4	2+C4+3+C4+2	4	2+C4+2+C4+2	4
140"	Custom	** - 39.641	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C4+3+C4+2	4
			Anchor Group D											
Window Buck Width 35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4
45-1/8"	¼-½-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C4+0+C4+1	4
	⅓-⅓-⅓	13.398 - 14.663	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
47-3/4"	¼-½-¼	11.391 - 12.297	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C3+0+C3+1	4	1+C3+0+C3+1	4
52-1/8"	Custom	11.391 - 12.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	¼-½-¼	12.017 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
	⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C3+0+C3+1	4	1+C4+0+C4+1	4	1+C4+0+C4+1	4
60"	Custom	11.391 - 13.397	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4
	¼-½-¼	13.398 - 15.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4
	⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+3+C3+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4
	¼-½-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+3+C3+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4
	⅓-⅓-⅓	19.111 - 24.641	1+C2+0+C2+1	2	1+C3+0+C3+1	2	1+C3+0+C3+1	3	1+C4+0+C4+1	4	1+C5+0+C5+1	4	1+C5+0+C5+1	4
96"	Custom	17.641 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C3+4+C3+1	4	1+C4+4+C4+1	4	1+C4+3+C4+1	4
	¼-½-¼	19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C4+3+C4+1	4	1+C4+3+C4+1	4	1+C4+3+C4+1	4
	⅓-⅓-⅓	24.361 - 31.641	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C4+2+C4+1	4	1+C4+2+C4+1	4	1+C4+2+C4+1	4
120"	¼-½-¼	29.641 - 32.515	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C4+3+C4+2	4
	⅓-⅓-⅓	32.516 - 39.641	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C4+3+C4+2	4	2+C4+3+C4+2	4	2+C4+2+C4+2	4
140"	Custom	** - 39.641	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	2+C4+4+C4+2	4	2+C4+4+C4+2	4	2+C4+3+C4+2	4

SEE TABLE 16 FOR DESIGN PRESSURE

GLASS TYPES 10-12 & 14-16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

** MIN. SASH SIZE = $\frac{\text{WINDOW WIDTH} - 60.72}{2}$

NOTES:
1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4).
SASH SIZE IS AS PER THE FIGURES ON SHEETS 6-8.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
3) SEE SHEET 9 FOR A GUIDE TO USING THESE TABLES.
4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By
Miami-Dade Product Control

Rev B: ADDED NOTE TO ANCHOR QTY. TABLES.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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Date	05/15/15
Drawn By	J ROSOWSKI
Rev.	B
Title	ANCHOR QUANTITY TABLES
Sheet Desc.	HORIZONTAL ROLLER - LM
Scale	NTS
Sheet No.	16 OF 18
DWG No.	MD-HR5510-01
Series	HR-5510

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

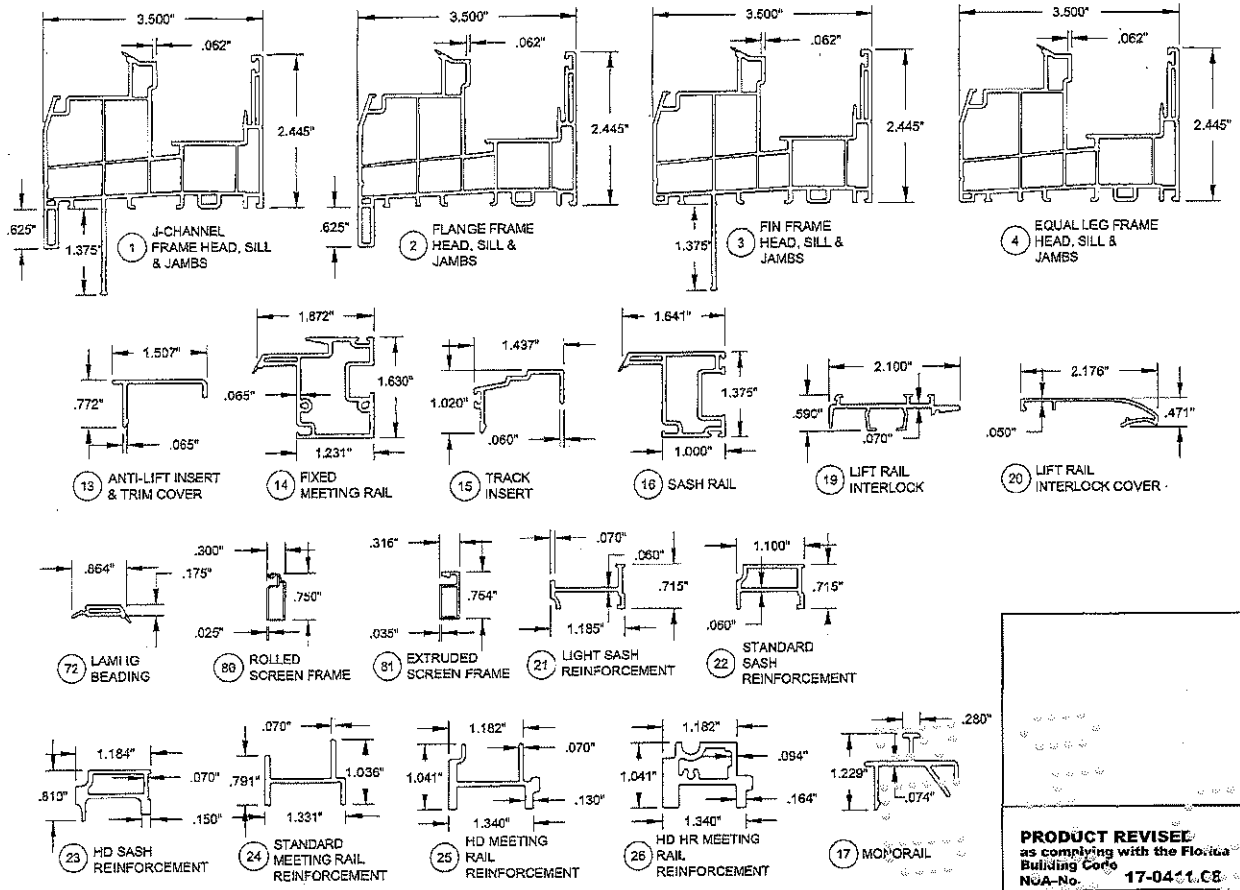
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 28:

Bill of Material

#	Part #	Description	Material
1	620121	Frame Head, Sill and Jambs - J-Channel	PVC
2	620122	Frame Head, Sill and Jambs - Flange	PVC
3	620123	Frame Head, Sill and Jambs - Fin	PVC
4	620124	Frame Head, Sill and Jambs - Equal Leg	PVC
13	620172	Anti-Lift Insert / Trim Cover	PVC
14	620131	Fixed Meeting Rail	PVC
15	620158	Track Insert	6063 T6 Al
16	620129	Sash Rail (Sides, Top & Bottom)	PVC
17	620166	Monorail	6063 T6 Al
19	620156	Pull Rail Interlock	6063 T6 Al
20	620144	Pull Rail Interlock Cover	PVC
21	620150	Light Sash Reinforcement	6063 T6 Al
22	620151	Standard Sash Reinforcement	6063 T6 Al
23	620152	HD Sash Reinforcement	6063 T6 Al
24	620153	Standard Meeting Rail Reinforcement	6005 T5 Al
25	620154	HD Meeting Rail Reinforcement	6005 T5 Al
26	620155	H.D. Horiz. Roller Meeting Rail Reinforcement	6005 T5 Al
27	710X114PPA	#10 x 1-1/4" PH. PH SDS (Monorail Screw)	410 SS
28	61644	Weatherstrip, .187" x .270" Fin Pile	
29	61719	Weatherstrip, .187" x .220" Poly Pile	
30		#8 x 1" Ph. PH SDS (Interlock Mounting Screw)	410 SS
31	78X312PPA	#8 x 3-1/2" Ph. PH SMS (Fixed Meeting Rail Screw)	410 SS
32	71669SP	Meeting Rail Screw Support Plate	6063 T5 Al
33	720210	Weep Hole Cover	PVC
34	720187	Installation Screw Hole Plug	PVC
37	720197	Auto Lock	C Steel
38	720199	Sweep Lock	Cast Zinc
39	720198	Auto Lock Cover Assembly	Cast Zinc
40		#6 x 1-1/8" Ph. FH SDS (Auto and Sweep Lock Screw)	SS
41	720200	Auto and Sweep Lock Keeper	Cast Zinc
42	76X34PPA	#6 x 3/4" PH. PH SDS (Keeper Screw)	SS
43	7612FPTX	#8 x 1/2" FPH Tek (Reinforcement Screw)	SS
44		Leadstile Top Corner Key	Nylon
45		Leadstile Bottom Corner Key	Nylon
46		Lockstile Top Corner Key	Nylon
47		Lockstile Bottom Corner Key	Nylon
48	720204	Wheel	Nylon
72	620135	Lami. I.G. Bead	PVC
74		Backbedding, GE 7700 or Dow 791	Silicone
75	71684/5	Setting Block (7/8" x 2" x 1/8"), 85 +/- 5 duro.	EPDM
80	61011	Roll-formed Screen	Alum
81	61012	Extruded Screen Frame	Alum
82		Extruded Screen Spreader Bar	Alum
83	47042W	Screen Corner Key with Pull Ring	PVC
84	47041W/CKGLB	Screen Corner Key No Pull Ring	PVC
85	7CASPM	Tension Spring	SS
86	61816C48	Screen Cloth	Fiberglass
87	61635/61614	.140" Screen Spline (Machine/Hand Rolled)	Vinyl

NOTES:
1) ITEMS # 5-12, 18, 35, 36, 49-71 & 73 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.
2) PVC BY ENERGI WINDOW AND DOOR PROFILES, LTD., TO BE LABELED FOR AAMA EXTRUDER CODE.



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0411.08
Expiration Date 09/24/2020
By: Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
3/31/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

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1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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Revised By:	Date:	Revision:
JR	03/27/17	NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:

Description:	Drawn By:
WINDOW EXTRUSIONS & BOM	J ROSOWSKI
Title: HORIZONTAL ROLLER - LM	Date: 05/15/15

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
HR-5510	NTS	17 OF 18	MD-HR5510-01	B

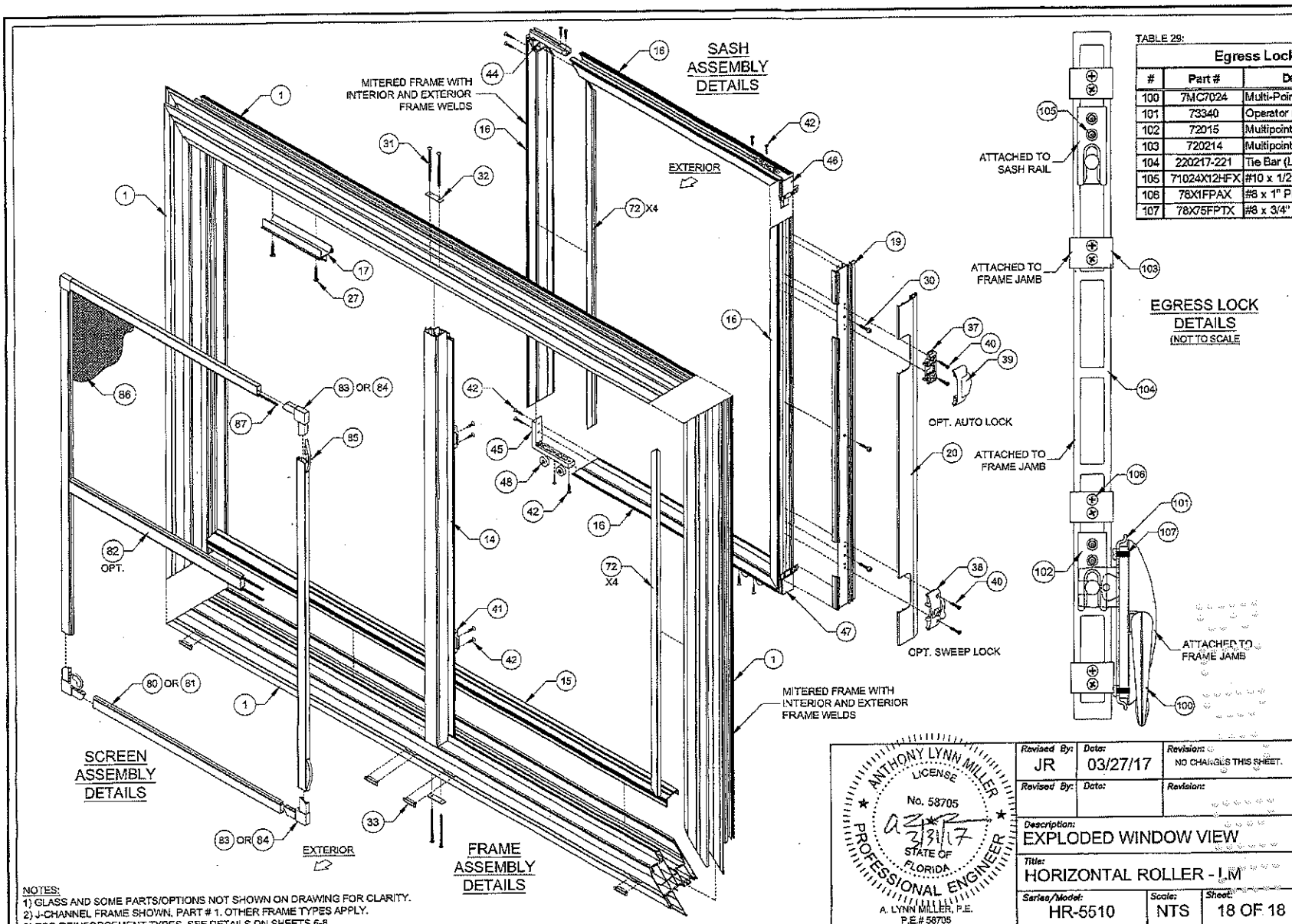

TABLE 29:

Egress Lock Bill of Material

#	Part #	Description	Material
100	7MC7024	Multi-Point Lock Operator	Cast Zinc
101	73340	Operator mounting Plate	Steel
102	72015	Multipoint Lock Keeper	Aluminum
103	720214	Multipoint Lock Guide	Nylon
104	220217-221	Tie Bar (Length Varies)	Stainless Steel
105	71024X12HFX	#10 x 1/2" HH MS	Stainless Steel
106	78X1FPAX	#8 x 1" Ph. FH SMS	Stainless Steel
107	78X75FPTX	#8 x 3/4" Ph. FH SDS	Stainless Steel

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Miami-Dade Product Control

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600
CERT. OF AUTH. #28296

NOTES:
1) GLASS AND SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.
2) J-CHANNEL FRAME SHOWN, PART # 1. OTHER FRAME TYPES APPLY.
3) FOR REINFORCEMENT TYPES, SEE DETAILS ON SHEETS 6-8.

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
3/31/17
A. LYNN MILLER, P.E.
P.E.# 58705

Revised By:	Date:	Revision:
JR	03/27/17	NO CHANGES THIS SHEET.
Revised By:	Date:	Revision:

Description:	Drawn By:
EXPLODED WINDOW VIEW	J ROSOWSKI

Title:	Date:
HORIZONTAL ROLLER - LM	05/15/15

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
HR-5510	NTS	18 OF 18	MD-HR5510-01	B

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "CA-5540" Outswing PVC Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-5540C.0** titled "Vinyl Casement Window NOA (LM)", sheets 1 through 11 of 11, dated 09/09/14, with revision B dated 05/15/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA# 16-0714.11** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

9/6/17

NOA No. 17-0614.16
Expiration Date: September17, 2020
Approval Date: September 14, 2017

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 15-0420.11)
2. Drawing No. **MD-5540C.0** titled "Vinyl Casement Window NOA (LM)", sheets 1 through 11 of 11, dated 09/09/14, with revision B dated 05/15/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal® spacer system, Super Spacer® NXT™ spacer system and XL Edge™ spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717, FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.
   (Submitted under previous NOA No. 16-0714.11)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
   5) Large Missile Impact Test per FBC, TAS 201-94
   6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of a series CA5540/CA5440 vinyl outswing casement windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8179**, dated 03/31/15, signed and sealed by Idalmis Ortega, P.E.
   (Submitted under NOA No. 15-0420.11)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
   5) Large Missile Impact Test per FBC, TAS 201-94
   6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of a series 5540/5440 vinyl fixed windows w/tube mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8174**, dated 03/31/15, signed and sealed by Idalmis Ortega, P.E.
   (Submitted under NOA No. 15-0420.11)
4. Reference Awning Window Test Report No. **FTL-8183**, per TAS 201, 202 & 203-94, with an addendum issued by Fenestration Testing Laboratory, Inc.
   (Submitted under NOA No. 15-0420.11)

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-0614.16
Expiration Date: September17, 2020
Approval Date: September 14, 2017

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 08/28/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. ***(Submitted under previous NOA No. 15-0420.11)***
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS (CONTINUED)

1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/19/17, expiring on 07/08/19.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 06/25/15, expiring on 07/04/18.
3. Notice of Acceptance No. **12-1120.02** issued to Royal Window and Door Profiles, Plant 13 for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 02/28/13, expiring on 02/28/18.
4. Notice of Acceptance No. **14-0529.13** issued to Royal Window and Door Profiles, Plant 13 for their "**Bronze and Lighter Shades of Cap Coated Rigid PVC Exterior Extrusions for Windows and Doors**" dated 04/16/15, expiring on 04/16/20.
5. Notice of Acceptance No. **14-0529.14** issued to Royal Window and Door Profiles, Plant 13 for their "**Performance Core Rigid PVC Exterior Extrusions for Windows and Doors**" dated 04/16/15, expiring on 04/16/20.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)** and with **FBC 6th Edition (2017)**, dated August 29, 2017, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated April 16, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E. ***(Submitted under previous NOA No. 15-0420.11)***
3. Proposal issued by the Product Control Section, dated 09/29/14 and revised on 10/15/14, signed by Jaime D. Gascon, P.E. ***(Submitted under NOA No. 15-0420.11)***
4. Proposal No. **16-0125** issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.

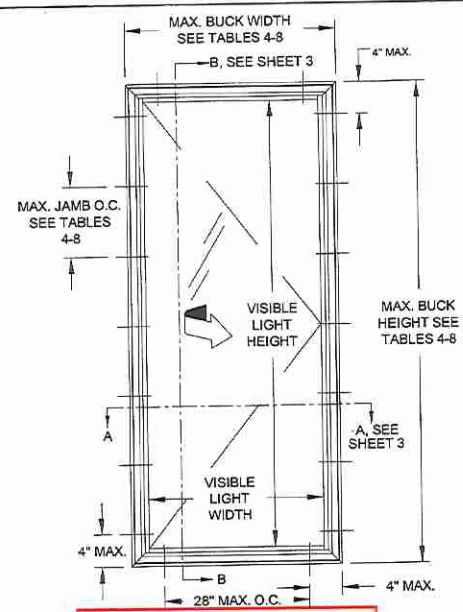
G. OTHERS

1. Notice of Acceptance No. **16-0714.11**, issued to PGT Industries, Inc. for their Series "CA-5540" Outswing PVC Casement Window - L.M.I." approved on 08/25/16 and expiring on 09/17/20.

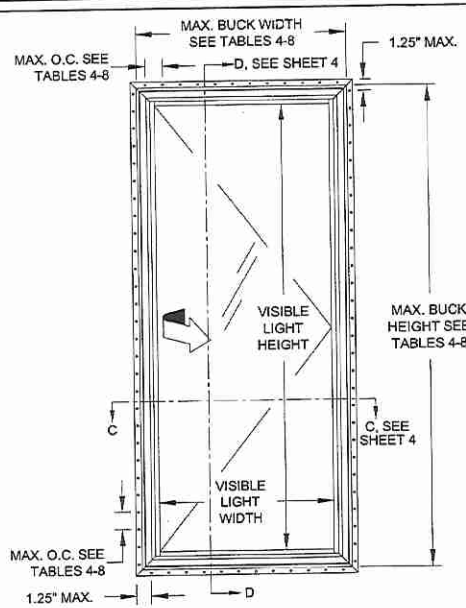
Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-0614.16
Expiration Date: September17, 2020
Approval Date: September 14, 2017

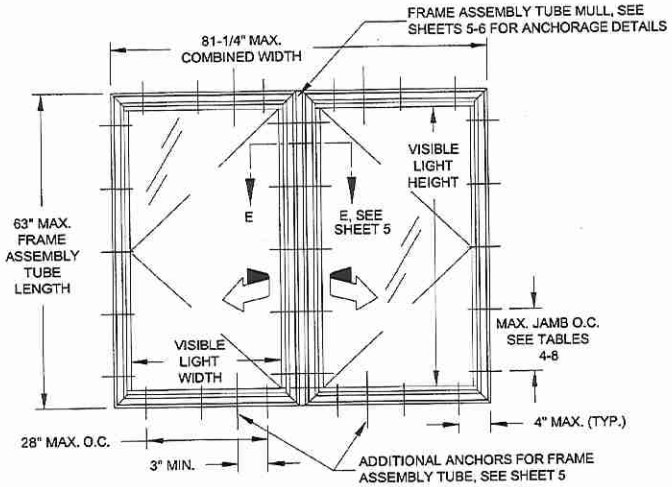
IMPACT RATING	DESIGN PRESSURE RATING
LARGE & SMALL MISSILE IMPACT RESISTANT	VARIES PER OPTIONS, SEE TABLES 4-8, SHEETS 8-9



TYP. EQUAL-LEG/BOX & FLANGE FRAME ANCHORAGE



TYP. INTEGRAL FIN & J-CHANNEL FRAME ANCHORAGE



TYP. X-X EQUAL-LEG/BOX & FLANGE FRAME ANCHORAGE

GENERAL NOTES: SERIES 5540 IMPACT RESISTANT, VINYL CASEMENT WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.

3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.

4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

6) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

7) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED AND SECURED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

9) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION

10) REFERENCES: TEST REPORTS FTL-8139, 8174; ELCO ULTRACON NOA; ELCO CRETEFLEX NOA; ELCO AGGRE-GATOR NOA; ENERGI WINDOW AND DOOR PROFILES, LTD WHITE & BRONZE/LIGHTER SHADES OF CAP COATED PVC EXTRUSION NOA'S; NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ANSI/AF&PA NDS & ALUMINUM DESIGN MANUAL

11) PVB AND SG INTERLAYERS MANUFACTURED BY KURARAY AMERICA, INC.

12) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

VISIBLE LIGHT FORMULAS

WIDTH: BUCK WIDTH - 6-3/4"
HEIGHT: BUCK HEIGHT - 6-3/4"

GENERAL NOTES..... 1
ELEVATIONS..... 1
FRAME, GLASS & ANCHOR OPTIONS..... 2
INSTALLATION, FLANGE & EQUAL LEG..... 3
INSTALLATION, INTEGRAL FIN & J-CHANNEL..... 4
FRAME ASSEMBLY TUBE..... 5-6
GLAZING DETAILS..... 7
DESIGN PRESSURES..... 8-9
BOM & ASSEMBLY..... 10-11

CODES / STANDARDS USED:

- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM 2015
- AISI S100-12
- AISC 360-10

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-0614.16
Expiration Date Sept. 17, 2020
By Manuel Perez
Miami-Dade Product Control

Rev B
05/15/17 - JR - UPDATED TO FBC 2017. MOVED ANCHORS TO CORRECT FRAME CHANNEL.

1070 TECHNOLOGY DRIVE
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(941)-480-1600

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CERT. OF AUTH. #29296

Series	Doc. Title	Sheet	Scale	DWG No.	Drawn By	Date	Rev.
CA-5540	GENERAL NOTES AND ELEVATION	1 OF 11	NTS	MD-5540C.0	J ROSOWSKI	9/9/14	B

VINYL CASEMENT WINDOW NOA (LM)

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/9/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 1:

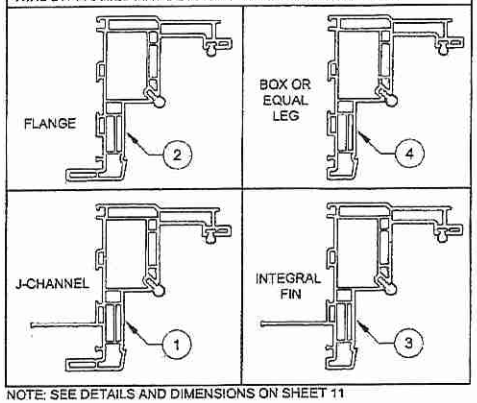
Glass Type	Description	Table #	Sheet #
5	7/8" Laminated I.G.: 1/8" A Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	4	8
6	7/8" Laminated I.G.: 1/8" T Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	5	8
7	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	6	9
8	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" A Glass with .090" PVB Interlayer	6	9
9	7/8" Laminated I.G.: 1/8" A Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	9
10	7/8" Laminated I.G.: 1/8" T Exterior Cap + 7/16" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	9
11	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	9
12	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 5/16" Laminated; (2) Lites of 1/8" H Glass with .090" SG Interlayer	7	9
13	7/8" Laminated I.G.: 1/8" A Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	8	9
14	7/8" Laminated I.G.: 1/8" T Exterior Cap + 5/16" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	8	9
15	7/8" Laminated I.G.: 3/16" A Exterior Cap + 1/4" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	8	9
16	7/8" Laminated I.G.: 3/16" T Exterior Cap + 1/4" Air Space + 7/16" Laminated; (2) Lites of 3/16" A Glass with .090" SG Interlayer	8	9

"A" = ANNEALED
"H" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

GLASS TYPES 9 THROUGH 16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES.

GLASS TYPES 5, 7, 9, 11, 13 & 15 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

WINDOW FRAMES MAY BE ANY OF THOSE SHOWN BELOW:

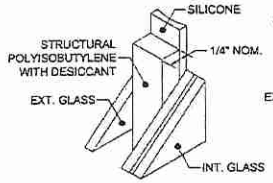


NOTE: SEE DETAILS AND DIMENSIONS ON SHEET 11

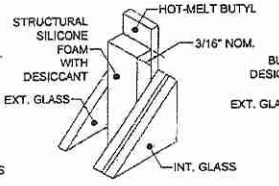
TABLE 2: ANCHORS INSTALLED THROUGH FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.050"
	3/16" steel Ultracon	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Concrete (min. 2.85 ksi)	1"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.063"
	1/4" steel Ultracon	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Creteflex	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
C	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	1"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" steel Creteflex	Concrete (min. 3.35 ksi)	1"	1-3/4"
D	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
	1/4" steel Creteflex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" steel Aggre-Gator	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
		Grouted CMU, (ASTM C-90)	2"	2"

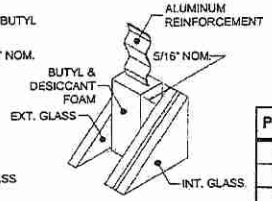
* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.



(100) KODISPACE 4SG TPS



(101) SUPER SPACER® NXT™

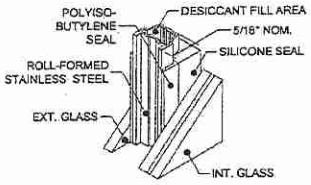


(102) DURASEAL® SPACER

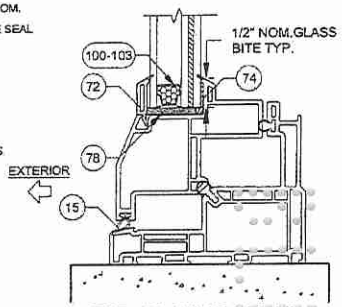
Part #	Description	Material
100	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
101	Quanex Super Spacer nXT with Hot Melt Butyl	
102	Quanex Duraseal Spacer	
103	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

Material	Min. F_y	Min. F_u
Steel Screw	92 ksi	120 ksi
18-8 Screw	60 ksi	95 ksi
410 Screw	90 ksi	110 ksi
Elco Aggre-Gator®	57 ksi	96 ksi
Elco UltraCon®	155 ksi	177 ksi
410 SS Elco CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi



(103) XL EDGE™ SPACER



TYP. GLAZING DETAIL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0614.16
Expiration Date Sept. 17, 2020
By
Miami-Dade Product Control

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
F	2-1/2" Ring-shank Roofing Nail	P.T. Southern Pine (SG=.55)	3/8"	2-7/16"
	#10 Trusshead SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.050"
		Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
		Steel, A36*	3/8"	0.050"
	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.063"
		Steel Stud, Gr. 33*	3/8"	0.050"
		Steel, A36*	3/8"	0.050"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

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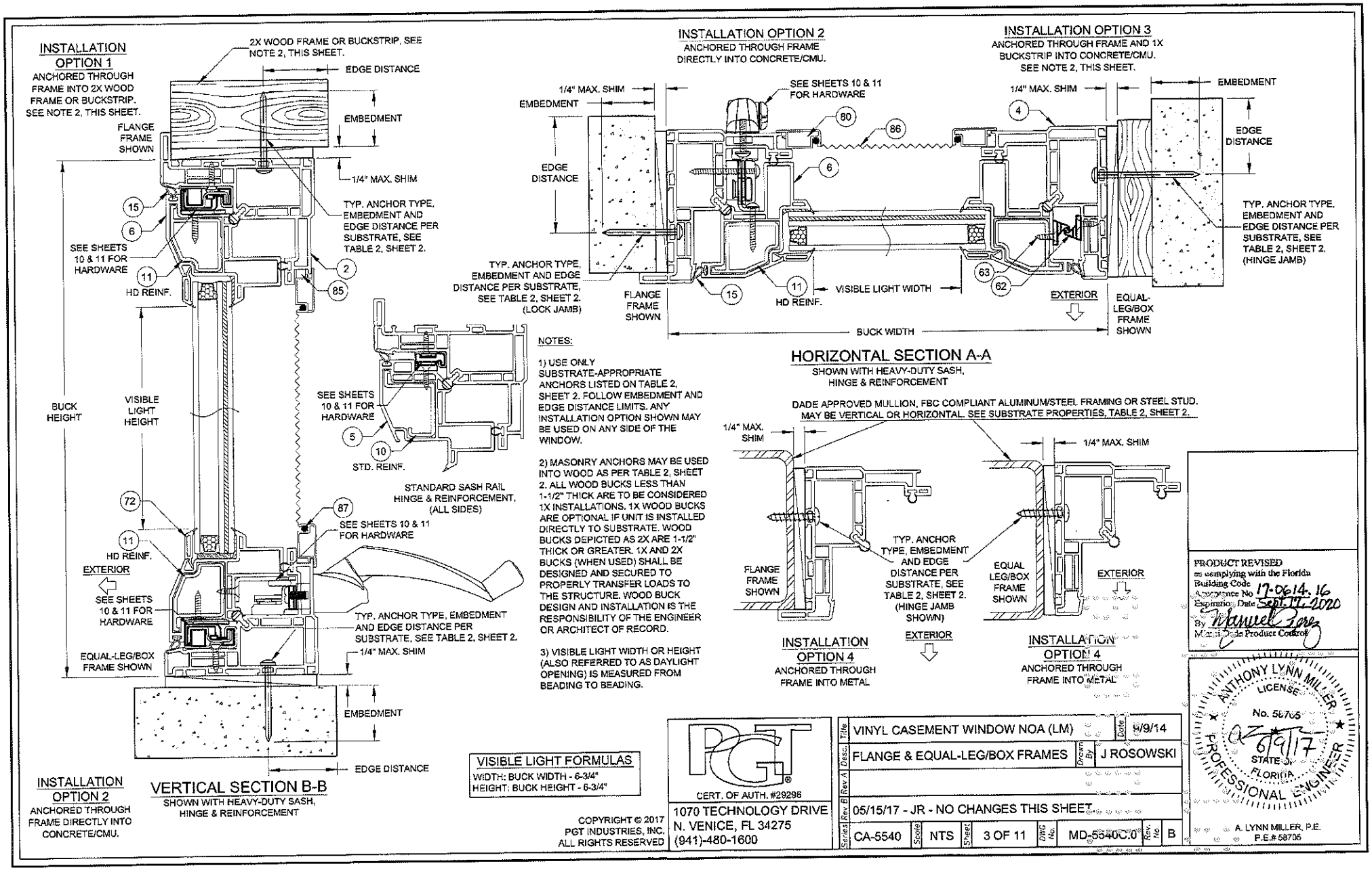
PGT®
CERT. OF AUTH. #29296
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

Title	VINYL CASEMENT WINDOW NOA (LM)	Date	9/9/14
Desc.	GLASS/ANCHORS/FRAME OPTIONS	Drawn By	J POSOWSKI
Rev. A			
Rev. B	05/15/17 - JR - ANCHORS RE-GROUPED.		
Series	CA-5540	Scale NTS	Sheet 2 OF 11
DWG. No.	MD-5540C.0	Rev. No.	B

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/9/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



NOTES:

1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 2, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

