

33-5034-000-0060



VILLAGE OF PALMETTO BAY
9705 E. HIBISCUS STREET
PALMETTO BAY, FLORIDA 33157
- (305) 259-1234 Fax: (305) 259-1290

Approved
Edward Silva, Village Manager
Date

REQUEST FOR PUBLIC RECORDS

Requests are filed in accordance with the provisions of Chapters 119 and 257, Florida Statutes.

DATE: 3/1/19

NAME: C. Hoffman

COMPANY: Universal Insurance Co. - N. America

ADDRESS: _____

PHONE: 888-877-0770 x653 FAX: _____

EMAIL: choffman@vihn.com

REQUEST (Attach additional page, if necessary): Copies of the following documents:

Copy of roofing permit for
16941 SW 83 Ave. - from 10/17/14
Ref. # or response: 1802 FL22000522

Via phone
3/1/19

FOR USE BY VILLAGE STAFF ONLY

DATE FORWARDED: 3-4-19

DATE REQUEST FILLED: 3/6/19

ESTIMATED TIME (IF APPLICABLE): _____

HOW WAS REQUEST FILLED? _____

IF NOT FILLED, REASON: _____

BY: [Signature]

TRACKING NO.: 2019-076

ASSIGNED DEPT: Building

NUMBER OF COPIES: 64

ESTIMATED COST: _____

2010 FLORIDA BUILDING CODE
 MARCH 15, 2012

OFFICE COPY

BZF 2014-1443

16941800
83AVE

VILLAGE OF PALMETTO BAY				
THIS COPY OF PLAN MUST BE AVAILABLE ON BUILDING SITE OR NO INSPECTION WILL BE GIVEN				
SECTION	APPROVED		DISAPPROVED	
	BY	DATE	BY	DATE
ZONING				
P & Z				
LANDSCAPING				
FLOOD				
PUBLIC WORKS				
BUILDING				
HANDICAP				
STRUCTURAL				
ELECTRICAL				
MECHANICAL				
PLUMBING				
UTILITIES				
BUILDING OFFICIAL				

[Handwritten signature]

Subject to compliance with all Federal, State and County Law, rules and regulations. The Village of Palmetto Bay assumes no responsibility for accuracy of all results of these plans.

NOTICE: In addition to the requirements of these permits there may be additional restrictions applicable to this in the public record of this county and village.

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: <u>Daniel C Bodenzstein</u>	Company Name: <u>CME Construction</u>
Address: <u>16941 SW 83 Ave</u>	Qualifier: <u>Edward A. Basso</u>
Home Telephone:	License Number: <u>CEC 057494</u>
Business Telephone:	Address: <u>7705 SW 11th St, Miramar, FL 33017</u>
Other Telephone:	Telephone Number: <u>786-988-9876</u>
Fax Number:	Fax Number:
Does Property have Homestead Exemption	Phone Number for Pick Up: <u>786-752-5099</u>
	<u>MILLE 305-907-4102</u>

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

Classification Of Proposed Work		
Residential <input checked="" type="checkbox"/>	Duplex <input type="checkbox"/>	Townhouse <input type="checkbox"/> Multi Family <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other <input type="checkbox"/>
Effective Code _____	Occupancy _____	Construction Type <u>Roofing</u>
Zoning: _____	Variance Number: _____	Remarks: _____

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.

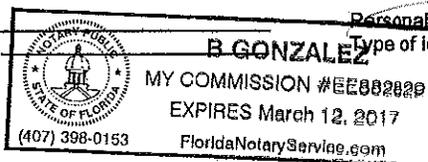
I, the owner of the property, understand that a permit application is subject to denial and a validated permit or permit card is subject to revocation or modification based upon applicable deeds, covenants, declarations, easements and any other legal restriction. By issuing a permit, the Village of Palmetto 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.

Daniel C Bodenzstein
 Signature of Owner
 State of Florida, County of Dade
 Sworn to (or affirmed) and subscribed before this 19 day
 of August, 2014
 by (print name) _____
 Notary Name Raymon Gonzalez

(Edward)
 Signature of Qualifier
 State of Florida, County of Dade
 Sworn to (or affirmed) and subscribed before this 18 day
 of August, 2014
 by (print name) Edward Basso
 Notary Name Elisa Vega

Personally known or I.D.
 Type of Identification produced:



Personally known or I.D.
 Type of Identification produced:



- 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 6:00 p.m., Monday thru Friday and from the hours of 9:00 a.m. to 5:00 p.m. on Saturdays. No construction activity is permitted on Sunday
- 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.

- | | | |
|---|---|---|
| <input type="checkbox"/> OWNER-BUILDER FORM
(Attached) | <input type="checkbox"/> HEALTH DEPARTMENT APPROVAL
(Septic/Sewer) | <input type="checkbox"/> PERMIT CLERK REVIEW
By: _____ |
| <input type="checkbox"/> FIRE DEPARTMENT APPROVAL
(Commercial/multi (family only)) | <input type="checkbox"/> IMPACT FEE
(New Construction) | <input type="checkbox"/> Complete Application |
| <input type="checkbox"/> CONCURRENCY
(New Construction) | <input type="checkbox"/> SCHOOL REVIEW
(New Construction) | <input type="checkbox"/> Current liability ins. |
| <input type="checkbox"/> PROOF OF OWNERSHIP
(Attached) | <input type="checkbox"/> DERM REVIEW
(New Construction/Additions/Tree Removal) | <input type="checkbox"/> Worker's Comp. |
| <input type="checkbox"/> CONDO ASSOCIATION APPROVAL | <input type="checkbox"/> PUBLIC WORKS | <input type="checkbox"/> Cont. Lic. Check |
| <input checked="" type="checkbox"/> UPFRONT FEES AMOUNT <u>125.00</u> | | <input type="checkbox"/> OTHER
(Specify and Attach) |
| | | <input type="checkbox"/> FLORIDA DEPARTMENT OF
BUSINESS AND
PROFESSIONAL REGULATION
APPROVAL (RESTAURANTS) |

Scanning Fees Small (1.85 per sheet)		Art in Public Places	
Scanning Fees Large (3.50 per sheet)		Certificate of Use and Occupancy	
Village of Palmetto Bay Permit Fees	\$687.50	Concurrency Fee (7.35%)	
Miami-Dade County Fees (sq. ft. x \$65//1000x0.60)	10.71	Technology Fee (6.3%)	
Flood Zone Review	10.71	Zoning Inspection Fee (157.50 per application)	
Radon-Inspector State Educational Fund and DCA State fee	18.00	Administration Fee	
Code Enforcement Fine		Express Fee (25.00)	\$25.00
Certificate of Completion		Public Works Fee	
Construction Sign Fee		Landscape Review Fee (175.00 per hour)	
Roll-off Waste Container Fee (105.00 per container site)		Special Review Fee (89.25 per hour)	
Rework Fee		Other	

\$ 764.00



**Palmetto Bay Building Department
Comment Sheet**

Department: BUILDING

Inspector: A. RAMOS

Date: 8/26/14

① PROVIDE CALCULATIONS TO JUSTIFY
ENHANCED SPACINGS FOR LOW SLOPE
(P₁, P₂ & P₃)



PLANS PROCESSING

Process Number: BRF 2014-1443

Description of Work: Re-roof Tile 3 Flat

Property Address: 10941 SW 83 Avenue

Department	Date In	Date Out	Total Business Days	Approved	Denied	Comments
Zoning						
Building	8/22/14 9/15/14	8/26/14 9/15/14	2	✓	✓	
Structural						
Electrical						
Mechanical						
Plumbing						
Planning & Zoning						
Public Works						
ADA Review						
Code Enforcement Verification	8/26/14		8/27/14			
Final Signature						
Pricing						
Call for Pick up						



**Palmetto Bay Building Department
Comment Sheet**

Department: BUILDING

Inspector: A. RAMOS

Date: 8/26/14

① PROVIDE CALCULATIONS TO JUSTIFY
ENHANCED SPACING FOR LOW SLOPE
(P₁, P₂ & P₃)

Lined area for handwritten notes or calculations.

A-1 ENGINEERING INSPECTION SERVICES, INC

7066 SW 44th Street Miami, FL 33155
Tel: 786-398-9179 Fax: 786-800-2627

August 28, 2014

FASTENER'S CALCULATION

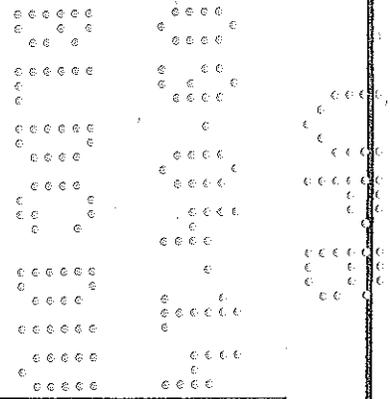
CME CONSTRUCTION

16941 SW 83 AVE
PALMETTO BAY FL

ALL ROOFING DIMENSIONS WERE PROVIDED BY
THE ABOVE ROOFING CONTRACTOR



YENÁN T. LEYVA
P.E. # 67416



CONTRACTOR CME CONSTRUCTION
JOB ADDRESS 16941 SW 83 AVE

LOW PITCH ROOFS FASTENERS CALCULATIONS

Description

Flat Roof
 Roof Mean Height: 15'
 NOA No: 13-0424.14
 Roof System Manufacturer:
 Deck Type: WOOD
 Base Sheet & Fastener Type: BASE 75 11/4 RS NAILS 5/8 TINCAP
 Ply Sheet & Method Type: RUBEROID HEAT WELD
 Roof Area = 480'

Maximum Design Pressure from the specific NOA: -52.5 psf

Scope of Activity & Findings:

- Minimum Design Wind Uplift Pressure from Wind Load Calculations: (See Attach)

Field = -40.05 psf @ 9 in o/c on laps and 2 equal rows 9
 Perimeter = -67.2 psf @ 6 in o/c on laps and 4 equal rows 6
 Corner = -101.15 psf @ 4 in o/c on laps and 6 equal rows 4

cclap = 2
 Net width(ft) = $Nw = \frac{(36in - 4in)}{12 in}$ Nw = 2.8 ft

Net length (ft) = $NI = \frac{(100)}{Nw}$ NI = 35.3 ft (to make one square)

Rs = 10.7 in

Number of fastener per square space = 9

Side laps row = $fl = \left(\frac{1}{space} * 12\right) * \frac{NI}{(1 * 1)}$ fl = 47.1 fasteners/sq

Center row = $fc = \left(\frac{1}{space} * 12\right) * \frac{NI}{(2 * 1)}$ fc = 94.1 fasteners/sq

Total = fl + fc Total = 141.2 fasteners/sq

Ft12 x per fasteners FT = $\frac{100}{Total}$ FT = 0.71

Fy = 52.5 * FT Fy = 37.2 lbf

General Equation: A1 ENGINEERING INSPECTION SERVICES INC

7066 SW 44 ST MIAMI, FL 33155 PH: 786-398-9179 FAX 305-485-9011

LAB CERTIFICATION No. 10-0512-01

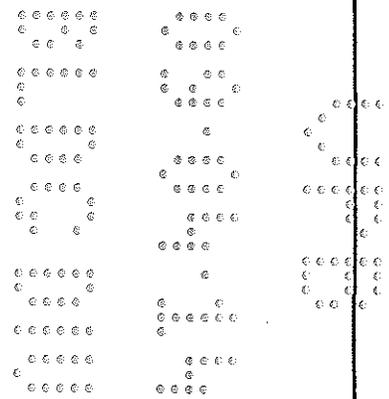
$FS = F_y \times 144 / P \times R_s$

Results:

Field Area= $fa = F_y * \frac{144}{(\text{Field} * 10.7*-1)}$ $fa = 12.5 \text{ in}$
 $fa > 9 \text{ oc/ ok (P1)}$

Perimeter Area= $fa = F_y * \frac{144}{(\text{Perimeter} * 10.7*-1)}$ $fa = 7.4 \text{ in}$
 $fa > 6 \text{ oc/ ok (P2)}$

Corner Area= $fa = F_y * \frac{144}{(\text{Corner} * 10.7*-1)}$ $fa = 4.9 \text{ in} >$
 $fa > 4 \text{ oc/ ok (P3)}$



A-1 Engineering Inspection Services, Inc

7066 SW 44th Street Miami, FL 33155

Tel: 786-398-9179 Fax: 305-485-9011

alroofinspection@gmail.com

LAB CERTIFICATION # 10-0512.01

ASCE 7-10

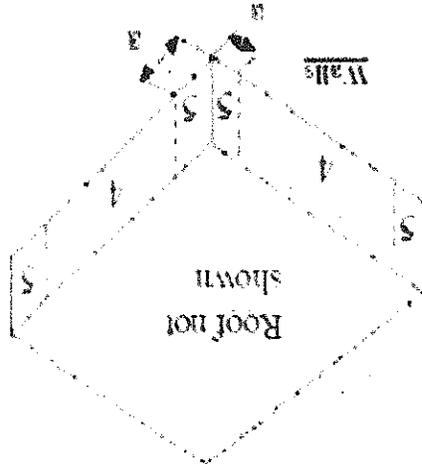
Date : 8/28/2014	Project No. : 1518
Company Name : CME CONSTRUCTION	Designed By : JCM
Address :	Description :
City : MIAMI	Customer Name : BAYARDO
State : FL	Proj Location : 16941 SW 83 AVE

