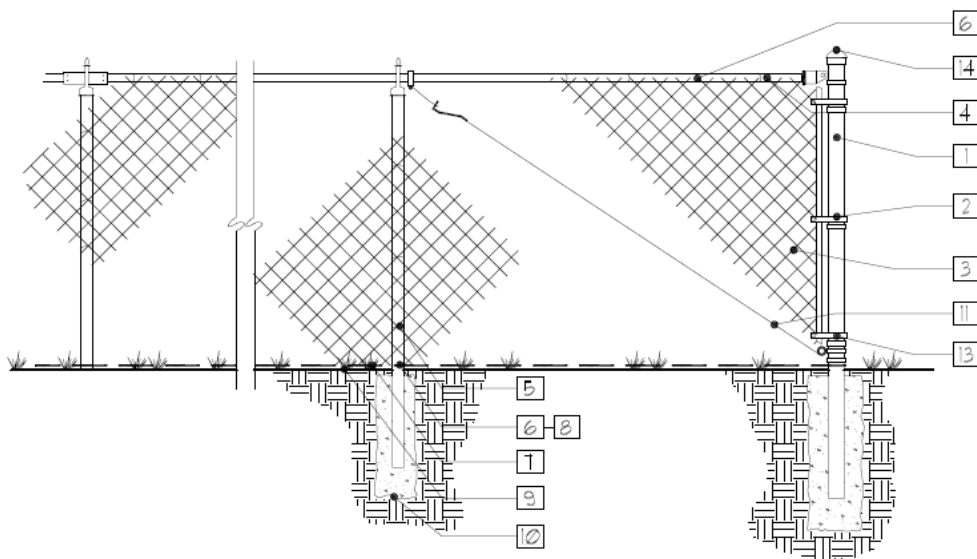


# STANDARD CHAIN LINK FENCE DESIGN DETAIL



1. Terminal Post ( refer to chart for minimum size )
2. Tension Bands ( maximum spacing 12" on center )
3. Wire Fabric minimum 12 1/2 gage. ( see pool note for wire spacing on pools)
4. Top Rail ( minimum 1 5/8" x .047
5. Line Post- Refer to chart for minimum size
6. Wire Fabric Ties at top rail (minimum 5 ties between posts )
7. Bottom Tension wire minimum 7 gage.
8. Wire Fabric Ties minimum at 12" on center
9. Maximum clear spacing allowed at bottom 2"
10. Footing Size ( refer to chart for minimum required sizing )
11. Optional Truss Rod
12. Optional Draw Bar
13. Post Cap
14. Fence Height ( refer to chart for height requirements )  
 Fences taller than 72" from average finish grade require a zoning hearing.  
 Fences taller than 144" from average finish grade shall be engineered for wind loads.

## CHAIN LINK FENCE MINIMUM REQUIREMENTS

Fence Height (ft)	Terminal Post Dimensions (in inches) (o.d. x wall thickness)	Line Post Dimensions (o.d. x wall thickness) (in inches)	Terminal Post Concrete Foundation Size (diameter x depth) (in inches)	Line Post Concrete Foundation Size (diameter x depth) (in inches)
Up to 4	2 3/8 x 0.042	1 5/8 x 0.047	10 x 24	8 x 24
Over 4 to 5	2 3/8 x 0.042	1 7/8 x 0.055	10 x 24	8 x 24
Over 5 to 6	2 3/8 x 0.042	1 7/8 x 0.065	10 x 24	8 x 24
Over 6 to 8	2 3/8 x 0.110	2 3/8 x 0.095	10 x 36	10 x 36
Over 8 to 10	2 7/8 x 0.110	2 3/8 x 0.130	12 x 40	10 x 40
Over 10 to 12	2 7/8 x 0.160	2 7/8 x 0.120	12 x 42	12 x 42

1. This table is applicable only to fences with unrestricted airflow.
2. Braces must be used at terminal posts if top tension wire is used instead of top rail.
3. Post spacing: 10 foot (3 m) on center maximum.
4. Posts shall be embedded to within 6 inches (152 mm) from the bottom of the foundation.

# Using Chain Link Fences as Pool Barrier

Fences that are designated for use as part of the pool barrier must meet the following sections of the Florida Building Code: Sections [454.2.17.1](#) through [454.2.17.3](#).