VISIBLE LIGHT FORMULAS
WIDTH: BUCK WIDTH - 6-3/4"
HEIGHT: BUCK HEIGHT - 6-3/4"

PRODUCT REVISED
as complying with the Florida Building Code
Approval No. 17-0614.16
Expiration Date Sept. 14, 2020
By Manuel Perez
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/9/17

A. LYNN MILLER, P.E.
P.E.# 58705

PGT®
CERT. OF AUTH. #29296
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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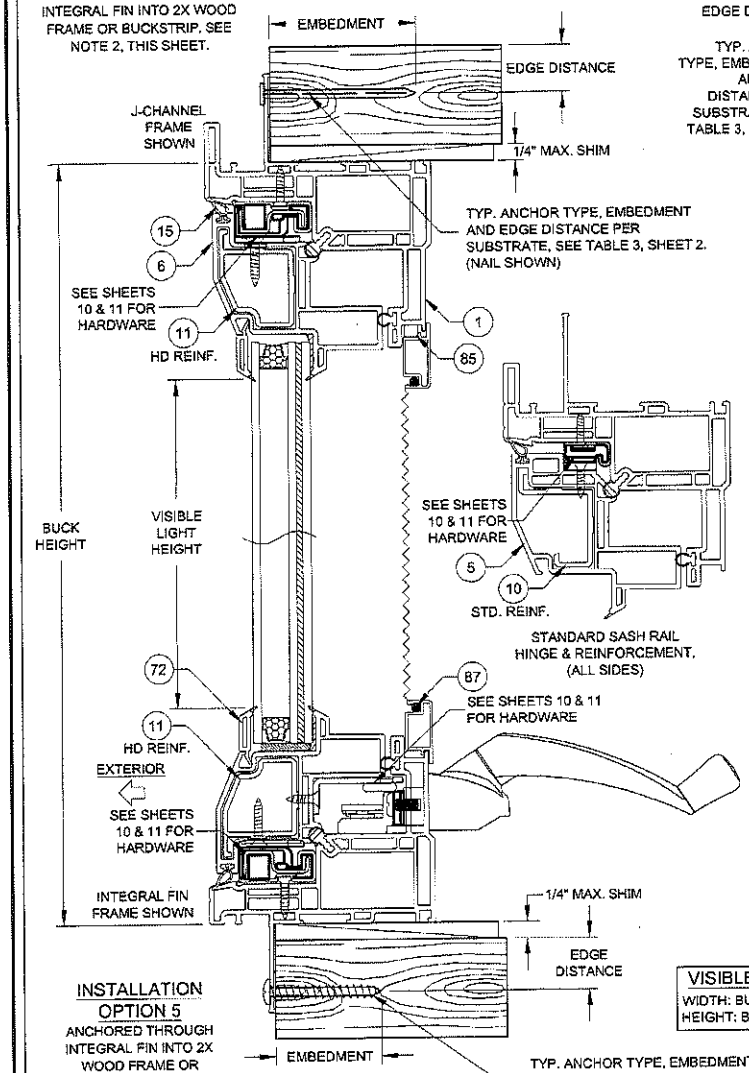
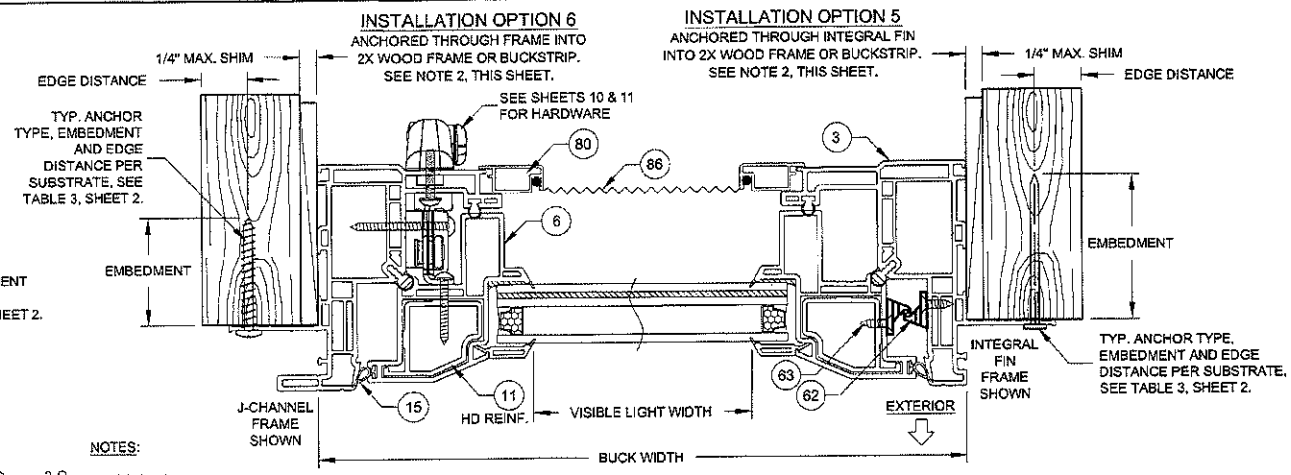
Series	CA-5540	Scale	NTS	Sheet	3 OF 11
DWG No.	MD-5540C.0	Rev. No.	B		

Rev. A	Desc.	Title	VINYL CASEMENT WINDOW NOA (LM)
Rev. B		Date	5/9/14
	FLANGE & EQUAL-LEG/BOX FRAMES	Drawn By	J ROSOWSKI
	05/15/17 - JR - NO CHANGES THIS SHEET.		



VERTICAL SECTION D-D

SHOWN WITH HEAVY-DUTY SASH, HINGE & REINFORCEMENT



HORIZONTAL SECTION C-C

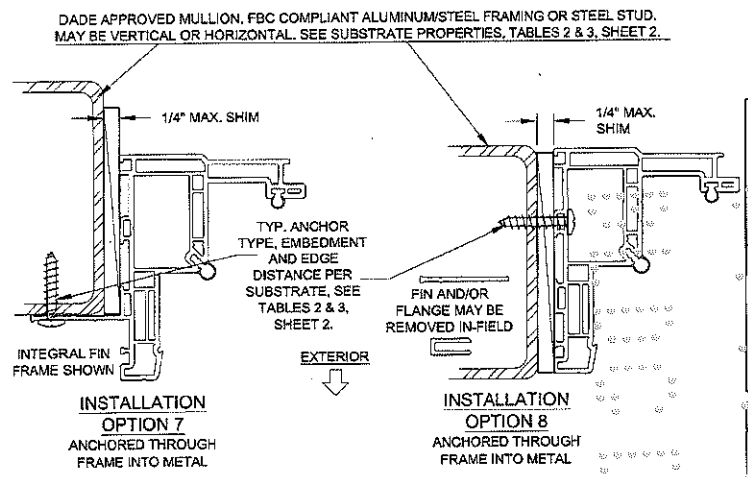
SHOWN WITH HEAVY-DUTY SASH, HINGE & REINFORCEMENT

NOTES:

1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.



VISIBLE LIGHT FORMULAS
WIDTH: BUCK WIDTH - 6-3/4"
HEIGHT: BUCK HEIGHT - 6-3/4"

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Acceptance No. 17-0614.16
Expiration Date Sept. 17, 2020
By: [illegible]
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/9/17
A. LYNN MILLER, P.E.
P.E.# 58705

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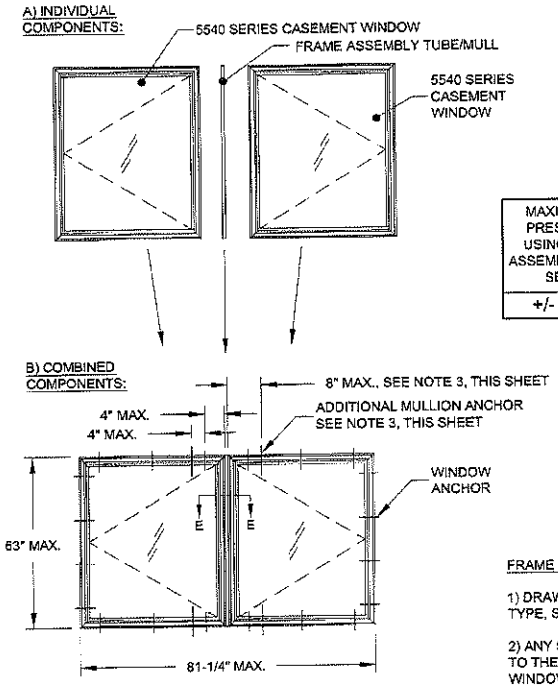
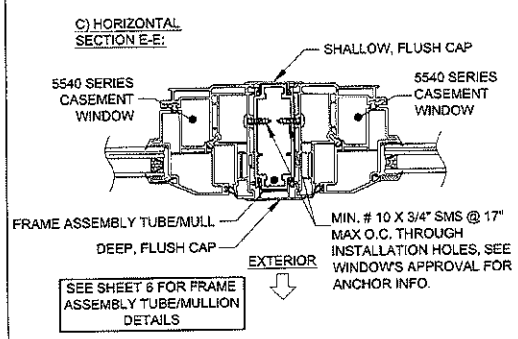
CERT. OF AUTH. #29296
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

Title	VINYL CASEMENT WINDOW NOA (LM)			Date	9/9/14
Desc.	J-CHANNEL & INTEGRAL FIN FRAMES			Drawn By	J. ROSOWSKI
Rev. A					
Rev. B	05/15/17 - JR - NO CHANGES THIS SHEET.				
Series	CA-5540	Scale NTS	Sheet 4 OF 11	DWG No. MD-5540C.0	Rev. No. B

ILLUSTRATION OF CASEMENT-TO-CASEMENT (X-X)
(EQUAL LEG/BOX FRAME WITH IDENTICAL PRODUCTS COMBINED)

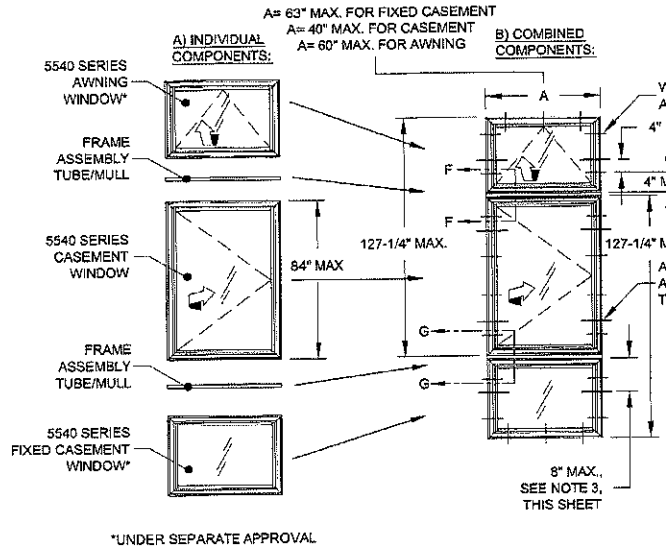


MAXIMUM DESIGN PRESSURE WHEN USING THE FRAME ASSEMBLY TUBE/MULL, SEE NOTE 2:
+/- 70.0 PSF

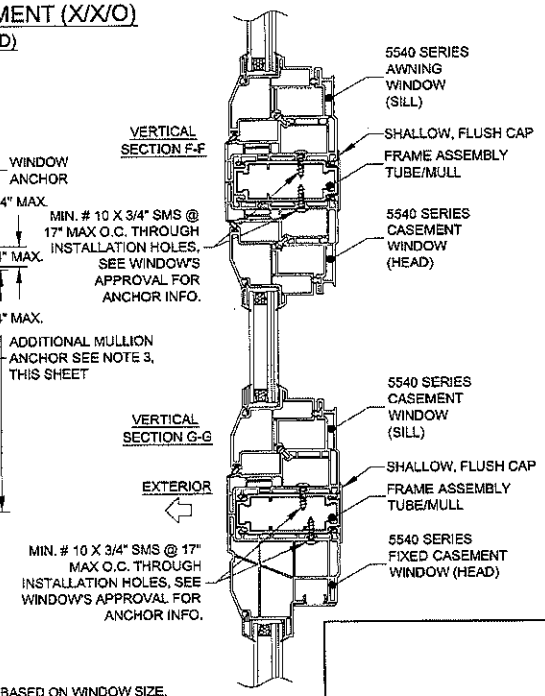


SEE SHEET 6 FOR FRAME ASSEMBLY TUBE/MULLION DETAILS

ILLUSTRATION OF AWNING-TO-CASEMENT-TO-FIXED CASEMENT (X/X/O)
(FLANGE FRAME WITH DIFFERENT 5540 SERIES PRODUCTS COMBINED)



*UNDER SEPARATE APPROVAL



FRAME ASSEMBLY TUBE/MULL NOTES, ALSO SEE NEXT SHEET:

1) DRAWINGS SHOWN ON THIS SHEET ARE EXAMPLE CONFIGURATIONS FOR ALL FRAME TYPES. ADDITIONAL CONFIGURATIONS BASED ON WINDOW SIZE, TYPE, SHAPE, QUANTITY AND FRAME ASSEMBLY TUBE ORIENTATION ARE PERMISSIBLE FOLLOWING THE GUIDELINES OF THIS SHEET.

2) ANY 5540-SERIES CASEMENT, FIXED CASEMENT (UNDER SEPARATE APPROVAL) OR AWNING WINDOW (UNDER SEPARATE APPROVAL) MAY BE ATTACHED TO THE FRAME ASSEMBLY TUBE/MULL, IN ANY COMBINATION TO THE SPAN AND WIDTH LIMIT SHOWN. FOR ALL WINDOWS IN THE ASSEMBLY, USE EACH WINDOW'S INDIVIDUAL APPROVAL FOR ANCHORAGE, SIZE AND DESIGN PRESSURE LIMITATIONS. THE LOWEST DESIGN PRESSURE OF THE WINDOWS OR FRAME ASSEMBLY TUBE/MULL APPLIES TO THE ENTIRE ASSEMBLY .

3) FOR ALL COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS ARE REQUIRED TO BE INSTALLED THROUGH THE WINDOW FRAMES, AS SHOWN ON THIS SHEET, ON EACH SIDE OF THE FRAME ASSEMBLY TUBE/MULL WHEN USING FLANGE OR EQUAL-LEG/BOX FRAMES. FOR FIN OR J-CHANNEL FRAMES ADDITIONAL ANCHORS AND END CAPS ARE REQUIRED AS SHOWN ON SHEET 6.

4) FOR FLANGE OR EQUAL-LEG/BOX FRAMES, THE FRAME ASSEMBLY TUBE TO BE FASTENED TO WINDOW, AS SHOWN IN DETAILS, WITH MIN. #10 X 3/4" SHEET METAL SCREWS. USE THE SAME SPACING AND QUANTITY AS THE WINDOW INSTALLATION ANCHORS GIVEN IN THAT PRODUCT'S APPROVAL, UP TO 17" MAX. O.C., ADD ADDITIONAL ANCHORS AS NEEDED. THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE. ALL EXTERIOR JOINTS TO BE SEALED BY INSTALLER.

5) THE FRAME ASSEMBLY TUBE/MULL MAY NOT EXCEED 63" IN LENGTH OR BE USED IN TEE OR CROSS CONFIGURATIONS. TWO ADJACENT WINDOWS MAY NOT EXCEED A TOTAL OF 127-1/4" IN WIDTH OR HEIGHT, FROM WINDOW BUCK TO WINDOW BUCK, INCLUDING THE FRAME ASSEMBLY TUBE/MULL WIDTH.

6) SHEET 5 & 6 REFER TO UNCLIPPED MULLION ASSEMBLIES. FOR CLIPPED MULLION ASSEMBLIES SEE TUBE MULLION UNDER SEPARATE APPROVAL.

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is complying with the Florida Building Code
Acceptance No. 17-0614.16
Expiration Date Sept. 17, 2020
By Miami-Dade Product Control

ANTHONY LYNN MILLER
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No. 58705
6/9/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

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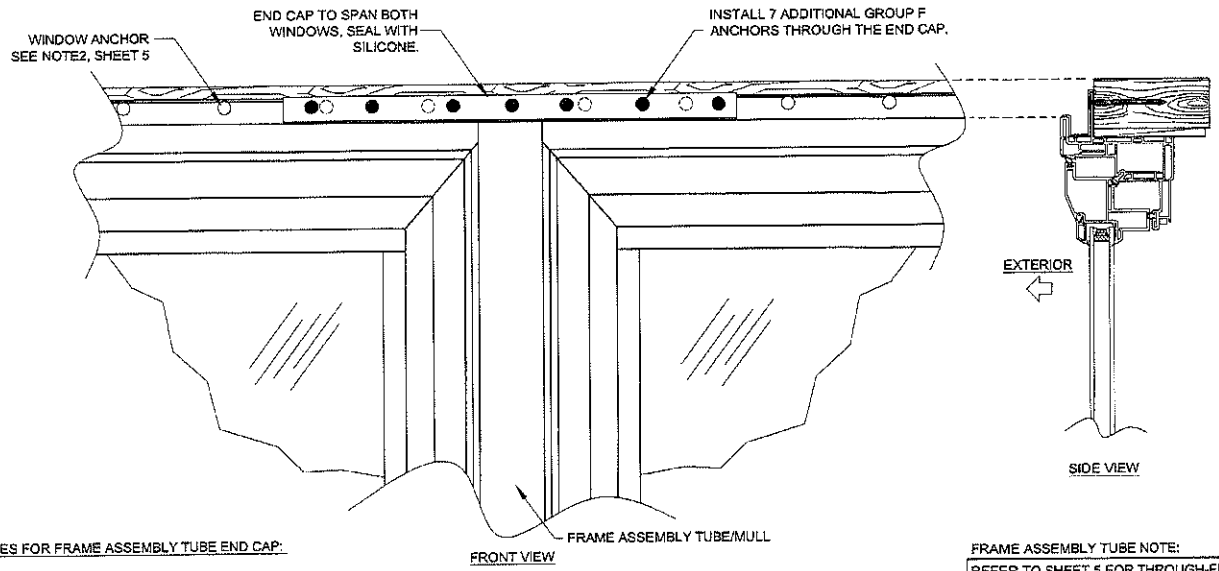
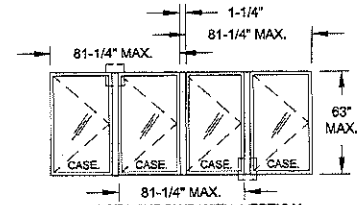
Title	VINYL CASEMENT WINDOW NOA (LM)	Date	5/9/14
Desc.	FRAME ASSEMBLY TUBE DETAILS A	Drawn by	J ROSOWSKI
Rev A			
Rev B	05/15/17 - JR - NO CHANGES THIS SHEET.		

Series	Scale	Sheet	DWG No.	Rev. No.
CA-5540	NTS	5 OF 11	MD-5540C.0	B

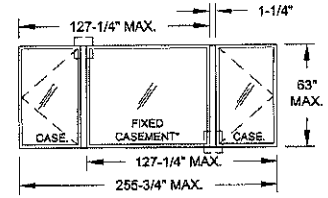
ILLUSTRATION OF END CAP USE WITH FIN AND J-CHANNEL FRAMES



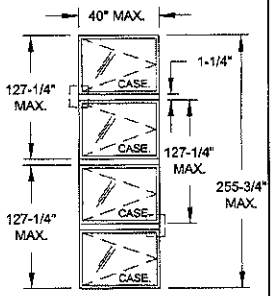
EXAMPLE CONFIGURATIONS WHEN USING THE FRAME ASSEMBLY TUBE/MULL. FOR TEES, CROSSES OR ASSEMBLIES WITH MORE THAN 4 UNITS USE CLIPPED, TUBE MULLION UNDER SEPARATE APPROVAL.



2 OR MORE WINDOWS WITH VERTICAL FRAME ASSEMBLY TUBE/MULL. (4 WINDOWS MAX.)

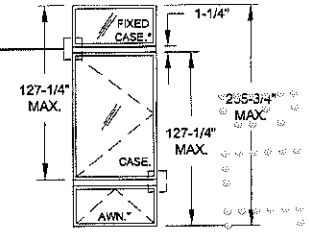


2 OR MORE WINDOWS WITH VERTICAL FRAME ASSEMBLY TUBE/MULL. VARIOUS WINDOW TYPES AND SIZES (4 WINDOWS MAX.)



2 OR MORE WINDOWS (4 WINDOWS MAX.) WITH HORIZONTAL FRAME ASSEMBLY TUBE/MULL.

A= 63" MAX. FOR FIXED CASEMENT
A= 40" MAX. FOR CASEMENT
A= 60" MAX. FOR AWNING



2 OR MORE WINDOWS (4 WINDOWS MAX.) WITH HORIZONTAL FRAME ASSEMBLY TUBE/MULL. VARIOUS WINDOW TYPES AND SIZES.

*UNDER SEPARATE APPROVAL

FRAME ASSEMBLY TUBE NOTE:

REFER TO SHEET 5 FOR THROUGH-FRAME ANCHORAGE AND THIS SHEET FOR NAIL FIN ANCHORAGE DETAILS TYP. AT ALL FRAME ASSEMBLY TUBE ENDS BOTH HORIZONTAL AND VERTICAL

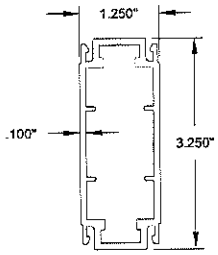
NOTES FOR FRAME ASSEMBLY TUBE END CAP:

1) APPLIES TO FIN OR J-CHANNEL FRAMES.

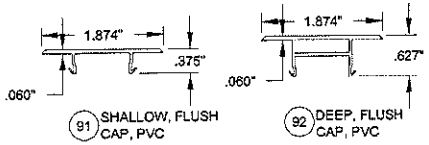
2) REQUIRED AT HEADER/SILL OR JAMBS TO SEAL THE END OF THE FRAME ASSEMBLY TUBE.

3) ALL WINDOW TYPES AND FRAME ASSEMBLY TUBE ORIENTATIONS APPLICABLE, SEE SHEET 5.

4) END CAP MAY REQUIRE IN-FIELD TRIMMING. STANDARD LENGTH IS 14".



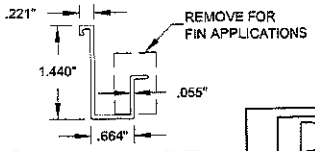
(90) FRAME ASSEMBLY TUBE, ALUM 6005-T5



(91) SHALLOW, FLUSH CAP, PVC

(92) DEEP, FLUSH CAP, PVC

EITHER CAP MAY BE USED TO THE INTERIOR OR EXTERIOR.



(93) FRAME ASSEMBLY TUBE END CAP, PVC

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Acceptance No. 17-06.14.16
Expiration Date ~~Sept. 17, 2010~~
By: Miami-Dade Product Control

ANTHONY LYNN MILLER
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6/9/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
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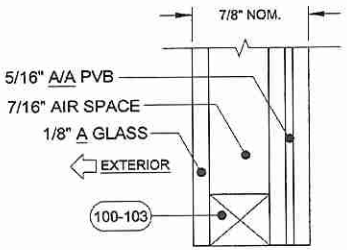
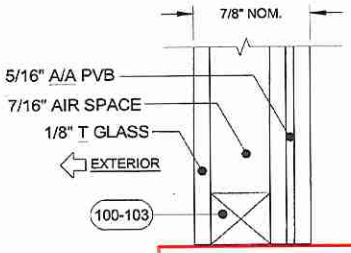
Title	VINYL CASEMENT WINDOW NOA (LM)	Date	3/3/14
Desc.	FRAME ASSEMBLY TUBE DETAILS B	Drawn By	J ROSOWSKI
Rev. A			
Rev. B	05/15/17 - JR - NO CHANGES THIS SHEET.		

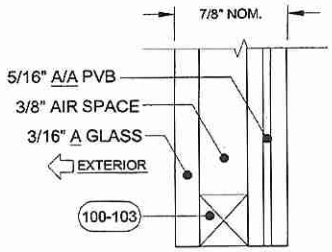
Series	Scale	Sheet	DWG No.	Rev. No.
CA-5540	NTS	6 OF 11	MD-5540C.0	B



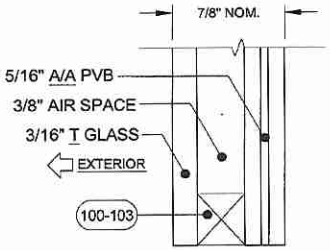
GLASS TYPE 5



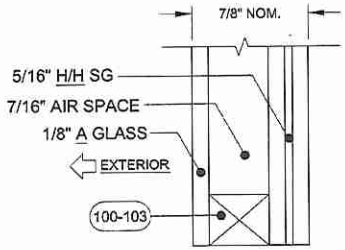
GLASS TYPE 6



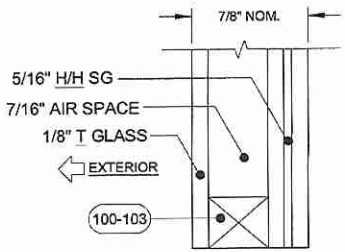
GLASS TYPE 7



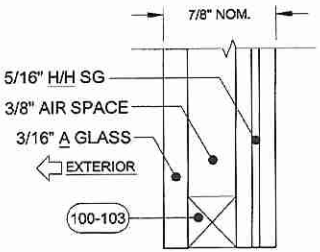
GLASS TYPE 8



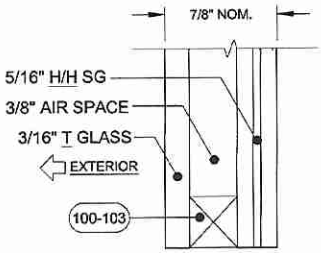
GLASS TYPE 9



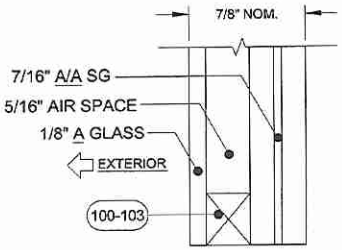
GLASS TYPE 10



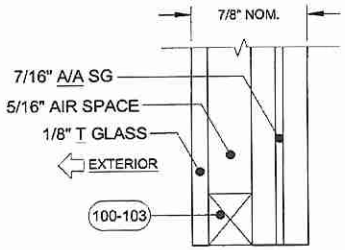
GLASS TYPE 11



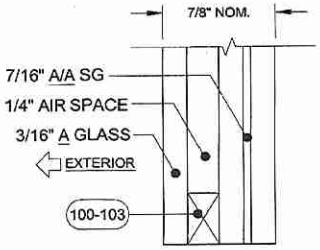
GLASS TYPE 12



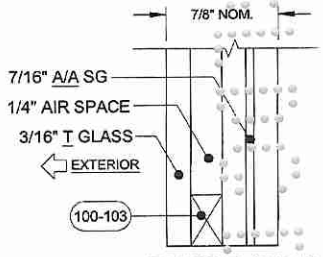
GLASS TYPE 13



GLASS TYPE 14



GLASS TYPE 15



GLASS TYPE 16

GLAZING NOTES:
"A" = ANNEALED
"H" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

1) FOR LAMINATED GLAZING COMPONENTS, SEE TABLE 1, SHEET 2.
2) SEE TYPICAL GLAZING DETAIL ON SHEET 2.

GLASS TYPES 9 THROUGH 16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

GLASS TYPES 5, 7, 9, 11, 13 & 15 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

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Expiration Date Sept. 17, 2020
By Manuel Perez
Miami-Dade Product Control

Rev B 05/15/17 - JR - NO CHANGES THIS SHEET.

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Date	9/9/14
Drawn By	J ROSOWSKI
DWG No.	MD-5540C.0
Rev	B
Sheet	7 OF 11
Scale	NTS
Series	CA-5540

Title: VINYL CASEMENT WINDOW NOA (LM)
Desc.: GLAZING DETAILS

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/9/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 4:

Window Design Pressure, (+/- psf)

1/8" A CAP, AIRSPACE, 1/8" A, .090" PVB, 1/8" A

Standard Sash, Hinge & Reinforcement | Use this table for Glass Type: **5**

Window Dimensions (Buck Height (in))	Buck Width (in) 24	26	28	30.683	31.052	31.431	31.819	32.217	32.625	33.043	33.472	33.912	34.365	34.829	35.306	35.797	36
48	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
60	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.7	+65/-69.2	+65/-68.6	+65/-68.1	+65/-67.5	+65/-67	+65/-66.5	+65/-65.9	+65/-65.4	+/-64.9	+/-64.4	+/-64.2
66	+65/-70	+65/-70	+65/-70	+65/-68.7	+65/-68.1	+65/-67.5	+65/-67	+65/-66.4	+65/-65.8	+65/-65.3	+/-64.7	+/-64.2	+/-63.6	+/-63.1	+/-62.5	+/-62	+/-61.8
70	+65/-70	+65/-70	+65/-70	+65/-67.5	+65/-66.9	+65/-66.3	+65/-65.8	+65/-65.2	+/-64.6	+/-64.1	+/-63.5	+/-62.9	+/-62.4	+/-61.8	+/-61.2	+/-60.7	+/-60.5
71.593	+65/-70	+65/-70	+65/-70	+65/-67.1	+65/-66.5	+65/-65.9	+65/-65.3	+/-64.8	+/-64.2	+/-63.6	+/-63	+/-62.5	+/-61.9	+/-61.3	+/-60.8	+/-60.2	+/-60
72	+65/-70	+65/-70	+65/-70	+65/-67	+65/-66.4	+65/-65.8	+65/-65.2	+/-64.7	+/-64.1	+/-63.5	+/-62.9	+/-62.4	+/-61.8	+/-61.2	+/-60.7	+/-60.1	
73	+65/-70	+65/-70	+65/-70	+65/-66.7	+65/-66.1	+65/-65.6	+/-65	+/-64.4	+/-63.5	+/-63.1	+/-62.6	+/-62.1	+/-61.5	+/-61	+/-60.4		
74	+65/-70	+65/-70	+65/-70	+65/-66.5	+65/-65.9	+65/-65.3	+/-64.6	+/-63.7	+/-62.9	+/-62.3	+/-61.7	+/-61.3	+/-60.8	+/-60.4			
75	+65/-70	+65/-70	+65/-70	+65/-66.2	+65/-65.7	+/-64.7	+/-63.8	+/-63	+/-62.2	+/-61.5	+/-60.8	+/-60.3	+/-59.9				
76	+65/-70	+65/-70	+65/-70	+65/-66	+65/-65.1	+/-64	+/-63.1	+/-62.4	+/-61.6	+/-60.8	+/-60	+/-59.4					
77	+65/-70	+65/-70	+65/-70	+65/-65.2	+/-64.3	+/-63.3	+/-62.5	+/-61.8	+/-61	+/-60.2	+/-59.3						
78	+65/-70	+65/-70	+65/-70	+/-64.3	+/-63.5	+/-62.7	+/-61.9	+/-61.2	+/-60.4	+/-59.6							
79	+65/-70	+65/-70	+65/-70	+/-63.7	+/-62.9	+/-62.1	+/-61.4	+/-60.6	+/-59.8								
80	+65/-70	+65/-70	+65/-70	+/-63.2	+/-62.4	+/-61.6	+/-60.8	+/-60									
81	+65/-70	+65/-70	+65/-69.8	+/-62.6	+/-61.8	+/-61	+/-60.2										
82	+65/-70	+65/-70	+65/-69.6	+/-62.2	+/-61.3	+/-60.5											
83	+65/-70	+65/-70	+65/-69.5	+/-61.7	+/-60.9												
84	+65/-70	+65/-70	+65/-69.3	+/-61.3													

MAX. JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4	MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4
APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)	APPLIES TO F ANCHORS (SEE TABLE 3)
12.67"	4"

NOTES:
1) BUCK DIMENSIONS SHOWN.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

GLASS TYPES 5, 7, 9, 11, 13 & 15 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

TABLE 5:

Window Design Pressure, (+/- psf)

1/8" T CAP, AIRSPACE, 1/8" A, .090" PVB, 1/8" A

Standard Sash, Hinge & Reinforcement | Use this table for Glass Type: **6**

Window Dimensions (Buck Height (in))	Buck Width (in) 24	26	28	30.683	31.052	31.431	31.819	32.217	32.625	33.043	33.472	33.912	34.365	34.829	35.306	35.797	36
48	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
60	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
66	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
71.593	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.6	+65/-69.2	+65/-68.7	+65/-68.6
72	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.7	+65/-69.2	+65/-68.8	+65/-68.3	
73	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.6	+65/-69.1	+65/-68.6	+65/-68.2	+65/-67.7		
74	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.8	+65/-69.2	+65/-68.6	+65/-68.1	+65/-67.6	+65/-67.1			
75	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.1	+65/-68.4	+65/-67.6	+65/-67	+65/-66.5				
76	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.3	+65/-68.4	+65/-67.6	+65/-66.7	+65/-66					
77	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.5	+65/-68.6	+65/-67.8	+65/-66.9	+65/-65.9						
78	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.7	+65/-68.8	+65/-68	+65/-67.1	+65/-66.2							
79	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.9	+65/-69	+65/-68.2	+65/-67.3	+65/-66.4								
80	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.3	+65/-68.4	+65/-67.5	+65/-66.6									
81	+65/-70	+65/-70	+65/-70	+65/-69.6	+65/-68.7	+65/-67.8	+65/-66.9										
82	+65/-70	+65/-70	+65/-70	+65/-69.1	+65/-68.2	+65/-67.2											
83	+65/-70	+65/-70	+65/-70	+65/-68.6	+65/-67.6												
84	+65/-70	+65/-70	+65/-70	+65/-68.1													

MAX. JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4	MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4
APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)	APPLIES TO F ANCHORS (SEE TABLE 3)
12.67"	4"

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0614.16
Expiration Date Sept. 11, 2020
By Manuel Zerga
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/9/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

PGT®
CERT. OF AUTH. #29296
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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Series	VINYL CASEMENT WINDOW NOA (LM)	Date	9/9/14
Rev. B			
Rev. A			
Desc. Title	DESIGN PRESSURE TABLES A	Drawn By	J ROSOWSKI
	05/15/17 - JR - NO CHANGES THIS SHEET.		
CA-5540	Scale: NTS	Sheet: 8 OF 11	DWG. No. MD-5540C.0 Rev. No. B

TABLE 6:

Window Design Pressure, (+/- psf)

3/16" A CAP, AIRSPACE, 1/8" A, .090" PVB, 1/8" A & 3/16" T CAP, AIRSPACE, 1/8" A, .090" PVB, 1/8" A

Heavy-Duty Sash, Hinge & Reinforcement | Use this table for Glass Type: **7 & 8**

Window Dimensions	Buck Width (in)													
Buck Height (in)	30.683	31.052	31.431	31.819	32.217	32.625	33.043	33.472	33.912	34.365	34.829	35.306	35.797	36
71.593	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
72	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
73	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
74	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
75	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
76	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
77	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
78	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
79	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
80	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
81	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
82	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
83	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70
84	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70

MAX. JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER	MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4
APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)	APPLIES TO F ANCHORS (SEE TABLE 3)
12.67"	4"

TABLE 7:

Window Design Pressure, (+/- psf)

1/8" A CAP, AIRSPACE, 1/8" H, .090" SG, 1/8" H & 1/8" T CAP, AIRSPACE, 1/8" H, .090" SG, 1/8" H

3/16" A CAP, AIRSPACE, 1/8" H, .090" SG, 1/8" H & 3/16" T CAP, AIRSPACE, 1/8" H, .090" SG, 1/8" H

Heavy-Duty Sash, Hinge & Reinforcement | Use this table for Glass Type: **9, 10, 11 & 12**

Window Dimensions	Buck Width (in)										
Buck Height (in)	24	26	28	30	32	34.005	35.705	36.621	38.085	39.129	40
48	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
60	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
72	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
76	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
84	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110

MAX. JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4
APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)
10.13"

! GLASS TYPES 9 THROUGH 16 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

! GLASS TYPES 5, 7, 9, 11, 13 & 15 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

TABLE 8:

Window Design Pressure, (+/- psf)

1/8" A CAP, AIRSPACE, 3/16" A, .090" SG, 3/16" A & 1/8" T CAP, AIRSPACE, 3/16" A, .090" SG, 3/16" A

3/16" A CAP, AIRSPACE, 3/16" A, .090" SG, 3/16" A & 3/16" T CAP, AIRSPACE, 3/16" A, .090" SG, 3/16" A

Heavy-Duty Sash, Hinge & Reinforcement | Use this table for Glass Type **13, 14, 15 & 16**

Window Dimensions	Buck Width (in)													
Buck Height (in)	34.005	34.414	34.834	35.264	35.705	36.157	36.621	37.096	37.584	38.085	38.6	39.129	39.672	40
71.41	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
72	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	
73	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110		
74	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110			
75	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110				
76	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110					
77	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110						
78	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110							
79	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110								
80	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110									
81	+70/-110	+70/-110	+70/-110	+70/-110										
82	+70/-110	+70/-110	+70/-110											
83	+70/-110	+70/-110												
84	+70/-110													

MAX. JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4
APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)
10.88"

NOTES:
1) BUCK DIMENSIONS SHOWN.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-0614.16
Expiration Date Sept. 11, 2020
By Miami-Dade Product Control

Rev B 05/15/17 - JR - NO CHANGES THIS SHEET.

