



City of Pembroke Pines

SUPPLEMENTAL ROOF APPLICATION FOR HURRICANE MITIGATION AS PER FLORIDA STATUTE 553.844

SINGLE FAMILY HOUSES

Job address _____

Year house was built _____ Insured or taxation value \$ _____
(Building only)

Method of Secondary Water Barrier _____

If required*, Method of roof to wall remediation _____

*If house or addition was built under the Code prior to March 1, 2002 and the value of the building is greater than \$300,000.

Note: Any work done to wall-to-roof connection shall be under a separate application by a licensed General Contractor, Building Contractor, or Residential Contractor, or persons certified under FS 468

City of Pembroke Pines

REQUIREMENTS FOR SUPPLEMENTAL FASTENERS AND SECONDARY WATER BARRIER

Florida Existing Building Code

201.1 RENAILING REQUIREMENTS:

Table 201.1 - (HVHZ)
Supplemental Fasteners at Panel Edges and Intermediate Framing

Existing Fasteners	Existing Spacing	Wind speed greater than 110 mph supplemental fasteners shall be no greater than
Staples or 6d	Any	6" o.c. b
8d clipped head, round head, or ring shank	6" or less	None necessary
8d clipped head or round head	Greater than 6" o.c.	6" o.c. b
8d round head ring shank	Greater than 6" o.c.	6" o.c. a

[Per FBC 2322.2.8, minimum nail spacing shall be 4" O.C. at perimeter edge.]

- a. Maximum spacing determined based on existing fasteners and supplemental fasteners.
- b. Maximum spacing determined based on supplemental fasteners only.

201.2 ROOF SECONDARY WATER BARRIER FOR SITE-BUILT SINGLE FAMILY RESIDENTIAL STRUCTURES:

A secondary water barrier shall be installed using one of the following methods when re-roofing:

- a) All joints in roof sheathing or decking shall be covered with a minimum 4 inch wide strip of minimum 40 mil. self-adhering polymer modified bitumen tape applied directly to the sheathing or decking. The deck and adhering polymer bitumen tape shall be covered with one of the underlayment systems approved for the particular roof covering to be applied to the roof.
- b) An asphalt impregnated 30# felt underlayment installed with nails and tin tabs as required for the HVHZ and covered with either an approved self-adhering polymer modified bitumen cap sheet or an approved cap sheet using an approved hot-mop application shall be deemed to meet the requirements for the secondary water barrier.



City of Pembroke Pines

ROOF TO WALL CONNECTION AFFIDAVIT*

Permit Number: _____ Job Number: _____

(Above numbers can be found on permit card) Lot _____ Block _____ & Subdivision _____

Name of Company: _____

Address: _____

City/State/Zip: _____

Contact Number: _____

Name of Qualifier (Print) _____

License Number: _____

I, _____, do hereby affirm:

That I have personally inspected the roof to wall connections as required by the Florida Existing Building Code section 101.2 for the roofing permit referenced above and further state that the connections comply with one or more of the following prescriptive methods. Initial one or all that apply:

- _____ Roof complies, no alterations needed
- _____ Connections by engineered design, sealed copy attached.
- _____ 201.3.1 Prescriptive method for gable roofs on a wood frame wall
- _____ 201.3.2 Prescriptive method for gable roofs on a masonry wall
- _____ 201.3.3 Prescriptive method for hip roofs on a wood frame wall
- _____ 201.3.4 Prescriptive method for hip roofs on a masonry wall

101.2 When a roof covering is replaced on a building that is located in the wind borne region as defined in s.1609.2 of the Florida Building code, and that has an insured value of \$300,000 or more or, if the building is uninsured or for which documentation of insured value is not present, has a just valuation for the structure for purpose of ad valorem taxation of \$300,000 or more:

- a) Roof to wall connections shall be improved as required by 201.3
- b) Mandated retrofits of roof-to-wall connection shall not be required beyond 15% of the cost of the roofing.
- c) Where complete retrofits of all the roof-to-wall connections as prescribed in Section 201.3 would exceed 15% of the cost of the re-roofing project, the priorities outlined in Section 201.3.5 shall be used to limit the scope of work to the 15% limit.

*Inspection for this purpose shall only to be done by a licensed General, Residential, or Building Contractor, or may be done by a registered Architect or Engineer, or persons certified under FS 468.