Input Parameters: Directional Procedure All Heights Building (Ch 27 Part 1)			
Basic Wind Speed(V)	=	175.00 mph	
Structural Category	=	III	Exposure Category = C
Natural Frequency	=	N/A	Flexible Structure = No
Importance Factor	=	1.00	Kd Directional Factor = 0.85
Alpha	=	9.50	Zg = 900.00 ft
At	=	0.11	Bt = 1.00
Am	=	0.15	Bm = 0.65
Cc	=	0.20	l = 500.00 ft
Epsilon	=	0.20	Zmin = 15.00 ft
Slope of Roof	=	0 : 12	Slope of Roof(Theta) = .00 Deg
Ht: Mean Roof Ht	=	15.00 ft	Type of Roof = FLAT
RHt: Ridge Ht	=	15.00 ft	Eht: Eave Height = 15.00 ft
OH: Roof Overhang at Eave	=	.00 ft	Overhead Type = No Overhang
Bldg Length Along Ridge	=	30.00 ft	Bldg Width Across Ridge = 16.00 ft
Gust Factor Calculations			
Gust Factor Category I Rigid Structures - Simplified Method			
Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use		0.85	= 0.85
Gust Factor Category II Rigid Structures - Complete Analysis			
Zm:	0.6*Ht		= 15.00 ft
lzm:	Cc*(33/Zm)^0.167		= 0.23
Lzm:	1*(Zm/33)^Epsilon		= 427.06 ft
Q:	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5		= 0.94
Gust2:	0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))		= 0.90
Gust Factor Summary			
Not a Flexible Structure use the Lessor of Gust1 or Gust2			= 0.85

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 7066 SW 44th Street Miami, FL 33155
 Tel: 786-398-9179 Fax: 305-485-9011
 a1rooinspection@gmail.com
 LAB CERTIFICATION # 10-0512.01

ASCE 7-10

Date	8/28/2014
Project No.	1518
Company Name	CME CONSTRUCTION
Designed By	JCM
Description	
Customer Name	BAYARDO
City	MIAMI
State	FL
Proj Location	16941 SW 83 AVE



Gable Roof θ = 7			
3	2	3	3
2	1	2	2
3	2	3	3

All pressures shown are based upon ASD design, with a load factor of 1.6

Width of Pressure Coefficient zone "a" =										= 3.00 ft											
Description		Width		Span		Area		Zone		Max		Min		GCP		GCP		psf		psf	
FIELD	3.00	3.00	9.0	1	0.30	-1.00	16.29	-40.05													
PERIMETER	3.00	3.00	9.0	2	0.30	-1.80	16.29	-67.20													
CORNER	3.00	3.00	9.0	3	0.30	-2.80	16.29	-101.15													



OWNER'S NOTIFICATION FORM SECTION 1524

HIGH VELOCITY HURRICANE ZONE-REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

1524.1 Scope. As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Chapter 15 of the **Florida Building Code, Building** govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initials in the designed space indicates that the item has been explained.

1. Aesthetics-workmanship: The workmanship provisions of Chapter 15 (High Velocity Hurricane Zone) are for the purpose of providing that the roofing system meets the wind resistance and water intrusion performance standards. Aesthetics (appearance) are not a consideration with respect to workmanship provisions. Aesthetic issues such as color or architectural appearance, that are not part of a zoning code, should be addressed as part of the agreement between the owner and the contractor.

2. Railing wood decks: When replacing roofing, the existing wood roof deck may have to be railed in accordance with the current provisions of Chapter 16 (High Velocity Hurricane Zones) of the Florida Building Code. (The roof deck is usually concealed prior to removing the existing roof system).

3. Common roofs: Common roofs are those which have no visible delineation between neighboring units (i.e. townhouses, condominiums, etc.). In buildings with common roofs, the roofing contractor and/or owner should notify the occupants and adjacent units of roofing work to be performed.

4. Exposed ceilings: Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The owner provides the option of maintaining its appearance.

5. Ponding water: The current roof system and/or deck of the building may not drain well and may cause water to pond (accumulate) in low-lying areas of the roof. Ponding can be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the original roofing system is removed. Ponding conditions should be corrected.

6. Overflow scuppers (wall outlets): It is required that rainwater flow off so that the roof is not overloaded from a build up of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of Chapter 15 and 16 herein and the **Florida Building Code, Plumbing**.

7. Ventilation: Most roof structures should have some ability to vent natural airflow through the interior of the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced.

Exception: Attic spaces, designed by a Florida-licensed engineer or registered architect to eliminate the attic venting, shall not be required.

Owner's/Agent's Signature: Date: / /

Contractor's Signature: Permit Number:

Property Address:

Section A (General Information)

Master Permit No. _____ Process No. _____
 Contractor's Name CME Construction
 Job Address 16971 SW 83 002

ROOF CATEGORY

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> Low Slope | <input type="checkbox"/> Mechanically Fastened Tile | <input checked="" type="checkbox"/> Mortar/Adhesive Set Tile |
| <input type="checkbox"/> Asphaltic Shingles | <input type="checkbox"/> Metal Panel/Shingles | <input type="checkbox"/> Wood Shingles/Shakes |
| | <input type="checkbox"/> Prescriptive BUR-RAS 150 | Are there Gas Vent Stacks?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |

ROOF TYPE

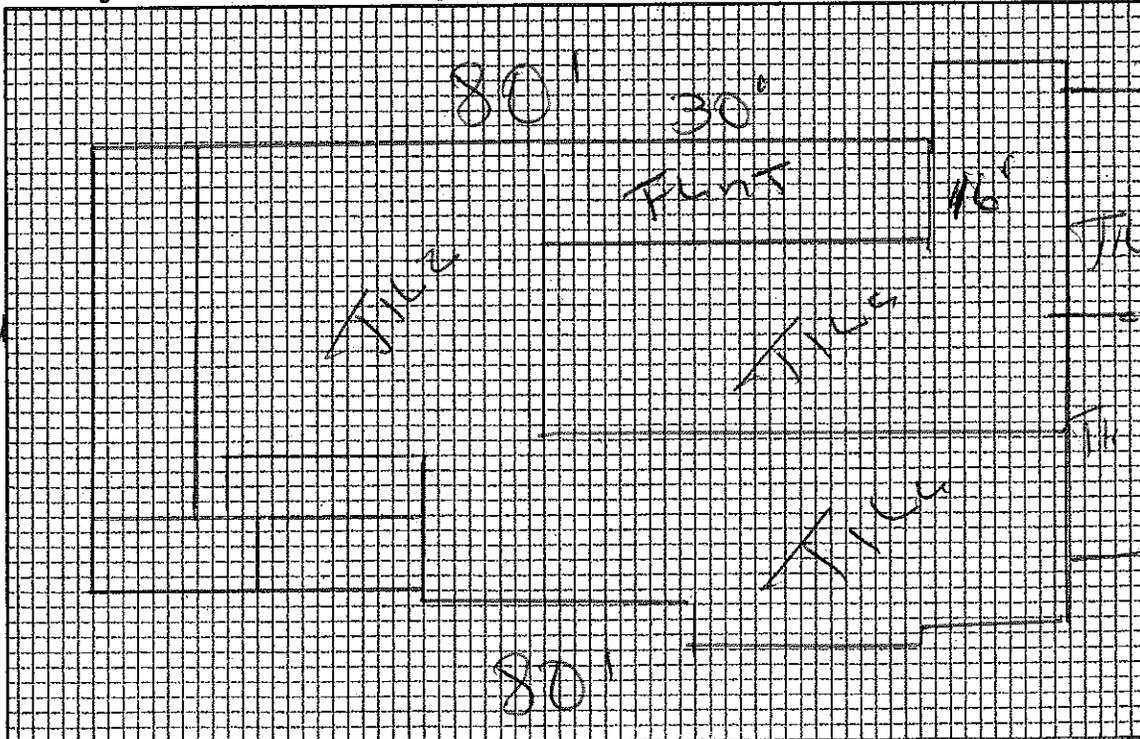
- New Roof Re-Roofing Recovering Repair Maintenance

ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF)	Steep Sloped Roof Area (SF)	Total (SF)
<u>500'</u>	<u>4300'</u>	<u>4800'</u>

Section B (Roof Plan)

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.



Section C (Low Sloped Roof System)

Fill in Specific Roof Assembly Components and Identify Manufacturer

(If a component is not used, identify as "NA")

System Manufacturer: GAF

NOA No.: 13-0424-14

Design Wind Pressures, From RAS 128 or Calculations:

Pmax: 40.05 Pmax2: 67.2 Pmax3: 101.15

Max. Design Pressure, From the Specific NOA System: 32.5 psf

Deck: Type: plywood

Gauge/Thickness: 5/8"

Slope: 1/12

Anchor/Base Sheet & No. of Ply(s): 2 ply 75

Anchor/Base Sheet Fastener/Bonding Material: with Tin Cap 1 1/2" w/c

Insulation Base Layer: n/a

Base Insulation Size and Thickness: n/a

Base Insulation Fastener/Bonding Material: n/a

Top Insulation Layer: n/a

Top Insulation Size and Thickness: n/a

Top Insulation Fastener/Bonding Material: n/a

Base Sheet(s) & No. of Ply(s): n/a

Base Sheet Fastener/Bonding Material: n/a

Ply Sheet(s) & No. of Ply(s): n/a

Ply Sheet Fastener/Bonding Material: n/a

Top Ply: 2x22015 SBS Heat-weld 170 FR

Top Ply Fastener/ Bonding Material: Heat Fusion

Surfacing: G2020/AR

Fastener Spacing for Anchor/Base Sheet Attachment

Field: 9" oc @ Lap, # Rows 2 @ 9" oc

Perimeter: 6" oc @ Lap, # Rows 1 @ 6" oc

Cor: 4" oc @ Lap, # Rows 1 @ 4" oc

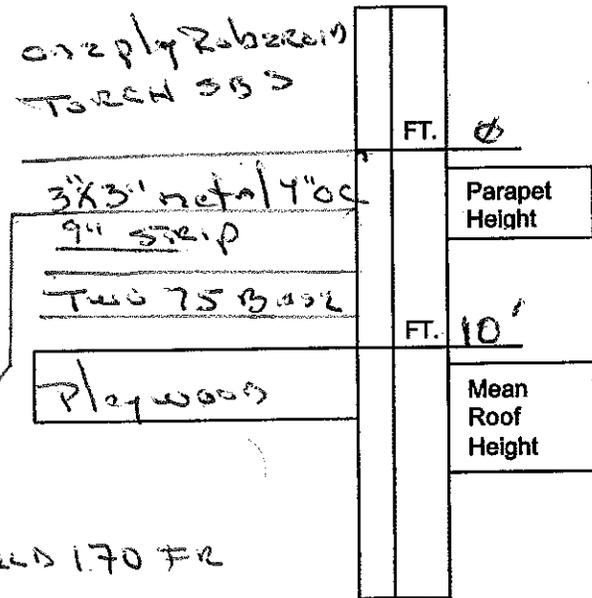
Number of Fasteners Per Insulation Board

Field: n/a Perimeter: n/a Corner: n/a

Illustrate Components Noted and Details as Applicable:

Woodblocking, Gutter, Edge Termination, Stripping, Flashing, Continuous Cleat, Cant Strip, Base Flashing, Counter- Flashing, Coping, Etc.

Indicate: Mean Roof Height, Parapet Height, Height of Base Flashing, Component Material, Material Thickness, Fastener Type, Fastener Spacing or Submit Manufacturers Details that Comply with RAS 111 and Chapter 16.



Section D (Steep Sloped Roof System)

Roof System Manufacturer: ENGLE ROOFING PRODUCTS LLC

Notice of Acceptance Number: 12-0430-04

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):
P1: 3.27 P2: 11.34 P3: 20.40

Maximum Design Pressure (From the NOA Specific System): 40.4

Method of tile attachment: MINION PADDY

Step Sloped Roof System Description

Deck Type: Plywood 5/8"

Type Underlayment: #30 ASTM WITH TINCAP

Insulation: N/A

Fire Barrier: N/A

Fastener Type & Spacing: 1 1/4" 2" NAIL OC

Adhesive Type: PolyFoam

Type Cap Sheet: Polystick T0 plus

Roof Covering: FLAT CONCRETE TILE

Type & Size Drip Edge: 3"X3" metal 4" oc

Roof Slope: 4 : 12

Ridge Ventilation? N/A

Mean Roof Height: 15'



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99
www.miamidade.gov/economy

GAF
1361 Alps Road
Wayne, NJ 07470

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 of the Florida Building Code.