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Date	By	Rev.
9/9/14	J ROSOWSKI	B

Title: VINYL CASEMENT WINDOW NOA (LM)
Sheet: DESIGN PRESSURE TABLES B
DWG No.: MD-5640C.0
Sheet: 9 OF 11
Scale: NTS
Series: CA-5540

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/9/17

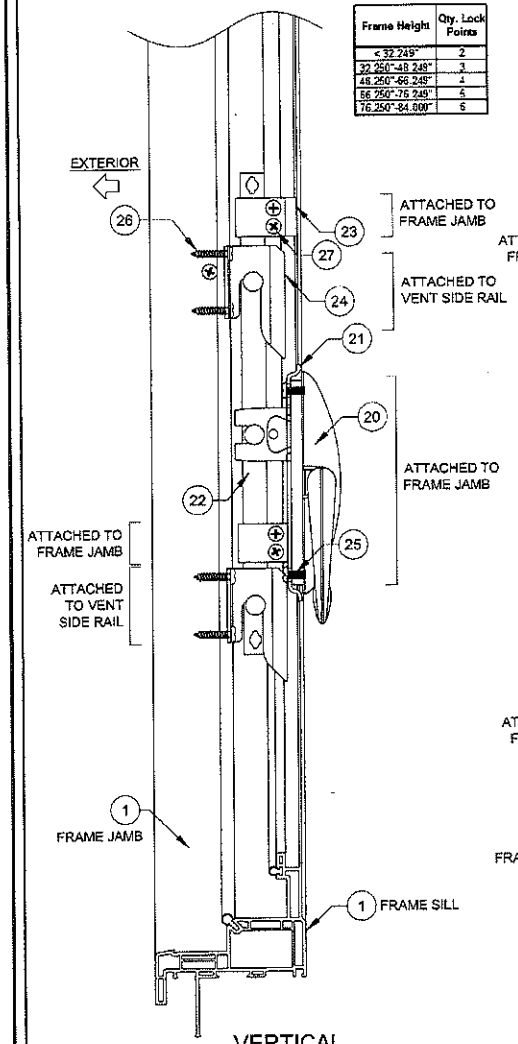
A. LYNN MILLER, P.E.
P.E.# 58705

Frame Height	Qty. Lock Points
< 32.249"	2
32.250"-48.249"	3
48.250"-66.249"	4
66.250"-76.249"	5
76.250"-84.000"	6

Frame Height	Qty. Snubbers
< 30.000"	2
30.001"-48.000"	3
48.001"-66.000"	4
66.001"-84.000"	5

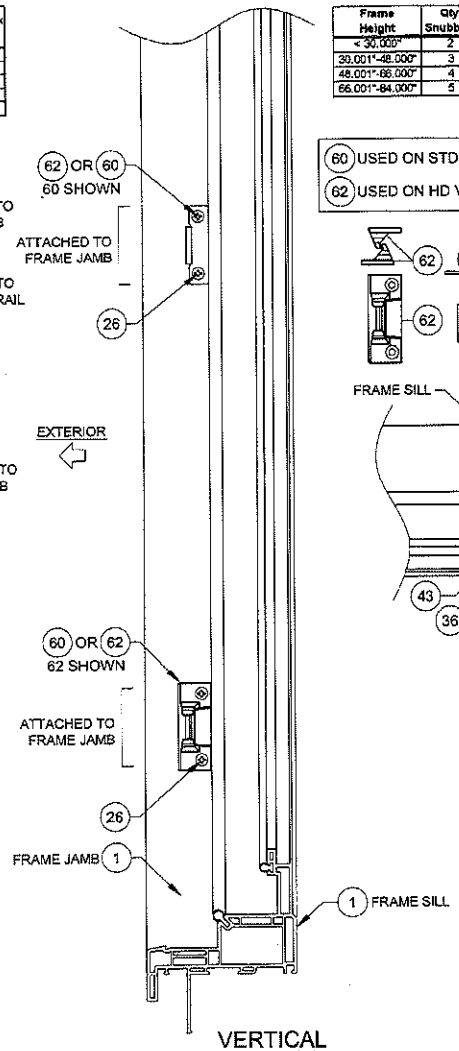
(60) USED ON STD. VENT ONLY

(62) USED ON HD VENT ONLY



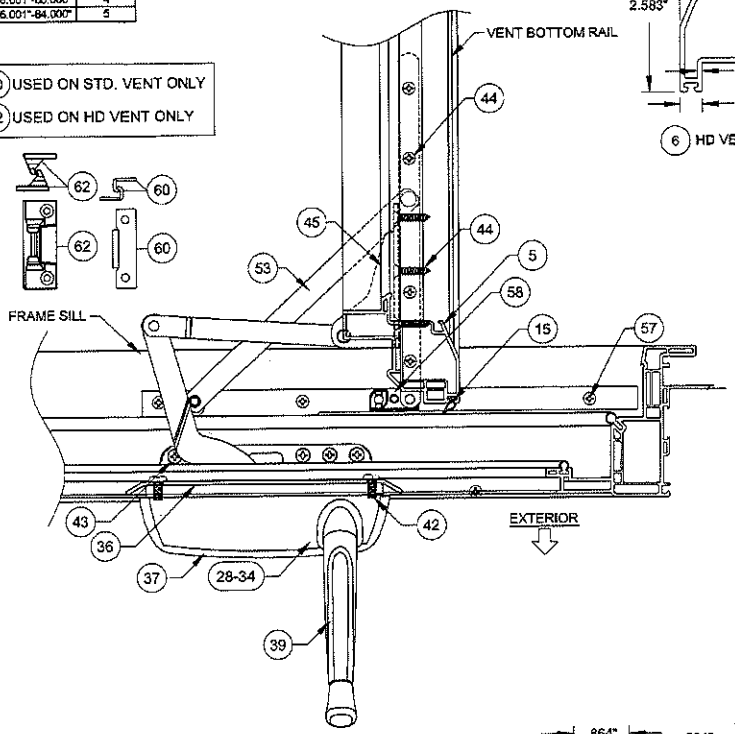
VERTICAL HARDWARE

LOCK JAMB

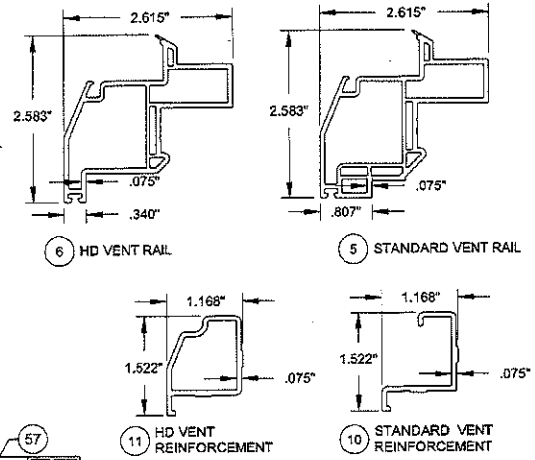


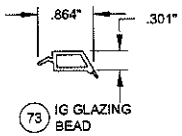
VERTICAL HARDWARE

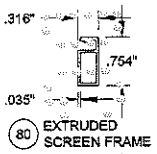
HINGE JAMB



HORIZONTAL HARDWARE SECTION







PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 17-0614.16
Expiration Date Sept 17 2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/9/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

NOTES:

1) SOME PARTS/OPTIONS NOT SHOWN FOR CLARITY.

2) INTEGRAL FIN FRAME SHOWN, PART #1. OTHER FRAME TYPES APPLY.

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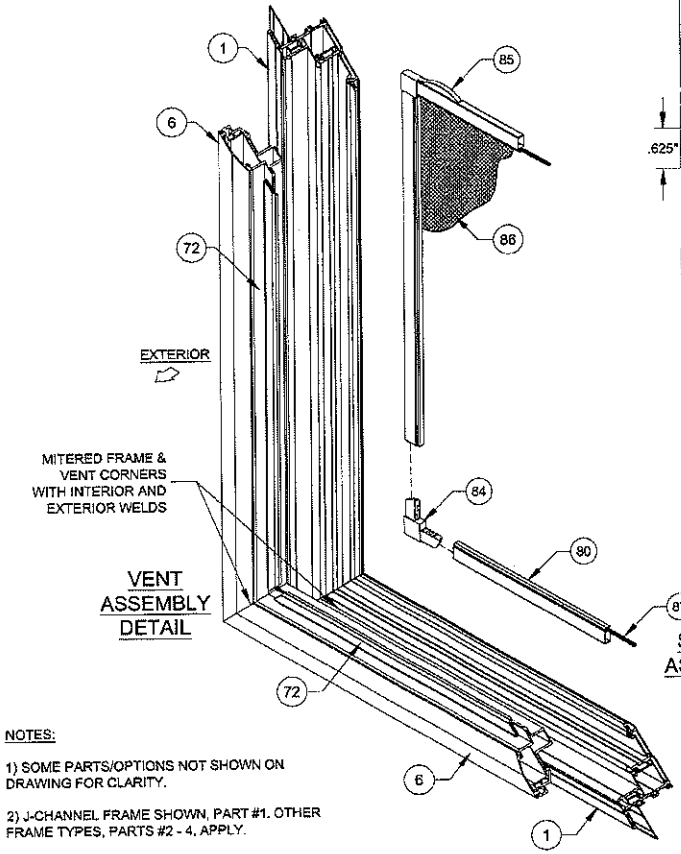
Title	VINYL CASEMENT WINDOW NOA (LM)	Date	3/3/14
Desc.	BOM & ASSEMBLY A	Drawn by	J KOSOWSKI
Rev. A			
Rev. B	05/15/17 - JR - NO CHANGES THIS SHEET.		

Series	Scale	Sheet	DWG No.	Rev. No.
CA-5540	NTS	10 OF 11	MD-5540C.0	B

TABLE 9:

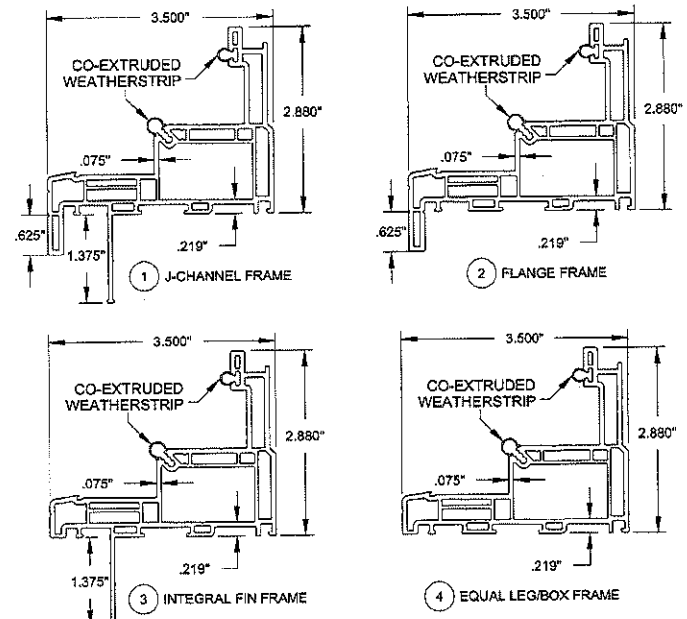
#	Part #	Description	Material
1	620125	J-channel Frame	PVC
2	620126	Flange Frame	PVC
3	620127	Integral Fin Frame	PVC
4	620128	Equal Leg/Box Frame	PVC
5	620130	Standard Vent Rail	PVC
6	620173	HD Vent Rail	PVC
10	620163	Standard Vent Reinforcement (Full Length)	Alum. 6005-T5
11	620164	HD Vent Reinforcement (Full Length)	Alum. 6005-T5
15	8TP247	Weatherstrip, 65 +/-1 duro.	Flex PVC
20	7024	Multi-Point Lock	C Steel
21	7011	Multi-Point Lock Flat Support Plate	C Steel
22	varies with size	Tie Bar	C Steel
23	20222	Tie Bar Guide	C Steel
24	7014	Multi-Lock Keeper	C Steel
25	71024X0562PPFX	#10-24 x 9/16" Phl. PH Machine Screw	SS
26	78X34PPTX410	#8 x 3/4" Phl. PH Tek	SS
27	78X112PSAX	#8 x 1-1/2" Phl. FH Tek	SS
28	20249/50	Dyad Operator (narrow vent < or = to 24"), L/R	C Steel
29	20249X/50X	Dyad Operator (narrow vent < or = to 24"), L/R	SS
30	20251/52	Dual Arm Operator (wide vent >24"), L/R	C Steel
31	20251X/52X	Dual Arm Operator (wide vent >24"), L/R	SS
32	7033	Dual Arm Operator Track	SS
33	20241/42	HD Dual Arm Operator, L/R	C Steel
34	20241X/42X	HD Dual Arm Operator, L/R	SS
35	20244	HD Operator Track	SS
36	7031	Operator Backing Plate	C Steel
37	20253	Operator Cover	
38	7030	Operator Gasket White	Neoprene
39		Standard Handle	C Steel
40	7018	Folding Handle	C Steel
41	7019	T-Handle (Thumbturn)	C Steel
42	78X12PPMSX	#8-32 x 1/2" Phl. PH Machine Screw	SS
43	76S34PFAX	#8 x 3/4" Phl. FH	SS
44	78X1PSDX	#8 x 1" Phl. FH Tek	SS
45	7MC7032LH/RH	Stud Bracket, L/R	C Steel
46	7MC7032LHX/RHX	Stud Bracket,L/R	SS
47	20243	HD Stud Bracket, non-handed	C Steel
48	20243X	HD Stud Bracket, non-handed	SS
49	73337LH/RH	Egress Hinge, L/R	C Steel
50	73337LHX/RHX	Egress Hinge, L/R	SS
51	73338LH/RH	Washable Hinge, L/R	C Steel
52	73338LHX/RHX	Washable Hinge, L/R	SS
53	20245/6	HD Washable Hinge, L/R	C Steel
54	20245X/6X	HD Washable Hinge, L/R	SS
55	720247/8	HD Washable Hinge Track, L/R	C Steel
56	720247X/8X	HD Washable Hinge Track, L/R	SS
57	78X34FPAX	#8 x 3/4" Phl. FH w/ #7 Head	SS
58	731877	Operator Slide	Plastic
60	73346	Snubber	C Steel
62	720256	HD Snubber	Die-cast Zinc
63	78X12PPSMSX	#8 x 1/2" Phl. PH	SS
64	20187	Anchor Hole Plug	PVC
72	720135	Lami IG Glazing Bead	PVC
74		Backbedding, GE 7700 or Dow 791	Silicone
78	71646N	Setting Block (7/8" x 1" x 1/8"), 85 +/- 5 duro.	EPDM
80	67006	Extruded Screen Frame	
84	47040	Screen Corner Key	
85	7CASPM	Tension Spring	
86	61816C34	Screen Cloth	
87	61635/24	.140" Screen Spline (Machine/Hand Rolled)	
90	620160A	Frame Assembly Tube	Alum. 6005-T5
91	620177	Shallow, Flush Cap	PVC
92	620178	Deep, Flush Cap	PVC
93	620132	Frame Assembly Tube End Cap	PVC



VENT ASSEMBLY DETAIL

SCREEN ASSEMBLY DETAIL

FRAME ASSEMBLY DETAIL



NOTES:

1) SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.

2) J-CHANNEL FRAME SHOWN, PART #1. OTHER FRAME TYPES, PARTS #2 - 4, APPLY.

3) ITEMS # 7-9, 12-14, 16-19, 59, 61, 65-71, 73, 75-77, 79, 81-83, 88, 89 & 94-99 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

4) ENERGI PVC TO BE LABELED FOR AAMA EXTRUDER CODE.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 17-0614.16
Expiration Date Sept 17, 2020
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
9/19/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

PGT®
CERT. OF AUTH. #29296
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

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Title	VINYL CASEMENT WINDOW NOA (LM)	Date	9/9/14
Desc.	BOM & ASSEMBLY B	Drawn By	J RUSOWSKI
Rev. A			
Rev. B	05/15/17 - JR - NO CHANGES THIS SHEET.		
Series	CA-5540	Scale NTS	Sheet 11 OF 11
DWG No.	MD-5540C.0	Rev. No.	B

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "PGT" Clipped Extruded Aluminum Tube Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. **6300JR**, titled "Impact–Resistant Aluminum Tube Mullions", sheets 1 through 25 of 25, prepared by manufacturer, dated 08/29/11, with revision C dated 06/19/17, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA# 16-0218.03** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P.E.**

MIAMI-DADE COUNTY APPROVED

11/1/17

NOA No. 17-0630.01
Expiration Date: May 26, 2021
Approval Date: November 09, 2017

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 10-0819.05)
2. Drawing No. **6300JR**, titled "Impact-Resistant Aluminum Tube Mullions", sheets 1 through 25 of 25, dated 08/29/11, with revision C dated 06/19/17, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

   along with marked-up drawings and installation diagram of clipped aluminum mullions, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL-6443** (samples A-1 thru E-1), dated 02/28/11, and addendum letter dated 05/05/11, signed and sealed by Marlin D. Brinson, P.E.
   (Submitted under NOA No. 10-0819.05)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)** and with **FBC 6th Edition (2017)**, prepared by manufacturer, dated 08/29/17, signed and sealed by Anthony Lynn Miller, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0630.01
Expiration Date: May 26, 2021
Approval Date: November 09, 2017

F. STATEMENTS

1. Statement letter of conformance to **FBC-5th Edition (2014)** and **FBC-6th Edition (20147**, dated 06/22/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest, dated 06/22/17, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

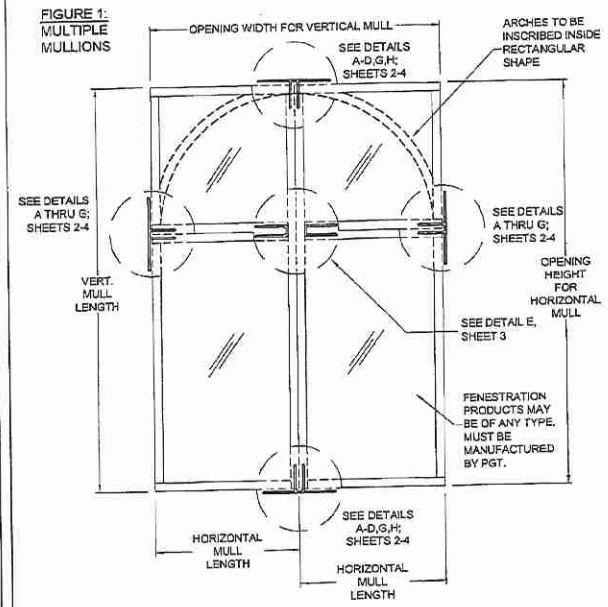
G. OTHERS

1. Notice of Acceptance No. **16-0218.03**, issued to PGT Industries, Inc. for their Series **"PGT" Clipped Extruded Aluminum Tube Mullion – L.M.I.**, approved on 04/14/16 and expiring on 05/26/21.

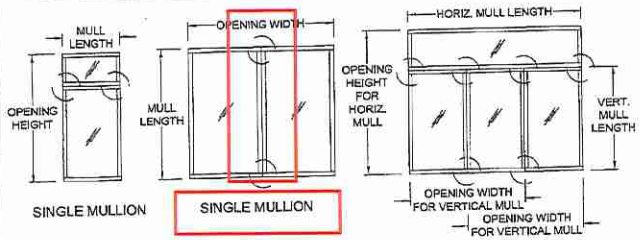
Jorge M. Plasencia, P.E.
Product Control Unit Supervisor
NOA No. 17-0630.01
Expiration Date: May 26, 2021
Approval Date: November 09, 2017

SUITABLE FOR ALL LOCATIONS REQUIRING NON-IMPACT OR LARGE AND SMALL MISSILE IMPACT-RESISTANT PRODUCTS

FIGURE 1:
MULTIPLE MULLIONS



ADDITIONAL EXAMPLES OF MULL CONFIGURATIONS:



SEE CORRESPONDING DETAILS FROM FIGURE 1 ABOVE.

CODES / STANDARDS USED:

- 2017 FLORIDA BUILDING CODE (FBC), 6TH EDITION
- 2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ANSI/AF&PA NDS-2015 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2015
- AISI S100-12
- AISC 360-10

GENERAL NOTES:

1) DETAILS SHOWN ARE FOR THE MULLION ONLY. ANCHORS SHOWN ARE IN ADDITION TO ANY ANCHORS REQUIRED FOR THE FENESTRATION PRODUCT INSTALLATION. TYPICAL APPLICATIONS ARE SHOWN. EACH SITUATION IS UNIQUE AND SHOULD BE EVALUATED BY AN EXPERIENCED INSTALLER FOR THE BEST INSTALLATION METHOD. OPTIONAL 1X OR 2X WOOD BUCKS IF USED, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS AND ARE TO BE DESIGNED BY OTHERS.

2) THE TYPE AND NUMBER OF ANCHORS IS CRITICAL TO THE STRUCTURAL PERFORMANCE OF THE MULLED UNITS. MULLIONS HAVE BEEN TESTED AS "FREE-FLOATING" AND DO NOT NEED TO BE DIRECTLY ATTACHED TO THE MULLION CLIPS, BUT SHALL NOT HAVE A GAP OF MORE THAN 1/4" FROM THE CLIP.

3) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. MULLIONS ARE CALCULATED TO DEFLECT NO MORE THAN L/180. THE 1/3 STRESS INCREASE WAS NOT USED IN THIS ANCHOR EVALUATION. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF WOOD SCREWS.

4) PROPER SEALING OF ENTIRE ASSEMBLY IS THE RESPONSIBILITY OF OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) USE THE COMBINED WIDTH OR HEIGHT OF ONLY TWO ADJACENT FENESTRATION PRODUCTS TO DETERMINE PRESSURES AND ANCHORAGE FOR THE COMMON MULLION. SEE EXAMPLES ON THIS SHEET AND SHEET 24. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME WHEN USING THE DESIGN PRESSURE AND ANCHORAGE TABLES. THE LOWEST DESIGN PRESSURE OF MULTIPLE MULLIONS OR FENESTRATION PRODUCTS SHALL APPLY.

6) WHEN FINDING YOUR SIZE IN THE MULLION TABLES, ALWAYS ROUND UP TO THE NEXT SIZE SHOWN ON THE TABLE(S).

7) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE. ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS APPROPRIATE FOR SUBSTRATE MATERIAL. DISSIMILAR MATERIALS SHALL BE PROTECTED AS REQUIRED TO PREVENT REACTIONS.

8) REFERENCE: TEST REPORTS: FTL-6443; ELCO ULTRACON/AGGRE-GATOR NOA'S

9) MULLIONS AND CLIPS HAVE BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, AND ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS. MULLIONS ARE ONLY TO BE USED WITH PGT-APPROVED FENESTRATION PRODUCTS HAVING CURRENT APPROVALS.

10) MULLIONS ARE IN COMPLIANCE FOR USE IN THE HVHZ.

11) QUANTITY OF UNITS WITHIN A MULTIPLE MULLED ASSEMBLY IS UNLIMITED PROVIDED THAT THE SPAN AND OPENING WIDTH/HEIGHT OF EACH INDIVIDUAL MULLION COMPLIES WITH THE REQUIREMENTS OF THIS NOA.

INSTRUCTIONS:

1) DETERMINE THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING USING THE ASCE-7 STANDARD.

2) CHOOSE A MULLION TYPE THAT WILL FIT THE DEPTH OF THE FENESTRATION PRODUCT'S FRAME DEPTH.

3) REFER TO SHEET 25 TO DETERMINE IF THE WIND LOADING IS "RECTANGULAR" OR "TRIANGULAR/TRAPEZOIDAL".

4) FIND THE CHOSEN MULLION'S MULLION CAPACITY (LBS/FT²) FROM TABLES 1A THROUGH 16A, ON SHEETS 5 THROUGH 20 RESPECTIVELY, USING THE MULLION TYPE, LENGTH AND OPENING WIDTH OR HEIGHT (DEPENDING IF THE MULLION IS SPANNING VERTICALLY OR HORIZONTALLY). THE MULLION CAPACITY (LBS/FT²) OBTAINED SHALL MEET OR EXCEED THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING OBTAINED IN STEP 1).

5) FROM THE SAME TABLE USED IN STEP 4) ABOVE, FIND THE VALUE IN THE NEXT COLUMN ANCHOR CAPACITY REQUIRED (LBS). THIS VALUE REPRESENTS THE WINDLOAD TRANSFERRED TO THE SUBSTRATE BY THE ANCHORS AND MUST BE MET TO ATTAIN THE FULL MULLION CAPACITY.

6) FROM THE ANCHOR CAPACITY (LBS) TABLE ON THE SAME SHEET AND USING YOUR ACTUAL SUBSTRATE CONDITION (MULTIPLE ANCHOR/SUBSTRATE/ANCHOR-CLIP PATTERN MAY APPLY) SELECT AN ANCHOR CLIP PATTERN AND VERIFY THAT THE REQUIRED ANCHOR CAPACITY IS MET.

7) IF THE MULLION CAPACITY (LBS/FT²) OBTAINED IN THE TABLE IS HIGHER THAN THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING, YOU MAY USE THE "ANCHOR CAPACITY ADJUSTMENT FORMULA" TO OBTAIN THE LOWER ANCHOR CAPACITY REQUIRED. WITH THIS VALUE A LOWER ANCHOR CAPACITY OPTION MAY BE SELECTED FOR THE SAME SUBSTRATE

8) VERIFY THE DESIGN PRESSURE RATING (LBS/FT²) FOR THE FENESTRATION PRODUCT TO BE USED AND COMPARE WITH THE FINAL MULLION CAPACITY (LBS/FT²) OBTAINED FOR THE MULLION SYSTEM. THE LOWER OF THE TWO SHALL APPLY FOR THE ENTIRE MULLED FENESTRATION PRODUCT ASSEMBLY.

9) HIGHLIGHT OPTION USED AND TABLE VALUES USED IN A SPECIFIC APPLICATION WHEN USING THIS NOA TO APPLY FOR A PERMIT.