Qualifier/Contractor - Signature _____ Date: _____

State) of Florida
County) of Broward

SWORN to and subscribed before me this _____ day of _____, _____ by _____

_____, who is known to me or who presented as ID _____

Notary Public, State of Florida



City of Pembroke Pines

ROOF TO WALL CONNECTIONS FOR SITE-BUILT SINGLE FAMILY RESIDENTIAL STRUCTURES GUIDELINES

201.3 Where required by section 101.2, the intersection of roof framing with the wall below shall be strengthened by adding metal connectors, clips, straps, and fasteners such that the performance level equals or exceeds the uplift capacities as specified in table 201.3. As an alternative to an engineered design, the prescriptive retrofit solutions provided in Section 201.3.1 through 201.3.4 below shall be accepted as meeting the mandated roof-to-wall retrofit requirements.

201.3.1 Prescriptive method for gable roofs on a wood frame wall. Sufficient eave sheathing shall be removed to expose a minimum of 6-feet of framing members, measured from the corner, along the exterior wall on each side of each gable end. The anchorage of each of the exposed rafters or truss shall be inspected. Wherever a strap is missing or an existing strap has less than 4 fasteners on each end, approved straps, ties or right angle gusset brackets with a minimum uplift capacity of 500 lbs. shall be installed that connect each rafter or truss to the top plate below. Adding fasteners to existing straps shall be allowed in lieu of adding a new strap providing the strap is manufactured to accommodate at least 4 fasteners. Wherever access makes it possible (without damage to the wall or soffit finishes), both top plate members shall be connected to the stud below using a stud to plate connector with a minimum uplift capacity of 500 lbs.

201.3.2 Prescriptive method for gable roofs on a masonry wall. Sufficient eave sheathing shall be removed to expose a minimum of 6-feet of framing members, measured from the corner, along the exterior wall on each side of each gable end. The anchorage of each of the exposed rafters or truss shall be inspected. Wherever a strap is missing or an existing strap has less than 4 fasteners on each end, approved straps, ties or right angle gusset brackets with a minimum uplift capacity of 500 lbs. shall be installed that connect each rafter or truss to the top plate below or directly to the masonry wall using approve masonry screws that will provide at least a 2- ½ inch embedment into the concrete or masonry. When the straps or right angle gusset brackets are attached to a wood sill plate, the sill plate shall be anchored to the concrete masonry wall below. This anchorage shall be accomplished by installing ¼ inch diameter masonry screws, each with supplementary ¼ -inch washer, having sufficient length to develop a 2 ½ inch embedment into the concrete or masonry. These screws shall be installed within 4 inches of the truss or rafter on both sides of each interior rafter or truss and on the accessible wall side of the gable end truss or rafter.

201.3.3 Prescriptive method for hip roofs on a wood frame wall. Sufficient corner eave sheathing shall be removed from the side of the hip ridge parallel to the roof ridge to provide access to a minimum 6-foot length of the exterior wall. The hip ridge board and any exposed rafters that are not anchored with a strap having at least 4 fasteners on each end, shall be connected to the top plate below using a strap or right angle gusset bracket having a minimum uplift capacity of 500 lbs. Adding fasteners to existing straps shall be allowed in lieu of adding a new strap providing the strap is manufactured to accommodate at least 4 fasteners. Wherever access makes it possible (without damage to the wall or soffit finishes), both top plate members shall be connected to the stud below using a stud to plate connector with a minimum uplift capacity of 500 lbs.

201.3.4 Prescriptive method for hip roofs on a masonry wall. Sufficient corner eave sheathing shall be removed from the side of the hip ridge parallel to the roof ridge to provide access to a minimum 6-foot length of the exterior wall. The hip ridge board and any exposed rafters that are not anchored with a strap having at least 4 fasteners on each end, shall be connected to the concrete wall below using a strap or right angle gusset bracket having a minimum uplift capacity of 500 lbs. Adding fasteners to existing straps shall be allowed in lieu of adding a new strap providing the strap is manufactured to accommodate at least 4 fasteners at each end. The straps or right angle gusset bracket shall be installed such that they connect each rafter or truss to the top plate below or directly to the masonry wall using approved masonry screws that will provide at least a 2- ½ inch embedment into the concrete or masonry. When the straps or right angle gusset brackets are attached to a wood sill plate, the sill plate shall be anchored to the concrete masonry wall below. This anchorage shall be accomplished by installing ¼ inch diameter masonry screws, each with supplementary ¼ -inch washer, having sufficient length to develop a 2 ½ inch embedment into the concrete or masonry. These screws shall be installed within 4 inches of the truss or rafter on both sides of each interior rafter or truss and on the accessible wall side of the truss or rafter.

201.3.5 Priorities for mandated roof to wall retrofit expenditures. For houses with both hip and gable roof ends, the priority shall be to retrofit the gable end roof-to-wall connections unless the width of the hip end is more than 1.5 times greater than the width of the gable end. Priority shall be given to connection the corners of roofs to walls below where the spans of the roofing members are greatest.