DESCRIPTION: : GAF Ruberoid® Modified Bitumen Roof System for Wood Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 renews and revises NOA No. 09-0224.01 and consists of pages 1 through 29.
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 13-0424.14
Expiration Date: 11/06/14
Approval Date: 10/31/13
Page 1 of 29

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Material: APP/SBS
Deck Type: Wood
Maximum Design Pressure: -75 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Matrix™ 102 SBS Membrane Adhesive	5 gallons	ASTM D3019	Fiber reinforced rubberized cold-applied adhesive for modified bitumen roof systems.
GAFGLAS® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Type II asphalt impregnated and coated glass mat base sheet.
GAFGLAS® #80 Ultima™ Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Type II asphalt impregnated and coated, fiberglass base sheet.
GAFGLAS® FlexPly™ 6	39.37" (1 meter) Wide	ASTM D2178	Type VI asphalt impregnated glass felt with asphalt coating.
GAFGLAS® Ply 4	39.37" (1 meter) Wide	ASTM D2178	Type IV asphalt impregnated glass felt with asphalt coating.
GAFGLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
GAFGLAS® EnergyCap™ BUR Mineral Surface Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules with factory applied EnergyCote™
GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	Fiberglass base sheet coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating with factory perforations.
GAFGLAS® Stratavent® Eliminator™ Perforated Nailable Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	A nailable, fiberglass base sheet coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating.
Ruberoid® SBS Heat-Weld™ Smooth	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with polymer-modified asphalt and smooth surfaced.
Ruberoid® SBS Heat-Weld™ Granule	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with polymer-modified asphalt and surfaced with mineral granules.
RoofMatch™ SBS Modified Granular	107 sq. ft. (9.9 m2)	ASTM D6164	Non-woven polyester mat coated with SBS polymer-modified asphalt and surfaced with colored mineral granules.
Ruberoid® SBS Heat-Weld™ 170 FR	39.37" (1 meter) Wide	ASTM D6164	Non-woven polyester mat coated with fire retardant polymer-modified asphalt and surfaced with mineral granules.



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Membrane Type: APP/SBS Heat Weld
Deck Type 1: Wood, Non-insulated
Deck Description: 19/32" or greater plywood or wood plank decks
System Type E(2): Base sheet mechanically fastened.

All General and System Limitations shall apply.

Fire Barrier: FireOut™ Fire Barrier Coating, VersaShield® Fire-Resistant Roof Deck
(optional) Protection or Securock® Gypsum-Fiber Roof Board.

Base sheet: GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet, Ruberoid® Mop Smooth, Ruberoid® 20, Ruberoid® SBS Heat-Weld™ Smooth or Ruberoid® SBS Heat-Weld™ 25 mechanically fastened to deck as described below;

Fastening Options: GAFGLAS® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #75 Base Sheet or any of above base sheets attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the lap staggered and in two rows 12" o.c. in the field.

(Maximum Design Pressure –45 psf, See General Limitation #7)

GAFGLAS® Ply 4, GAFGLAS FlexPly™ 6, GAFGLAS® #75 Base Sheet or any of above base sheets attached to deck with Drill-Tec™ #12 Fastener, Drill-Tec™ #14 Fastener or Drill-Tec™ XHD Fastener and Drill-Tec™ 3" Steel Plate, Drill-Tec™ AccuTrac® Flat Plate or Drill-Tec™ AccuTrac® Recessed Plate installed 12" o.c. in 3 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 12" o.c. in the field of the sheet.

(Maximum Design Pressure –45 psf, See General Limitation #7)

GAFGLAS® FlexPly™ 6, GAFGLAS® #75 Base Sheet or any of above base sheets attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the 4" lap staggered and in two rows 9" o.c. in the field.

(Maximum Design Pressure –52.5 psf, See General Limitation #7)

GAFGLAS® #80 Ultima™ Base Sheets, Ruberoid® 20, Ruberoid® Mop Smooth, base sheet attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the 4" lap staggered and in two rows 9" o.c. in the field.

(Maximum Design Pressure –60 psf, See General Limitation #7)

GAFGLAS® #75 Base Sheet or any of above base sheets attached to deck with Drill-Tec™ #12 Fastener, Drill-Tec™ #14 Fastener or Drill-Tec™ XHD Fastener and Drill-Tec™ 3" Steel Plate, Drill-Tec™ AccuTrac® Flat Plate or Drill-Tec™ AccuTrac® Recessed Plate installed 12" o.c. in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet.

(Maximum Design Pressure –60 psf, See General Limitation #7)



Any of above base sheets attached to deck approved annular ring shank nails and 3" inverted Drill-Tec™ insulation plates at a fastener spacing of 9" o.c. at the lap staggered in two rows 9" in the field.

(Maximum Design Pressure –60 psf, See General Limitation #7)

GAFGLAS® #75 Base Sheet or any of above base sheets attached to deck with Drill-Tec™ #12 Fastener, Drill-Tec™ #14 Fastener or Drill-Tec™ XHD Fastener and Drill-Tec™ 3" Steel Plate, Drill-Tec™ AccuTrac® Flat Plate or Drill-Tec™ AccuTrac® Recessed Plate installed 8" o.c. in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet.

(Maximum Design Pressure –75 psf, See General Limitation #7)

Ply Sheet:

(Optional except over Ruberoid® Mop Smooth, Ruberoid® 20, Ruberoid® SBS Heat-Weld™ Smooth or Ruberoid® SBS Heat-Weld™ 25) One or more plies GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Ruberoid® Torch Smooth torch applied according to manufacturer's application instructions.

Membrane:

One ply of Ruberoid® Torch Smooth, Ruberoid® Torch Granule, RoofMatch™ APP Modified Granular, Ruberoid® EnergyCap™ Torch Granule FR, Ruberoid® EnergyCap™ Torch Plus FR, or Ruberoid® Torch FR torch applied according to manufacturer's application instructions.

Or

One or more plies of Ruberoid® SBS Heat-Weld™ Plus, Ruberoid® SBS Heat-Weld™ Plus FR, Ruberoid® SBS Heat-Weld™ 170 FR, Ruberoid® EnergyCap™ SBS Heat-Weld™ Plus FR, Ruberoid® SBS Heat-Weld™ Granule, Ruberoid® SBS Heat-Weld™ Smooth and Ruberoid® SBS Heat-Weld™ 25 applied according to manufacturer's application instructions.

Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Elastomeric Roofing Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Elastomeric Roofing Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design Pressure:

See Fastening Above



WOOD DECK SYSTEM LIMITATIONS:

1. A slip sheet is required with GAFGLAS® Ply 4 and GAFGLAS® FlexPly™ 6 when used as a mechanically fastened base or anchor sheet.
2. Minimum ¼" DensDeck® Roof Board or ½" Type X gypsum board is acceptable to be installed directly over the wood deck.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 13-0424.14
Expiration Date: 11/06/14
Approval Date: 10/31/13
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TGFU.R1306 Roofing System

BUILDING MATERIALS CORP OF AMERICA, DBA GAF
1361 ALPS RD
WAYNE, NJ 07470 USA

R1306

MODIFIED BITUMEN MEMBRANE ROOFING SYSTEMS

Unless otherwise indicated phenolic insulation may be used in any of the following systems.

Unless otherwise indicated any of the following Single Ply Membrane Systems may utilize multiple layers of Ruberoid® Membrane.

"GAF Premium Aluminum Roof Coating" may be used on any of the following Classifications with inclines not exceeding ½-in.

"GAF Weather Coat Emulsion" may be used on any of the following noncombustible Classifications with inclines not exceeding ½-in.

"Ruberoid® Modified Bitumen Adhesive" or Monsey Corp. "MBA Gold" or Karnak "No. 81" adhesives may be used in any of the following noncombustible deck Classifications.

Tropical Asphalt "No. 711 AF" adhesive may be used in any of the following Classifications.

"GAFGLAS® #80 Ultima™ Base Sheet" may be used in any of the following systems.

(Optional) Noncombustible deck classifications are applicable for use over combustible (15/32 in. minimum plywood) decks when ½-in. (minimum) gypsum board or ¼-in. (minimum) Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) are used directly over the deck with all joints staggered 6-in. (minimum) from plywood joints. ¼-in. thick (minimum) "SECUROCK® Roof Board" (Type FRX-G) and "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) are limited to a maximum 3:12 slope when used over a combustible deck in a system with any UL Classified insulation except polystyrene.

A vapor barrier may be optionally installed under all systems utilizing any "EnergyGuard™" insulation. "EnergyGuard™ Perlite" may be used as an option over any "EnergyGuard™" insulation. "GAFGLAS® Stratavent® Perforated Base Sheet" may be utilized as an additional ply in any of the following systems.

The following membranes may be used interchangeably within their own group:

- A. "Ruberoid® Torch Granule" or "Ruberoid® Torch 180" or "ROOFMatch™ APP Modified Granular" or "Tri-Ply® TP-4G".
- B. "Ruberoid® Mop Smooth" or "Ruberoid® Mop Smooth 1.5" or "Ruberoid® Mop Smooth Plus" or "Ruberoid® Dual Smooth".
- C. "Ruberoid® Mop Granule" or "Intec Flex PRF" or "ROOFMatch™ SBS Modified Granular" or "Tri-Ply® SBS Modified Bitumen Membrane".
- D. "Ruberoid® Mop 170 FR" or "Ruberoid® Dual FR" or "Ruberoid® EnergyCap Dual FR".
- E. "Ruberoid® 30" or "Ruberoid® 30 FR" or "Ruberoid® EnergyCap™ SBS 30 FR".
- F. "Ruberoid® 20" or "Ruberoid® SBS Heat Weld 25".

G. "Ruberoid® SBS Heat Weld 170 FR" or "Ruberoid® EnergyCap™ SBS Heat Weld Plus FR" or "Ruberoid® SBS Heat Weld Plus FR" or "Ruberoid® SBS Heat Weld Granule" or "Ruberoid® SBS Heat Weld Plus".

H. "Ruberoid® Torch Smooth" or "Tri-Ply® TP-4".

I. "Ruberoid® EnergyCap™ Torch Granule FR" or "Ruberoid® EnergyCap™ Torch Plus FR".

J. "Ruberoid® Mop FR" or "Ruberoid® EnergyCap™ Mop Plus FR".

Unless otherwise indicated, the Modified Bitumen (Granule) membrane may be surfaced with "TOPCOAT® Fireshield MB" at 2½-gal. to 3-gal./100-ft.², and the incline of the resultant system would be increased to a ¼-in. incline. But if the incline of the Classified system is greater than a ¼-in. incline, the incline of the roofing system would be maintained when surfaced with "FireShield® MB" at 2½-gal. to 3-gal./100-ft.².

Unless otherwise indicated "Ruberoid® EnergyCap™ SBS 30 FR" is an acceptable alternate for "Ruberoid® 30 FR" or "Ruberoid® Mop 170 FR" or "Ruberoid® Dual FR" in any applicable Classification.

56. Deck: C-15/32

Incline: 1/2

Base Sheet: — Two or more plies Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Eliminator™ Venting Base Sheet (Nailable)", mechanically fastened.

Membrane: — "Ruberoid® SBS Heat Weld Plus FR" or "Ruberoid® SBS Heat Weld 170 FR" or "Ruberoid® EnergyCap™ SBS Heat Weld Plus FR" or "Ruberoid® SBS Heat Weld Plus" or "Ruberoid® SBS Heat Weld Granule", torch applied.

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DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 206
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

NOTICE OF ACCEPTANCE (NOA)

Eagle Roofing Products LLC
1575 East C.R. 470
Sumterville, FL 33585

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 PERA - 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. PERA 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 of the Florida Building Code.

DESCRIPTION: Bel Air, Bel Air Double Eagle, Ponderosa, Ponderosa Double Eagle, Golden Eagle
Low Profile Concrete Tiles

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 revises NOA# 11-0321.02 and consists of pages 1 through 10.
The submitted documentation was reviewed by Alex Tigera.

MIAMI-DADE COUNTY
APPROVED

NOA No.:12-0430.04
Expiration Date: 10/05/16
Approval Date: 08/02/12
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ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub Category: Roofing Tiles
Material: Concrete

1. SCOPE:

This approves a new roofing system using "Low Profile Concrete Tile" as manufactured by **Eagle Roofing Products LLC** in **Sumterville, FL** and described in Section 2 of this Notice of Acceptance. For locations where the pressure requirements, as determined by applicable Building Code does not exceed the design pressure values obtained by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION:

<u>Manufactured by Applicant</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Bel Air Concrete Tile	L = 17" W = 12 1/4" Thickness = 1/2"	TAS 112	Flat profile concrete roof tile equipped with two nail holes. For adhesive set, direct deck or battened nail-on applications.
Bel Air Double Eagle Concrete Tile	L = 17" W = 12 1/4" Thickness = 1/2"	TAS 112	Flat profile concrete roof tile equipped with two nail holes. For adhesive set, direct deck or battened nail-on applications.
Ponderosa Concrete Tile	L = 17" W = 12 1/4" Thickness = 1/2"	TAS 112	Flat profile concrete roof tile with slate finish equipped with two nail holes. For adhesive set, direct deck or battened nail-on applications.
Ponderosa Double Eagle Concrete Tile	L = 17" W = 12 1/4" Thickness = 1/2"	TAS 112	Flat profile concrete roof tile with shake finish equipped with two nail holes. For adhesive set, direct deck or battened nail-on applications.
Golden Eagle Concrete Tile	L = 17" W = 12 1/4" Thickness = 1/2"	TAS 112	Flat profile concrete roof tile brushed finish equipped with two nail holes. For adhesive set, direct deck or battened nail-on applications.
Trim Pieces	l = varies w = varies varying thickness	TAS 112	Accessory trim, clay roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.