GENERAL NOTES..... 1
INSTRUCTIONS..... 1
ELEVATIONS..... 1
MULL TO 2X WOOD..... 2
MULL TO 1X & MASONRY..... 2
INSTALLATION NOTES..... 2
MULL TO MASONRY..... 3
MULL TO STEEL STUD..... 3
MULL TO MULL..... 3
ALTERNATATE CLIPS..... 4
BAY MULL INSTALLATION..... 4
1 X 2 X .125 MULL SPECS..... 5
1 X 2 X .375 MULL SPECS..... 6
1 X 2.75 X .375 MULL SPECS..... 7
1 X 2.75 X .65 MULL SPECS..... 8
1 X 3.125 X .500 MULL SPECS..... 9
1 X 4 X .125 MULL SPECS..... 10
1 X 4 X .375 TUBE MULL SPECS..... 11
1 X 4 X .375 "T" MULL SPECS..... 11
1.25 X 3.188 X .265 MULL SPECS..... 12
1.25 X 3.25 X .100 MULL SPECS..... 13
1.25 X 3.25 X .624 MULL SPECS..... 14
1.25 X 3.94 X .624 MULL SPECS..... 15
2 X 4 X .25 MULL SPECS..... 16
2 X 6 X .25 MULL SPECS..... 17
1.26 X 2.11 X .125 MULL SPECS..... 18
30° X 3.25 BAY MULL SPECS..... 19
45° X 3.25 BAY MULL SPECS..... 20
MULLION & CLIP DIMENSIONS..... 21-23
EXAMPLES 1 & 2..... 24
LOADING EXAMPLES..... 25

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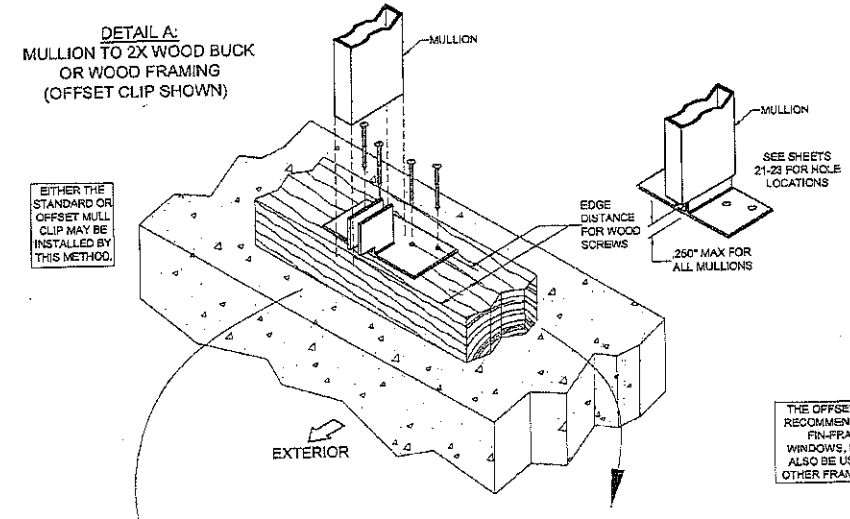
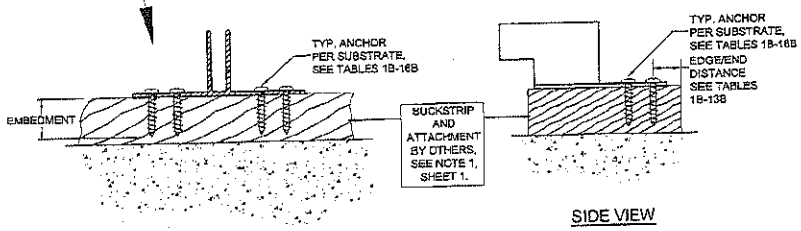
Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS		Sheet: 1 of 25	
Description: GENERAL NOTES AND ELEVATION	Drawing No. 6300JR	Rev. C	
Series: N/A	Scale: N/A	Date: 08/29/11	Checked By:
Drawn By: J ROSOWSKI	Date: 08/29/11	Revision: NO CHANGES THIS SHEET.	Date:
Rev. By: J ROSOWSKI	Date: 06/19/17		

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

DETAIL A:
MULLION TO 2X WOOD BUCK OR WOOD FRAMING (OFFSET CLIP SHOWN)



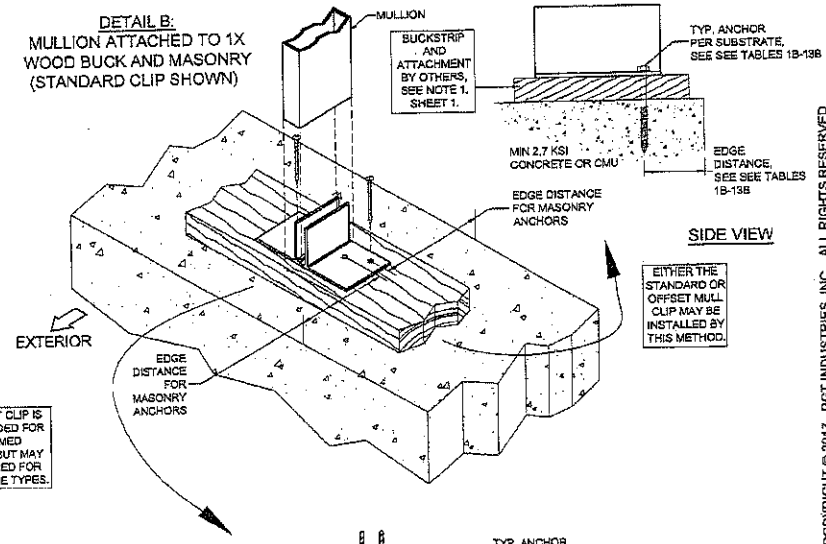


FRONT VIEW

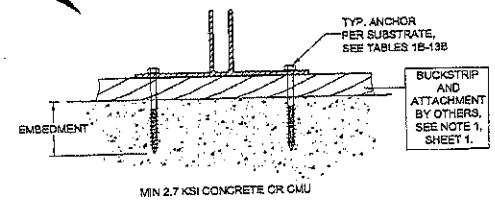
SIDE VIEW

THE OFFSET CLIP IS RECOMMENDED FOR FIN-FRAMED WINDOWS, BUT MAY ALSO BE USED FOR OTHER FRAME TYPES.

DETAIL B:
MULLION ATTACHED TO 1X WOOD BUCK AND MASONRY (STANDARD CLIP SHOWN)



SIDE VIEW



FRONT VIEW

INSTALLATION NOTES:

1) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

2) QUANTITY OF ANCHORS AND MULLION SIZE SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. BECAUSE THE ANCHOR CAPACITY IS BASED PARTLY ON THE ANCHOR TO ANCHOR DISTANCE, THE CORRECT QUANTITY AND LOCATION OF ANCHORS MUST BE FOLLOWED, REFER TO THE TABLES ON THE FOLLOWING SHEETS. FOR DETAILS A-D, EITHER THE STANDARD OR OFFSET CLIP MAY BE USED.

3) ANCHOR HEAD TYPE MAY BE PANHEAD, HEXHEAD OR FLATHEAD.

4) WOOD BUCKS ARE OPTIONAL, SEE DETAIL C, SHEET 3.

5) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO ULTRACON OR ELCO 1/4" S.S. AGGREGATOR MASONRY ANCHORS.

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(941) 480-1600
FL CERT. OF AUTH.# 29298

Title:	IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description:	INSTALLATION INSTRUCTIONS A
Series: N/A	Scale: N/A
Drawn By: J ROSOWSKI	Date: 08/29/11
Rev. By: J ROSOWSKI	Date: 06/19/17
Drawing No. 6300JR	Checked By:
Sheet 2 of 25	Date:
Rev: C	Revisions: NO CHANGES THIS SHEET.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

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LICENSE
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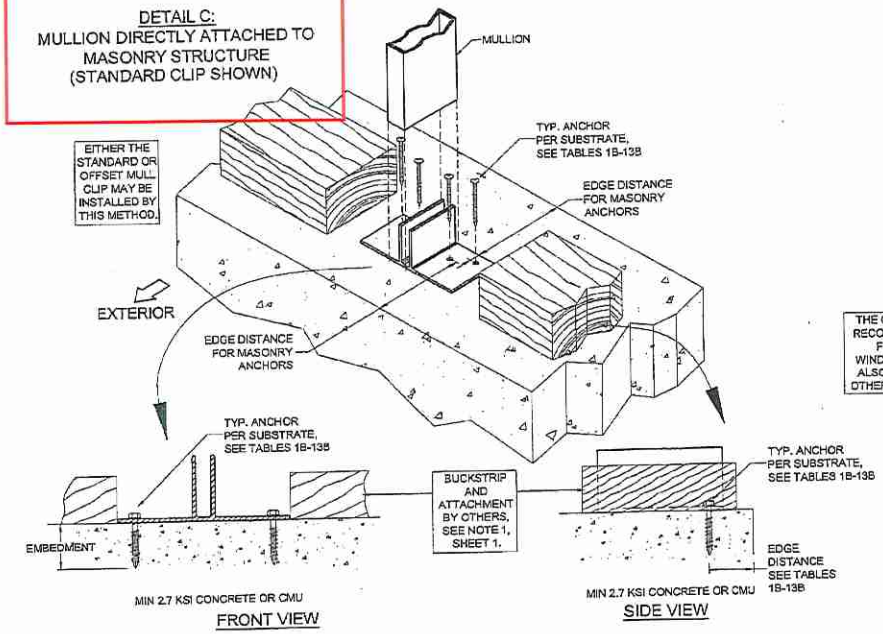
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

DETAIL C:
MULLION DIRECTLY ATTACHED TO MASONRY STRUCTURE (STANDARD CLIP SHOWN)

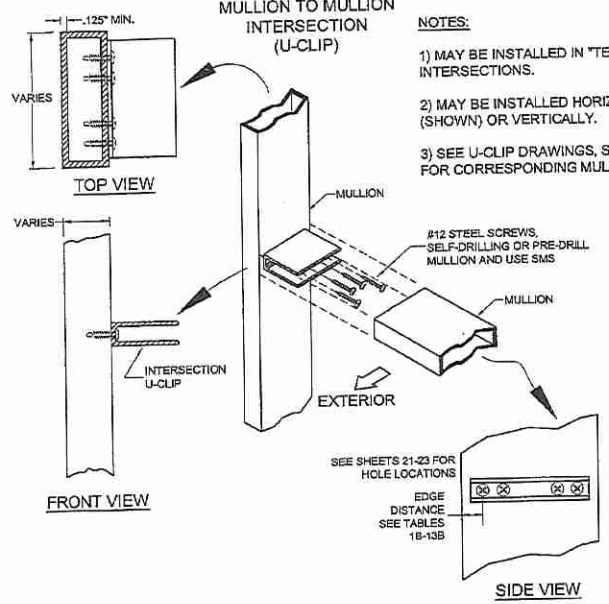


FRONT VIEW

SIDE VIEW

THE OFFSET CLIP IS RECOMMENDED FOR FIN-FRAMED WINDOWS, BUT MAY ALSO BE USED FOR OTHER FRAME TYPES.

DETAIL E:
MULLION TO MULLION INTERSECTION (U-CLIP)



FRONT VIEW

SIDE VIEW

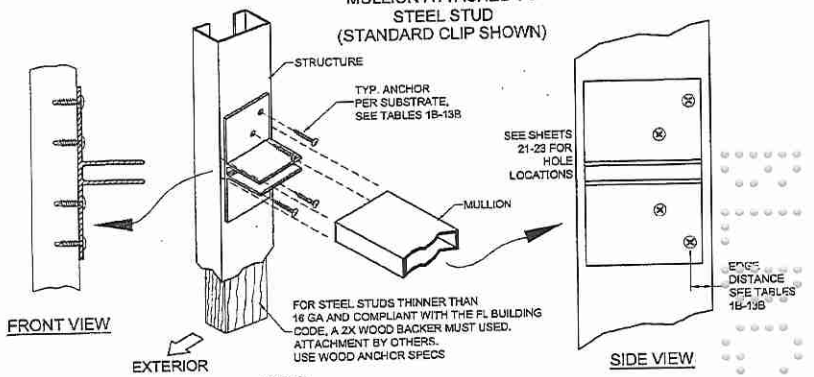
NOTES:

1) MAY BE INSTALLED IN "TEE" OR "CROSS" INTERSECTIONS.

2) MAY BE INSTALLED HORIZONTALLY (SHOWN) OR VERTICALLY.

3) SEE U-CLIP DRAWINGS, SHEETS 21-23 FOR CORRESPONDING MULLION.

DETAIL D:
MULLION ATTACHED TO STEEL STUD (STANDARD CLIP SHOWN)



FRONT VIEW

SIDE VIEW

NOTES:

1) FOR 2X WOOD-BACKED STEEL STUDS, WOOD ANCHOR VALUES MAY BE USED.

2) SEE CORRESPONDING MULLION TABLES, SHEETS 5-20, FOR QUANTITY OF SCREWS.

INSTALLATION NOTES:

1) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

2) QUANTITY OF ANCHORS AND MULLION SIZE SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. BECAUSE THE ANCHOR CAPACITY IS BASED PARTLY ON THE ANCHOR TO ANCHOR DISTANCE, THE CORRECT QUANTITY AND LOCATION OF ANCHORS MUST BE FOLLOWED, REFER TO THE TABLES ON THE FOLLOWING SHEETS. FOR DETAILS A-D, EITHER THE STANDARD OR OFFSET CLIP MAY BE USED.

3) ANCHOR HEAD TYPE MAY BE PANHEAD, HEXHEAD OR FLATHEAD.

4) WOOD BUCKS ARE OPTIONAL, SEE DETAIL C, THIS SHEET.

5) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO ULTRACON OR ELCO 1/4" S.S. AGGREGATOR MASONRY ANCHORS.

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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS			
Description: INSTALLATION INSTRUCTIONS B		Sheet: 3 of 25	
Series: N/A	Scale: N/A	Drawing No. 6300JR	Rev. C
Drawn By: J ROSOWSKI	Date: 08/29/11	Checked By:	Date:
Rev. By: J ROSOWSKI	Date: 06/19/17	Revision: NO CHANGES THIS SHEET.	

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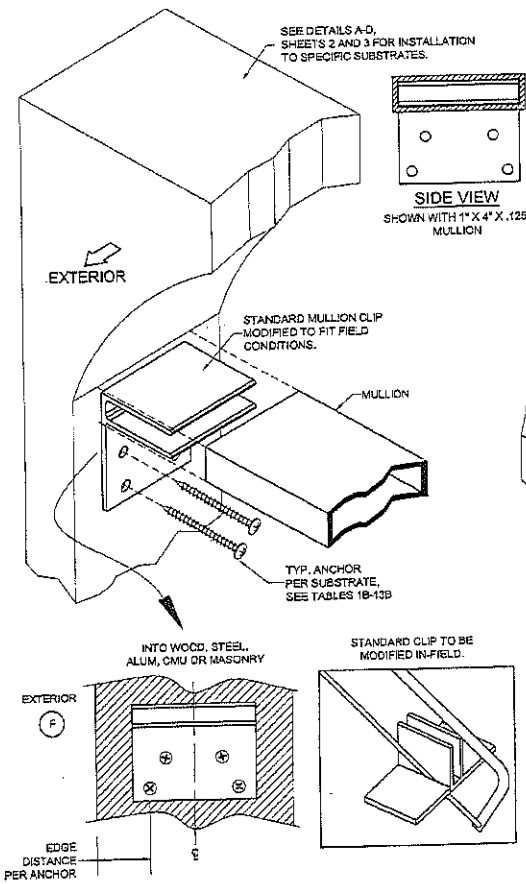
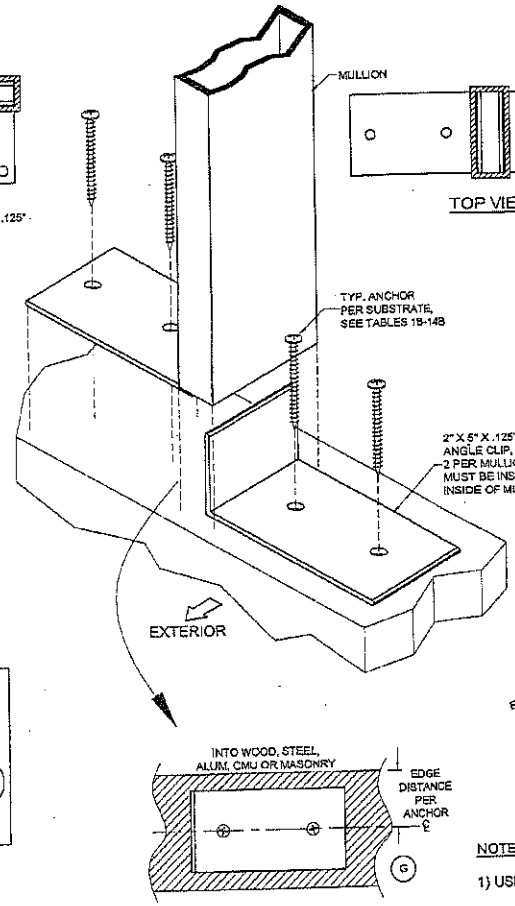
No. 58705
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

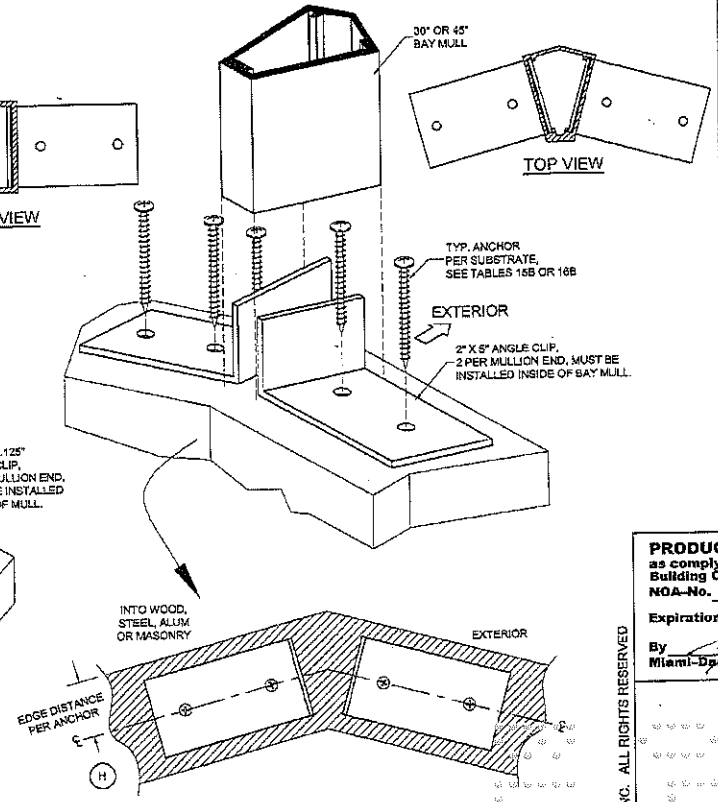
DETAIL F:
FIELD-MODIFIED MULLION CLIP
(F-CLIP)



DETAIL G:
ANGLE MULLION CLIP
(ANGLE CLIP)



DETAIL H:
BAY MULLION INSTALLATION
(ANGLE CLIP)



NOTES FOR INSTALLATION OPTIONS F:

1) DETAIL IS NOT APPLICABLE FOR THE BAY OR 1.26" X 2.11" X .125" MULLION.

2) SEE TABLES 1B-13B FOR ANCHOR QUANTITIES AND SHEETS 21-23 FOR HOLE LOCATIONS.

3) THE 2X5 CLIP IS NOT SUITABLE FOR THIS APPLICATION.

NOTES FOR INSTALLATION OPTION G & H:

1) USE 2 ANGLE CLIPS PER MULLION END. CLIPS MUST BE INSERTED INSIDE OF MULLION.

2) DETAIL G: SEE TABLES 1B-14B FOR ANCHOR QUANTITIES AND SHEETS 21-23 FOR HOLE LOCATIONS.

3) DETAIL H: SEE TABLES 15B OR 16B FOR ANCHOR QUANTITIES AND SHEET 22 FOR HOLE LOCATIONS.

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(941) 480-1600
FL CERT. OF AUTH.# 29266

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS		Sheet: 4 of 25	
Description: INSTALLATION INSTRUCTIONS C		Rev: C	
Scale: N/A	Drawing No. 6300JR	Date:	
Drawn By: J ROSOWSKI	Date: 08/29/11	Checked By:	
Rev. By: J ROSOWSKI	Date: 08/19/17	Revision: NO CHANGES THIS SHEET.	

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

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TABLE 1A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)

1 x 2 x .125 Alum. Tube Mullion

Mull Length	50 in Rectangular Loading		50 in Trap/Triang. Loading		60 in Rectangular Loading		60 in Trap/Triang. Loading		70 in Rectangular Loading		70 in Trap/Triang. Loading	
	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	111.9	408	129.5	332	93.2	408	115.5	325	79.9	408	107.8	321
48 in	74.8	312	93.8	258	62.4	312	73.4	252	53.5	312	67.0	248
50.625 in	63.9	281	70.6	234	53.2	281	61.5	228	45.6	281	55.7	224
54 in	52.6	247	57.5	207	43.9	247	49.8	202	37.6	247	44.8	199
60 in	38.4	200	41.2	170	32.0	200	35.4	166	27.4	200	31.5	163
63 in	33.1	181	35.3	155	27.6	181	30.3	152	23.7	181	26.9	149
66 in	28.8	165	30.6	142	24.0	165	26.1	139	20.6	165	23.1	136
72 in	22.2	139	23.3	120	18.5	139	19.9	118	15.9	139	17.5	116
78 in	19.9	125	19.7	109	15.7	125	16.8	107				
78 in	17.5	118	18.2	104								

Mull Length	80 in Rectangular Loading		80 in Trap/Triang. Loading		90 in Rectangular Loading		90 in Trap/Triang. Loading		100 in Rectangular Loading		100 in Trap/Triang. Loading	
	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	69.9	408	104.4	319	62.1	408	104.0	319	55.9	408	104.0	319
48 in	46.8	312	63.2	246	41.6	312	61.3	244	37.5	312	61.0	244
50.625 in	39.9	281	52.1	222	35.5	281	50.1	220	31.9	281	49.3	219
54 in	32.9	247	41.5	199	29.2	247	38.4	194	26.3	247	38.4	193
60 in	24.0	200	28.9	160	21.3	200	27.1	159	19.2	200	25.9	157
63 in	20.7	181	24.5	146	18.4	181	22.5	144	16.6	181	21.7	143
66 in	18.0	165	21.0	134								

Mull Length	120 in Rectangular Loading		120 in Trap/Triang. Loading		140 in Rectangular Loading		140 in Trap/Triang. Loading		160 in Rectangular Loading		160 in Trap/Triang. Loading	
	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	46.6	408	104.0	319	39.9	408	104.0	319	35.0	408	104.0	319
48 in	31.2	312	61.0	244	26.6	312	61.0	244	23.4	312	61.0	244
50.625 in	26.6	281	49.3	219	22.8	281	49.3	219	20.0	281	49.3	219
54 in	21.8	247	38.1	193	18.8	247	38.1	193	16.4	247	38.1	193
60 in	16.0	200	25.0	156								

TABLE 1B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU					Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):		390 lbs	390 lbs	450 lbs	680 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	664 lbs	948 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):		480 lbs	760 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):		780 lbs	780 lbs	880 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
2 Anchors @ 0.45" Min. O.C. / U-Clip, into .125" Alum. (Fig. 4):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	715 lbs
1 Anchor / F-Clip (Fig. 5):		195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	155 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 6):		240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

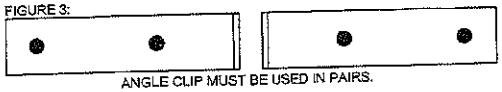
$$(DP_{adj}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{adj}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1:

FIGURE 2:

FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

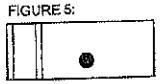


FIGURE 6:

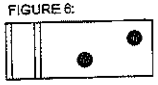


TABLE NOTES:

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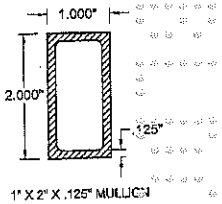

1" X 2" X .125" MULLION

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PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
FL CERT. OF AUTH.# 29266

Title:	IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description:	1 X 2 X .125 MULL SPECS
Series:	N/A
Drawn By:	J ROSOWSKI
Rev. By:	J ROSOWSKI
Drawing No.	6300JR
Scale:	N/A
Checked By:	
Date:	08/29/11
Date:	06/19/17
Sheet:	5 of 25
Rev	C
Date:	
Revision:	NO CHANGES THIS SHEET.

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ANTHONY LYNN MILLER
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No. 58705
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

TABLE 2A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) or **Opening Height** (for horizontally-spanning mullions)

1 x 2 x .375 Alum. Tube Mullion	50 in				60 in				70 in				80 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	151.3	682	170.0	478	129.7	662	170.0	506	113.5	662	169.5	518
48 in	121.9	507	138.0	419	101.4	507	119.2	410	86.9	507	108.7	403	76.0	507	102.8	399
50.625 in	109.7	456	114.6	379	86.4	456	99.9	371	74.1	456	90.5	364	64.8	456	84.6	360
54 in	85.4	400	93.3	336	71.2	400	80.9	328	61.0	400	72.7	322	53.4	400	67.3	316
60 in	62.3	324	68.9	276	51.9	324	57.5	270	44.5	324	51.2	264	38.9	324	46.9	260
63 in	53.8	294	57.4	252	44.8	294	49.2	246	38.4	294	43.6	241	33.6	294	39.8	237
66 in	46.8	268	49.6	230	39.0	268	42.4	225	33.4	268	37.5	221	29.2	268	34.1	218
72 in	36.0	225	37.9	196	30.0	225	32.2	191	25.7	225	28.4	188	22.5	225	25.6	185
75 in	30.6	202	32.0	177	25.5	202	27.2	173	21.9	202	23.9	170	19.2	202	21.6	167
78 in	26.3	192	28.6	169	23.6	192	25.1	165	20.2	192	22.0	162	17.7	192	19.7	159
80 in	18.6	144	19.0	128	15.4	144	16.1	128								
90 in	15.2	127	15.6	113												

1 x 2 x .375 Alum. Tube Mullion	90 in				100 in				120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	100.9	662	168.9	517	90.8	662	168.9	517	75.7	662	168.9	517	64.9	662	168.9	517	56.7	662	168.9	517
48 in	67.6	507	99.6	397	60.6	507	99.0	396	50.7	507	99.0	396	43.4	507	99.0	396	38.0	507	99.0	396
50.625 in	57.6	456	81.3	357	51.8	456	80.0	356	43.2	456	80.0	356	37.0	456	80.0	356	32.4	456	80.0	356
54 in	47.5	400	64.0	316	42.7	400	62.3	314	35.6	400	61.8	313	30.5	400	61.8	313	26.7	400	61.8	313
60 in	34.6	324	43.9	257	31.1	324	42.0	256	26.0	324	40.5	253	22.2	324	40.5	253	19.5	324	40.5	253
63 in	29.0	294	37.1	234	26.9	294	35.2	232	22.4	294	33.5	230	19.2	294	33.4	230	16.8	294	33.4	230
66 in	25.0	268	31.6	215	23.4	268	29.8	212	19.5	268	28.0	210	16.7	268	27.7	209	14.6	268	27.7	209
72 in	20.0	225	23.5	182	18.0	225	22.1	180	15.0	225	20.3	177	12.9	225	19.6	176	11.3	225	19.6	176
75 in	17.0	202	19.7	165	15.3	202	18.4	163	12.8	202	16.7	160	10.9	202	16.6	158	9.6	202	15.8	158
78 in	15.7	192	18.1	157	14.2	192	16.8	155	11.8	192	15.2	152	10.1	192	14.4	150	8.9	192	14.2	150
80 in																				
90 in																				

TABLE 2B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (GS)	#12 Steel Screw (SS)	#12 Steel Screw (GS)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	884 lbs	340 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):		780 lbs	780 lbs	880 lbs	1550 lbs	1896 lbs	540 lbs	500 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
2 Anchors @ 0.45" Min. O.C. / U-Clip, into .125" Alum. (Fig. 4):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	715 lbs
1 Anchor / F-Clip (Fig. 5):		195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 6):		240 lbs	330 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

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$$(DP_{test}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{req'd}$$

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FIGURE 1:

FIGURE 2:

FIGURE 3:

ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

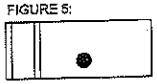

FIGURE 6:

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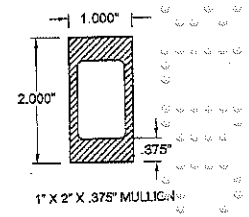

1" X 2" X .375" MULLION

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PGT® 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600

FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

Description: 1 X 2 X .375 MULL SPECS

Sheet: 6 of 25

Drawing No.: 6300JR

Rev.: C

Scale: N/A

Date: 08/29/11

Drawn By: J ROSOWSKI

Checked By:

Date:

Rev. By: J ROSOWSKI

Revision: 06/19/17 NO CHANGES THIS SHEET.

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ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)

1 x 2.75 x .375 Alum. Tube Mullion	50 in				60 in				70 in				80 in				90 in				100 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	151.8	1139	170.0	677	136.6	1139	170.0	680
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	167.8	1032	170.0	684	146.8	1032	170.0	723	130.5	1032	170.0	747	117.4	1032	170.0	756
54 in	170.0	797	170.0	612	151.3	907	170.0	691	138.2	907	164.7	730	120.9	907	152.5	720	107.5	907	145.0	714	96.8	907	141.1	710
60 in	141.1	735	151.6	625	117.6	735	130.3	611	100.8	735	116.0	599	88.2	735	106.2	590	78.4	735	99.5	583	70.5	735	95.1	578
63 in	121.9	666	130.0	570	101.6	666	111.5	557	87.0	666	98.9	547	76.2	666	90.1	538	67.7	666	83.9	531	60.9	666	79.8	525
66 in	106.0	607	112.4	522	88.3	607	96.1	511	75.7	607	85.0	501	66.2	607	77.1	493	58.9	607	71.5	486	53.0	607	67.5	481
72 in	91.6	510	85.3	443	68.0	510	73.0	434	58.3	510	64.3	426	51.0	510	57.9	419	45.4	510	53.3	413	40.8	510	50.0	408
76 in	69.4	458	72.5	400	57.9	458	61.7	392	49.6	458	54.1	385	43.4	458	48.6	379	38.6	458	44.6	373	34.7	458	41.6	368
78 in	64.2	435	67.0	381	53.5	435	56.9	373	45.9	435	49.8	366	40.1	435	44.7	360	35.7	435	40.9	355	32.1	435	38.1	351
90 in	41.8	327	43.1	290	34.8	327	36.4	285	29.9	327	31.8	280	26.1	327	28.3	275	23.2	327	25.7	271	20.9	327	23.7	268
96 in	34.4	287	35.4	257	28.7	287	29.9	252	24.6	287	26.0	248	21.5	287	23.1	244	19.1	287	20.9	240	17.2	287	19.3	237
108 in	24.2	227	24.7	205	20.2	227	20.8	201	17.3	227	18.0	198	15.1	227	16.0	195								
111 in	22.3	215	22.7	194	18.6	215	19.1	191	15.9	215	16.6	188												
120 in	17.5	184	17.8	167																				

1 x 2.75 x .375 Alum. Tube Mullion	120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	148.7	1301	170.0	521	127.5	1301	170.0	521	111.5	1301	170.0	521
48 in	113.9	1139	170.0	680	97.5	1139	170.0	680	85.4	1139	170.0	680
50.625 in	97.9	1032	170.0	756	83.9	1032	170.0	756	73.4	1032	170.0	756
54 in	80.6	907	140.0	709	69.1	907	140.0	709	60.6	907	140.0	709
60 in	59.8	735	91.8	574	50.4	735	91.8	574	44.1	735	91.8	574
63 in	50.8	666	75.8	521	43.5	666	75.8	521	38.1	666	75.8	521
66 in	44.2	607	63.4	476	37.9	607	62.7	474	33.1	607	62.7	474
72 in	34.0	510	45.9	402	29.2	510	44.4	399	25.6	510	44.3	399
76 in	28.9	458	37.7	362	24.8	458	36.0	359	21.7	458	35.7	358
78 in	26.8	435	34.4	344	22.9	435	32.6	341	20.1	435	32.2	340
90 in	17.4	327	21.0	292	14.9	327	19.3	258				
96 in	14.4	287	16.9	232								

TABLE 3B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	2.7k Concrete				3.5k Conc.	Hollow CMU					Filled CMU	PT Wood		Metal
Substrate:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
Anchor Type:															
Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):	390 lbs	390 lbs	480 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	654 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):	480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):	780 lbs	780 lbs	680 lbs	1580 lbs	1895 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	680 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
2 Anchors @ 0.45" Min. O.C. / U-Clip, into .125" Alum. (Fig. 4):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	715 lbs
1 Anchor / F-Clip (Fig. 5):	195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 6):	240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

CIRCLED VALUES ARE USED IN THE EXAMPLE ON SHEET 24.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req.}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{req.}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1:

FIGURE 2:

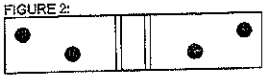
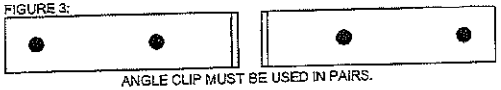


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

FIGURE 6:

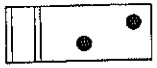


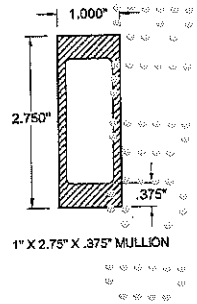
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 25 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 21-23. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 21-23. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



1" X 2.75" X .375" MULLION

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

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N. VENICE, FL 34275
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FL CERT. OF AUTH# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 1 X 2.75 X .375 MULL SPECS
Drawing No.: 6300JR
Sheet: 7 of 25
Rev: C
Series: N/A
Scale: N/A
Date: 08/29/11
Checked By:
Date:
Drawn By: J ROSOWSKI
Rev. By: J ROSOWSKI
Date: 06/19/17
Revision: NO CHANGES THIS SHEET.