**454.2.17.1.1** The top of the barrier shall be at least 48 inches (1219 mm) above grade measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade the barrier may be at ground level or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).

**454.2.17.1.2** The barrier may not have any gaps, openings, indentations, protrusions, or structural components that could allow a young child to crawl under, squeeze through, or climb over the barrier as herein described below. One end of a removable child barrier shall not be removable without the aid of tools.

Openings in any barrier shall not allow passage of a 4-inch diameter (102 mm) sphere.

**454.2.17.1.6** Maximum mesh size for chain link fences shall be a 2 ¼ inch (57 mm) square unless the fence is provided with slats fastened at the top or bottom which reduce the openings to no more than 1¾ inches (44 mm).

**454.2.17.1.8** Access gates, when provided, shall be self-closing and shall comply with the requirements of Sections [454.2.17.1.1](#) through [454.2.17.1.7](#) and shall be equipped with a self-latching locking device located on the pool side of the gate. Where the device release is located no less than 54 inches (1372 mm) from the bottom of the gate, the device release mechanism may be located on either side of the gate and so placed that it cannot be reached by a young child over the top or through any opening or gap from the outside. **Gates that provide access to the swimming pool must open outward away from the pool.** The gates and barrier shall have no opening greater than ½ inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

## Maximum Fence Height Allowed

The height of a wall, hedge or fence shall be the vertical distance measured from the average elevation of the finished building site to the top of the wall, hedge or fence. The average elevation shall be measured along both sides of the wall, hedge or fence line. Virgin land may not be increased or decreased to affect the permitted (or required) height of a wall, hedge or fence unless the entire building site is graded to even out the level of the site or to increase it to the required Miami-Dade County flood criteria elevation. **Average elevation shall be determined by taking elevations along both sides of the wall, hedge or fence line, at five-foot intervals and totaling the same and then dividing the total by the number of stations at which the elevations were taken**". The maximum height allowed is 6 feet above this average.

## Fence Application Requirements:

- Building Permit Application** indicating the type & height of fence. Job Value and lineal feet of fence to be indicated in spaces provided.
- One Survey** showing the dimensions of the property, the type and height of fence, and location of the fence on the property. Indicate the location by placing small x's using a black fine point pen showing where the fence will be placed. Please show location of all gates and show the gate swing
- Property Lines:** Fences may be placed on the property line. If fences are not on property line indicate the setback from the property lines
- Notice to Owner for Utility Easements** if fence is to be placed in a Utility Easement shown as U.E. on your survey.
- Fences on a lake or canal** will require a permit from SOUTH FLORIDA WATER MANAGEMENT.
- Homeowner Association** approval letter will be required if applicable.
- Owner-builder affidavit** is required if project is to be done by the homeowner
- Affidavit of Survey** is required if survey is older than one year.
- Proof of Ownership** is required. (Recorded warranty deed or property tax statement)
- Homeowner** must appear in person if owner builder.

## Fence Application Required Reviews:

- Zoning review
- Building review
- Structural review if fence is taller than 144 inches

## Required Inspections:

- Foundation inspection on fences taller than 144 inches only
- Final inspection by Zoning Inspector
- Final inspection by Building Inspector (Note zoning must approve prior to Building Inspection)

## Attached Forms:

- Permit Application
- Affidavit of Survey
- Section 33-11 of the Zoning Code Safe Sight Distance Triangle
- Notice to Owner for Utility Easement

The requirements noted above are based on the most common for this type of construction. Other requirements may be required because of the specific conditions of your project. Some of the requirements noted above may not apply to your project. The Village of Palmetto Bay Building Division makes every effort to keep guideline information current; however, Code Section numbering changes, Code amendments, or Formal Interpretations by the State or the Dade County Board of Rules and Appeals may be approved from time to time and modifications to the information noted above may become necessary. The information noted above is intended to help designers and property owners; however, permit applicants are responsible for the content of the documents submitted. Deed restrictions and homeowners associations (HOA) may require additional requirements or requirements that may conflict with those noted above. Be sure to check for your deed restrictions and HOA requirements to avoid unnecessary construction or legal costs.