2.1 EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI Asphalt Technologies	ERPF-001-02-01	TAS 112	Aug. 2006
Redland Technologies	7161-03 Appendix III	Static Uplift Testing TAS 102	Dec. 1991
Redland Technologies	7161-03 Appendix III	Static Uplift Testing TAS 102(A)	Dec. 1991
Redland Technologies	7161-03 Appendix II	Wind Tunnel Testing TAS 108 (Nail-On)	Dec. 1991
Redland Technologies	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
Redland Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing TAS 108 (Nail-On)	Aug. 1994
Redland Technologies	P09647-01	Wind Tunnel Testing TAS 108 (Mortar Set)	Aug. 1994
The Center for Applied Engineering, Inc.	94-084	Static Uplift Testing TAS 101 (Mortar Set)	May 1994
The Center for Applied Engineering, Inc.	25-7094-(2, 5, & 8)	Static Uplift Testing TAS 102	Oct. 1994
The Center for Applied Engineering, Inc.	25-7183-(5 thru 6)	Static Uplift Testing TAS 102	Feb. 1995
The Center for Applied Engineering, Inc.	25-7214-(1, 5, & 8)	Static Uplift Testing TAS 102	March, 1995
The Center for Applied Engineering, Inc.	25-7487-2	Static Uplift Testing TAS 102	Dec. 1995
The Center for Applied Engineering, Inc.	25-7496-(1 & 4)	Static Uplift Testing TAS 102	Dec. 1995
The Center for Applied Engineering, Inc.	25-7804-6	Static Uplift Testing TAS 102	Sep. 1996
Celotex Corporation Testing Service	520109-1 520111-4	Static Uplift Testing TAS 101	Dec. 1998
Celotex Corporation Testing Service	520191-1	Static Uplift Testing TAS 101	March 1999
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	Sep. 2006
Walker Engineering, Inc.	Calculations	Restoring Moments Due to Gravity	Sep. 2006



3. LIMITATIONS:

- 3.1 Fire classification is not part of this acceptance.
- 3.2 For mortar or adhesive set tile applications, a static field uplift test in accordance with TAS 106 may required, refer to applicable building code.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Building Code Compliance Office for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.

4. INSTALLATION

- 4.1 Eagle Roofing Products LLC Bel Air, Bel Air Double Eagle, Ponderosa, Golden Eagle, Ponderosa Double Eagle Flat Concrete Roof Tiles and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119 and RAS 120.
- 4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)

Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Bel Air, Bel Air Double Eagle, Ponderosa, Golden Eagle, Ponderosa Double Eagle Flat Tile	11.4	1.42	1.03

Table 2: Aerodynamic Multipliers - λ (ft³)

Tile Profile	λ (ft ³) Batten Application	λ (ft ³) Direct Deck Application
Bel Air, Bel Air Double Eagle, Ponderosa, Golden Eagle, Ponderosa Double Eagle Flat Tile	0.301	0.278



Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)

Tile Profile	3":12"		4":12"		5":12"		6":12"		Greater than 7":12"	
	Battens	Direct Deck	Battens	Direct Deck						
Bel Air, Bel Air Double Eagle, Ponderosa, Golden Eagle, Ponderosa Double Eagle Flat Tile	7.48	7.71	7.37	7.59	7.22	7.44	7.05	7.27	6.86	7.07

Table 4: Attachment Resistance Expressed as a Moment - M_r (ft-lbf) for Nail-On Systems

Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens
Bel Air, Bel Air Double Eagle, Ponderosa, Golden Eagle, Ponderosa Double Eagle Flat Tile	2-10d Ring Shank Nails	30.9	38.1	17.2
	1-10d Smooth or Screw Shank Nail	7.3	9.8	4.9
	2-10d Smooth or Screw Shank Nails	14.0	18.8	7.4
	1 #8 Screw	30.8	30.8	18.2
	2 #8 Screw	51.7	51.7	24.4
	1-10d Smooth or Screw Shank Nail (Field Clip)	24.3	24.3	24.2
	1-10d Smooth or Screw Shank Nail (Eave Clip)	19.0	19.0	22.1
	2-10d Smooth or Screw Shank Nails (Field Clip)	35.5	35.5	34.8
	2-10d Smooth or Screw Shank Nails (Eave Clip)	31.9	31.9	32.2
	2-10d Ring Shank Nails ¹	50.3	65.5	48.3

1. Installation with a 4" tile headlap and fasteners are located a min. of 2½" from head of tile.



**Table 5: Attachment Resistance Expressed as a Moment M_f (ft-lbf)
for Two Patty Adhesive Set Systems**

Tile Profile	Tile Application	Minimum Attachment Resistance
Bel Air, Bel Air Double Eagle, Ponderosa, Golden Eagle, Ponderosa Double Eagle Flat Tile	Adhesive ¹	31.3 ²

1 See manufactures component approval for installation requirements.

2 Flexible Products Company TileBond Average weight per patty 13.9 grams.
3M™ 2-Component Foam Roof Tile Adhesive AH-160 Average weight per patty 8 grams.

**Table 6: Attachment Resistance Expressed as a Moment - M_f (ft-lbf)
for Single Patty Adhesive Set Systems**

Tile Profile	Tile Application	Minimum Attachment Resistance
Bel Air, Bel Air Double Eagle, Ponderosa, Golden Eagle, Ponderosa Double Eagle Flat Tile	3M™ 2-Component Foam Roof Tile Adhesive AH-160	118.9 ³
	3M™ 2-Component Foam Roof Tile Adhesive AH-160	40.4 ⁴

3 Large patty placement of 45 grams of PolyPro™

4 Medium patty placement of 24 grams of PolyPro™

**Table 7: Attachment Resistance Expressed as a Moment - M_f (ft-lbf)
for Mortar Set Systems**

Tile Profile	Tile Application	Attachment Resistance
Bel Air, Bel Air Double Eagle, Ponderosa, Golden Eagle, Ponderosa Double Eagle Flat Tile	Mortar Set ⁵	43.9

5 Tile-Tite Roof Tile Mortar.



5. LABELING :

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo (See Detail Below), or following statement: "Miami-Dade County Product Control Approved".



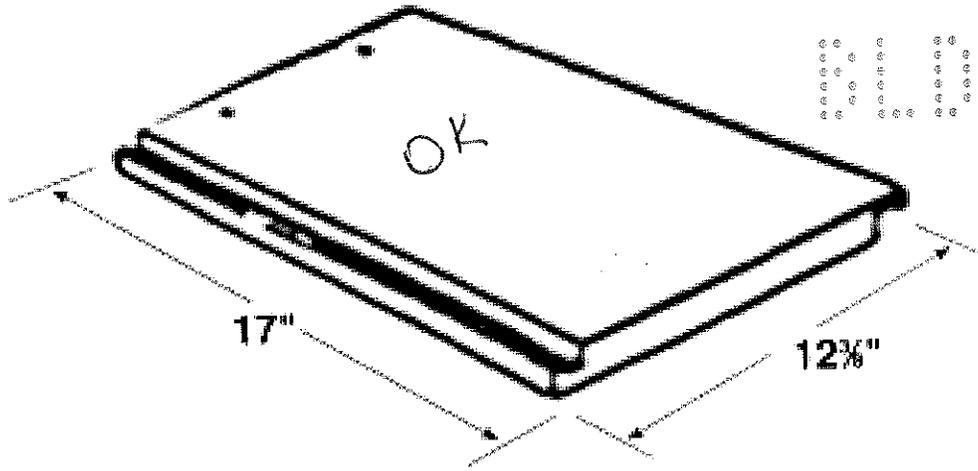
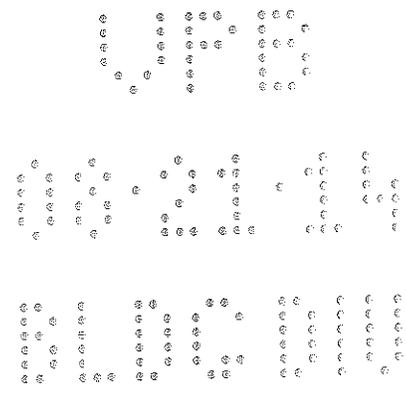
**BEL AIR, BEL AIR DOUBLE EAGLE, PONDEROSA, GOLDEN EAGLE, PONDEROSA DOUBLE EAGLE
CONCRETE ROOF TILE LABEL, SUMTERVILLE PLANT
(LOCATED ON UNDERSIDE OF TILE)**

6. BUILDING PERMIT REQUIREMENTS:

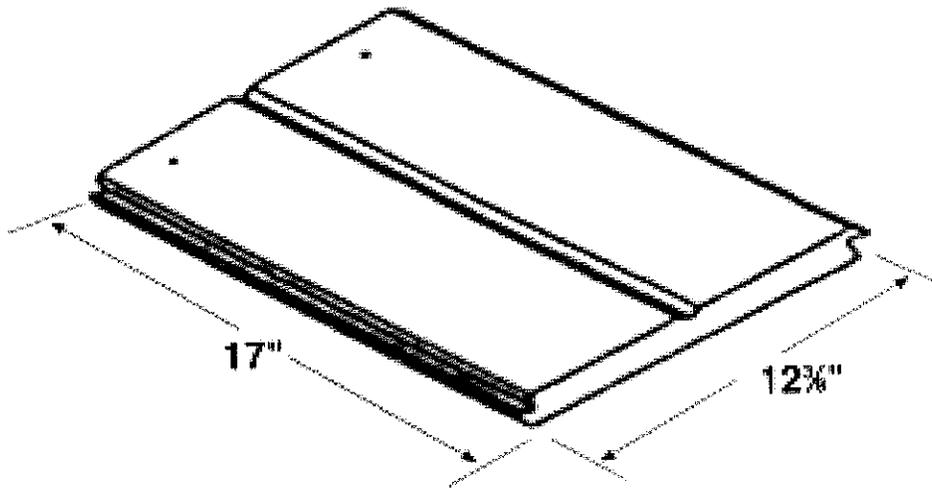
- 6.1 Application for building permit shall be accompanied by copies of the following:
 - 6.1.1 this Notice of Acceptance.
 - 6.1.2 Any other documents required by Building Official or Applicable building code in order to properly evaluate the installation of this system.