TABLE 4A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

1 x 2.75 x .650 Alum. Tube Mullion	50 in				60 in				70 in				80 in				90 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	520	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	564	170.0	992	170.0	630	170.0	1133	170.0	661	170.0	1275	170.0	677
50.625 in	170.0	747	170.0	563	170.0	898	170.0	631	170.0	1046	170.0	694	170.0	1195	170.0	723	162.8	1286	170.0	747
54 in	170.0	797	170.0	612	170.0	958	170.0	691	170.0	1116	170.0	754	150.7	1130	170.0	803	133.9	1130	170.0	837
60 in	170.0	885	170.0	701	146.5	915	162.3	761	125.5	915	144.5	746	109.9	915	132.3	735	97.6	915	123.9	726
63 in	151.8	830	161.9	710	128.5	830	138.9	694	108.5	830	123.2	681	94.6	830	112.2	670	84.4	830	104.8	662
66 in	132.1	757	140.0	650	110.0	757	119.5	636	94.3	757	105.8	624	82.5	757	96.1	614	73.4	757	89.1	606
72 in	101.7	636	108.8	552	84.8	636	91.0	540	72.7	636	80.*	530	63.6	636	72.2	521	56.5	636	66.5	514
75 in	88.5	571	90.4	498	72.1	571	76.5	488	61.8	571	67.4	479	54.1	571	60.6	471	48.0	571	55.5	464
78 in	80.0	542	83.4	474	68.7	542	70.5	465	57.1	542	62.1	456	50.0	542	55.7	449	44.4	542	51.0	442
90 in	52.1	407	53.7	361	43.4	407	45.4	355	37.2	407	39.8	349	32.5	407	35.3	343	28.9	407	32.1	338
96 in	42.9	358	44.1	320	35.8	358	37.2	314	30.7	358	32.4	309	26.8	358	28.8	304	23.8	358	26.1	300
108 in	30.1	283	30.8	255	25.1	283	25.9	251	21.5	283	22.5	247	18.8	283	19.9	244	16.7	283	18.0	240
111 in	27.8	267	28.3	242	23.1	267	23.6	238	19.8	267	20.6	235	17.3	267	18.3	231	15.4	267	16.5	228
120 in	22.0	229	22.3	209	18.3	229	18.8	205	15.7	229	16.2	202								

1 x 2.75 x .650 Alum. Tube Mullion	100 in				120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	1240	170.0	521	170.0	1488	170.0	521	158.7	1620	170.0	521	138.8	1620	170.0	521
48 in	170.0	1417	170.0	680	141.7	1417	170.0	680	121.5	1417	170.0	680	106.3	1417	170.0	680
50.625 in	146.3	1286	170.0	756	121.9	1286	170.0	756	104.5	1286	170.0	756	91.4	1286	170.0	756
54 in	120.6	1130	170.0	858	100.5	1130	170.0	861	86.1	1130	170.0	861	75.3	1130	170.0	861
60 in	87.9	915	118.5	720	73.2	915	114.4	715	62.8	915	114.4	715	54.9	915	114.4	715
63 in	75.9	830	99.4	656	63.3	830	94.5	649	54.2	830	94.1	649	47.4	830	94.1	649
66 in	66.0	757	84.2	600	55.0	757	78.0	593	47.2	757	78.2	591	41.3	757	78.2	591
72 in	53.9	636	62.3	508	42.4	636	57.2	500	36.3	636	55.3	497	31.8	636	55.2	497
75 in	43.2	571	51.8	459	36.0	571	47.0	451	30.9	571	44.8	447	27.0	571	44.6	446
78 in	40.0	542	47.5	437	33.3	542	42.9	429	28.6	542	40.6	425	25.0	542	40.1	423
90 in	26.0	407	29.8	334	21.7	407	25.1	327	18.5	407	24.1	322	16.3	407	23.0	319
96 in	21.5	358	24.0	296	17.9	358	21.0	289	15.3	358	19.2	284				
108 in	15.1	283	16.5	237												
111 in																
120 in																

TABLE 4B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	684 lbs	948 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	350 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):		780 lbs	780 lbs	880 lbs	1560 lbs	1898 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
2 Anchors @ 0.45" Min. O.C. / U-Clip, into .125" Alum. (Fig. 4):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	715 lbs
1 Anchor / F-Clip (Fig. 5):		195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 6):		240 lbs	350 lbs	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

CIRCLED VALUES ARE USED IN THE EXAMPLE ON SHEET 24.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{Neg}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{Neg.}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1:

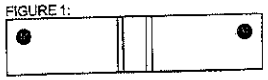


FIGURE 2:

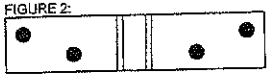


FIGURE 3:

ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

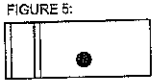
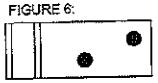


FIGURE 6:



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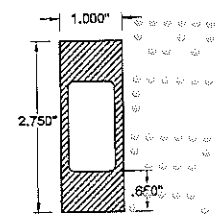

1" X 2.75" X .650" MULLION

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

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FL CERT. OF AUTH.# 20296

Title:	IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description:	1 X 2.75 X .650 MULL SPECS
Series:	N/A
Drawing No.	6300JR
Sheet:	8 of 25
Rev.	C
Scale:	N/A
Date:	08/29/11
Checked By:	
Date:	
Revisions:	NO CHANGES THIS SHEET.
Drawn By:	J ROSOWSKI
Rev. By:	J ROSOWSKI
Date:	06/19/17

TABLE 5A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

1" x 3.125" x .500" Alum Tube Mull	50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in				150 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	154.4	1802	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	170.0	1275	170.0	677	170.0	1417	170.0	680	157.7	1577	170.0	680	135.1	1577	170.0	680	118.2	1577	170.0	680
53.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	664	170.0	1195	170.0	723	170.0	1345	170.0	747	170.0	1494	170.0	756	141.7	1495	170.0	756	121.5	1495	170.0	756	106.3	1495	170.0	756
54 in	170.0	757	170.0	612	170.0	908	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803	166.1	1401	170.0	837	149.5	1401	170.0	856	124.8	1401	170.0	861	106.8	1401	170.0	861	93.4	1401	170.0	861
60 in	170.0	685	170.0	701	170.0	1083	170.0	797	158.5	1156	170.0	878	138.7	1156	167.0	928	123.3	1156	156.5	917	111.0	1155	149.7	910	92.5	1156	144.5	903	79.3	1156	144.5	903	69.4	1156	144.5	903
63 in	170.0	930	170.0	745	159.8	1049	170.0	850	137.0	1049	155.5	860	119.8	1049	141.7	845	106.5	1049	132.0	836	95.9	1049	125.5	828	79.9	1049	119.3	820	68.5	1049	118.9	819	59.9	1049	118.9	819
66 in	166.8	955	170.0	789	139.0	955	151.3	804	119.1	955	133.7	788	104.2	955	121.4	775	92.6	955	112.8	765	83.4	955	106.4	757	69.5	955	99.8	748	59.6	955	98.7	746	52.1	955	98.7	746
72 in	128.6	803	134.9	697	107.0	803	114.9	682	91.8	803	101.1	670	80.3	803	91.2	659	71.4	803	83.8	649	64.2	803	78.6	642	53.5	803	72.2	632	45.9	803	69.8	628	40.1	803	69.7	627
76 in	109.2	721	114.1	629	91.0	721	97.0	616	78.0	721	85.1	605	68.3	721	76.5	595	60.7	721	70.1	586	54.6	721	65.4	579	45.5	721	59.4	569	39.0	721	56.6	564	34.1	721	56.1	563
78 in	101.0	684	105.4	599	84.2	684	89.4	587	72.2	684	78.4	576	63.1	684	70.4	567	56.1	684	64.4	558	50.5	684	59.9	551	42.1	684	54.1	541	36.1	684	51.3	536	31.6	684	50.6	534
90 in	85.8	514	87.9	456	54.8	514	57.3	448	47.0	514	50.0	440	41.1	514	44.8	433	36.5	514	40.5	427	32.8	514	37.3	421	27.4	514	33.0	412	23.5	514	30.4	408	20.6	514	29.0	403
96 in	54.2	452	55.7	404	45.2	452	47.0	396	38.7	452	40.9	390	33.9	452	36.4	384	30.1	452	32.9	378	27.1	452	30.3	373	22.6	452	26.6	365	19.4	452	24.2	359	16.9	452	22.8	355
108 in	38.1	357	38.9	322	31.7	357	32.7	317	27.2	357	28.4	312	23.8	357	25.2	308	21.1	357	22.7	303	19.0	357	20.8	299	15.9	357	18.0	293	13.6	357	16.2	287	11.9	357	15.0	283
111 in	35.1	338	35.8	306	29.2	338	30.1	301	25.0	338	26.1	296	21.9	338	23.1	292	19.5	338	20.8	288	17.5	338	19.0	284	14.6	338	16.5	278	12.5	338	14.8	273	11.0	338	13.6	269
120 in	27.7	289	28.2	263	23.1	289	23.7	259	19.8	289	20.5	256	17.3	289	18.1	252	15.4	289	16.3	249	13.9	289	14.9	246	11.6	289	12.8	240	9.9	289	11.4	236	8.7	289	10.4	232

TABLE 5B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	2.7k Concrete				3.5k Conc.	Hollow CMU					Filled CMU	PT Wood		Metal
Substrate:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (GS)	#12 Steel Screw (GS)	#12 Steel Screw (GS)
Anchor Type:															
Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	2-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):	390 lbs	300 lbs	450 lbs	890 lbs	1844 lbs	270 lbs	260 lbs	354 lbs	740 lbs	374 lbs	684 lbs	948 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):	480 lbs	700 lbs	N/A	N/A	N/A	N/A	360 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):	780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
4 Anchors @ 0.45" Min. O.C. / U-Clip, into .125" Alum. (Fig. 4):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1073 lbs
1 Anchor / F-Clip (Fig. 5):	195 lbs	195 lbs	225 lbs	445 lbs	922 lbs	135 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C. / F-Clip (Fig. 6):	240 lbs	350 lbs	N/A	N/A	N/A	N/A	180 lbs	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

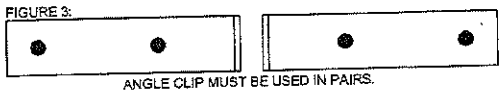
$$(DP_{adj}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ.}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1:

FIGURE 2:

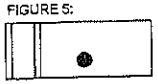
FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:



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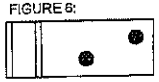

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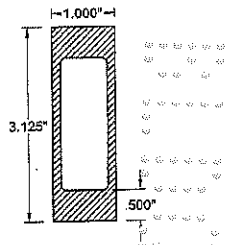

1" X 3.125" X .5" MULLION
(1" VF MULLION)

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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 1 X 3.125 X .5 MULL SPECS
Drawing No. 6300JR
Sheet: 9 of 25
Rev. C
Scale: N/A
Date:
Checked By:
Drawn By: J ROSOWSKI
Date: 08/29/11
Revision: NO CHANGES THIS SHEET.
Rev. By: J ROSOWSKI
Date: 06/19/17

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

TABLE 6A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

Columns: MC = Mullion Capacity (lbs/ft2); AC = Anchor Capacity Required (lbs); Rect. = Rectangular Loading; Trap. = Trap/Triang. Loading

1 x 4 x .125 Alum. Tube Mullion – Mull Length	50 in Rect. MC	50 in Rect. AC	50 in Trap. MC	50 in Trap. AC	60 in Rect. MC	60 in Rect. AC	60 in Trap. MC	60 in Trap. AC	70 in Rect. MC	70 in Rect. AC	70 in Trap. MC	70 in Trap. AC
42 in	170.0	820	170.0	455	170.0	744	170.0	478	170.0	868	170.0	506
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684
54 in	170.0	797	170.0	612	170.0	958	170.0	681	170.0	1116	170.0	754
60 in	170.0	885	170.0	701	166.7	1042	170.0	797	142.9	1042	161.1	832
63 in	170.0	930	170.0	745	151.2	992	163.6	818	129.6	992	144.4	799
66 in	165.4	947	170.0	789	137.8	947	148.0	768	116.1	947	130.3	768
72 in	135.9	849	142.7	737	113.2	849	121.6	722	97.0	849	106.9	708
76 in	116.5	762	120.7	665	96.3	762	102.6	652	82.5	762	90.0	640
78 in	106.9	724	111.4	654	89.0	724	94.6	621	76.3	724	82.9	609
90 in	69.6	543	71.8	483	58.0	543	60.7	474	48.7	543	52.9	466
96 in	57.3	478	58.9	427	47.8	478	49.7	419	40.9	478	43.2	412
108 in	40.3	377	41.1	341	33.5	377	34.6	335	28.8	377	30.0	330
111 in	37.1	357	37.8	323	30.9	357	31.8	318	26.5	357	27.6	313
120 in	29.3	308	29.8	279	24.5	308	25.1	274	21.0	306	21.7	270
144 in	17.0	212	17.2	196								

Mull Length	80 in Rect. MC	80 in Rect. AC	80 in Trap. MC	80 in Trap. AC	90 in Rect. MC	90 in Rect. AC	90 in Trap. MC	90 in Trap. AC	100 in Rect. MC	100 in Rect. AC	100 in Trap. MC	100 in Trap. AC
42 in	170.0	882	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521
48 in	170.0	1133	170.0	661	170.0	1275	170.0	677	156.3	1303	170.0	680
50.625 in	170.0	1195	170.0	723	156.1	1235	170.0	747	140.5	1235	170.0	756
54 in	154.4	1158	170.0	803	137.2	1158	170.0	837	123.5	1158	170.0	856
60 in	125.1	1042	146.7	815	111.2	1042	136.8	801	100.0	1042	130.2	791
63 in	113.4	992	131.0	782	100.8	992	121.4	768	90.7	992	114.8	758
66 in	103.4	947	117.7	752	91.9	947	108.7	738	82.7	947	102.2	727
72 in	84.9	849	96.4	698	75.5	849	88.7	686	67.9	849	82.7	675
76 in	72.2	762	80.9	629	64.2	762	74.2	620	57.8	762	69.2	613
78 in	66.8	724	74.4	599	59.4	724	68.1	591	53.4	724	63.4	583
90 in	43.5	543	47.1	458	38.6	543	42.8	452	34.8	543	39.5	446
96 in	35.8	478	38.5	408	31.8	478	34.8	400	28.7	478	32.0	395
108 in	25.2	377	26.6	325	22.4	377	24.0	321	20.1	377	22.0	317
111 in	23.2	357	24.4	303	20.5	357	22.0	305	18.5	357	20.1	301
120 in	18.3	306	19.2	267	16.3	306	17.3	263				
144 in												

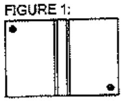
Mull Length	120 in Rect. MC	120 in Rect. AC	120 in Trap. MC	120 in Trap. AC	140 in Rect. MC	140 in Rect. AC	140 in Trap. MC	140 in Trap. AC	160 in Rect. MC	160 in Rect. AC	160 in Trap. MC	160 in Trap. AC
42 in	170.0	1488	170.0	521	145.8	1489	170.0	521	127.6	1489	170.0	521
48 in	130.3	1303	170.0	680	111.7	1303	170.0	680	97.7	1303	170.0	680
50.625 in	117.1	1235	170.0	756	100.4	1235	170.0	756	87.8	1236	170.0	756
54 in	102.9	1158	170.0	861	86.2	1158	170.0	861	77.2	1168	170.0	861
60 in	83.4	1042	125.1	782	71.5	1042	125.1	782	62.5	1042	125.1	782
63 in	75.8	992	108.4	745	64.8	992	108.0	744	56.7	992	108.0	744
66 in	68.9	947	85.1	713	59.1	947	94.0	711	51.7	947	94.0	711
72 in	56.6	849	75.3	659	48.5	849	72.5	652	42.5	849	72.4	651
76 in	48.1	762	62.6	602	41.3	762	59.9	597	36.1	762	59.4	595
78 in	44.5	724	57.3	573	36.2	724	54.3	567	33.4	724	53.5	555
90 in	29.0	543	34.9	436	24.8	543	32.1	430	21.7	543	30.7	426
96 in	23.9	478	28.1	366	20.5	478	25.8	380	17.9	478	24.2	376
108 in	16.8	377	19.0	310	14.4	377	17.1	304				
111 in	15.4	357	17.4	294								
120 in												
144 in												

TABLE 6B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
Substrate:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
Anchor Type:															
Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1&2):	390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	664 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 2.25" Min. O.C. / Standard (or Offset) Clip (Fig. 3):	700 lbs	700 lbs	580 lbs	1410 lbs	952 lbs	N/A	560 lbs	N/A	630 lbs	N/A	880 lbs	N/A	682 lbs	885 lbs	1120 lbs
8 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 4):	980 lbs	1400 lbs	N/A	N/A	N/A	N/A	760 lbs	N/A	N/A	N/A	N/A	N/A	1363 lbs	1770 lbs	2240 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 5):	780 lbs	780 lbs	580 lbs	1580 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1692 lbs	682 lbs	885 lbs	1120 lbs
6 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 6):	1170 lbs	1170 lbs	1020 lbs	2340 lbs	2844 lbs	810 lbs	840 lbs	N/A	1140 lbs	1122 lbs	1320 lbs	2838 lbs	1022 lbs	1327 lbs	1680 lbs
4 Anchors @ 0.45" Min. O.C. / U-Clip, into .125" Alum. (Fig. 7):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1430 lbs
2 Anchors @ 2.25" Min. O.C./ F-Clip (Fig. 8):	350 lbs	350 lbs	290 lbs	705 lbs	476 lbs	N/A	280 lbs	N/A	315 lbs	N/A	440 lbs	N/A	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 9):	480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:

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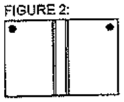
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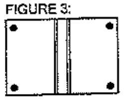
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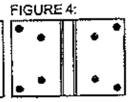
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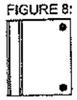
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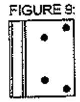
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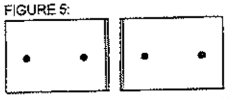
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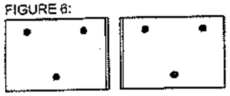
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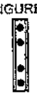


ANGLE CLIP (FIGURES 5&6) MUST BE USED IN PAIRS.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$(DP_{req}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{req}$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

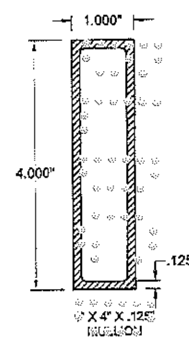
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 25 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 21-23. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 21-23. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
FL CERT. OF AUTH.# 29296

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Title:	IMPACT-RESISTANT ALUMINUM TUBE MULLIONS				
Description:	1 X 4 X .125 MULL SPECS				
Series: N/A	Scale: N/A	Drawing No. 6300JR		Sheet: 10 of 25	
Drawn By: J ROSOWSKI	Date: 08/29/11	Checked By:	Date:	Rev: C	
Rev. By: J ROSOWSKI	Date: 06/19/17	Revision: NO CHANGES THIS SHEET.			

TABLE 7A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)

1 x 4 x .375 Alum. Tube & "T" Mullion	50 in				60 in				70 in				80 in				90 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	476	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	681	170.0	1275	170.0	677
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	170.0	1345	170.0	747
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803	170.0	1434	170.0	837
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	170.0	1240	170.0	878	170.0	1417	170.0	944	170.0	1594	170.0	996
63 in	170.0	930	170.0	745	170.0	1116	170.0	850	170.0	1302	170.0	940	170.0	1488	170.0	1015	156.7	1542	170.0	1076
66 in	170.0	974	170.0	789	170.0	1169	170.0	903	170.0	1364	170.0	1002	160.6	1472	170.0	1086	142.9	1472	168.8	1148
72 in	170.0	1063	170.0	878	170.0	1275	170.0	1009	150.8	1320	166.2	1101	132.0	1320	149.9	1062	117.3	1320	137.8	1066
78 in	170.0	1122	170.0	937	149.6	1184	159.4	1013	128.2	1184	139.0	994	112.2	1184	125.7	978	99.7	1184	115.3	964
78 in	166.1	1124	170.0	957	138.4	1124	147.0	965	118.6	1124	128.8	947	103.6	1124	115.6	931	92.3	1124	105.8	916
90 in	108.1	844	111.5	750	90.1	844	94.3	726	77.2	844	82.1	724	67.6	844	73.3	712	60.1	844	66.5	702
96 in	89.1	742	91.5	663	74.2	742	77.2	652	63.8	742	67.2	641	55.7	742	59.6	631	49.5	742	54.1	622
108 in	62.6	586	63.9	530	52.1	586	53.8	521	44.7	586	46.6	513	39.1	586	41.4	505	34.8	586	37.3	498
111 in	57.6	555	58.8	503	48.0	555	49.5	495	41.2	555	42.9	487	36.0	555	38.0	480	32.0	555	34.2	473
120 in	45.6	475	46.4	433	38.0	475	39.0	426	32.6	475	33.7	420	28.5	475	29.8	414	25.3	475	26.6	409
144 in	28.4	330	28.7	305	22.0	330	22.4	301	18.9	330	19.3	297	16.5	330	17.0	293				

1 x 4 x .375 Alum. Tube & "T" Mullion	100 in				120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	170.0	1983	170.0	521
48 in	170.0	1417	170.0	680	170.0	1700	170.0	680	170.0	1983	170.0	680	151.8	2024	170.0	680
50.625 in	170.0	1494	170.0	756	170.0	1793	170.0	756	156.0	1919	170.0	756	136.5	1919	170.0	756
54 in	170.0	1594	170.0	856	159.9	1799	170.0	861	137.1	1799	170.0	861	120.0	1799	170.0	861
60 in	155.5	1619	170.0	1033	129.6	1619	170.0	1063	111.0	1619	170.0	1063	97.2	1619	170.0	1063
63 in	141.0	1542	170.0	1122	117.5	1542	168.5	1158	100.7	1542	167.9	1157	88.1	1542	167.9	1157
66 in	128.5	1472	158.8	1130	107.1	1472	147.8	1106	91.8	1472	146.0	1104	80.3	1472	146.0	1104
72 in	105.6	1320	128.6	1049	88.0	1320	117.0	1024	75.4	1320	112.8	1013	66.0	1320	112.5	1012
78 in	89.8	1184	107.5	952	74.8	1184	97.6	935	64.1	1184	93.1	927	56.1	1184	92.3	925
78 in	83.0	1124	98.5	906	69.2	1124	89.0	890	59.3	1124	84.3	881	51.9	1124	83.2	878
90 in	54.0	844	61.4	693	45.0	844	54.2	678	38.6	844	50.0	668	33.8	844	47.7	662
96 in	44.5	742	49.8	614	37.1	742	43.6	600	31.8	742	39.8	590	27.8	742	37.5	584
108 in	31.3	586	34.2	492	26.1	586	29.6	461	22.3	586	26.6	472	19.5	586	24.7	466
111 in	28.8	555	31.3	467	24.0	555	27.1	457	20.6	555	24.3	448	18.0	555	22.4	442
120 in	22.8	475	24.5	404	19.0	475	21.1	395	16.3	475	18.7	387	14.3	475	17.2	381
144 in																

TABLE 7B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1&2):		330 lbs	330 lbs	460 lbs	890 lbs	1844 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	864 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 2.25" Min. O.C. / Standard (or Offset) Clip (Fig. 3):		700 lbs	700 lbs	580 lbs	1410 lbs	962 lbs	N/A	560 lbs	N/A	630 lbs	N/A	880 lbs	N/A	682 lbs	885 lbs	1120 lbs
8 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 4):		980 lbs	1400 lbs	N/A	N/A	N/A	N/A	760 lbs	N/A	N/A	N/A	N/A	N/A	1363 lbs	1770 lbs	2240 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 5):		760 lbs	780 lbs	680 lbs	1580 lbs	1898 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
6 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 6):		1170 lbs	1170 lbs	1020 lbs	2340 lbs	2844 lbs	810 lbs	840 lbs	N/A	1140 lbs	1122 lbs	1320 lbs	2838 lbs	1022 lbs	1327 lbs	1680 lbs
4 Anchors @ 0.45" Min. O.C. / U-Clip, into .125" Alum. (Fig. 7):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1430 lbs
2 Anchors @ 2.25" Min. O.C./ F-Clip (Fig. 8):		350 lbs	350 lbs	290 lbs	705 lbs	476 lbs	N/A	280 lbs	N/A	315 lbs	N/A	440 lbs	N/A	341 lbs	442 lbs	560 lbs
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ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1: FIGURE 2: FIGURE 3: FIGURE 4: FIGURE 8: FIGURE 9:

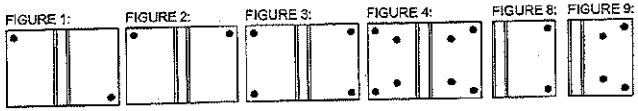
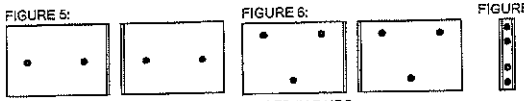


FIGURE 5: FIGURE 6: FIGURE 7:



ANGLE CLIP (FIGURES 5&6) MUST BE USED IN PAIRS.

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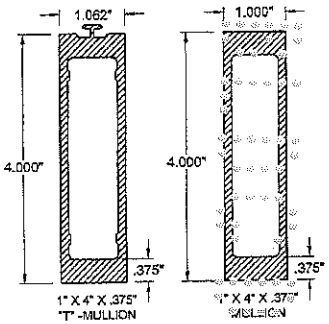

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NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

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FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 1 X 4 X .375 MULL SPECS
Drawing No.: 6300JR
Sheet: 11 of 25
Rev.: C
Scale: N/A
Date: 08/29/11
Checked By:
Date:
Drawn By: J ROSOWSKI
Rev. By: J ROSOWSKI
Date: 06/19/17
Revision: NO CHANGES THIS SHEET.

TABLE 8A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)

1.26" x 3.188" x .265" Alum Tube Mull — Mull Length	50 in				60 in				70 in				80 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	520	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519
48 in	170.0	706	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	158.9	1158	170.0	878	139.0	1158	187.4	930
63 in	170.0	930	170.0	745	160.1	1051	170.0	850	137.2	1051	155.9	862	120.1	1051	142.0	848
66 in	157.1	957	170.0	789	139.3	957	151.6	805	119.4	957	134.0	790	104.4	957	121.6	777
72 in	128.7	804	135.2	698	107.3	804	115.2	584	91.9	804	101.3	671	80.4	804	91.4	660
76 in	109.4	722	114.4	630	91.2	722	97.2	518	78.2	722	85.3	606	68.4	722	76.7	596
78 in	101.2	685	105.8	600	84.4	685	89.5	588	72.3	685	78.5	577	63.3	685	70.5	566
90 in	65.9	515	68.0	457	54.9	515	57.5	449	47.1	515	50.1	441	41.2	515	44.7	434
96 in	54.3	453	55.8	404	45.3	453	47.1	397	38.8	453	41.0	391	33.9	453	36.4	385
108 in	38.1	358	39.0	323	31.8	358	32.8	318	27.2	358	28.4	313	23.8	358	25.2	308
111 in	35.1	338	35.8	306	29.3	338	30.1	301	25.1	338	26.1	297	22.0	338	23.2	293
120 in	27.8	290	28.3	264	23.2	290	23.8	260	19.9	290	20.6	256	17.4	290	18.2	253
144 in	18.1	201	18.3	186												

Mull Length	90 in				100 in				120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	151.5	1769	170.0	521
48 in	170.0	1275	170.0	677	170.0	1417	170.0	680	154.8	1546	170.0	680	132.7	1543	170.0	680	116.1	1546	170.0	680
50.625 in	170.0	1345	170.0	747	167.0	1468	170.0	758	139.2	1468	170.0	756	119.3	1468	170.0	756	104.4	1468	170.0	758
54 in	163.1	1376	170.0	837	146.8	1376	170.0	856	122.3	1376	170.0	861	104.8	1376	170.0	861	91.7	1376	170.0	891
60 in	123.6	1158	156.8	919	111.2	1158	150.0	912	92.7	1158	144.8	905	79.4	1158	144.8	905	69.5	1158	144.8	905
63 in	106.7	1051	132.3	837	96.1	1051	125.7	830	80.1	1051	119.5	822	68.6	1051	119.1	821	60.0	1051	119.1	821
66 in	92.8	957	112.8	767	83.6	957	106.6	759	69.6	957	100.0	750	59.7	957	98.9	748	52.2	957	98.9	748
72 in	71.5	804	84.1	650	64.4	804	78.8	643	53.6	804	72.3	633	46.0	804	68.9	629	40.2	804	68.8	628
76 in	60.8	722	70.3	588	54.7	722	65.5	580	45.6	722	59.5	570	39.1	722	56.7	565	34.2	722	56.2	564
78 in	56.2	685	64.5	560	50.6	685	60.1	553	42.2	685	54.3	543	36.2	685	51.4	537	31.6	685	50.7	536
90 in	36.6	515	40.6	425	33.0	515	37.4	422	27.5	515	33.1	413	23.5	515	30.5	407	20.6	515	29.1	404
96 in	30.2	453	33.0	379	27.2	453	30.4	374	22.6	453	26.6	366	19.4	453	24.3	360	17.0	453	22.9	356
108 in	21.2	358	22.7	304	19.1	358	20.8	300	15.9	358	18.0	293								
111 in	19.5	338	20.9	289	17.6	338	19.1	285												
120 in	15.4	290	16.4	249																
144 in																				

TABLE 8B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate: 2.7K Concrete				3.5k Conc.	Hollow CMU					Filled CMU	PT Wood		Metal
Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (GS)	#12 Steel Screw (GS)	#12 Steel Screw (GS)
Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):	300 lbs	360 lbs	450 lbs	640 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	564 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):	480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):	780 lbs	760 lbs	680 lbs	1520 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
4 Anchors @ 0.45" Min. O.C. / U-Clip, into .125" Alum. (Fig. 4):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1430 lbs
1 Anchor / F-Clip (Fig. 5):	195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 5):	240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ.}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ.}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1:

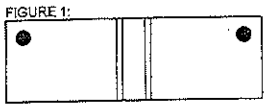


FIGURE 2:

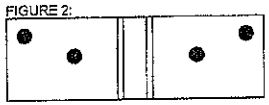
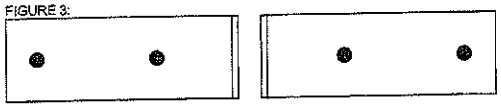


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

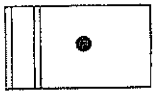


FIGURE 6:

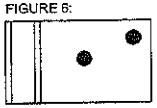


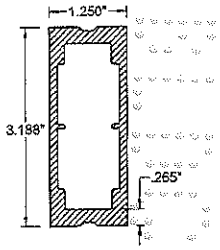
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 25 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 21-23. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 21-23. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



1.25" X 3.188" X .265" MULLION
(1-1/4" VF MULLION)

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

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Title:	IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description:	1.25 X 3.188 X .265 MULL SPECS
Drawing No.	6300JR
Sheet:	12 of 25
Rev.	C
Series:	N/A
Scale:	N/A
Date:	08/29/11
Drawn By:	J ROSOWSKI
Checked By:	
Date:	06/19/17
Rev. By:	J ROSOWSKI
Revisions:	NO CHANGES THIS SHEET.

TABLE 9A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)

Columns in each width group: Rectangular Loading (Mullion Capacity (lbs/ft²), Anchor Capacity Required (lbs)); Trap/Triang. Loading (Mullion Capacity (lbs/ft²), Anchor Capacity Required (lbs)).