PROFILE DRAWING

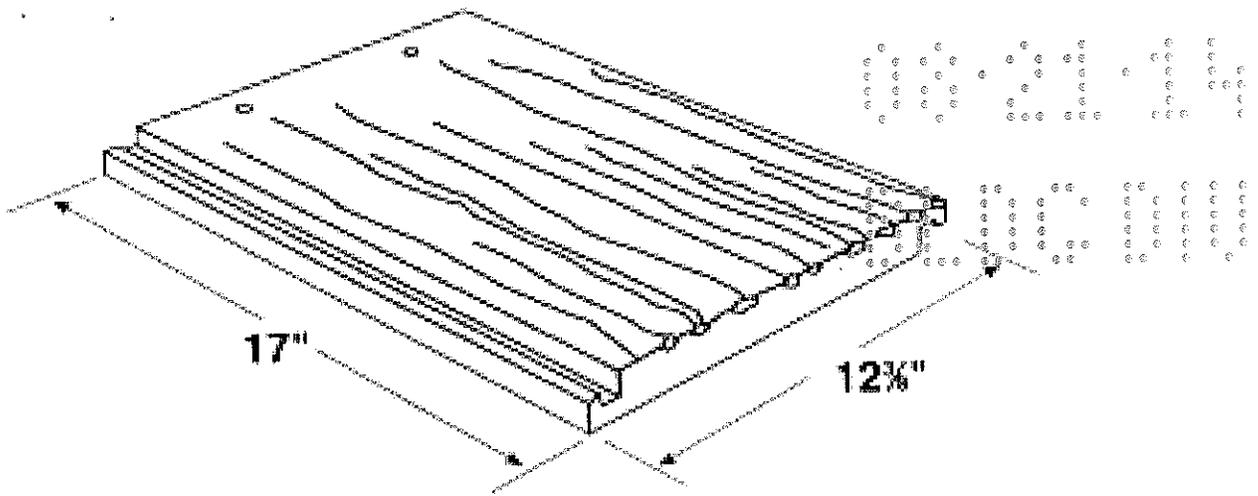


BEL AIR

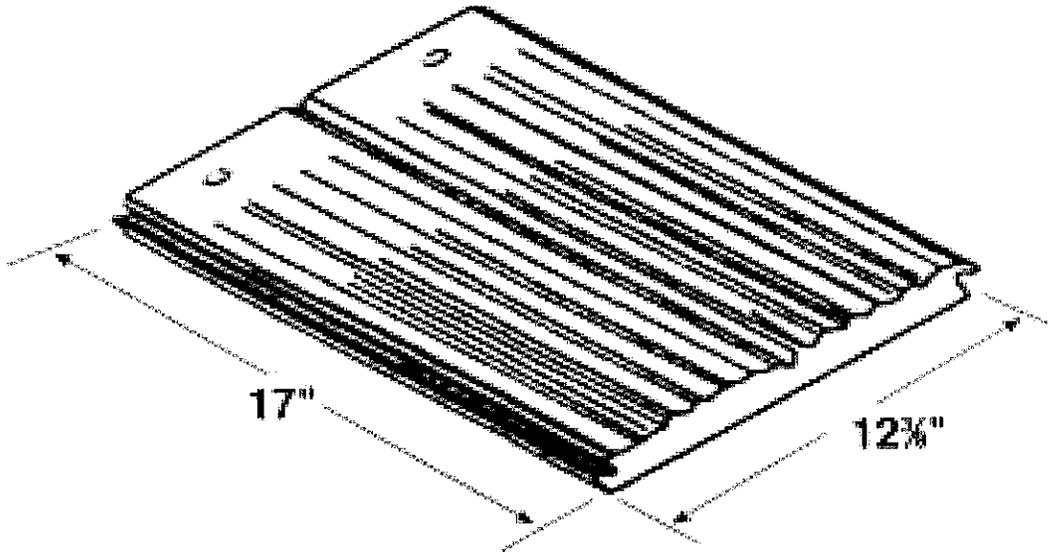


BEL AIR DOUBLE EAGLE



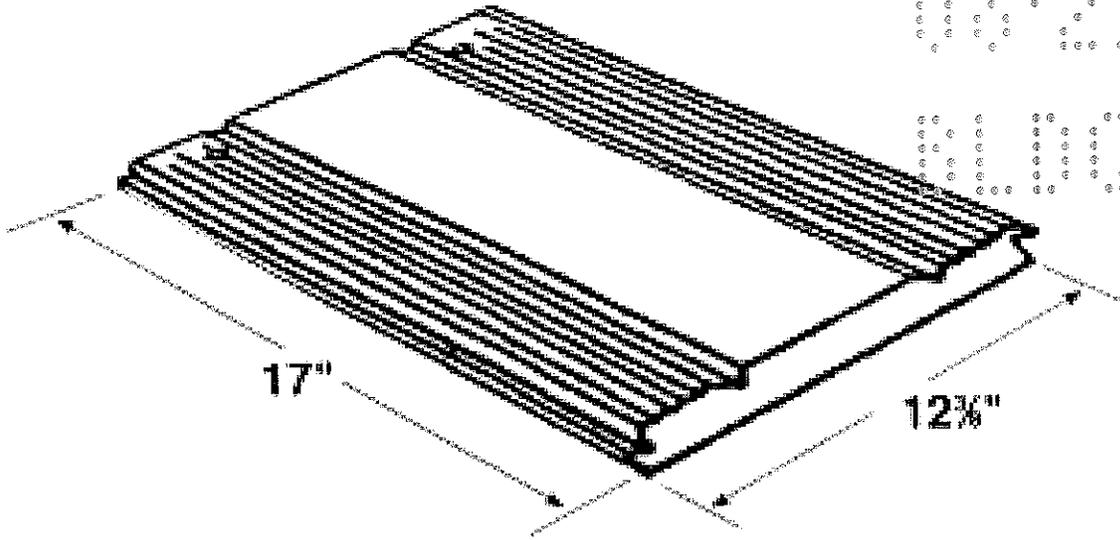


PONDEROSA



PONDEROSA DOUBLE EAGLE





GOLDEN EAGLE

END OF THIS ACCEPTANCE



NOA No.:12-0430.04
Expiration Date: 10/05/16
Approval Date: 08/02/12
Page 10 of 10

MIAMI-DADE

BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

Polyglass USA Inc.
150 Lyon Drive
Fernley, NV 89408

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 BNC - 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. BNC 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 of the Florida Building Code.

DESCRIPTION: Polyglass Polystick Underlayments

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 renews and revises NOA # 09-0806.07 and consists of pages 1 through 8.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 11-0601.10
Expiration Date: 09/13/16
Approval Date: 09/15/11
Page 1 of 8

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: SBS , APP Self-Adhering Modified Bitumen

PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Polystick MTS underlayment <i>Manufacturing Location #2</i>	Roll: 65'8" x 3'3- ³ / ₈ " 60 mils thick	TAS 103	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Polystick IR-Xe underlayment <i>Manufacturing Location #1 & #2</i>	Roll: 65' x 3'3- ³ / ₈ " Or 65' x 3' 80 mils thick	TAS 103 and ASTM D 1970	A fine granular/sand top surface self-adhering, APP polymer modified, fiberglass reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield and as a flat roof tile underlayment.
Polystick TU underlayment <i>Manufacturing Location #1 & #2</i>	Roll: 32'10" x 3'3- ³ / ₈ " 100 mils thick	TAS 103 and ASTM D 1970	A heavy granuled surface self adhering, APP polymer modified, fiberglass or polyester reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as a a roof tile underlayment.
Polystick TU Plus underlayment (Facer of Membrane with surface printing) <i>Manufacturing Location #1 & #2</i>	Roll: 65' x 3'3- ³ / ₈ " 80 mils thick	TAS 103 and ASTM D 1970	A non-wicking fabric surfaced, self-adhering, APP polymer modified, fiberglass reinforced with a high strength polyester fabric, bituminous sheet material for use an an underlayment in sloped roof assemblies. Designed as a metal roofing and roof tile underlayment.
Polystick TU P underlayment <i>Manufacturing Location #2</i>	Roll: 32'10" x 3'3- ³ / ₈ " 130 mils thick	TAS 103 and ASTM D 1970	A rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface designed for use as a tile roof underlayment.
Polystick Tile Pro <i>Manufacturing Location #2</i>	Roll: 61' x 3'3- ³ / ₈ " 60 mils thick	TAS 103 and ASTM D 1970	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.



PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Polystick Dual Pro <i>Manufacturing Location #2</i>	Roll: 61' x 3'3-3/8" 60 mils thick	ASTM D 1970	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane, specific for use as a high temperature underlayment. Designed as a metal roofing.

MANUFACTURING PLANTS:

1. Hazelton, PA
2. Winter Haven, FL

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>	
Exterior Research & Design, LLC	11756.04.01-1	TAS 103	04/27/01	
	11756.08.01-1	ASTM D 1970	08/14/01	
	02202.08.05	TAS 103	08/29/05	
	Trinity ERD	P5110.08.07	TAS 103	08/29/07
		P10870.09.08-R1	TAS 103	12/04/08
		P10870.04.09	TAS 103/ASTM D4798 & G155	04/13/09
		P33360.06.10	ASTM D1970	07/01/10
PRI Asphalt Technologies	P33370.03.11	TAS 103	03/02/11	
	P36900.09.11	TAS 103/ASTM D4798 & G155	09/01/11	
	PRI01111	ASTM D 4977	04/08/02	
	PUSA-005-02-01	ASTM D 4977	01/31/02	
	PUSA-018-02-01	ASTM D 2523	07/14/03	
	PUSA-035-02-01	TAS 103	09/29/06	
	PUSA-033-02-01	ASTM D 1970	01/12/06	
	PUSA-055-02-02	TAS 103	12/10/07	
	PUSA-083-02-01	TAS 103	06/30/08	
	PUSA-089-02-01	TAS 103/ASTM D4798 & G155	07/06/09	
Momentum Technologies, Inc.	JX20H7A	TAS 103/ASTM D4798 & G155	04/01/08	
	RX14E8A	TAS 103/ASTM D4798 & G155	11/09/09	
	DX23D8B	TAS 103/ASTM D4798 & G155	02/18/10	
	DX23D8A	TAS 103/ASTM D4798 & G155	02/18/10	



GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance.
2. Polystick MTS, TU Plus, and Tile Pro may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, roof tile systems and quarry slate roof assemblies. IR-Xe, TU, and TU P may be used in all the previous assemblies listed except metal roofing. Dual Pro may be used in all the previous assemblies listed except roof tile systems.
3. Deck requirements shall be in compliance with applicable building code.
4. Polyglass Polystick membranes shall be applied to a smooth, clean and dry surface. The deck shall be free of irregularities.
5. Polyglass Polystick membranes and underlayments shall not be adhered directly over a pre-existing roof membrane as a recover system.
6. Polyglass Polystick membranes shall not be left exposed as a temporary roof for longer than the amount of days listed in the table below after application. Polyglass reserves the right to revise or alter product exposure times; not to exceed the preceding maximum time limitations.

Exposure Limitations (days)							
	MTS	IR-Xe	TU	TU Plus	TU P	Tile Pro	Dual Pro
Winter Haven, FL.	180	180	180	180	180	180	180
Hazleton, PA.	N/A	30	30	180	N/A	N/A	N/A

7. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.
8. In roof tile application, data for the attachment resistance of roof tiles shall be as set forth in the roof tile manufacturer's Notice of Acceptance. Polystick TU and TU Plus may be used in both adhesive set and mechanically fastened roof tile applications. Polystick IR-Xe, and Tile Pro are limited to mechanically fastened roof tile applications. Polystick MTS is limited to mechanically fastened with battens roof tile applications. Polystick TU P may be used in both adhesive set and mechanically fastened roof tile applications with the exception of mortar set tile applications.
9. The maximum roof slope for use as roof tile underlayment for (direct-to-deck) tile assemblies shall be as follows: (See Table Below)

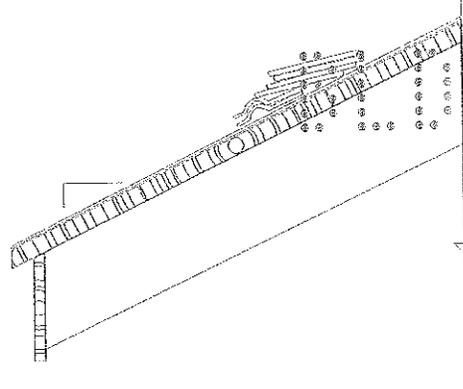
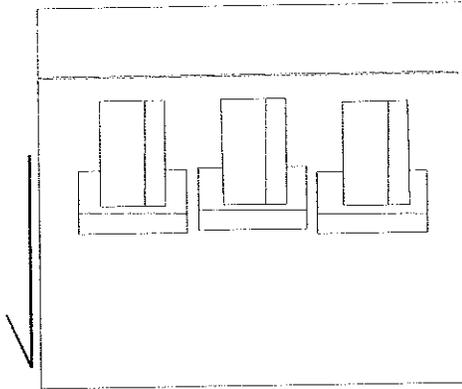
Tile Profile	Polystick MTS	Polystick IR-Xe	Polystick TU, TU Plus, TU P, Tile Pro
Flat Tile	Prohibited without battens	5:12	No limitation
Profiled Tile	Prohibited without battens	Prohibited	No limitation

The above slope limitations can be exceeded only by using battens and counter battens in accordance with the Approved Tile System Notice of Acceptance and applicable Florida Building Code requirements. **Battens are required for both loading and installation of tiles at all times.**



GENERAL LIMITATIONS: (CONTINUED)

- Care should be taken during the loading procedure to keep foot traffic to a minimum and to avoid dropping of tile directly on the underlayment. Refer to Polyglass' Tile loading detail below for loading procedure for all underlayments except Polystick MTS which shall be loaded onto battens.



- Refer to prepared roofing system Product Control Notice of Acceptance for listed approval of this product with specific prepared roofing products. Polystick MTS, IR-Xe, TU, TU Plus, TU P, Dual Pro and Tile Pro may be used with any approved roof covering Notice of Acceptance listing Polystick MTS, IR-Xe, TU, TU Plus, TU P, Dual Pro and Tile Pro as a component part of an assembly in the Notice of Acceptance. If Polystick MTS, IR-Xe, TU, TU Plus, TU P, Dual Pro and Tile Pro is not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.

LABELING:

- All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city and state of manufacturing facility and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



BUILDING PERMIT REQUIREMENTS:

Application for building permit shall be accompanied by copies of the following:

- This Notice of Acceptance.
- Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this materials.



NOA No.: 11-0601.10
Expiration Date: 09/13/16
Approval Date: 09/15/11
Page 6 of 8

POLYGLASS GENERAL APPLICATION GUIDELINES FOR POLYSTICK MEMBRANES:

1. Polyglass does accept the direct application of Polystick underlayment membranes to wood decks. Installers are cautioned to refer to applicable local building codes prior to direct deck installation to ensure this is acceptable. Please also refer to applicable Product Data Sheets of the corresponding products.
2. All rolls, with the exception of Polystick TU Plus should be back-nailed in selvage edge seam as per Polyglass Back Nailing Guide. Nails shall be, 11 gauge ring shank type, applied with a minimum 1" metal disk as required in Dade County or simplex type nail as otherwise allowable in other regions, at a minimum rate of 12" o.c. Polystick TU Plus should be back nailed in designated area marked "nail area, area para clavar" on the face of membrane, with the above stated nails and/or disks. The head lap membrane is to cover the area being back-nailed. (Please refer to applicable local building codes prior to installation.)
3. All seal lap seams (selvage laps) must be rolled with a hand roller to ensure full contact.
4. All fabric over fabric; and granule over granule end laps, shall have a 6" wide, uniform layer of Polyglass Polyplus 55 Premium Modified Flashing Cement, Polyglass Polyplus 50 Premium MB Flashing Cement, Polyglass PG500 MB Flashing Cement, Mule-Hide 241 Premium Modified Flashing Cement, Mule-Hide 251 Premium Wet/Dry Elastomeric Flashing Cement, or Mule-Hide 421 Mod Bit Flashing Adhesive Trowel Grade mastic, applied in between the application of the lap. The use of mastic between the laps does not apply to Polystick MTS.
5. A maximum of 6 tiles per stack are allowed when loading tile on the underlayments. Refer to the Polyglass Tile Loading Guidelines. See General Limitations #9 and #10.
6. Battens and/or Counter-battens, as required by the tile manufacturers NOA's, must be used on all projects for pitch/slopes of 7"/12" or greater. It is suggested that on pitch/slopes in excess of 6 1/4"/12", precautions should be taken, such as the use of battens to prevent tile sliding during the loading process.
7. Minimum cure time after membrane installation & before loading of roofing tiles is Forty-Eight (48) Hours.
8. Polystick membranes may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details.
9. Repair of Polystick membranes is to be accomplished by applying Polyglass Polyplus 55 Premium Modified Flashing Cement, Polyglass Polyplus 50 Premium MB Flashing Cement, Polyglass PG500 MB Flashing Cement, Mule-Hide 241 Premium Modified Flashing Cement, Mule-Hide 251 Premium Wet/Dry Elastomeric Flashing Cement, or Mule-Hide 421 Mod Bit Flashing Adhesive Trowel Grade mastic to the area in need of repair, followed by a patch of the Polystick material of like kind should be set and hand rolled in place over the area needing such repair. Patching membrane shall be a minimum of 6 inches in either direction. The repair should be installed in such a way so that water will run parallel to or over the top of all laps of the patch.
10. All self-adhered membranes must be rolled to ensure full contact with approved substrates. Polyglass requires a minimum of 40 lbs for a weighted roller for the rolling of the field membrane. Hand rollers are acceptable for rolling of patches or small areas of the roof. Brooming may be used where slope prohibits rolling.
11. All approved substrates should be dry, clean and properly prepared, before any application of Polystick membranes commences. An approved substrate technical bulletin can be furnished upon request. It is recommended to refer to applicable building codes prior to installation to verify acceptable substrates.
12. The Polyglass Miami-Dade Notice of Acceptance (NOA) approval for Polystick membranes and PolyProtector UDL can be furnished upon request by our Technical Services Department by calling 1 (800) 894-4563.



13. Questions in regards to the application of Polyglass products should be directed to our Technical Services Department at 1 (800) 894-4563.

14. Polyglass recommends that applicators follow good roofing practices and applicable procedures as outlined by the National Roofing Contractors Association (NRCA).

PLEASE CHECK WITH LOCAL BUILDING CODES REGARDING LIMITATIONS OF SPECIFIC APPLICATIONS. LOCAL CODES MAY SUPERSEDE POLYGLASS REQUIREMENTS AND RECOMMENDATIONS.

END OF THIS ACCEPTANCE



NOA No.: 11-0601.10
Expiration Date: 09/13/16
Approval Date: 09/15/11
Page 8 of 8



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2529
www.miamidade.gov/pera

NOTICE OF ACCEPTANCE (NOA)

3M Company
3M Center Building 0220-05-E-06
St. Paul, MN. 55144-1000

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 PERA - 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. PERA 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 of the Florida Building Code.

DESCRIPTION: 3M™ 2-Component Foam Roof Tile Adhesive AH-160

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 renews and revises NOA# 11-0124.04 and consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 12-0228.18
Expiration Date: 05/10/17
Approval Date: 05/10/12
Page 1 of 7

ROOFING COMPONENT APPROVAL:

Category: Roofing
 Sub Category: Roof tile adhesive
 Materials: Polyurethane

SCOPE:

This approves 3M™ 2-Component Foam Roof Tile Adhesive AH-160 as manufactured by 3M Company as described in Section 2 of this Notice of Acceptance. For the locations where the design pressure requirements, as determined by applicable building code, does not exceed the design pressure values obtained by calculations in compliance with Roofing Application Standard RAS 127, for use with approved flat, low, and high profile roof tiles system using 2-Component Foam Roof Tile Adhesive AH-160. Where the attachment calculations are done as a moment based system for single patty placement, and as an uplift based system for double patty systems

PRODUCTS MANUFACTURED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
3M™ 2-Component Foam Roof Tile Adhesive AH-160	N/A	TAS 101	Two component polyurethane foam adhesive
Foam Dispenser RTF1000	N/A		Dispensing Equipment
ProPack® 30 & 100	N/A		Dispensing Equipment

PRODUCTS MANUFACTURED BY OTHERS:

Any Miami-Dade County Product Control Accepted Roof Tile Assembly having a current NOA which list moment resistance values with the use of 2-Component Foam Roof Tile Adhesive AH-160 roof tile adhesive.

MANUFACTURING LOCATION:

- Tomball, TX.

PHYSICAL PROPERTIES:

<u>Property</u>	<u>Test</u>	<u>Results</u>
Density	ASTM D 1622	1.6 lbs./ft. ³
Compressive Strength	ASTM D 1621	18 PSI Parallel to rise
		12 PSI Perpendicular to rise
Tensile Strength	ASTM D 1623	28 PSI Parallel to rise
Water Absorption	ASTM D 2127	0.08 Lbs./Ft ²
Moisture Vapor Transmission	ASTM E 96	3.1 Perm / Inch
Dimensional Stability	ASTM D 2126	+0.07% Volume Change @ -40°F., 2 weeks
		+6.0% Volume Change @ 158°F., 100% Humidity, 2 weeks
Closed Cell Content	ASTM D 2856	86%



NOA No.: 12-0228.18
 Expiration Date: 05/10/17
 Approval Date: 03/16/12
 Page 2 of 7

Note: The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Center for Applied Engineering	#94-060	TAS 101	04/08/94
	257818-1PA	TAS 101	12/16/96
	25-7438-3	SSTD 11-93	10/25/95
	25-7438-4		
	25-7438-7	SSTD 11-93	11/02/95
	25-7492	SSTD 11-93	12/12/95
Miles Laboratories Polymers Division	NB-589-631	ASTM D 1623	02/01/94
Ramtech Laboratories, Inc.	9637-92	ASTM E 108	04/30/93
Southwest Research Institute	01-6743-011	ASTM E 108	11/16/94
	01-6739-062b[1]	ASTM E 84	01/16/95
Trinity Engineering	7050.02.96-1	TAS 114	03/14/96
Celotex Corp. Testing Services	528454-2-1	TAS 101	10/23/98
	528454-9-1		
	528454-10-1		
	520109-1	TAS 101	12/28/98
	520109-2		
	520109-3		
	520109-6		
	520109-7		
	520191-1	TAS 101	03/02/99
520109-2-1			

LIMITATIONS:

1. Fire classification is not part of this acceptance. Refer to the Prepared Roof Tile Assembly for fire rating.
2. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall solely be used with flat, low, & high tile profiles.
3. Minimum underlayment shall be in compliance with the Roofing Application Standard RAS 120.
4. Roof Tile manufactures acquiring acceptance for the use of 3M™ 2-Component Foam Roof Tile Adhesive AH-160 roof tile adhesive with their tile assemblies shall test in accordance with TAS 101.
5. Roof Tile manufactures acquiring acceptance for the use of HANDI-STICK roof tile adhesive with their tile assemblies shall test in accordance with TAS 101 with section 10.4 as modified herein.

$$F' = \frac{\left(\frac{F}{2}\right) - W}{MS}$$



NQA No.: 12-0228,18
 Expiration Date: 05/10/17
 Approval Date: 03/10/12*

INSTALLATION:

1. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 may be used with any roof tile assembly having a current NOA that lists uplift resistance values with the use of 3M™ 2-Component Foam Roof Tile Adhesive AH-160.
2. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall be applied in compliance with the Component Application section and the corresponding Placement Details noted herein. The roof tile assembly's adhesive attachment with the use of 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall provide sufficient attachment resistance, expressed as an uplift based system, to meet or exceed the uplift resistance determined in compliance with Miami-Dade County Roofing Application Standards RAS 127. The adhesive attachment data is noted in the roof tile assembly NOA.
3. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 and its components shall be installed in accordance with Roofing Application Standard RAS 120, and 3M Company's 3M™ 2-Component Foam Roof Tile Adhesive AH-160 Operating Instruction and Maintenance Booklet.
4. Installation must be by a Factory Trained 'Qualified Applicator' approved and licensed by 3M Company. 3M Company shall supply a list of approved applicators to the authority having jurisdiction.
5. Calibration of the Foam Dispenser RTF1000 dispensing equipment is required before application of any adhesive. The mix ratio between the "A" component and the "B" component shall be maintained between 1.0-1.15 (A): 1.0 (B). The dispense timer shall be set to deliver 0.0175 to 0.15 pounds per tile as determined at calibration. No other settings shall be approved.
6. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall be applied with Foam Dispenser RTF1000 or ProPack® 30 & 100 dispensing equipment only.
7. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall not be exposed permanently to sunlight.
8. Tiles must be adhered in freshly applied adhesive. Tile must be set within 2 to 3 minutes after 3M™ 2-Component Foam Roof Tile Adhesive AH-160 has been dispensed.
9. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 placement and minimum patty weight shall be in accordance with the 'Placement Details' herein. Each generic tile profile requires the specific placement noted herein.

Table 1: Adhesive Placement For Each Generic Tile Profile			
Tile Profile	Placement Detail	Single Paddy Weight Min. (grams)	Two Paddy Weight per paddy Min. (grams)
Flat, Low, High Profiles	#1	35	N/A
High Profile (2 Piece Barrel)	#1	17/side on cap and 34/pan	N/A
Flat, Low, High Profiles	#2	24	N/A
Flat, Low, High Profiles	#3		8



NOA No.: 12-0228 J8
 Expiration Date: 05/10/17
 Approval Date: 03/10/12

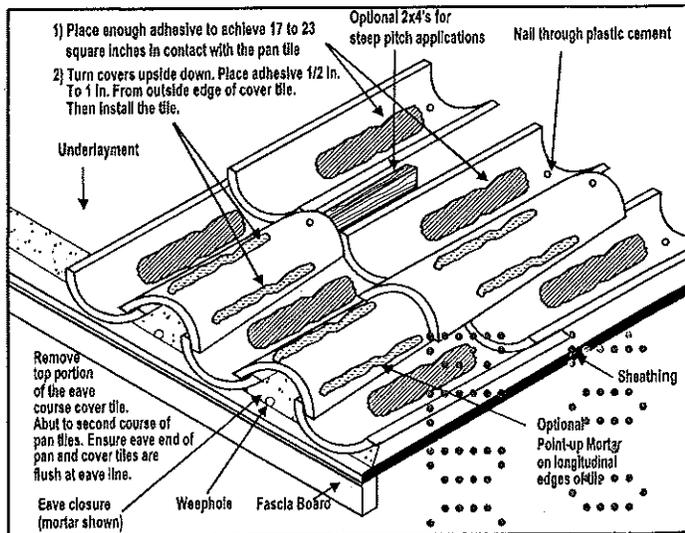
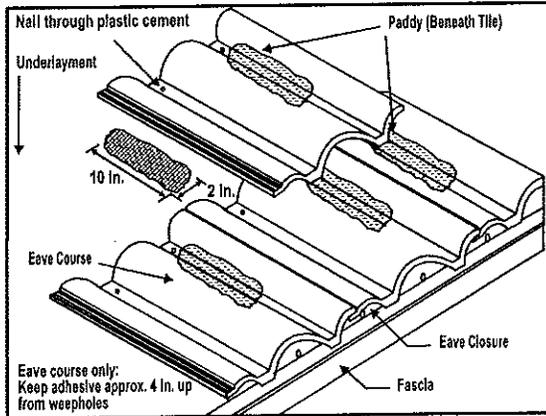
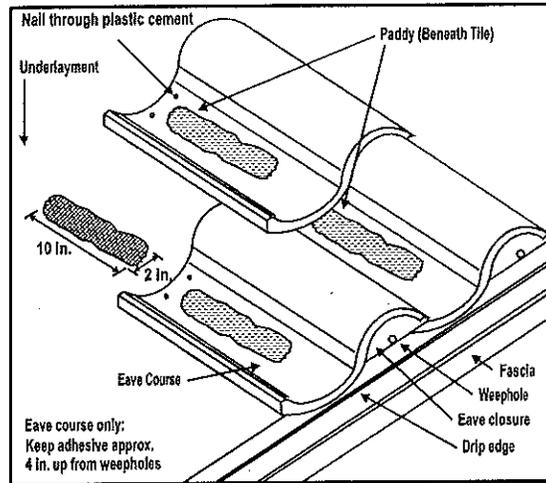
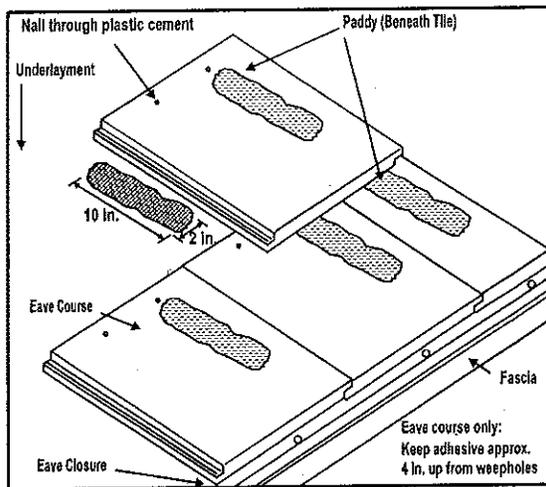
LABELING:

All 3M™ 2-Component Foam Roof Tile Adhesive AH-160 containers shall comply with the Standard Conditions listed herein.