1.25 x 3.25 x .100 Alum. Tube Mullion — Mullion Length	50 in Rect. Mullion Cap.	50 in Rect. Anchor Cap.	50 in Trap. Mullion Cap.	50 in Trap. Anchor Cap.	60 in Rect. Mullion Cap.	60 in Rect. Anchor Cap.	60 in Trap. Mullion Cap.	60 in Trap. Anchor Cap.	70 in Rect. Mullion Cap.	70 in Rect. Anchor Cap.	70 in Trap. Mullion Cap.	70 in Trap. Anchor Cap.	80 in Rect. Mullion Cap.	80 in Rect. Anchor Cap.	80 in Trap. Mullion Cap.	80 in Trap. Anchor Cap.
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	508	170.0	982	170.0	519
48 in	170.0	708	170.0	524	170.0	850	170.0	584	167.6	978	170.0	630	146.7	978	170.0	661
50.625 in	170.0	747	170.0	565	170.0	896	170.0	631	150.7	927	170.0	684	131.9	927	168.5	708
54 in	170.0	797	170.0	612	154.5	869	170.0	861	132.5	889	153.9	683	115.9	889	141.8	689
60 in	143.2	748	153.8	634	119.4	746	132.3	620	102.3	746	117.8	605	89.5	746	107.8	599
63 in	123.7	677	132.0	579	103.1	677	113.2	568	88.4	677	100.4	555	77.3	677	91.4	548
66 in	107.6	617	114.1	530	89.7	617	97.6	519	76.9	617	88.3	509	67.3	617	78.3	500
72 in	82.9	518	87.1	450	68.1	518	74.2	440	59.2	518	65.2	432	51.8	518	58.8	425
76 in	70.5	465	71.7	406	56.7	465	62.6	398	50.3	465	54.9	390	44.1	465	49.4	384
78 in	65.2	441	68.0	387	54.3	441	57.7	379	46.5	441	50.8	372	40.8	441	45.4	356
90 in	42.4	332	43.8	295	35.4	332	37.0	269	30.3	332	32.3	284	26.5	332	28.8	280
96 in	35.0	291	35.9	260	29.1	291	30.3	256	25.0	291	28.4	252	21.9	291	23.5	248
108 in	24.6	230	25.1	208	20.5	230	21.1	205	17.5	230	18.3	201	15.4	230	10.2	188
111 in	22.6	218	23.1	197	18.3	218	19.4	194	16.2	218	16.8	191	14.1	218	14.9	186
120 in	17.9	187	18.2	170	14.0	187	15.3	167								

Mullion Length	90 in Rect. Mullion Cap.	90 in Rect. Anchor Cap.	90 in Trap. Mullion Cap.	90 in Trap. Anchor Cap.	100 in Rect. Mullion Cap.	100 in Rect. Anchor Cap.	100 in Trap. Mullion Cap.	100 in Trap. Anchor Cap.	120 in Rect. Mullion Cap.	120 in Rect. Anchor Cap.	120 in Trap. Mullion Cap.	120 in Trap. Anchor Cap.
42 in	170.0	1116	170.0	521	153.3	1119	170.0	521	127.7	1118	170.0	521
48 in	130.4	978	170.0	677	117.3	978	170.0	680	97.8	978	170.0	680
50.625 in	117.2	927	159.1	699	105.5	927	156.3	698	87.9	927	156.3	695
54 in	103.0	869	134.0	660	92.7	869	129.8	654	77.3	869	128.8	652
60 in	79.6	746	101.0	592	71.6	746	98.6	587	59.7	746	93.3	583
63 in	68.7	677	85.2	539	61.9	677	81.0	534	51.6	677	77.0	529
66 in	59.8	617	72.6	494	53.8	617	68.7	488	44.8	617	64.4	493
72 in	46.1	518	54.2	419	41.4	518	50.7	414	34.5	518	48.6	408
76 in	39.2	465	45.3	376	35.2	495	42.2	374	29.4	465	38.3	387
78 in	36.2	441	41.6	360	32.6	441	38.7	356	27.2	441	34.9	349
90 in	23.6	332	26.1	276	21.2	332	24.1	272	17.7	332	21.3	266
96 in	19.4	291	21.3	244	17.5	291	19.5	241	14.6	291	17.1	236
108 in												
111 in												
120 in												

Mullion Length	140 in Rect. Mullion Cap.	140 in Rect. Anchor Cap.	140 in Trap. Mullion Cap.	140 in Trap. Anchor Cap.	160 in Rect. Mullion Cap.	160 in Rect. Anchor Cap.	160 in Trap. Mullion Cap.	160 in Trap. Anchor Cap.
42 in	109.5	1118	170.0	521	95.8	1118	170.0	521
48 in	83.8	978	170.0	680	73.3	978	170.0	680
50.625 in	75.4	927	156.3	695	65.9	927	156.3	695
54 in	66.2	869	128.8	652	57.9	869	128.8	652
60 in	51.2	746	93.3	583	44.8	746	93.3	583
63 in	44.2	677	76.7	529	38.7	677	78.7	529
66 in	38.4	617	63.7	482	33.6	617	63.7	482
72 in	29.8	518	45.0	405	25.9	518	45.0	405
76 in	25.2	465	36.5	364	22.0	465	36.2	363
78 in	23.3	441	33.1	348	20.4	441	32.7	345
90 in	15.2	332	19.6	262	13.3	932	18.7	260
96 in	12.5	291	15.8	232				
108 in								
111 in								
120 in								

TABLE 9B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	2.7k Concrete: 3/16" Elco Ultracon	2.7k Concrete: 3/16" Elco Ultracon	2.7k Concrete: 1/4" Elco Ultracon	2.7k Concrete: 1/4" Elco Ultracon	3.5k Conc.: 5/16" Elco Ultracon	Hollow CMU: 3/16" Elco Ultracon	Hollow CMU: 3/16" Elco Ultracon	Hollow CMU: 1/4" Elco Ultracon	Hollow CMU: 1/4" Elco Ultracon	Hollow CMU: 1/4" SS Elco AggreGator	Hollow CMU: 5/16" Elco Ultracon	Filled CMU: 1/4" SS Elco AggreGator	PT Wood: #10 Steel Screw (G5)	PT Wood: #12 Steel Screw (G5)	Metal: #12 Steel Screw (G5)
Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):	390 lbs	360 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	664 lbs	946 lbs	341 lbs	442 lbs	580 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):	480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):	780 lbs	780 lbs	680 lbs	1560 lbs	1886 lbs	540 lbs	560 lbs	N/A	780 lbs	748 lbs	880 lbs	1692 lbs	682 lbs	885 lbs	1120 lbs
3 Anchors @ 0.54" Min. O.C. / U-Clip, Into .100" Alum. (Fig. 4):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	950 lbs
1 Anchor / F-Clip (Fig. 5):	185 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 6):	240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	580 lbs

FIGURE 1:

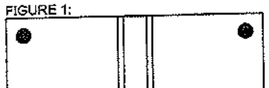
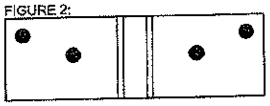


FIGURE 2:



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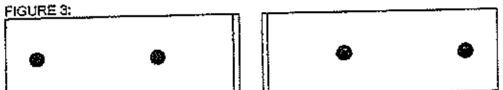
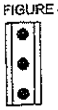


ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:



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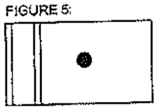

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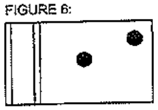

TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 25 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

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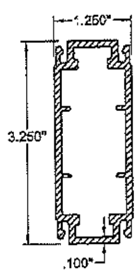
4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .100" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.

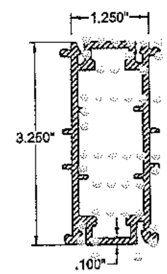
ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{\text{N.U.}}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ.}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



1.25" X 3.25" X .100" MULLION FOR FIELD-MULLED UNITS

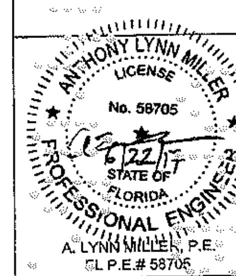


1.25" X 3.25" X .100" MULLION FOR FACTORY-MULLED UNITS

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 17-0630.01

Expiration Date 05/26/2021

By Miami-Dade Product Control



A. LYNN MILLER, P.E.
FL P.E.# 58705

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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

Description: 1.25 X 3.25 X .100 MULL SPECS

Series: N/A	Scale: N/A	Drawing No. 6300JR	Sheet: 13 of 25
Drawn By: J ROSOWSKI	Date: 08/29/11	Checked By:	Date:	Rev: C
Rev. By: J ROSOWSKI	Date: 06/19/17	Revision: NO CHANGES THIS SHEET.	

1070 TECHNOLOGY DRIVE
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(941) 480-1600
FL CERT. OF AUTH.# 29296

TABLE 10A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)

1.25 x 3.25 x .624 Alum. Tube Mullion	50 in				60 in				70 in				80 in				90 in				100 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mullion Length	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	436	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	170.0	1275	170.0	677	170.0	1417	170.0	680
50.625 in	170.0	747	170.0	583	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	170.0	1345	170.0	747	170.0	1494	170.0	755
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803	170.0	1434	170.0	837	170.0	1594	170.0	856
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	170.0	1240	170.0	878	170.0	1417	170.0	944	161.1	1611	170.0	986	145.0	1611	170.0	1033
63 in	170.0	938	170.0	746	170.0	1116	170.0	850	170.0	1302	170.0	940	156.6	1376	170.0	1016	139.2	1370	170.0	1076	125.3	1370	164.0	1082
66 in	170.0	974	170.0	789	170.0	1169	170.0	903	155.6	1248	170.0	1002	136.2	1248	158.5	1013	121.1	1248	147.1	1000	108.9	1248	139.0	989
72 in	167.8	1049	170.0	876	139.9	1049	150.2	892	119.9	1049	132.1	875	104.9	1049	119.1	860	93.2	1049	109.7	848	83.9	1049	102.7	838
76 in	142.7	941	149.1	822	118.9	941	126.8	806	101.9	941	111.2	791	89.2	941	100.0	777	79.3	941	91.7	766	71.4	941	85.5	757
78 in	132.0	894	137.6	783	110.0	894	116.9	767	94.3	894	102.4	753	82.5	894	91.9	740	73.3	894	84.1	730	66.0	894	78.3	721
90 in	85.9	671	88.7	586	71.6	671	74.9	585	61.4	671	66.3	575	53.7	671	58.2	568	47.7	671	52.9	558	43.0	671	48.6	551
96 in	70.8	590	72.8	527	59.0	590	61.4	516	50.6	590	53.4	508	44.3	590	47.6	502	39.3	590	43.0	494	35.4	590	39.6	488
108 in	49.7	466	50.9	421	41.4	466	42.6	414	35.5	466	37.1	408	31.1	466	32.5	402	27.5	466	29.7	396	24.9	466	27.1	391
111 in	45.8	441	46.7	400	38.2	441	39.3	393	32.7	441	34.1	387	28.6	441	30.2	382	25.4	441	27.2	376	22.9	441	24.9	372
120 in	38.3	378	36.5	344	30.2	378	31.0	339	25.9	378	26.8	334	22.7	378	23.7	329	20.1	378	21.3	325	18.1	378	19.5	321
144 in	21.0	262	21.2	242	17.5	262	17.8	239	15.0	262	15.3	236												

1.25 x 3.25 x .624 Alum. Tube Mullion	120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mullion Length	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)
42 in	170.0	1488	170.0	521	170.0	1736	170.0	521	170.0	1983	170.0	521
48 in	170.0	1700	170.0	680	169.7	1979	170.0	680	148.5	1979	170.0	680
50.625 in	170.0	1793	170.0	756	152.5	1877	170.0	756	133.5	1877	170.0	756
54 in	170.0	1768	170.0	861	134.1	1768	170.0	861	117.3	1759	170.0	861
60 in	170.0	1511	170.0	1063	103.6	1511	170.0	1063	90.6	1511	170.0	1063
63 in	164.4	1370	155.9	1072	99.5	1370	155.3	1070	78.3	1370	155.3	1070
66 in	96.8	1248	130.4	978	77.8	1248	129.0	975	68.1	1248	129.0	975
72 in	69.9	1049	94.3	825	59.9	1049	91.2	820	52.4	1049	91.1	820
76 in	59.5	941	77.5	744	51.0	941	74.0	737	44.6	941	73.3	736
78 in	55.0	894	70.7	707	47.1	894	67.0	701	41.3	894	66.1	698
90 in	35.8	671	43.1	539	30.7	671	38.7	531	26.9	671	37.9	526
96 in	29.6	590	34.7	477	25.3	590	31.6	469	22.1	590	29.8	464
108 in	20.7	466	23.6	382	17.8	466	21.2	376	15.6	466	19.6	370
111 in	19.1	441	21.5	353	16.4	441	19.3	356	14.3	441	17.8	361
120 in	15.1	378	16.7	314								
144 in												

TABLE 10B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
Substrate:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
Anchor Type:															
Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):	390 lbs	390 lbs	450 lbs	890 lbs	1544 lbs	270 lbs	280 lbs	354 lbs	740 lbs	574 lbs	664 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):	480 lbs	700 lbs	N/A	N/A	N/A	N/A	360 lbs	N/A	N/A	N/A	N/A	N/A	662 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):	780 lbs	780 lbs	880 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	662 lbs	885 lbs	1120 lbs
3 Anchors @ 0.54" Min. O.C. / U-Clip, into .100" Alum. (Fig. 4):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	930 lbs
1 Anchor / F-Clip (Fig. 5):	195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C. / F-Clip (Fig. 6):	240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	560 lbs

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{new}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{PRODUCT USE}}}{\text{MULLION CAP.}_{\text{PRODUCT USE}}}\right) = \text{ANCHOR CAP.}_{\text{NEW}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1:

FIGURE 2:

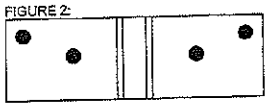
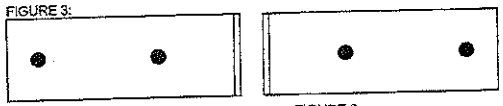


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

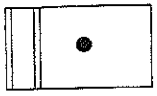
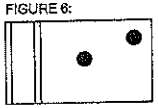


FIGURE 6:



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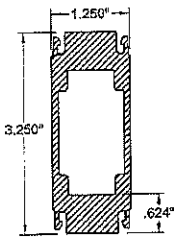
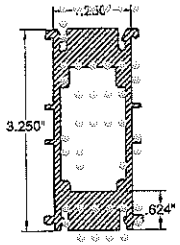


1.25" X 3.25" X .624" MULLION FOR FIELD-MULLED UNITS



1.25" X 3.25" X .624" MULLION FOR FACTORY-MULLED UNITS

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/22/17
A. LYNN MILLER, P.E.
FL P.E.# 58705

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PGT® 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 FL CERT. OF AUTH.# 29296

Title:	IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description:	1.25 X 3.25 X .624 MULL SPECS
Series:	N/A
Drawn By:	J ROSOWSKI
Rev. By:	J ROSOWSKI
Scale:	N/A
Date:	08/29/11
Date:	06/19/17
Drawing No.	6300JR
Checked By:	
Date:	
Revision:	NO CHANGES THIS SHEET.
Sheet:	14 of 25
Rev.	C

TABLE 11A

Mullion Capacity Table (lbs./ft²)

Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)

1.25 x 3.94 x .624 Alum. Tube Mullion	50 in				60 in				70 in				80 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mullion Length	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	505	170.0	992	170.0	519
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	170.0	1246	170.0	878	170.0	1417	170.0	944
63 in	170.0	930	170.0	745	170.0	1116	170.0	850	170.0	1302	170.0	940	170.0	1488	170.0	1016
66 in	170.0	974	170.0	789	170.0	1169	170.0	903	170.0	1364	170.0	1002	170.0	1558	170.0	1086
72 in	170.0	1063	170.0	878	170.0	1275	170.0	1009	170.0	1488	170.0	1126	170.0	1700	170.0	1228
76 in	170.0	1122	170.0	937	170.0	1346	170.0	1080	169.5	1556	170.0	1209	147.4	1556	165.2	1266
79 in	170.0	1161	170.0	967	170.0	1391	170.0	1116	155.9	1477	169.3	1249	136.4	1477	152.0	1224
90 in	142.6	1110	146.5	986	119.4	1110	123.9	968	101.5	1110	107.9	951	88.6	1110	96.3	936
96 in	117.0	975	120.3	872	97.5	975	101.5	856	83.6	975	88.2	842	73.2	975	78.6	829
108 in	82.2	771	84.9	695	68.5	771	70.7	685	58.7	771	61.3	674	51.4	771	54.3	664
111 in	76.7	730	77.3	661	63.1	730	65.0	650	54.1	730	56.3	640	47.3	730	49.9	631
120 in	59.9	624	61.0	569	49.9	624	51.2	568	42.8	624	44.3	552	37.5	624	39.2	544
144 in	34.7	433	35.1	490	28.9	433	29.4	395	24.8	433	25.4	390	21.7	433	22.4	386

1.25 x 3.94 x .624 Alum. Tube Mullion	90 in				100 in				120 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mullion Length	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)
42 in	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521
48 in	170.0	1275	170.0	677	170.0	1417	170.0	680	170.0	1700	170.0	680
50.625 in	170.0	1345	170.0	747	170.0	1494	170.0	756	170.0	1793	170.0	753
54 in	170.0	1434	170.0	837	170.0	1594	170.0	856	170.0	1913	170.0	861
60 in	170.0	1594	170.0	998	170.0	1771	170.0	1033	170.0	2125	170.0	1063
63 in	170.0	1673	170.0	1076	170.0	1859	170.0	1122	156.9	2060	170.0	1169
66 in	170.0	1753	170.0	1155	170.0	1948	170.0	1210	143.0	1966	170.0	1275
72 in	154.1	1734	170.0	1315	138.7	1734	169.8	1385	115.6	1734	155.9	1364
76 in	131.1	1556	151.5	1266	117.9	1556	141.3	1251	98.3	1556	128.3	1223
79 in	121.2	1477	139.1	1205	109.1	1477	129.5	1191	90.9	1477	116.9	1169
90 in	73.9	1110	87.5	922	71.0	1110	80.7	910	59.2	1110	71.9	891
96 in	65.0	975	71.2	817	58.5	975	65.4	807	48.8	975	57.4	789
108 in	45.7	771	49.8	656	41.1	771	44.9	647	34.3	771	38.8	632
111 in	42.1	730	45.0	622	37.9	730	41.1	614	31.6	730	35.6	600
120 in	33.3	624	36.3	537	30.0	624	32.2	531	26.0	624	27.7	519
144 in	19.3	433	20.0	381	17.3	433	18.2	376				

1.25 x 3.94 x .624 Alum. Tube Mullion	140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mullion Length	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)
42 in	170.0	1736	170.0	521	170.0	1983	170.0	521
48 in	170.0	1983	170.0	680	170.0	2267	170.0	680
50.625 in	170.0	2092	170.0	756	170.0	2391	170.0	756
54 in	160.2	2231	170.0	861	150.2	2403	170.0	861
60 in	148.3	2163	170.0	1063	129.8	2163	170.0	1063
63 in	134.5	2060	170.0	1171	117.7	2060	170.0	1171
66 in	122.6	1966	170.0	1286	107.2	1966	170.0	1286
72 in	99.1	1734	160.4	1352	86.7	1734	150.2	1352
76 in	84.2	1556	122.3	1219	73.7	1556	121.2	1216
79 in	77.9	1477	110.8	1168	68.2	1477	109.3	1164
90 in	50.7	1110	65.6	878	44.4	1110	62.7	870
96 in	41.8	975	52.3	776	36.6	975	49.3	767
108 in	29.4	771	35.0	621	25.7	771	32.4	612
111 in	27.0	730	31.9	589	23.7	730	29.5	581
120 in	21.4	624	24.6	509	18.7	624	22.5	501

TABLE 11B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	2-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	Varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):		390 lbs	390 lbs	450 lbs	690 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	664 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):		780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1692 lbs	682 lbs	885 lbs	1120 lbs
4 Anchors @ 0.54" Min. O.C. / U-Clip, into .100" Alum. (Fig. 4):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1267 lbs
1 Anchor / F-Clip (Fig. 5):		195 lbs	195 lbs	225 lbs	445 lbs	622 lbs	135 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C. / F-Clip (Fig. 6):		240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	560 lbs

FIGURE 1:

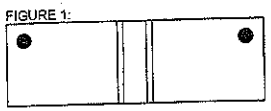


FIGURE 2:

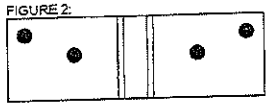
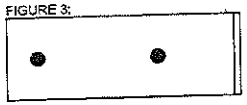
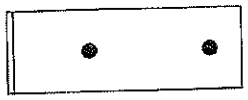


FIGURE 3:





ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

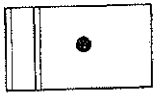


FIGURE 6:

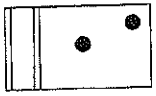


TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 25 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

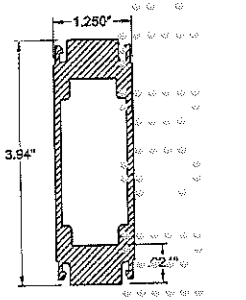
3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 21-23. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 21-23. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .100" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



1.25" X 3.94" X .624" MULLION

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

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Title:	IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description:	1.25 X 3.94 X .624 MULL SPECS
Sheet:	15 of 25
Drawing No.	6300JR
Rev.	C
Scale:	N/A
Date:	08/29/11
Drawn By:	J ROSOWSKI
Checked By:	N/A
Date:	
Rev. By:	J ROSOWSKI
Date:	06/19/17
Revision:	NO CHANGES THIS SHEET.

TABLE 12A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)

2 x 4 x .25 Alum. Tube Mullion	50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	170.0	1983	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	651	170.0	1275	170.0	677	170.0	1417	170.0	680	170.0	1700	170.0	680	170.0	1983	170.0	680	170.0	2267	170.0	680
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	170.0	1345	170.0	747	170.0	1494	170.0	756	170.0	1793	170.0	756	170.0	2092	170.0	756	170.0	2391	170.0	756
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803	170.0	1434	170.0	837	170.0	1594	170.0	856	170.0	1913	170.0	861	170.0	2231	170.0	861	170.0	2550	170.0	861
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	170.0	1240	170.0	878	170.0	1417	170.0	944	170.0	1594	170.0	996	170.0	1771	170.0	1033	170.0	2125	170.0	1063	170.0	2479	170.0	1063	160.8	2680	170.0	1063
63 in	170.0	930	170.0	745	170.0	1116	170.0	850	170.0	1302	170.0	940	170.0	1488	170.0	1015	170.0	1673	170.0	1076	170.0	1859	170.0	1122	170.0	2231	170.0	1169	166.7	2553	170.0	1171	145.9	2553	170.0	1171
66 in	170.0	974	170.0	789	170.0	1169	170.0	903	170.0	1364	170.0	1002	170.0	1558	170.0	1086	170.0	1753	170.0	1155	170.0	1948	170.0	1210	170.0	2338	170.0	1275	151.9	2437	170.0	1286	132.9	2437	170.0	1286
72 in	170.0	1063	170.0	878	170.0	1275	170.0	1009	170.0	1488	170.0	1126	170.0	1700	170.0	1228	170.0	1913	170.0	1315	170.0	2125	170.0	1387	145.6	2184	170.0	1488	124.8	2184	170.0	1529	109.2	2184	170.0	1530
75 in	170.0	1122	170.0	937	170.0	1346	170.0	1060	170.0	1570	170.0	1209	170.0	1794	170.0	1322	165.1	1960	170.0	1421	148.6	1960	170.0	1505	123.8	1960	161.6	1548	106.1	1960	154.0	1535	92.9	1960	152.7	1531
78 in	170.0	1151	170.0	967	170.0	1381	170.0	1116	170.0	1611	170.0	1250	170.0	1842	170.0	1369	152.7	1861	170.0	1474	137.4	1861	163.1	1500	114.5	1861	147.3	1473	98.2	1861	139.6	1459	85.9	1861	137.6	1454
90 in	170.0	1328	170.0	1144	149.1	1398	156.0	1219	127.8	1398	136.0	1198	111.8	1398	121.3	1179	99.4	1398	110.2	1182	89.5	1398	101.6	1147	74.5	1398	89.8	1122	63.9	1398	82.7	1105	55.9	1398	78.9	1098
96 in	147.4	1229	151.5	1098	122.9	1229	127.8	1079	105.3	1229	111.2	1061	92.1	1229	98.9	1044	81.9	1229	89.6	1029	73.7	1229	82.4	1016	61.4	1229	72.2	993	52.7	1229	65.9	977	46.1	1229	62.1	967
108 in	103.5	971	105.8	877	86.3	971	89.0	862	74.0	971	77.2	849	64.7	971	68.4	837	57.5	971	61.8	825	51.8	971	56.5	815	43.1	971	49.0	796	37.0	971	44.0	782	32.4	971	40.8	771
111 in	95.4	919	97.3	832	79.5	919	81.9	819	68.1	919	70.9	806	59.6	919	62.9	794	53.0	919	56.7	784	47.7	919	51.8	774	39.7	919	44.8	756	34.1	919	40.2	742	29.8	919	37.1	732
120 in	75.5	786	76.8	716	62.9	786	64.5	705	53.9	786	55.8	695	47.2	786	49.4	686	41.9	786	44.4	677	37.7	786	40.5	668	31.5	786	34.9	653	27.0	786	31.0	641	23.6	786	28.4	631
144 in	43.7	546	44.2	504	36.4	546	37.0	498	31.2	546	31.9	491	27.3	546	28.2	485	24.3	546	25.3	479	21.8	546	22.9	474	18.2	546	19.5	464	15.6	546	17.2	455	13.7	546	15.5	448

TABLE 12B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1&2):		990 lbs	990 lbs	450 lbs	880 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	664 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 2.68" Min. O.C. / Standard (or Offset) Clip (Fig. 3):		740 lbs	740 lbs	630 lbs	1465 lbs	1424 lbs	N/A	560 lbs	N/A	695 lbs	N/A	880 lbs	N/A	682 lbs	865 lbs	1120 lbs
6 Anchors @ 1.71" Min. O.C. / Standard (or Offset) Clip (Fig. 4):		885 lbs	1050 lbs	758 lbs	1946 lbs	N/A	N/A	705 lbs	N/A	799 lbs	N/A	N/A	N/A	1022 lbs	1327 lbs	1680 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 5):		780 lbs	780 lbs	880 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	865 lbs	1120 lbs
6 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 6):		1170 lbs	1170 lbs	1020 lbs	2340 lbs	2844 lbs	810 lbs	840 lbs	N/A	1140 lbs	1122 lbs	1320 lbs	2838 lbs	1022 lbs	1327 lbs	1680 lbs
3 Anchors @ 1.34" Min. O.C. / U-Clip, into .125" Alum. (Fig. 7):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1073 lbs
6 Anchors @ 0.64" Min. O.C. / U-Clip, into .125" Alum. (Fig. 8):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2146 lbs
2 Anchors @ 2.68" Min. O.C./ F-Clip (Fig. 9):		370 lbs	370 lbs	315 lbs	740 lbs	712 lbs	N/A	280 lbs	N/A	346 lbs	N/A	440 lbs	N/A	341 lbs	442 lbs	560 lbs
3 Anchors @ 1.71" Min. O.C./ F-Clip (Fig. 10):		443 lbs	525 lbs	379 lbs	973 lbs	N/A	N/A	353 lbs	N/A	399 lbs	N/A	N/A	N/A	511 lbs	664 lbs	840 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

CIRCLED VALUES ARE USED IN THE EXAMPLE ON SHEET 24.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ.}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ.}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1: FIGURE 2: FIGURE 3: FIGURE 4:

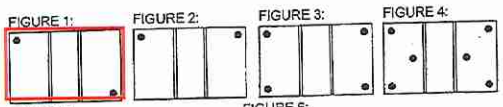


FIGURE 5: FIGURE 6:

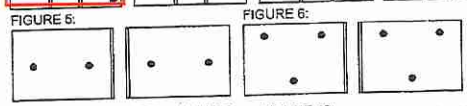
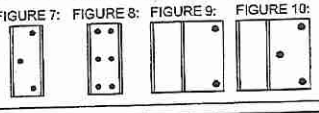


FIGURE 7: FIGURE 8: FIGURE 9: FIGURE 10:



ANGLE CLIP (FIGURES 5&6) MUST BE USED IN PAIRS.

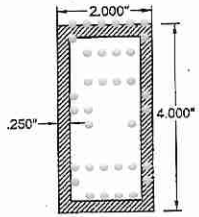
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 25 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 21-23. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 21-23. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



2" X 4" X .25" MULLION

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS		Sheet: 16 of 25	
Description: 2 X 4 X .25 MULL SPECS	Drawing No. 6300JR	Rev: C	
Series: N/A	Scale: N/A	Date:	
Drawn By: J ROSOWSKI	Date: 08/29/11	Checked By:	
Rev. By: J ROSOWSKI	Date: 06/19/17	Revision: NO CHANGES THIS SHEET.	

TABLE 13A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)

2 x 6 x .25 Alum. Tube Mullion	50 in				60 in				70 in				80 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	508	170.0	992	170.0	519
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	636	170.0	1133	170.0	661
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	170.0	1240	170.0	878	170.0	1417	170.0	944
63 in	170.0	930	170.0	745	170.0	1116	170.0	850	170.0	1302	170.0	940	170.0	1488	170.0	1015
66 in	170.0	974	170.0	789	170.0	1169	170.0	903	170.0	1364	170.0	1002	170.0	1558	170.0	1066
72 in	170.0	1063	170.0	878	170.0	1275	170.0	1009	170.0	1488	170.0	1126	170.0	1700	170.0	1228
75 in	170.0	1122	170.0	937	170.0	1346	170.0	1080	170.0	1570	170.0	1209	170.0	1784	170.0	1322
78 in	170.0	1151	170.0	967	170.0	1381	170.0	1115	170.0	1611	170.0	1250	170.0	1842	170.0	1369
90 in	170.0	1328	170.0	1144	170.0	1594	170.0	1328	170.0	1859	170.0	1498	170.0	2125	170.0	1853
96 in	170.0	1417	170.0	1232	170.0	1700	170.0	1434	170.0	1983	170.0	1622	170.0	2267	170.0	1794
108 in	170.0	1594	170.0	1409	170.0	1913	170.0	1647	170.0	2231	170.0	1870	170.0	2550	170.0	2075
111 in	170.0	1638	170.0	1454	170.0	1966	170.0	1700	170.0	2293	170.0	1932	170.0	2621	170.0	2149
120 in	170.0	1771	170.0	1586	170.0	2125	170.0	1859	154.4	2252	158.9	1991	135.1	2252	141.4	1964
144 in	125.1	1584	125.6	1445	104.3	1584	106.1	1425	89.4	1584	91.5	1407	78.2	1584	80.7	1390

2 x 6 x .25 Alum. Tube Mullion	90 in				100 in				120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	170.0	1983	170.0	521
48 in	170.0	1275	170.0	677	170.0	1417	170.0	680	170.0	1700	170.0	680	170.0	1983	170.0	680	170.0	2267	170.0	680
50.625 in	170.0	1345	170.0	747	170.0	1494	170.0	756	170.0	1793	170.0	756	170.0	2092	170.0	758	170.0	2391	170.0	756
54 in	170.0	1434	170.0	837	170.0	1594	170.0	856	170.0	1913	170.0	861	170.0	2231	170.0	861	170.0	2550	170.0	861
60 in	170.0	1594	170.0	998	170.0	1771	170.0	1033	170.0	2125	170.0	1063	170.0	2479	170.0	1063	170.0	2833	170.0	1063
63 in	170.0	1673	170.0	1076	170.0	1859	170.0	1122	170.0	2231	170.0	1169	170.0	2603	170.0	1171	170.0	2975	170.0	1171
66 in	170.0	1753	170.0	1155	170.0	1948	170.0	1210	170.0	2338	170.0	1275	170.0	2727	170.0	1288	170.0	3117	170.0	1286
72 in	170.0	1913	170.0	1315	170.0	2125	170.0	1387	170.0	2550	170.0	1488	170.0	2975	170.0	1529	170.0	3400	170.0	1530
75 in	170.0	2019	170.0	1421	170.0	2243	170.0	1505	170.0	2692	170.0	1629	170.0	3140	170.0	1694	170.0	3589	170.0	1705
78 in	170.0	2072	170.0	1474	170.0	2302	170.0	1564	170.0	2763	170.0	1700	170.0	3223	170.0	1777	170.0	3683	170.0	1796
90 in	170.0	2391	170.0	1793	170.0	2656	170.0	1916	170.0	3188	170.0	2125	156.0	3413	170.0	2273	138.5	3413	170.0	2391
96 in	170.0	2550	170.0	1952	170.0	2833	170.0	2095	160.0	3399	170.0	2336	137.1	3399	156.1	2428	120.0	3399	136.1	2428
108 in	164.8	2781	170.0	2271	148.3	2781	161.9	2333	123.6	2781	140.4	2281	105.9	2781	125.9	2234	92.7	2781	116.0	2190
111 in	151.8	2832	162.3	2245	136.6	2832	148.4	2216	113.8	2832	125.4	2185	97.6	2832	115.1	2125	85.4	2832	108.3	2096
120 in	120.1	2252	127.2	1938	108.1	2252	116.1	1915	90.1	2252	99.8	1872	77.2	2252	88.9	1836	67.5	2252	81.4	1806
144 in	69.5	1584	72.3	1373	62.6	1584	65.7	1358	52.1	1584	56.0	1330	44.7	1584	49.2	1305	39.1	1584	44.4	1283

TABLE 13B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	2.7k Concrete				3.5k Conc.	Hollow CMU					Filled CMU	PT Wood		Metal
Substrate:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
Anchor Type:															
Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1&2):	390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	664 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 4.66" Min. O.C. / Standard (or Offset) Clip (Fig. 3):	780 lbs	780 lbs	900 lbs	1780 lbs	3232 lbs	540 lbs	560 lbs	708 lbs	1480 lbs	748 lbs	1272 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
6 Anchors @ 1.71" Min. O.C. / Standard (or Offset) Clip (Fig. 4):	1180 lbs	1400 lbs	1010 lbs	2595 lbs	N/A	N/A	840 lbs	N/A	1085 lbs	N/A	N/A	N/A	1363 lbs	1770 lbs	2240 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 5):	780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
8 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 6):	1560 lbs	1560 lbs	1360 lbs	3120 lbs	3792 lbs	1080 lbs	1120 lbs	N/A	1520 lbs	1496 lbs	1760 lbs	3784 lbs	1363 lbs	1770 lbs	2240 lbs
12 Anchors @ 1.5" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 7):	1860 lbs	2100 lbs	1440 lbs	3780 lbs	N/A	N/A	1320 lbs	N/A	1500 lbs	N/A	N/A	N/A	2045 lbs	2654 lbs	3360 lbs
4 Anchors @ 1.34" Min. O.C. / U-Clip, into .125" Alum. (Fig. 8):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1430 lbs
8 Anchors @ 0.64" Min. O.C. / U-Clip, into .125" Alum. (Fig. 9):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2861 lbs
2 Anchors @ 4.66" Min. O.C./ F-Clip (Fig. 10):	390 lbs	390 lbs	450 lbs	890 lbs	1616 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	636 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.71" Min. O.C./ F-Clip (Fig. 11):	560 lbs	700 lbs	505 lbs	1298 lbs	N/A	N/A	470 lbs	N/A	533 lbs	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1: FIGURE 2: FIGURE 3: FIGURE 4: FIGURE 8: FIGURE 9: FIGURE 10: FIGURE 11:

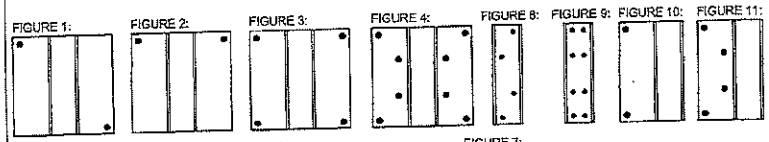
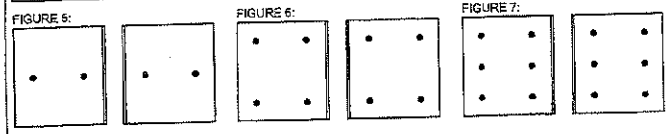


FIGURE 5: FIGURE 6: FIGURE 7:



ANGLE CLIP (FIGURES 5 - 7) MUST BE USED IN PAIRS.

TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 25 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

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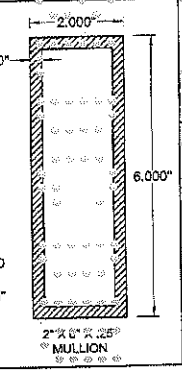
ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req.}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{req.}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 2 X 6 X .25 MULL SPECS
Sheet: 17 of 25
Drawing No.: 6300JR
Rev: C
Scale: N/A
Checked By:
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Rev. By: J ROSOWSKI
Date: 06/19/17
Revision: NO CHANGES THIS SHEET.

PRODUCT REVISED
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Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

TABLE 14A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) or **Opening Height** (for horizontally-spanning mullions)

1.26" x 2.11" x .125" Alum Tube Mull	50 in				60 in				70 in				80 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	144.2	526	167.0	428	120.2	526	148.9	419	103.0	526	138.9	414	90.1	526	134.6	411
48 in	96.6	403	108.0	333	80.5	403	94.7	325	69.0	403	85.4	320	60.4	403	81.4	317
50.625 in	92.3	382	91.0	301	68.6	382	79.3	294	58.8	382	71.9	289	51.5	382	67.2	286
54 in	67.8	318	74.1	267	56.5	318	64.2	261	48.5	318	57.7	256	42.4	318	53.5	253
60 in	49.5	258	53.1	219	41.2	258	45.7	214	35.2	258	40.7	210	30.9	258	37.2	207
63 in	42.7	234	45.6	200	35.6	234	39.1	195	30.5	234	34.7	192	26.7	234	31.5	189
66 in	37.2	213	39.4	183	31.0	213	33.7	179	26.5	213	29.8	176	23.2	213	27.9	173
72 in	28.6	179	30.1	155	23.9	179	25.9	152	20.4	179	22.5	149	17.9	179	20.3	147
76 in	24.3	161	25.4	140	20.2	161	21.8	137	17.4	161	19.0	135	15.2	161	17.0	133
78 in	22.5	152	23.5	139	18.5	152	19.9	131	16.1	152	17.5	128				

1.26" x 2.11" x .125" Alum Tube Mull	90 in				100 in				120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	80.1	526	134.1	411	72.1	526	134.1	411	60.1	526	134.1	411	51.5	526	134.1	411	45.1	526	134.1	411
48 in	53.7	403	79.1	316	48.3	403	78.6	314	40.3	403	78.6	314	34.5	403	78.6	314	30.2	403	78.6	314
50.625 in	45.7	382	64.6	284	41.2	382	63.6	283	34.3	382	63.5	283	29.4	382	63.5	283	25.7	382	63.5	283
54 in	37.7	318	50.8	250	33.9	318	49.5	249	28.3	318	49.1	248	24.2	318	49.1	248	21.2	318	49.1	248
60 in	27.5	258	34.9	204	24.7	258	33.4	203	20.6	258	32.2	201	17.7	258	32.2	201	15.5	258	32.2	201
63 in	23.7	234	29.4	186	21.4	234	28.0	184	17.8	234	26.5	183	15.3	234	26.5	183	13.4	234	26.5	183
66 in	20.6	213	25.1	170	18.6	213	23.7	169	15.5	213	22.2	167	13.3	213	22.0	166	11.6	213	22.0	166
72 in	15.9	179	18.7	145																
76 in																				
78 in																				

TABLE 14B

Anchor Capacity Table (lbs)

Anchor Cap Patterns	Substrate	2.7k Concrete				3.5k Conc.	Hollow CMU					Filled CMU	PT Wood		Metal
	Anchor Type	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 1).		780 lbs	760 lbs	680 lbs	1560 lbs	1995 lbs	540 lbs	360 lbs	N/A	760 lbs	748 lbs	960 lbs	1892 lbs	682 lbs	585 lbs	1430 lbs

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ.}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1:

ANGLE CLIP MUST BE USED IN PAIRS.

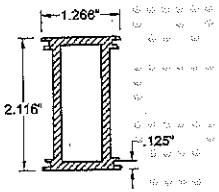
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 25 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 21-23. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 21-23. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



1.26" X 2.11" X .125" MULLION (INTEGRAL FIN MULLION)

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N. VENICE, FL 34275
(941) 480-1600
FL CERT. OF AUTH.# 29286

Title:	IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description:	1.26 X 2.11 X .125 MULL SPECS
Drawing No.	6300JR
Sheet:	18 of 25
Rev:	C
Scale:	N/A
Date:	08/29/11
Checked By:	
Date:	
Status:	N/A
Drawn By:	J ROSOWSKI
Date:	06/19/17
Revisions:	NO CHANGES THIS SHEET.
Rev. By:	J ROSOWSKI

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

TABLE 15A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

3.25" 30 DEG. AL BAY MULL

Mull Length	50 in Rectangular Loading Mullion Capacity (lbs/ft2)	50 in Rectangular Loading Anchor Capacity Required (lbs)	50 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	50 in Trap/Triang. Loading Anchor Capacity Required (lbs)	60 in Rectangular Loading Mullion Capacity (lbs/ft2)	60 in Rectangular Loading Anchor Capacity Required (lbs)	60 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	60 in Trap/Triang. Loading Anchor Capacity Required (lbs)	70 in Rectangular Loading Mullion Capacity (lbs/ft2)	70 in Rectangular Loading Anchor Capacity Required (lbs)	70 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	70 in Trap/Triang. Loading Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	668	170.0	506
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	167.0	1218	170.0	878
63 in	170.0	930	170.0	745	170.0	1116	170.0	850	150.2	1150	168.8	933
68 in	170.0	974	170.0	789	152.4	1048	165.8	881	130.6	1048	146.8	864
72 in	140.8	880	147.9	764	117.4	880	126.0	748	100.5	880	110.8	734
76 in	119.7	790	125.1	690	99.8	790	106.4	676	85.5	790	93.3	663
78 in	110.8	750	115.5	657	92.3	750	98.1	644	79.1	750	85.9	632
90 in	72.1	563	74.4	500	60.1	563	62.9	491	51.5	563	64.8	483
96 in	59.4	495	61.1	443	49.5	495	51.5	435	42.4	495	44.8	427
108 in	41.7	391	42.6	353	34.8	391	35.9	348	29.8	391	31.1	342
111 in	36.4	370	38.2	335	32.0	370	33.0	330	27.5	370	28.6	325
120 in	30.4	317	30.9	289	25.3	317	26.0	284	21.7	317	22.5	280
144 in	17.6	220	17.8	203								

Mull Length	80 in Rectangular Loading Mullion Capacity (lbs/ft2)	80 in Rectangular Loading Anchor Capacity Required (lbs)	80 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	80 in Trap/Triang. Loading Anchor Capacity Required (lbs)	90 in Rectangular Loading Mullion Capacity (lbs/ft2)	90 in Rectangular Loading Anchor Capacity Required (lbs)	90 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	90 in Trap/Triang. Loading Anchor Capacity Required (lbs)	100 in Rectangular Loading Mullion Capacity (lbs/ft2)	100 in Rectangular Loading Anchor Capacity Required (lbs)	100 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	100 in Trap/Triang. Loading Anchor Capacity Required (lbs)
42 in	170.0	982	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521
48 in	170.0	1135	170.0	681	170.0	1275	170.0	677	170.0	1417	170.0	680
50.625 in	170.0	1195	170.0	723	170.0	1345	170.0	747	164.2	1443	170.0	756
54 in	170.0	1275	170.0	803	160.4	1353	170.0	837	144.3	1353	170.0	856
60 in	146.1	1218	170.0	944	129.9	1218	159.8	936	116.8	1218	152.1	924
63 in	131.4	1150	153.0	914	116.8	1150	141.9	898	105.1	1150	134.2	886
68 in	114.3	1048	133.1	850	101.6	1048	123.4	839	91.4	1048	116.6	830
72 in	88.0	880	100.0	722	78.2	880	92.0	712	70.4	880	86.2	703
76 in	74.8	790	83.9	652	66.5	790	76.9	643	59.8	790	71.7	635
78 in	69.2	750	77.1	621	61.5	750	70.6	612	55.4	750	65.7	605
90 in	45.1	563	48.9	475	40.1	563	44.4	468	36.1	563	40.9	462
96 in	37.1	495	39.9	421	33.0	495	36.1	415	29.7	495	33.2	409
108 in	26.1	391	27.6	337	23.2	391	24.9	333	20.9	391	22.8	328
111 in	24.0	370	25.3	320	21.4	370	22.8	316	19.2	370	20.9	312
120 in	19.0	317	19.9	276	16.9	317	17.9	273				
144 in												

Mull Length	120 in Rectangular Loading Mullion Capacity (lbs/ft2)	120 in Rectangular Loading Anchor Capacity Required (lbs)	120 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	120 in Trap/Triang. Loading Anchor Capacity Required (lbs)	140 in Rectangular Loading Mullion Capacity (lbs/ft2)	140 in Rectangular Loading Anchor Capacity Required (lbs)	140 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	140 in Trap/Triang. Loading Anchor Capacity Required (lbs)	160 in Rectangular Loading Mullion Capacity (lbs/ft2)	160 in Rectangular Loading Anchor Capacity Required (lbs)	160 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	160 in Trap/Triang. Loading Anchor Capacity Required (lbs)
42 in	170.0	1488	170.0	521	170.0	1735	170.0	521	149.1	1740	170.0	521
48 in	152.2	1522	170.0	680	130.5	1522	170.0	580	114.2	1522	170.0	680
50.625 in	136.9	1443	170.0	756	117.3	1443	170.0	756	102.6	1443	170.0	756
54 in	120.3	1353	170.0	861	103.1	1353	170.0	861	90.2	1353	170.0	861
60 in	97.4	1218	146.1	913	85.5	1218	146.1	913	73.1	1218	146.1	913
63 in	87.6	1150	126.7	871	75.1	1150	126.2	870	65.7	1150	128.2	870
68 in	76.2	1048	109.4	821	65.3	1048	108.2	818	57.1	1048	108.2	818
72 in	58.7	880	79.2	693	50.3	880	76.5	688	44.0	880	76.4	688
76 in	49.9	790	65.1	624	42.8	790	62.1	619	37.4	790	61.5	617
78 in	46.2	750	59.4	594	39.6	750	56.2	588	34.6	750	55.5	586
90 in	30.0	563	36.2	452	25.8	563	33.3	445	22.5	563	31.8	442
96 in	24.8	495	29.1	400	21.2	495	26.6	394	18.6	495	25.0	390
108 in	17.4	391	19.7	321	14.9	391	17.8	315				
111 in	16.0	370	18.1	305								
120 in												
144 in												

TABLE 15B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 5" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 1):	390 lbs	380 lbs	450 lbs	890 lbs	1700 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	720 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 3.5" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 2):	780 lbs	780 lbs	790 lbs	1670 lbs	2525 lbs	540 lbs	560 lbs	N/A	1120 lbs	748 lbs	880 lbs	1892 lbs	692 lbs	885 lbs	1120 lbs
6 Anchors @ 2.71" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):	1120 lbs	1120 lbs	956 lbs	2246 lbs	2254 lbs	N/A	840 lbs	N/A	1059 lbs	N/A	1320 lbs	N/A	1022 lbs	1327 lbs	1680 lbs

FIGURE 1:

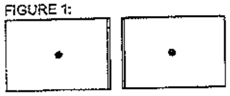


FIGURE 2:

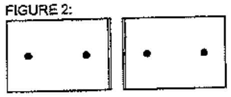
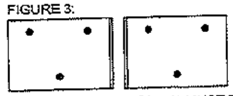


FIGURE 3:



ANGLE CLIP (FIGURES 1-3) MUST BE USED IN PAIRS.

TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 25 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

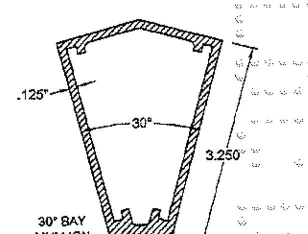
3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 21-23. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 21-23. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T6 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

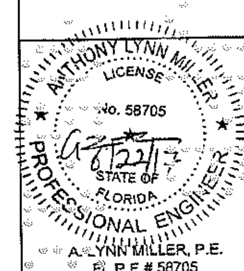
$(DP_{min}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



30° BAY MULLION

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control



A. LYNN MILLER, P.E.
FL P.E.# 58705

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FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 30 DEGREE BAY MULL SPECS
Series: N/A | Scale: N/A | Drawing No. 6300JR | Sheet: 19 of 25
Drawn By: J ROSOWSKI | Date: 08/29/11 | Checked By: | Date: | Rev: C
Rev. By: J ROSOWSKI | Date: 06/19/17 | Revision: NO CHANGES THIS SHEET.

TABLE 16A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

3.25" 45 DEG. AL BAY MULL — Mull Length

Mull Length	50 in Rectangular Loading Mullion Capacity (lbs/ft2)	50 in Rectangular Loading Anchor Capacity Required (lbs)	50 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	50 in Trap/Triang. Loading Anchor Capacity Required (lbs)	60 in Rectangular Loading Mullion Capacity (lbs/ft2)	60 in Rectangular Loading Anchor Capacity Required (lbs)	60 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	60 in Trap/Triang. Loading Anchor Capacity Required (lbs)	70 in Rectangular Loading Mullion Capacity (lbs/ft2)	70 in Rectangular Loading Anchor Capacity Required (lbs)	70 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	70 in Trap/Triang. Loading Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630
50.625 in	170.0	747	170.0	563	170.0	898	170.0	631	170.0	1046	170.0	684
54 in	170.0	787	170.0	612	170.0	956	170.0	691	170.0	1118	170.0	754
60 in	170.0	885	170.0	701	170.0	1053	170.0	797	170.0	1240	170.0	878
63 in	170.0	930	170.0	745	170.0	1116	170.0	850	162.9	1247	170.0	940
66 in	170.0	974	170.0	789	170.0	1189	170.0	903	148.4	1190	163.7	965
72 in	161.6	1010	169.8	877	134.7	1010	144.6	859	115.4	1010	127.2	842
76 in	137.4	908	143.6	782	114.5	906	122.0	775	98.1	906	107.1	761
78 in	127.1	861	132.5	754	105.9	861	112.5	738	90.8	861	88.8	725
90 in	82.7	646	85.4	574	68.9	646	72.1	564	59.1	646	62.9	554
96 in	68.2	588	70.1	508	56.8	568	59.1	498	48.7	568	51.4	491
108 in	47.9	449	48.6	405	39.9	449	41.2	399	34.2	449	35.7	393
111 in	44.1	425	45.0	385	36.8	425	37.9	379	31.5	425	32.8	373
120 in	34.9	384	35.5	331	29.1	364	29.6	326	24.9	364	25.8	321
144 in	20.2	253	20.4	233	16.8	253	17.1	230				

Mull Length	80 in Rectangular Loading Mullion Capacity (lbs/ft2)	80 in Rectangular Loading Anchor Capacity Required (lbs)	80 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	80 in Trap/Triang. Loading Anchor Capacity Required (lbs)	90 in Rectangular Loading Mullion Capacity (lbs/ft2)	90 in Rectangular Loading Anchor Capacity Required (lbs)	90 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	90 in Trap/Triang. Loading Anchor Capacity Required (lbs)	100 in Rectangular Loading Mullion Capacity (lbs/ft2)	100 in Rectangular Loading Anchor Capacity Required (lbs)	100 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	100 in Trap/Triang. Loading Anchor Capacity Required (lbs)
42 in	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521
48 in	170.0	1133	170.0	661	170.0	1275	170.0	677	170.0	1417	170.0	680
50.625 in	170.0	1195	170.0	723	170.0	1345	170.0	747	170.0	1494	170.0	756
54 in	170.0	1275	170.0	803	170.0	1434	170.0	837	155.2	1455	170.0	856
60 in	157.1	1309	170.0	944	139.7	1309	170.0	986	125.7	1309	163.5	994
63 in	142.5	1247	164.5	983	126.7	1247	152.8	965	114.0	1247	144.3	952
66 in	129.9	1190	147.9	945	115.4	1190	136.5	928	103.9	1190	128.4	914
72 in	101.0	1010	114.7	828	89.8	1010	105.6	817	80.8	1010	96.8	807
76 in	85.9	906	96.2	749	76.3	906	88.2	738	68.7	906	82.3	729
78 in	79.4	861	88.5	713	70.8	861	81.0	703	63.6	861	75.4	694
90 in	51.7	646	56.1	545	46.0	646	50.9	537	41.4	646	47.0	530
96 in	42.6	568	45.8	483	37.9	568	41.4	476	34.1	568	38.1	470
108 in	28.9	449	31.7	387	25.6	449	28.6	382	23.9	449	26.1	377
111 in	27.6	425	29.1	387	24.5	425	26.2	382	22.1	425	24.0	358
120 in	21.8	364	22.8	317	19.4	364	20.5	313	17.5	364	18.7	309
144 in												

Mull Length	120 in Rectangular Loading Mullion Capacity (lbs/ft2)	120 in Rectangular Loading Anchor Capacity Required (lbs)	120 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	120 in Trap/Triang. Loading Anchor Capacity Required (lbs)	140 in Rectangular Loading Mullion Capacity (lbs/ft2)	140 in Rectangular Loading Anchor Capacity Required (lbs)	140 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	140 in Trap/Triang. Loading Anchor Capacity Required (lbs)	160 in Rectangular Loading Mullion Capacity (lbs/ft2)	160 in Rectangular Loading Anchor Capacity Required (lbs)	160 in Trap/Triang. Loading Mullion Capacity (lbs/ft2)	160 in Trap/Triang. Loading Anchor Capacity Required (lbs)
42 in	170.0	1488	170.0	521	170.0	1735	170.0	521	160.3	1371	170.0	521
48 in	163.7	1637	170.0	680	140.3	1637	170.0	680	122.8	1637	170.0	680
50.625 in	147.1	1552	170.0	756	126.1	1552	170.0	756	110.4	1552	170.0	756
54 in	129.3	1455	170.0	861	110.8	1455	170.0	861	97.0	1455	170.0	861
60 in	104.8	1309	157.1	982	89.8	1309	157.1	982	78.8	1309	157.1	982
63 in	95.0	1247	138.2	935	81.4	1247	135.7	935	71.3	1247	135.7	935
66 in	86.8	1190	119.5	895	74.2	1190	118.1	893	64.9	1190	118.1	893
72 in	67.3	1010	90.8	795	57.7	1010	87.8	790	50.5	1010	87.7	789
76 in	57.3	906	74.7	716	49.1	906	71.2	710	42.9	906	70.6	708
78 in	53.0	861	68.1	681	45.4	861	64.5	675	39.7	861	63.7	672
90 in	34.5	646	41.5	519	29.5	646	38.2	511	25.9	646	36.5	507
96 in	28.4	566	32.4	459	24.3	568	30.5	452	21.3	588	28.7	447
108 in	20.0	449	22.7	388	17.1	449	20.4	381	15.0	449	18.8	356
111 in	18.4	425	20.7	350	15.8	425	18.6	343				
120 in												
144 in												

TABLE 16B

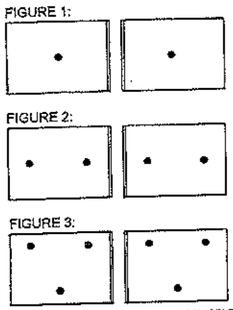
Anchor Capacity Table (lbs)

Anchor Clip Patterns	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 5" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 1):	390 lbs	390 lbs	450 lbs	890 lbs	1700 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	720 lbs	948 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 3.5" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 2):	780 lbs	780 lbs	750 lbs	1670 lbs	2525 lbs	540 lbs	560 lbs	N/A	1120 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
3 Anchors @ 2.71" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):	1120 lbs	1120 lbs	958 lbs	2246 lbs	2254 lbs	N/A	840 lbs	N/A	1059 lbs	N/A	1320 lbs	N/A	1022 lbs	1327 lbs	1680 lbs

FIGURE 1:

FIGURE 2:

FIGURE 3:



ANGLE CLIP (FIGURES 1-3) MUST BE USED IN PAIRS.

TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 25 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

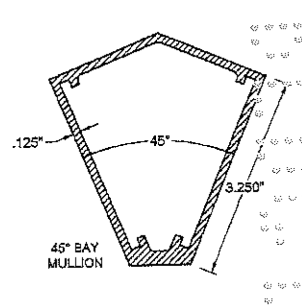
3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 21-23. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 21-23. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{HLA}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ.}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

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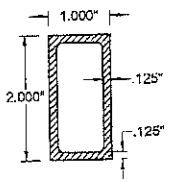
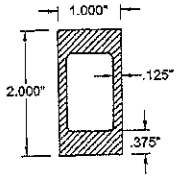
Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 45 DEGREE BAY MULL SPECS
Series: N/A | Scale: N/A | Drawing No. 6300JR | Sheet: 20 of 25
Drawn By: J ROSOWSKI | Date: 08/29/11 | Checked By: | Date: | Rev: C
Rev. By: J ROSOWSKI | Date: 06/19/17 | Revision: NO CHANGES THIS SHEET.

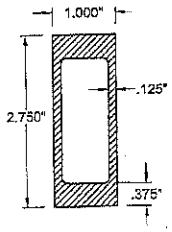
PGT
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
FL CERT. OF AUTH.# 29296



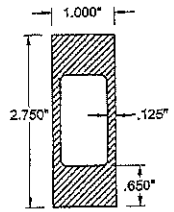
1" X 2" X .125" MULLION
6063-T6 ALUM.
X-SECTION



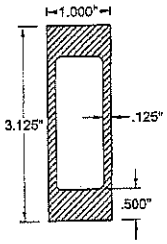
1" X 2" X .375" MULLION
6063-T6 ALUM.
X-SECTION



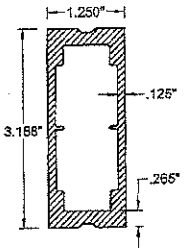
1" X 2.75" X .375" MULLION
6063-T6 ALUM.
X-SECTION



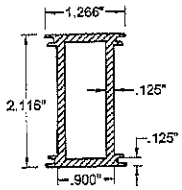
1" X 2.75" X .650" MULLION
6063-T6 ALUM.
X-SECTION



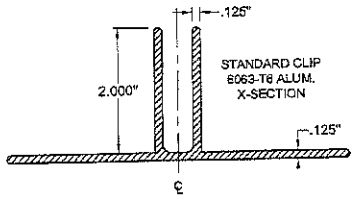
1" X 3.125" X .5" MULLION
6063-T6 ALUM.
X-SECTION



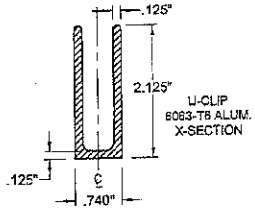
1.25" X 3.188" X .265" MULLION
6063-T6 ALUM.
X-SECTION



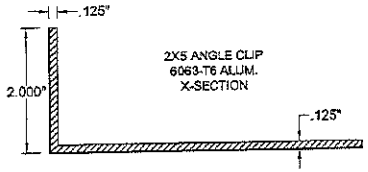
1.26" X 2.11" X .125" MULLION
6063-T6 ALUM.
X-SECTION



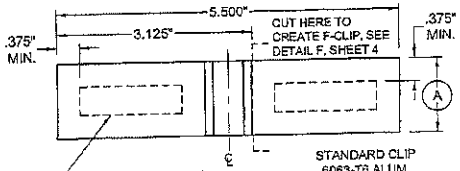
STANDARD CLIP
6063-T6 ALUM.
X-SECTION



U-CLIP
6063-T6 ALUM.
X-SECTION

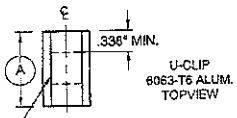


2X5 ANGLE CLIP
6063-T6 ALUM.
X-SECTION



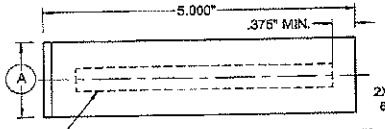
STANDARD CLIP
6063-T6 ALUM.
TOPVIEW

CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 5-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/18".



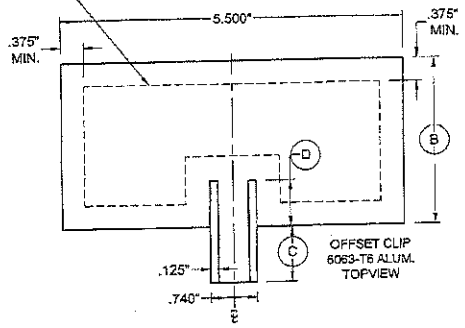
U-CLIP
6063-T6 ALUM.
TOPVIEW

CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 5-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".



2X5 ANGLE CLIP
6063-T6 ALUM.
TOPVIEW

CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 5-18 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".



OFFSET CLIP
6063-T6 ALUM.
TOPVIEW

TABLE A

Dimension	Value (in)	For Mullion:
A	1.625	1" X2" X .125" Aluminum Tube Mullion
B	2.654	
C	0.895	
D	0.740	
A	1.125	1" X2" X .375" Aluminum Tube Mullion
B	2.404	
C	0.635	
D	0.490	
A	1.875	1" X2.75"" X .375 Aluminum Tube Mullion
B	3.000	
C	0.757	
D	1.118	
A	1.312	1" X2.75" X .650" Aluminum Tube Mullion
B	3.000	
C	0.476	
D	0.836	
A	2.000	1" X3.125" X .500" Alum Tube Mull
B	2.637	
C	0.863	
D	1.137	
A	2.625	1.25" X3.188" X .265" Alum Tube Mull
B	3.262	
C	0.862	
D	1.762	
A	1.813	1.26" X2.11" X .121" Alum Tube Mull

TABLE B

Mull Dimension (sheet #)	PGT Part #				
	Mullion	Std. Clip	Offset Clip	U-Clip	Angle Clip
1" X 2" X .125" (5)	666005	6661113M	6661118M	666243M	666511M
1" X 2" X .375" (6)	666006	6661114M	6661119M	666244M	666512M
1" X 2.75" X .375" (7)	666007	6661115M	6661120M	666245M	666513M
1" X 2.75" X .650" (8)	666008	6661116M	6661121M	666246M	666514M
1" X 3.125" X .500" (9)	666037M	6661116M	6661114M	666242M	666515M
1.25" X 3.188" X .265" (12)	666041M	6661117M	6661113M	666241M	666516M
1.26" X 2.11" X .125" (18)	69370	N/A	N/A	N/A	666517M

NOTES:

1) HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS GIVEN ON THIS SHEET.

2) SEE SHEETS 5-9, 12 & 18 FOR SUGGESTED, APPROXIMATE HOLE LOCATIONS & ANCHOR O.C. DISTANCE.

3) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

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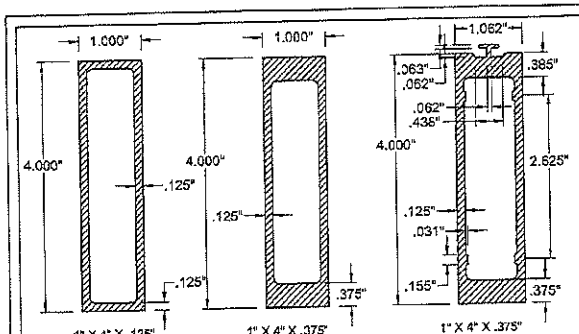
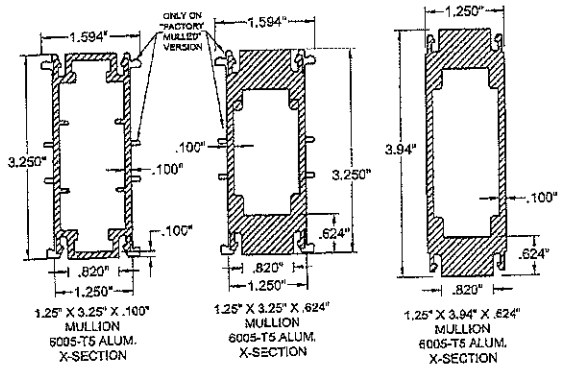
PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
FL CERT. OF AUTH.# 29286

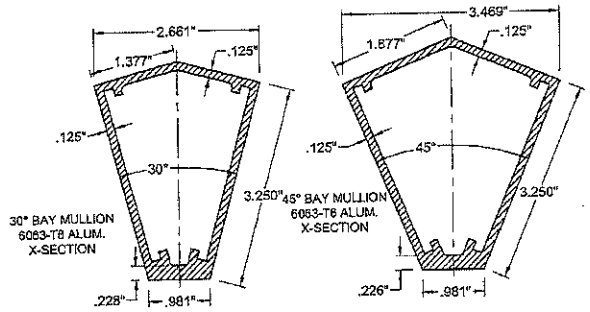
Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: MULLION AND CLIP DIMENSIONS A
Series: N/A
Scale: N/A
Drawing No.: 6300JR
Date: 08/29/11
Drawn By: J ROSOWSKI
Checked By:
Sheet: 21 of 25
Rev: C
Date: 06/19/17
Rev. By: J ROSOWSKI
Rev. Date:
NO CHANGES THIS SHEET.

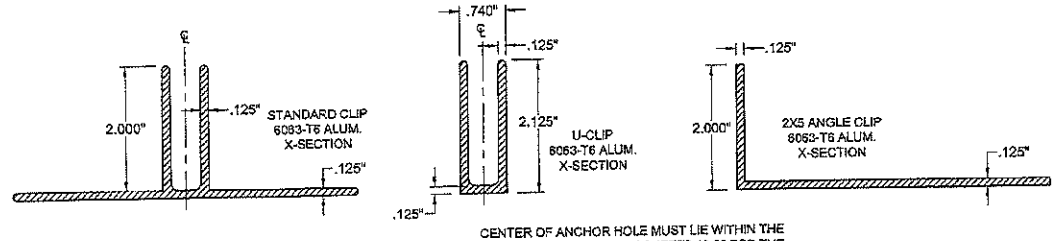
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

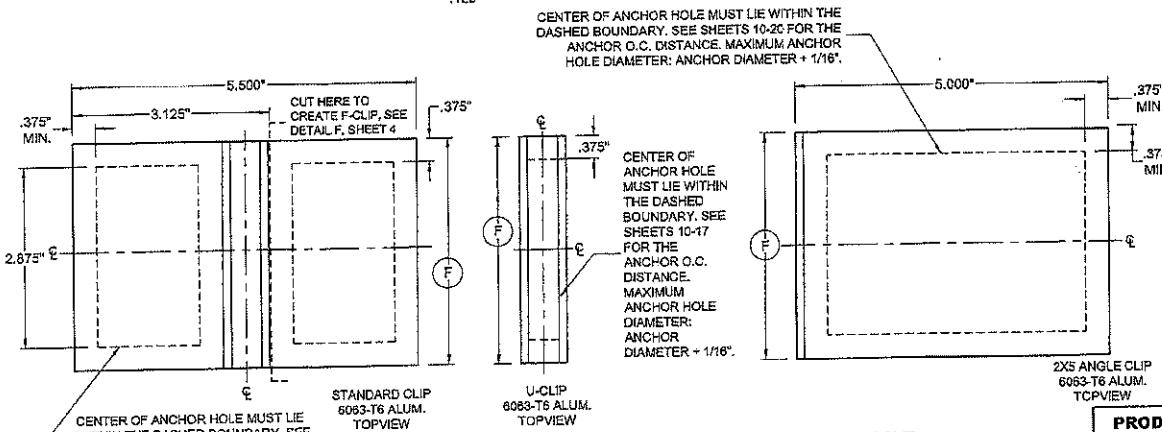
ANTHONY LYNN MILLER
LICENSE
No. 58705
6/22/17
STATE OF FLORIDA
PROFESSIONAL ENGINEER
ANTHONY MILLER, P.E.
FL P.E.# 58705

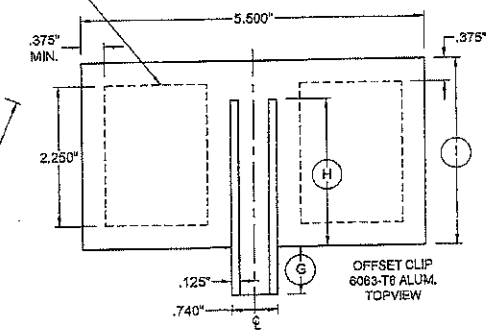












NOTES:

1) HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS GIVEN ON THIS SHEET.