BUILDING PERMIT REQUIREMENTS:

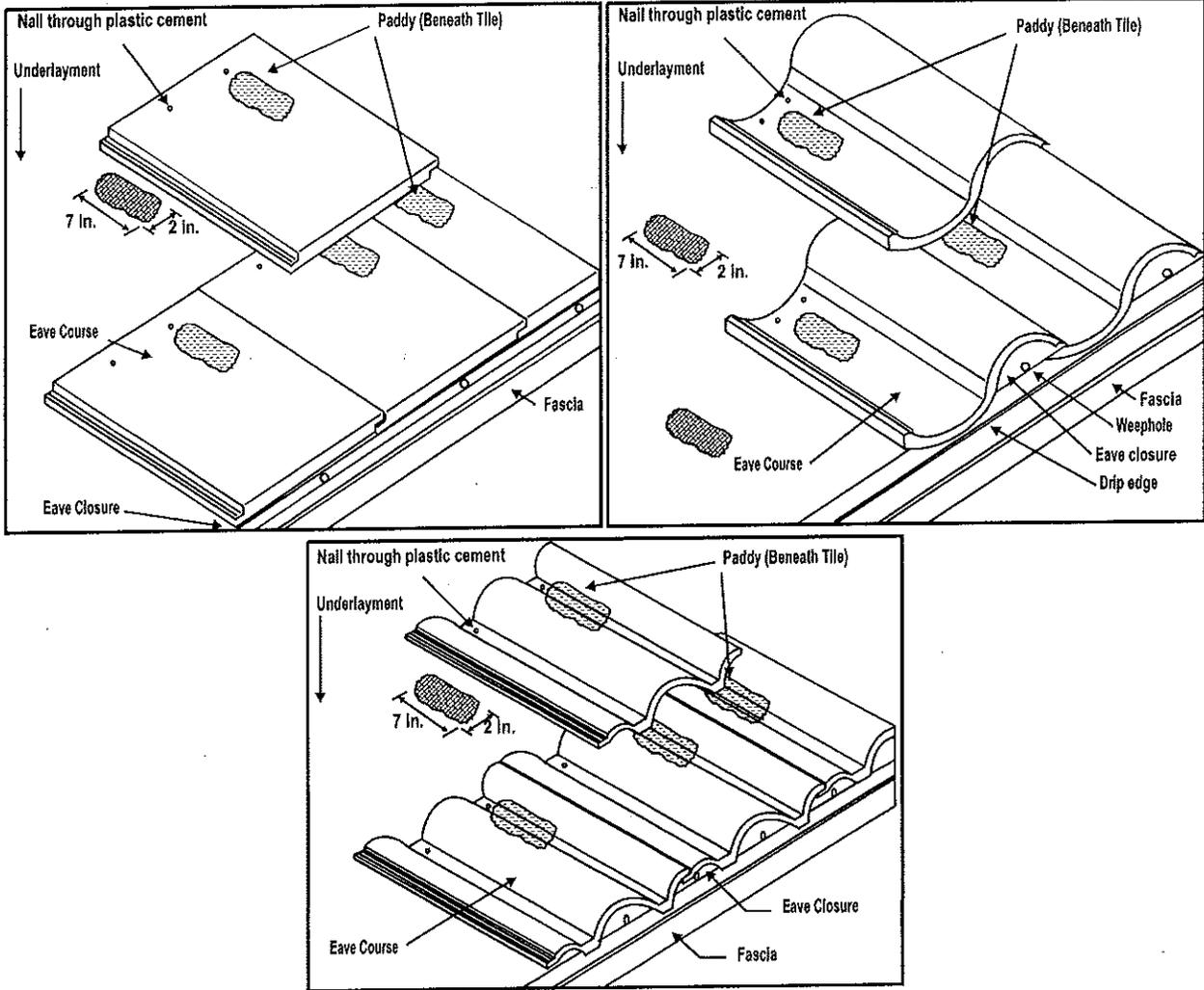
As required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

**ADHESIVE PLACEMENT DETAIL 1
SINGLE PATTY**



NOA No.: 12-0228.18
 Expiration Date: 05/10/17
 Approval Date: 05/10/12
 Page 5 of 7

ADHESIVE PLACEMENT DETAIL 2 SINGLE PATTY



MIAMI DADE COUNTY
APPROVED

NOA No.: 12-0228.18
 Expiration Date: 05/10/17
 Approval Date: 05/10/12
 Page 6 of 7

10-12

Inspection Schedule for aramos
Scheduled for October 17, 2014

Permit#
BRF-2014-1443

Address
16941 SW 83 AVE

Folio
3350340080060

Contractor
CME CONSTRUCTION MANAGEMENT ENTERPRISES II
(786) 488-9876

Master Permit#

Owner
DANIEL C & W MARTHA G BODENSTEIN

Description
REROOF TILE 4300 SQUARE FEET AND FLAT 500 SQUARE FEET TOTAL ROOF 4800 SQUARE FEET

763	INSTALLATION/IN-PROGRESS	9/30/14 3:11 pm	apprve	aramos
736	APPROVED SKYLIGHTS	9/30/14 3:14 pr	cancel	slugo
764	CANCELLED BY AURELIO. NOC INSPECTION WAS DONE INSTEAD. ROOF FINAL	9/30/14 3:13 pr	cancel	slugo
	CANCELLED BY AURELIO. IN PROGRESS WAS DONE INSTEAD			

Type: 700

NOC

Time: 15:12

09/30/2014

Notes: APPROVED

Comments: *OK*

Date: *10/17/14*

Signature: *AK*

Type: 761

TIN CAP/BASE PLY

Time: 15:12

Notes:

Comments: *OK - PREVIOUSLY APPROVED*

Date: *10/17/14*

Signature: *AK*

Inspection Schedule for aramos
Scheduled for October 17, 2014

Permit# BRF-2014-1443 **Address** 16941 SW 83 AVE **Folio** 3350340080060 **Contractor** CME CONSTRUCTION MANAGEMENT ENTERPRISES II (786) 488-9876

Master Permit#

Owner DANIEL C & W MARTHA G BODENSTEIN

Description
REROOF TILE 4300 SQUARE FEET AND FLAT 500 SQUARE FEET TOTAL ROOF 4800 SQUARE FEET

Previous: <u>Action</u>	<u>Description</u>	<u>Complete</u>	<u>Result</u>	<u>Staff</u>
700	NOC	9/9/14 2:17 pm	denied	aruser
700	denied NOC	9/11/14 11:00 ar	denied	aramos
700	denied NOC	9/29/14 4:04 pr	cancel	ahewlett
700	CANCELLED NOC	9/30/14 3:11 pm	apprve	aramos
760	APPROVED SHEATHING AFFIDAVIT MITIGATION REPORT	9/9/14 2:17 pm	denied	aruser
760	denied ar * ah SHEATHING AFFIDAVIT MITIGATION REPORT	9/11/14 11:00 ar	apprve	aramos
761	approved ar a TIN CAP/BASE PLY	9/9/14 2:17 pm	denied	aruser
761	denied not ready ar * ah TIN CAP/BASE PLY	9/11/14 11:00 ar	part	aramos
761	approved partial sloped only ar * ah TIN CAP/BASE PLY	9/29/14 4:04 pr	cancel	ahewlett
762	CANCELLED HOT MOP/ SELF-ADHERING	9/9/14 2:17 pm	denied	aruser
762	denied ar *ah HOT MOP/ SELF-ADHERING	9/30/14 3:12 pr	apprve	aramos
762	APPROVED HOT MOP/ SELF-ADHERING	9/11/14 11:00 ar	apprve	aramos
763	INSTALLATION/IN-PROGRESS	9/11/14 11:00 ar	denied	aramos
763	denied not ready ar * ah INSTALLATION/IN-PROGRESS	9/29/14 4:05 pr	cancel	ahewlett
	CANCELLED			

Inspection Schedule for aramos
Scheduled for October 17, 2014

Permit#

BRF-2014-1443

Address

16941 SW 83 AVE

Folio

3350340080060

Contractor

CME CONSTRUCTION MANAGEMENT ENTERPRISES II
(786) 488-9876

Master Permit#

Owner

DANIEL C & W MARTHA G BODENSTEIN

Description

REROOF TILE 4300 SQUARE FEET AND FLAT 500 SQUARE FEET TOTAL ROOF 4800 SQUARE FEET

Inspection Schedule for aramos
Scheduled for October 17, 2014

Permit# BRF-2014-1443 **Address** 16941 SW 83 AVE **Folio** 3350340080060 **Contractor** CME CONSTRUCTION MANAGEMENT ENTERPRISES II (786) 488-9876
Master Permit# **Owner** DANIEL C & W MARTHA G BODENSTEIN
Description REROOF TILE 4300 SQUARE FEET AND FLAT 500 SQUARE FEET TOTAL ROOF 4800 SQUARE FEET

Type: 762 HOT MOP/ SELF-ADHERING Time: 15:12
09/30/2014 **Notes:** APPROVED
Comments: *AK*
Date: 10/27/14 **Signature:** *AK*

Type: 763 INSTALLATION/IN-PROGRESS Time: 15:12
09/30/2014 **Notes:** APPROVED
Comments: *AK*
Date: 10/27/14 **Signature:** *AK*

Type: 764 ROOF FINAL Time: 15:13
Notes: *AK*
Comments: *AK*
Date: 10/17/14 **Signature:** *AK*

10/17/2014

Inspection Schedule for aramos
Scheduled for October 17, 2014

Permit#
BRF-2014-1443

Address
16941 SW 83 AVE

Folio
3350340080060

Contractor
CME CONSTRUCTION MANAGEMENT ENTERPRISES II
(786) 488-9876

Master Permit#

Owner
DANIEL C & W MARTHA G BODENSTEIN

Description
REROOF TILE 4300 SQUARE FEET AND FLAT 500 SQUARE FEET TOTAL ROOF 4800 SQUARE FEET

Type: 785

ENG P.E LAB TILE UPLIFT TEST

Time: 15:13

Notes:

Comments:

AR

Date:

10/17/14

Signature:

AR

F.I.E.

FLORIDA INTERNATIONAL ENGINEERING
& TESTING LAB
INSIGHT · INNOVATION · INTEGRATION

Florida International Engineering and Testing Lab LLC

16701 SW 117 Avenue, Miami, FL 33177

Telephone: (305) 378-1991-Fax: (305) 378-1997

Miami-Dade Lab Certification # 07-0612.11-State of Florida ca #27273

SITE SPECIFIC INFORMATION

Owner's Name: BODENSTEIN DANIEL G W MARTHA
 Job Address: 16941 SW 23 AVE - PALMETT WAY, FL
 Roofing Contractor: CME CONSTRUCTION MGMT
 Permit Number: PRF-2014-1443 Type of Tile: FLAT 13" - FOAM SET
 Approximate Roof Height: 13 feet Slope: 6:12 Approximate Square Footage: 4,000 ft²
 Type of Access to Roof: Ladder
 Other Required Testing Force: 35 lbs. Testing Equipment: F.G.E. 100x Shimpo Instrument
 Date Installed: 9/30/14 Date of Inspection: 10/14/14

TEST RESULTS

P= PASS, F= FAIL

Test Location	P or F								
1	PASS	21	PASS	41	PASS	61	PASS	81	
2		22		42		62		82	
3		23		43		63		83	
4		24		44		64		84	
5		25		45		65		85	
6		26		46		66		86	
7		27		47		67		87	
8		28		48		68		88	
9		29		49		69		89	
10		30		50		70		90	
11		31		51		71		91	
12		32		52		72		92	
13		33		53		73		93	
14		34		54		74		94	
15		35		55		75		95	
16		36		56		76		96	
17		37		57		77		97	
18		38		58		78		98	
19		39		59		79		99	
20		40		60		80		100	

IN ACCORDANCE WITH THE CRITERIA OF PROTOCOL TAS 106, THIS ROOF ASSEMBLY HAS PASSED THE STATIC UPLIFT QUALITY CONTROL TEST.

ADDITIONAL TEST INFORMATION

Perimeter Width: 5 ft

Area	Units or ft ²	No. of Tests
Perimeter	<u>2500</u>	<u>25</u>
Field	<u>1500</u>	<u>16</u>
Corners	<u>22</u>	<u>22</u>
Hips & Ridges	<u>4180</u>	<u>9</u>

RESPECTFULLY SUBMITTED BY:

Vinayagar M. Balakrishnan V
 State of Florida Lic #63107
 10/16/14

Job Address:

169 41st SW 83 Ave.

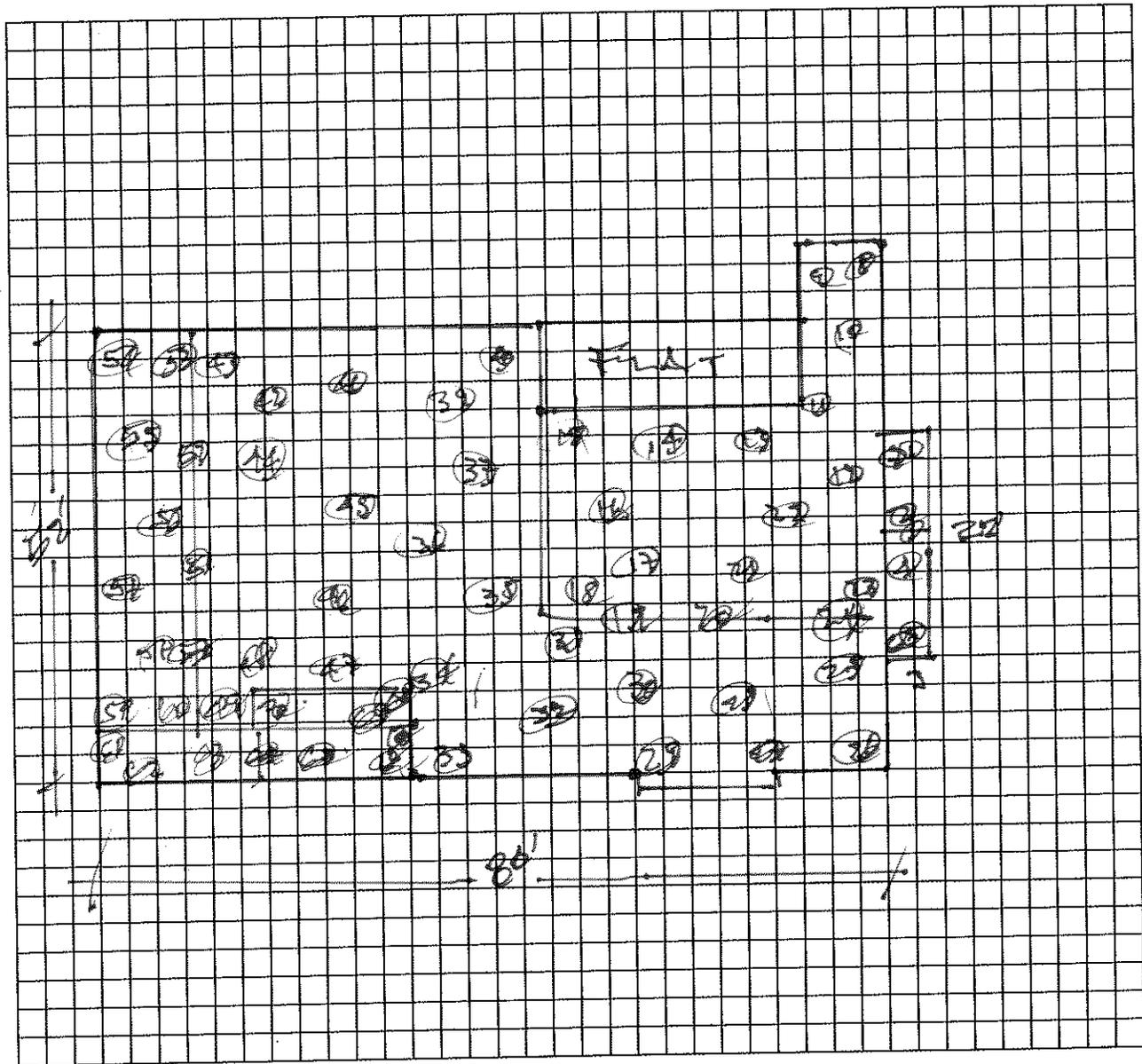
Contractor:

CME CONSTRUCTION

Other:

NTS

Sketch of Roof



Notes

9/30/2014

Inspection Schedule for aramos
Scheduled for September 30, 2014

Permit# BRF-2014-1443 **Address** 16941 SW 83 AVE **Folio** 3350340080060 **Contractor** CME CONSTRUCTION MANAGEMENT ENTERPRISES II (786) 488-9876

Master Permit# **Owner** DANIEL C & W MARTHA G BODENSTEIN

Description
REROOF TILE 4300 SQUARE FEET AND FLAT 500 SQUARE FEET TOTAL ROOF 4800 SQUARE FEET

Previous: <u>Action</u>	<u>Description</u>	<u>Complete</u>	<u>Result</u>	<u>Staff</u>
700	NOC	9/9/14 2:17 pm	denied	aruser
700	denied NOC	9/11/14 11:00 ar	denied	aramos
760	denied SHEATHING AFFIDAVIT MITIGATION REPORT	9/9/14 2:17 pm	denied	aruser
760	denied ar * ah SHEATHING AFFIDAVIT MITIGATION REPORT	9/11/14 11:00 ar	apprve	aramos
761	approved ar a TIN CAP/BASE PLY	9/9/14 2:17 pm	denied	aruser
761	denied not ready ar * ah TIN CAP/BASE PLY	9/11/14 11:00 ar	part	aramos
762	approved partial sloped only ar * ah HOT MOP/ SELF-ADHERING	9/9/14 2:17 pm	denied	aruser
762	denied ar *ah HOT MOP/ SELF-ADHERING	9/11/14 11:00 ar	apprve	aramos
763	INSTALLATION/IN-PROGRESS	9/11/14 11:00 ar	denied	aramos
	denied not ready ar * ah			

Type: 736

~~SKYLIGHTS~~ *NO NOC*

Time: 13:03

Notes:

Comments:

Date:

Signature:

9/30/2014

Inspection Schedule for aramos
Scheduled for September 30, 2014

Permit#
BRF-2014-1443

Address
16941 SW 83 AVE

Folio
3350340080060

Contractor
CME CONSTRUCTION MANAGEMENT ENTERPRISES II
(786) 488-9876

Master Permit#

Owner
DANIEL C & W MARTHA G BODENSTEIN

Description

REROOF TILE 4300 SQUARE FEET AND FLAT 500 SQUARE FEET TOTAL ROOF 4800 SQUARE FEET

Type: 764

~~ROOF FINAL~~

Time: 13:04

Notes:

IN-PROGRESS

Comments:

OK

Date:

9/30/14

Signature:

AK

Type: 785

~~ENG P.E LAB FILE UPLIFT TEST~~

Time: 13:03

Notes:

HOT MOP

Comments:

OK

Date:

9/30/14

Signature:

AK

9/11/2014

Inspection Schedule for aramos
Scheduled for September 11, 2014

Permit# BRF-2014-1443 **Address** 16941 SW 83 AVE **Folio** 3350340080060 **Contractor** CME CONSTRUCTION MANAGEMENT ENTERPRISES II (786) 488-9876

Master Permit# **Owner** DANIEL C & W MARTHA G BODENSTEIN

Description
REROOF TILE 4300 SQUARE FEET AND FLAT 500 SQUARE FEET TOTAL ROOF 4800 SQUARE FEET

Previous: Action	Description	Complete	Result	Staff
700	NOC	9/9/14 2:17 pm	denied	aruser
760	denied SHEATHING AFFIDAVIT MITIGATION REPORT	9/9/14 2:17 pm	denied	aruser
761	denied ar * ah TIN CAP/BASE PLY	9/9/14 2:17 pm	denied	aruser
762	denied not ready ar * ah HOT MOP/ SELF-ADHERING	9/9/14 2:17 pm	denied	aruser
	denied ar *ah			

Type: 700 NOC Time: 08:00

Notes:

Comments: DENIED

Date: 9/11/14 **Signature:** AR

Type: 760 SHEATHING AFFIDAVIT MITIGATION REPORT Time: 08:00

Notes:

Comments: AR

Date: 9/11/14 **Signature:** AR



Sheathing Affidavit/ Secondary Water Barrier (FBC 2004)

Job Address: 16941 SW 83rd Ave Permit No.: BRF-2014-1743

Name of Roofing Company: CME Construction

Name of Qualifier: EDUARDO ROSAS License No.: CCC 057494

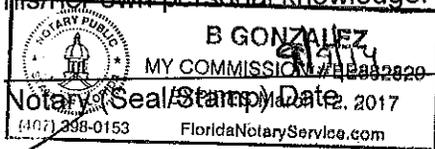
Address: 7405 W 14 CT HIALEAH FL 33014

I, EDUARDO ROSAS, do hereby affirm:
(Print Name of Qualifier)

That I have personally inspected the re-nailing of the existing roof sheathing as required by Florida Building Code (FBC) Section 201.1 for the area covered by the roofing permit referenced above and further state that the re-nailing of the sheathing meets the requirements of the current edition of the Florida Building Code sections FBC Section 201.1. Nail spacing shall be 6 (six) inches on center at panel edges, 6(six) inches on center at intermediate supports, and where applicable 4 (four) inches on center over gable ends and sub-fascia. Existing fasteners may be utilized to achieve such minimum spacing. I also certify that a secondary water barrier that meets the requirements of F.B.C. Section 201.2 been achieved and hereby provide the accompany photos for verification.

[Signature] 9/9/14
Qualifier/Contractor Signature * Date

EDUARDO ROSAS, having first been duly sworn, does affirm
(Print Name of Qualifier/ Contractor) the statement above to be true and correct by
his/her own personal knowledge.



- Personally Known to me
- Produced photo ID- Type of ID _____

* An Owner/Builder acting as contractor is considered the qualifier for this code.

9/29/2014

Inspection Schedule for aramos
Scheduled for September 29, 2014

Permit# BRF-2014-1443
Address 16941 SW 83 AVE
Folio 3350340080060
Contractor CME CONSTRUCTION MANAGEMENT ENTERPRISES II (786) 488-9876
Master Permit#
Owner DANIEL C & W MARTHA G BODENSTEIN
Description REROOF TILE 4300 SQUARE FEET AND FLAT 500 SQUARE FEET TOTAL ROOF 4800 SQUARE FEET

Previous: Action	Description	Complete	Result	Staff
700	NOC	9/9/14 2:17 pm	denied	aruser
	denied			
700	NOC	9/11/14 11:00 ar	denied	aramos
	denied			
760	SHEATHING AFFIDAVIT MITIGATION REPORT	9/9/14 2:17 pm	denied	aruser
	denied ar * ah			
760	SHEATHING AFFIDAVIT MITIGATION REPORT	9/11/14 11:00 ar	apprve	aramos
	approved ar a			
761	TIN CAP/BASE PLY	9/9/14 2:17 pm	denied	aruser
	denied not ready ar * ah			
761	TIN CAP/BASE PLY	9/11/14 11:00 ar	part	aramos
	approved partial sloped only ar * ah			
762	HOT MOP/ SELF-ADHERING	9/9/14 2:17 pm	denied	aruser
	denied ar *ah			
762	HOT MOP/ SELF-ADHERING	9/11/14 11:00 ar	apprve	aramos
	denied not ready ar * ah			
763	INSTALLATION/IN-PROGRESS	9/11/14 11:00 ar	denied	aramos

Type: 700 NOC Time: 08:00

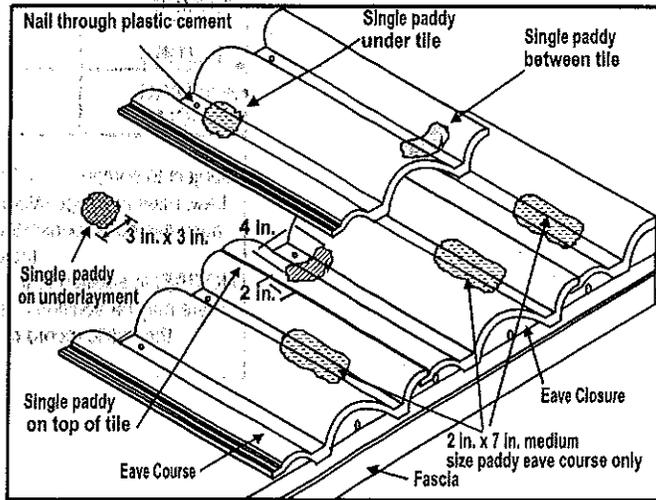
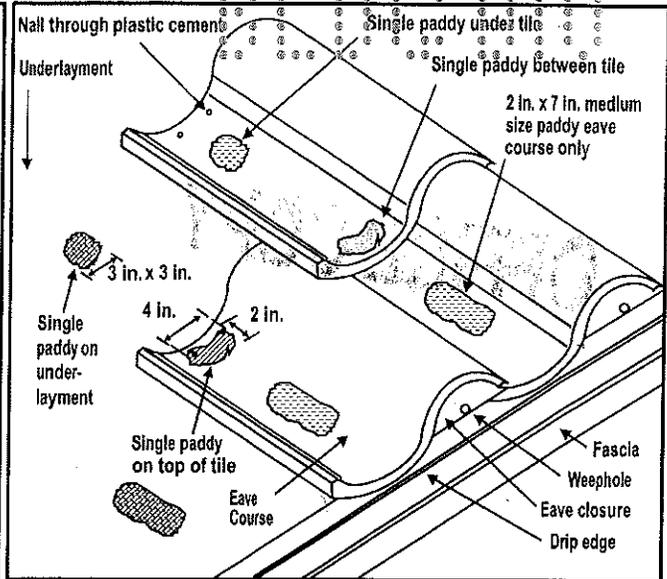
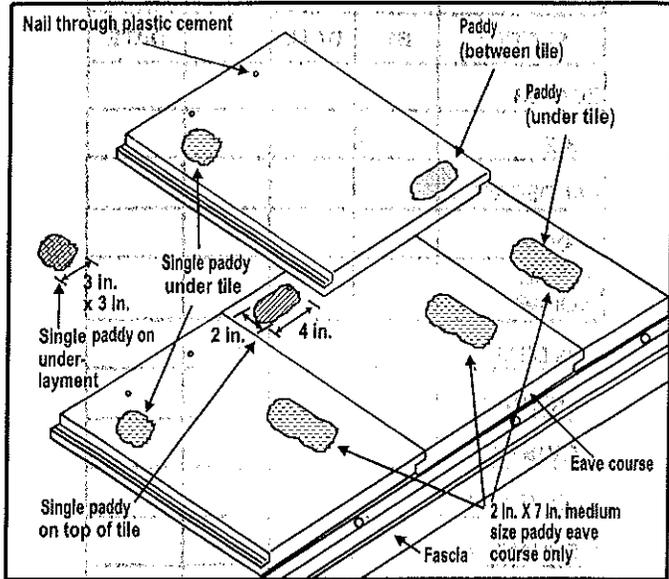
Notes:

Comments:

Date:

Signature:

ADHESIVE PLACEMENT DETAIL 3² DOUBLE PATTY



END OF THIS ACCEPTANCE



NOA No.: 12-0228.18
 Expiration Date: 05/10/17
 Approval Date: 05/10/12
 Page 7 of 7