2) SEE SHEETS 10, 11, 13-15, 19 & 20 FOR SUGGESTED, APPROXIMATE HOLE LOCATIONS.

3) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

TABLE C

Dimension	Value (in)	For Mullion:
F	3.687	1" X 4" X
G	1.000	.125"
H	2.680	Aluminum
I	3.000	Tube Mullion
F	3.187	1" X 4" X
G	0.757	.375"
H	2.430	Aluminum
I	3.000	Tube & "T"
F	2.250	1.25" X 3.25"
G	0.750	X .100"
H	1.500	Aluminum
I	3.250	Tube Mullion

TABLE C, CONT.

Dimension	Value (in)	For Mullion:
F	1.938	1.25" X 3.25"
G	0.500	X .624"
H	1.438	Aluminum
I	3.250	Tube Mullion
F	2.625	1.25" X 3.94"
G	1.125	X .624"
H	1.500	Aluminum
I	3.250	Tube Mullion
F	2.813	30° Bay Mull
F	2.875	45° Bay Mull

TABLE D

Mull Dimension (sheet #)	PGT Part #				
	Mullion	Std. Clip	Offset Clip	U-Clip	Angle Clip
1" X 4" X .125" (10)	69364	666111M	6661122M	666241M	666518M
1" X 4" X .375" (11)	66610	666112M	6661123M	666242M	666519M
1" X 4" X .375" "T" (11)	69653	666112M	6661123M	666242M	666519M
1.25" X 3.25" X .100" (13)	20160/20312	6661127M	6661124M	666241M	666511M
1.25" X 3.25" X .624" (14)	20161/20315	6661129M	6661125M	666241M	666515M
1.25" X 3.94" X .624" (15)	20162	6661117M	6661126M	666241M	666517M
30 Degree (19)	66649	N/A	N/A	N/A	6665116M
45 Degree (20)	66650	N/A	N/A	N/A	6665111M

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NOA-No. 17-0630.01
Expiration Date 05/26/2021
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

PGT
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
FL CERT. OF AUTH.# 28288

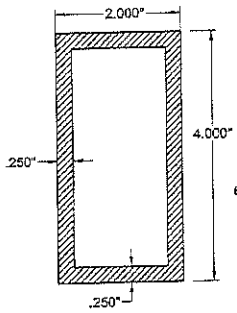
Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: MULLION AND CLIP DIMENSIONS B
Drawing No.: 6300JR
Sheet: 22 of 25
Rev.: C
Scale: N/A
Date: 08/29/11
Checked By:
Date:
Revision: NO CHANGES THIS SHEET.
Series: N/A
Drawn By: J ROSOWSKI
Rev. By: J ROSOWSKI
Date: 06/19/17

TABLE E

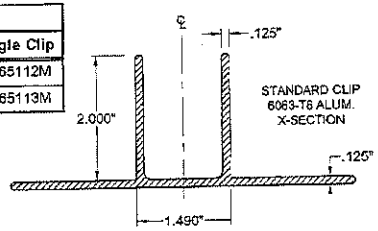
Mull Dimension (sheet #)	PGT Part #			
	Mullion	Std. Clip	U-Clip	Angle Clip
2" X 4" X .25" (16)	66602	666261M	666271M	6665112M
2" X 6" X .25" (17)	66604	666262M	666272M	6665113M

NOTES:

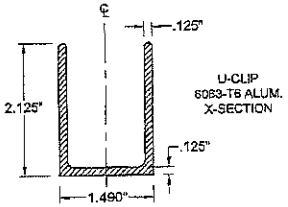
1) HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS GIVEN ON THIS SHEET.
2) SEE SHEETS 16-17 FOR SUGGESTED, APPROXIMATE HOLE LOCATIONS.
3) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.



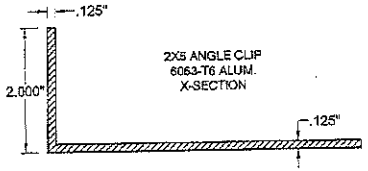
2" X 4" X .25" MULLION 6063-T6 ALUM. X-SECTION



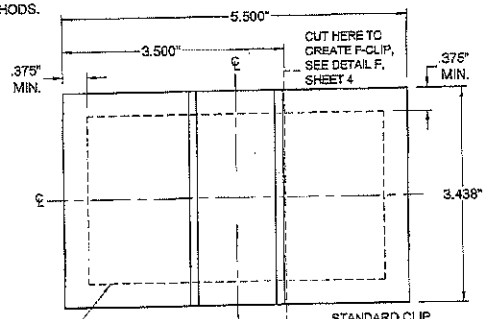
STANDARD CLIP 6063-T6 ALUM. X-SECTION



U-CLIP 6063-T6 ALUM. X-SECTION

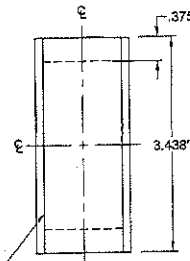


2X5 ANGLE CLIP 6063-T6 ALUM. X-SECTION



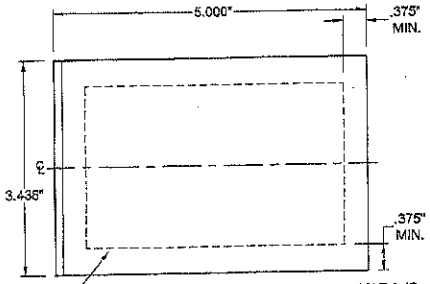
STANDARD CLIP 6063-T6 ALUM. TOPVIEW

CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 16-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".



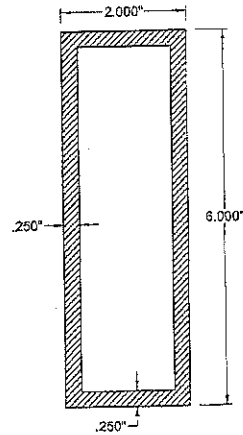
U-CLIP, 6063-T6 ALUM. USED FOR 2" X 4" MULLION, SHEET 16 TOPVIEW

CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 16-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".

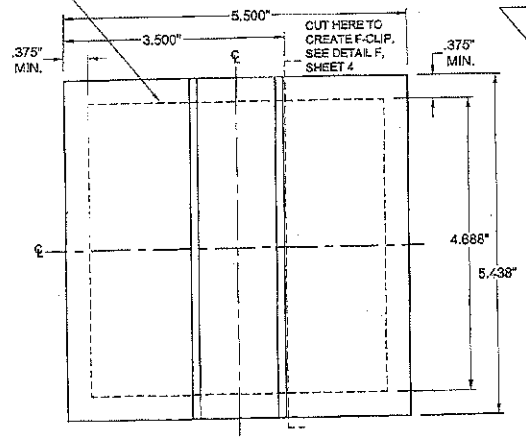


2X5 ANGLE CLIP 6063-T6 ALUM. TOPVIEW

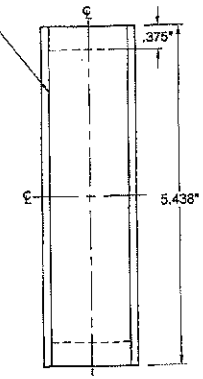
CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 16-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".



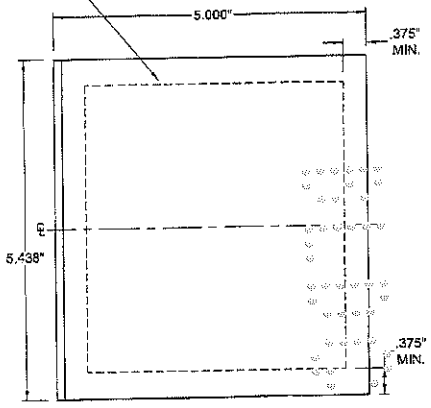
2" X 6" X .25" MULLION 6063-T6 ALUM. X-SECTION



STANDARD CLIP 6063-T6 ALUM. TOP VIEW



U-CLIP 6063-T6 ALUM. USED FOR 2" X 6" MULLION, SHEET 17 TOPVIEW



2X5 ANGLE CLIP 6063-T6 ALUM. TOPVIEW

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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: MULLION AND CLIP DIMENSIONS C
Drawing No.: 6300JR
Sheet: 23 of 25
Rev: C
Scale: N/A
Date: 08/29/11
Checked By:
Date:
Series: N/A
Drawn By: J ROSOWSKI
Rev. By: J ROSOWSKI
Date: 06/19/17
Rev. Color: NO CHANGES THIS SHEET.

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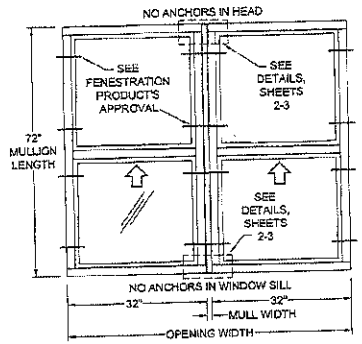
EXAMPLE 1: SINGLE VERTICAL MULLION



THE BUILDING SUBSTRATE IS KNOWN TO BE WOOD ON ALL FOUR SIDES. THE WINDOW FRAME DEPTH IS 2-1/4". THE OPENING REQUIRES A DESIGN PRESSURE OF +60.0/-60.0 PSF.

1) INITIALLY ASSUMING THAT A 1" WIDE MULLION IS SUITABLE,THE MULLION LENGTH IS 72" AND THE OPENING WIDTH IS 32"+32+1" =65". REFERENCING SHEET 25. THE COLUMN USING RECTANGULAR LOADING MUST BE USED. SCAN THE MULLION TABLES FOR A MULLION THAT IS AT LEAST THE WINDOW FRAME DEPTH OF 2-1/4" AND WILL MEET OR EXCEED THE REQUIRED DESIGN PRESSURE OF +60.0/-60.0 PSF. IF THE TABLE DOES NOT SHOW THE EXACT SIZE, USE THE NEXT LARGER SIZE AVAILABLE.

FROM TABLE 3A, SHEET 7, THE 1" X 2.75" X .375" MULLION (LENGTH = 72", OPENING WIDTH = 70") MEETS THE DEPTH REQUIRED, HOWEVER THE DESIGN PRESSURE IS +/-58.3 PSF AND WOULD NOT BE SUITABLE FOR THIS APPLICATION.

FROM TABLE 4A, SHEET 8, THE 1" X 2.75" X .650" MULLION (LENGTH = 72", OPENING WIDTH = 70") HAS A DESIGN PRESSURE OF +/-72.7 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 636 LBS.

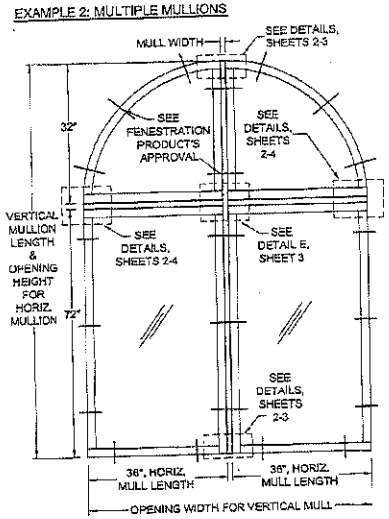
2) USE TABLE 4B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE WOOD SUBSTRATE. BOTH THE STANDARD CLIP WITH (4) #12 ANCHORS AND THE 2X5 ANGLE CLIPS WITH (4) #12 ANCHORS HAVE A CAPACITY OF 865 LBS. THOUGH EITHER ONE COULD BE USED, THE STANDARD CLIP IS EASIER TO INSTALL.

3) VERIFY THE DESIGN PRESSURE OF THE FENESTRATION PRODUCTS USED WITH THIS MULLION SYSTEM. THE LOWER DESIGN PRESSURE, OF MULLIONS OR FENESTRATION PRODUCTS, WILL APPLY TO THE OVERALL ASSEMBLY. FINAL DESIGN PRESSURE REQUIRES THAT THE BOTH THE MULLION AND THE FENESTRATION PRODUCT BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION SPECIFICATIONS INTO RESPECTIVE SUBSTRATES AND FENESTRATION PRODUCTS TO MULLION.

IN THIS EXAMPLE, THE DESIGN PRESSURE REQUIRED WAS +/-60.0 PSF. THE OVERALL MULLION SYSTEM WAS DETERMINED TO BE 72.7 PSF WITH AN ANCHOR CAPACITY OF 636 LBS. ALTERNATIVELY, THE ANCHOR CAPACITY ADJUSTMENT FORMULA COULD HAVE BEEN USED TO CALCULATE THE ANCHOR CAPACITY REQUIRED FOR THE EXACT DESIGN PRESSURE OF 60 PSF:

$$(60\ \text{PSF}) \times \left(\frac{636\ \text{LBS}}{72.7\ \text{PSF}}\right) = 524.9\ \text{LBS}$$ (MAY BE USED TO QUALIFY # 10 STEEL SCREWS FROM TABLE 4B)

EXAMPLE 2: MULTIPLE MULLIONS



THE BUILDING SUBSTRATE IS KNOWN TO BE CMU ON THE JAMBS AND USES A CONCRETE HEADER AND SILL. THE WINDOW FRAME DEPTH IS 2-3/8". THE OPENING REQUIRES A DESIGN PRESSURE OF +50.0/-55.0 PSF.

FOR THE VERTICAL MULLION:

1) INITIALLY ASSUMING THAT A 1" WIDE MULLION IS SUITABLE, THE MULLION LENGTH IS 32"+72"+1"=105" AND THE OPENING WIDTH IS 36"+36"-1" =73". REFERENCING SHEET 25, THE COLUMN USING RECTANGULAR LOADING SHALL BE USED. SCAN THE MULLION TABLES FOR A MULLION THAT IS AT LEAST THE WINDOW FRAME DEPTH OF 2-3/8" AND WILL MEET OR EXCEED THE REQUIRED DESIGN PRESSURE OF +50.0/-55.0 PSF. IF THE TABLE DOES NOT SHOW THE EXACT SIZE, USE THE NEXT LARGER SIZE AVAILABLE.

FROM TABLE 3A, SHEET 7, THE 1" X 2.75" X .375" MULLION (LENGTH = 108", OPENING WIDTH = 80") MEETS THE DEPTH REQUIRED, HOWEVER THE DESIGN PRESSURE IS +/-15.1 PSF AND WOULD NOT BE SUITABLE FOR THIS APPLICATION.

FROM TABLE 12A, SHEET 16, THE 2" X 4" X .250" MULLION (LENGTH = 108", OPENING WIDTH = 80") HAS A DESIGN PRESSURE OF +/-64.7 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 971 LBS.

BECAUSE IT IS NOW KNOWN THAT THE MULLION WILL ADD 2" TO THE WIDTH OF THE MULLED UNIT, THE ADJUSTED OPENING WIDTH IS 36"+36"+2"=74", NOT 73" AS PREVIOUSLY ASSUMED. VERIFY THAT THE DESIGN PRESSURE IS STILL APPLICABLE FOR THE ADJUSTED OPENING. ALTERNATIVELY, THE WINDOW WIDTHS MAY BE REDUCED TO MAINTAIN THE 73" DIMENSION (35-1/2"+35-1/2"+2"=73").

2) USE TABLE 12B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE CONCRETE SUBSTRATE. IN THIS EXAMPLE, ASSUME THE POURED CONCRETE HEADER AND SILL ARE 8" WIDE. IF THE MULLION CLIP WERE TO BE CENTERED WITHIN THE 8", CARE MUST BE TAKEN TO MAINTAIN THE FASTENER'S EDGE DISTANCE. USING THE STANDARD CLIP WITH (6) 3/16" ULTRACON ANCHORS AT AN EDGE DISTANCE OF 2-1/2" GIVES AN ANCHOR CAPACITY OF 1050 LBS WHICH IS GREATER, AND THEREFORE SUITABLE, FOR THE REQUIRED ANCHOR CAPACITY OF 971 LBS.

FOR THE HORIZONTAL MULLIONS:

BECAUSE THE VERTICAL MULL WILL BE A 2" X 4" X .250" MULLION, IN THIS EXAMPLE WE WILL MATCH THE HORIZONTAL AND VERTICAL MULLIONS. ALTERNATIVELY, ANOTHER MULLION TYPE COULD BE CHOSEN.

1) THE MULLION LENGTH IS 36" AND THE OPENING HEIGHT IS 32"+72"+2" =106". REFERENCING SHEET 25, THE COLUMN USING TRAPEZOIDAL/TRIANGULAR LOADING MAY BE USED. FROM TABLE 12A, SHEET 16, THE 2" X 4" X .250" MULLION (@ LENGTH = 42", OPENING HEIGHT = 120") HAS A DESIGN PRESSURE OF +/-170.0 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 521 LBS.

2) USE TABLE 12B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE CMU SUBSTRATE. IN THIS EXAMPLE, ASSUME THE CMU JAMBS ARE 8" WIDE. IF THE MULLION CLIP WERE TO BE CENTERED WITHIN THE 8", CARE MUST BE TAKEN TO MAINTAIN THE FASTENER'S EDGE DISTANCE. USING THE 2X5 ANGLE CLIPS WITH (4) 3/16" ULTRACON ANCHORS AT AN EDGE DISTANCE OF 1" GIVES AN ANCHOR CAPACITY OF 540 LBS WHICH IS GREATER, AND THEREFORE SUITABLE, FOR THE REQUIRED ANCHOR CAPACITY OF 521 LBS.

4) FOR THE U-CLIP IN THE HORIZONTAL MULLION TO VERTICAL MULLION, USE THE SAME ANCHOR CAPACITY OF 521 LBS. TABLE 12B FOR THE U-CLIP SHOWS THE ANCHOR CAPACITY IS 1074 LBS WHEN USING 3 ANCHORS, WHICH IS GREATER, AND THEREFORE SUITABLE. FOR THE REQUIRED ANCHOR CAPACITY REQUIREMENT OF 521 LBS. THE ANCHOR TYPE IS A #12 STEEL SCREW.

FROM THE ABOVE STEPS, OUR MULLION DESIGN PRESSURE IS:
+/-64.7 PSF FROM THE VERTICAL MULLION;
+/-170.0 PSF FROM THE 36" HORIZONTAL MULLION ATTACHING TO CMU;
+/-170.0 PSF FROM THE 36" HORIZONTAL MULLION ATTACHING TO THE VERTICAL MULLION (INTERSECTION).
THE LOWEST DESIGN PRESSURE IS +/-64.7 PSF AND WOULD APPLY TO ALL OF THE MULLIONS.

VERIFY THE DESIGN PRESSURE OF THE FENESTRATION PRODUCTS USED WITH THIS MULLION SYSTEM. THE LOWER DESIGN PRESSURE, OF MULLIONS OR FENESTRATION PRODUCTS, WILL APPLY TO THE OVERALL ASSEMBLY. FINAL DESIGN PRESSURE REQUIRES THAT THE BOTH THE MULLION AND THE FENESTRATION PRODUCT BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION SPECIFICATIONS INTO RESPECTIVE SUBSTRATES AND FENESTRATION PRODUCTS TO MULLION.

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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS		Sheet: 24 of 25	
Description: EXAMPLES		Rev: C	
Series: N/A	Scale: N/A	Drawing No.: 6300JR	
Drawn By: J ROSOWSKI	Date: 08/29/11	Checked By:	Date:
Rev. By: J ROSOWSKI	Date: 06/19/17	Revision: NO CHANGES THIS SHEET.	

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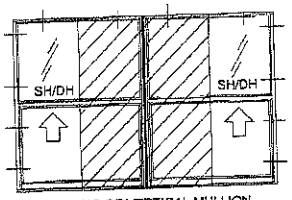
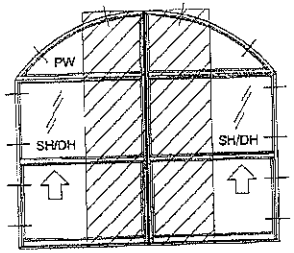
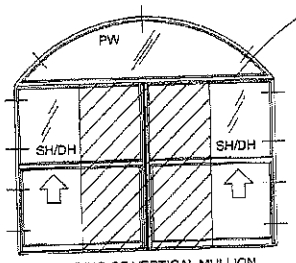
EXAMPLES OF RECTANGULAR LOADING:



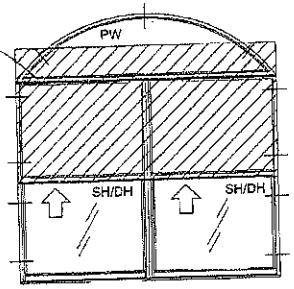
LOADING OF VERTICAL MULLION
SILL OF WINDOWS NOT ANCHORED



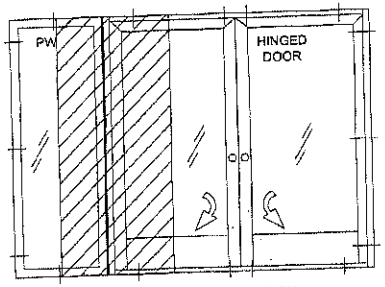
LOADING OF VERTICAL MULLION
WITH INTERSECTING HORIZONTAL MULLIONS



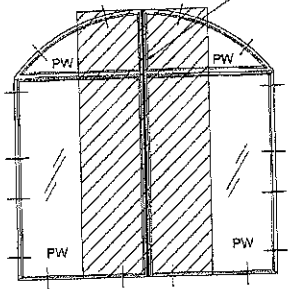
LOADING OF VERTICAL MULLION
SILL OF WINDOWS NOT ANCHORED



LOADING OF HORIZONTAL MULLION
WITH INTERSECTING VERTICAL MULLION

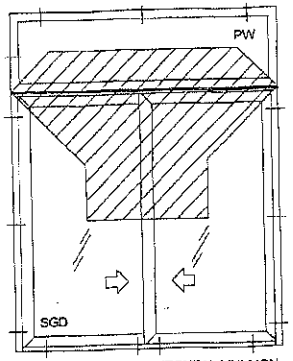


LOADING OF VERTICAL MULLION
PANEL OF HINGED DOOR IS NOT CAPTURED OR ANCHORED

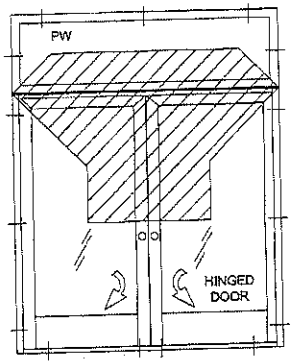


LOADING OF VERTICAL MULLION
WITH INTERSECTING HORIZONTAL MULLIONS

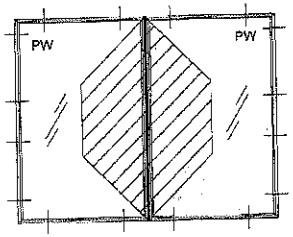
EXAMPLES OF TRAPEZOIDAL/TRIANGULAR LOADING:



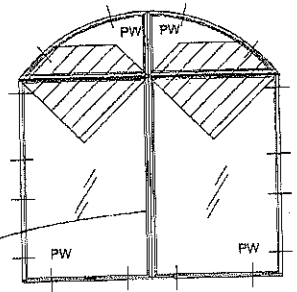
LOADING OF HORIZONTAL MULLION



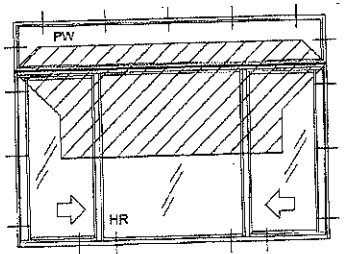
LOADING OF HORIZONTAL MULLION



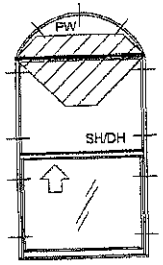
LOADING OF VERTICAL MULLION



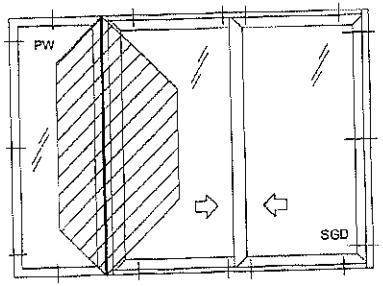
LOADING OF (2) HORIZONTAL MULLIONS



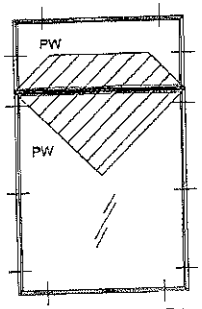
LOADING OF HORIZONTAL MULLION



LOADING OF HORIZONTAL MULLION



LOADING OF VERTICAL MULLION



LOADING OF HORIZONTAL MULLION

NOTES:

1) DRAWINGS ARE REPRESENTATIONS OF TYPICAL CONFIGURATIONS. CONFIGURATIONS NOT SHOWN MAY BE EXTRAPOLATED FROM THOSE SHOWN.

2) IF THE LOADING TYPE CANNOT BE DETERMINED, USE RECTANGULAR LOADING.

3) SEE PRODUCTS' APPROVAL FOR ACTUAL ANCHOR LOCATIONS.

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FL P.E.# 58705

Permit Action Report
VILLAGE OF PALMETTO BAY

Permit #: BLD-2018-2012
Master permit #:
Permit type: bwnd - WINDOWS/DOORS (RESIDEN
Routing queue: b7 - FLAT ROOF /LOW SLOPE
Address: 14225 SW 79 AVE
PALMETTO BAY, FL 33157

Group # - Name	Action Code	Action Description	Completion Date	Completion Code	Completed By	Comments
1 - PERMIT COUNTER	intake	APPLICATION INTAKE	4/5/2018		ldiaz	
1 - PERMIT COUNTER	cuff	COLLECT UPFRONT FEE	4/5/2018		ldiaz	
2 - PLANS PROCESSING	routeplans	ROUTE PLANS FOR REVIEW	4/5/2018		ldiaz	
3 - BUILDING REVIEW	brev	BUILDING REVIEW	4/5/2018	apprve	ogarcia	04.05.18 Building approved Orestes garcia gb
4 - PLANS PROCESSING	compcomn	COMPILE COMMENTS	4/5/2018		gbilbraut	
4 - PLANS PROCESSING	notifycust	NOTIFY CUSTOMER	4/5/2018		gbilbraut	
5 - PERMIT COUNTER	verifycont	VERIFY CONTRACTOR	4/5/2018		gbilbraut	
6 - PLANS PROCESSING	notifycust	NOTIFY CUSTOMER	4/5/2018		gbilbraut	
7 - PERMIT COUNTER	collissue	COLLECT FEES/ISSUE PERMIT	4/5/2018		mrivera	
8 - INSPECTIONS	700	NOC	5/8/2018	denied	mtcausley	Denied by Kassner, not in permit package
8 - INSPECTIONS	700	NOC	12/20/2018	cancel	wmaltby	
8 - INSPECTIONS	700	NOC			mtcausley	
8 - INSPECTIONS	779	WOOD BUCKS	5/8/2018	denied	mtcausley	Denied by Kassner - at doors-work done withouth inspections.
8 - INSPECTIONS	779	WOOD BUCKS	12/20/2018	cancel	wmaltby	CANCEL BY ADA 1:19PM
8 - INSPECTIONS	779	WOOD BUCKS	1/11/2019	apprve	mtcausley	APPROVED G. EARL - BY ENGINEER LETTER
8 - INSPECTIONS	795	DOORS FILL CELLS	5/8/2018	n/a	mtcausley	
8 - INSPECTIONS	723	WINDOW IN-PROGRESS	5/8/2018	denied	mtcausley	Denied by Kassner, no inspections-work completed
8 - INSPECTIONS	723	WINDOW IN-PROGRESS	12/20/2018	cancel	wmaltby	
8 - INSPECTIONS	723	WINDOW IN-PROGRESS	1/11/2019	apprve	mtcausley	APPROVED G. EARL - BY ENGINEER LETTER
8 - INSPECTIONS	780	DOOR IN-PROGRESS	5/8/2018	denied	mtcausley	Denied by Kassner
8 - INSPECTIONS	780	DOOR IN-PROGRESS	12/20/2018	cancel	wmaltby	CANCEL BY ADA 1:19PM
8 - INSPECTIONS	780	DOOR IN-PROGRESS	1/11/2019	apprve	mtcausley	APPROVED G. EARL - BY ENGINEER LETTER
8 - INSPECTIONS	789	MULLIONS & CLIPS	5/8/2018	denied	mtcausley	Denied by Kassner
8 - INSPECTIONS	789	MULLIONS & CLIPS	12/20/2018	cancel	wmaltby	CANCEL BY ADA 1:19PM
8 - INSPECTIONS	789	MULLIONS & CLIPS	1/11/2019	apprve	mtcausley	APPROVED G. EARL - BY ENGINEER LETTER
8 - INSPECTIONS	738	DOOR FINAL	10/30/2018	denied	mtcausley	
8 - INSPECTIONS	738	DOOR FINAL	11/21/2018	cancel	mtcausley	
8 - INSPECTIONS	738	DOOR FINAL	12/20/2018	cancel	wmaltby	CANCEL BY ADA 1:19PM
8 - INSPECTIONS	738	DOOR FINAL	12/27/2018	cancel	mtcausley	
8 - INSPECTIONS	738	DOOR FINAL	1/11/2019	denied	mtcausley	
8 - INSPECTIONS	738	DOOR FINAL	6/26/2019	cancel	ldiaz	
8 - INSPECTIONS	738	DOOR FINAL	8/19/2019		mtcausley	

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8 - INSPECTIONS	734	WINDOW FINAL	10/30/2018	denied	mtcausley	DENIED G. EARL - OWNER WANTS A REAL INSPECTION
8 - INSPECTIONS	734	WINDOW FINAL	11/21/2018	cancel	mtcausley	
8 - INSPECTIONS	734	WINDOW FINAL	12/20/2018	cancel	wmaltby	CANCEL BY ADA 1:19PM
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8 - INSPECTIONS	734	WINDOW FINAL	6/26/2019	cancel	ldiaz	
8 - INSPECTIONS	734	WINDOW FINAL	8/19/2019		mtcausley	
8 - INSPECTIONS	758	FINAL STRUCTURAL BUILDING		denied	mtcausley	
8 - INSPECTIONS	758	FINAL STRUCTURAL BUILDING	11/21/2018	cancel	mtcausley	H.D cancelled, R.Kassner spoke to home owner.
8 - INSPECTIONS	758	FINAL STRUCTURAL BUILDING	12/27/2018	cancel	mtcausley	
8 - INSPECTIONS	758	FINAL STRUCTURAL BUILDING	1/11/2019	denied	mtcausley	NEED NOC
8 - INSPECTIONS	758	FINAL STRUCTURAL BUILDING	6/26/2019	cancel	ldiaz	CANCELLED BY YAEL 1055AM
8 - INSPECTIONS	758	FINAL STRUCTURAL BUILDING	8/19/2019		mtcausley	
8 - INSPECTIONS	758	FINAL STRUCTURAL BUILDING	12/20/2018	cancel	csotolongo	CANCEL BY ADA 1:19PM
8 - INSPECTIONS	758	FINAL STRUCTURAL BUILDING	8/19/2019	denied	mtcausley	DENIED, INSTALLER TOOK ALL DOCS AND REPORTS - RALPH KASSNER
8 - INSPECTIONS	738	DOOR FINAL			mtcausley	
8 - INSPECTIONS	734	WINDOW FINAL	12/27/2018	cancel	mtcausley	cancel
8 - INSPECTIONS	734	WINDOW FINAL	8/19/2019	denied	mtcausley	DENIED, NO DOCUMENTATION - RALPH KASSNER
8 - INSPECTIONS	738	DOOR FINAL	8/19/2019	denied	mtcausley	DENIED, INSTALLER LEFT NO DOCUMENTATION FOR HOME OWNER - RALPH KASSNER
8 - INSPECTIONS	738	DOOR FINAL				
8 - INSPECTIONS	758	FINAL STRUCTURAL BUILDING				
8 - INSPECTIONS	734	WINDOW FINAL				

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