

RE-ROOFING MITIGATION PACKAGE

1 & 2 Family Residential

To be filled out and included with all 1 & 2 Family Residential Re-Roofing applications.

Property Address: _____ Permit Number: _____

For the purpose of this document, sections cited are from Florida Building Code Sixth Edition (2017), Existing Building.

Secondary Water Barrier: Section 706.7.2

A secondary water barrier shall be installed using one of the following methods when roof covering is removed and replaced:

FOR: Asphalt shingles, Metal roof shingles, Mineral-surfaced roll roofing, Slate and slate type shingles, Wood shingles, Wood shakes, Metal roof panels, Photovoltaic Shingles:

Outside the High-Velocity Hurricane Zone (Collier County). *(Please CHECK 1, 2, or 3 below, to indicate the underlayment according to the attached FBC Res 6th Ed. Ch9 Table R905.1.1.):*

 1 **2** **or** **3** Underlayment shall comply with Section R905.1.1 of the Florida Building Code, Residential.

Specify Secondary Water Barrier: _____ / _____
Manufacturer Product Approval Number

Roofing Covering Materials: _____ / _____
Manufacturer Product Approval Number

FOR: Clay or Concrete Tile

 Shall comply with the manufacturer instructions or the FRSA/TRI Florida High Wind Concrete and
 (Initials) Clay Roof Tile Installation Manual, 5th Edition.

Specify Secondary Water Barrier: _____ / _____
Manufacturer Product Approval Number

Roofing Covering Materials: _____ / _____
Manufacturer Product Approval Number

FOR: Reinstallation of materials 706.5

 Existing slate, clay or cement tile shall be permitted for reinstallation, except that damaged, cracked
 (Initial) or broken slate or tile shall not be reinstalled.

Re-Roofing Mitigation Package

Roof Diaphragm

Contractor acknowledges that as required by Florida Building Code Sixth Edition (2017), Existing Building Sections 706.7.1, 706.7.2, 706.8, the structure will be evaluated and noted within Re-roof affidavit.

Roof to wall connections: FBC-E Section 706.8

1. Was the building permit for the home construction applied for on or after September 14, 1993?
 - a. YES ____ NO ____
2. If the answer to question number 1 is YES, then proceed to signature and permit submittal. (Documentation is required substantiating this application).
3. If the answer to question number 1 is NO, applicant must provide documentation for the value of the building (*indicate type provided below*):
 - a. ____ Copy of current home insurance summary sheet
 - b. ____ Copy of latest tax bill or Property Appraiser office webpage for the home

Note: the appraised value of the improvement determines the threshold amount.
4. Based on documentation provided, is the value of the building \$300,000 or more?
 - a. YES ____ NO ____
5. If the answer to question 4 is NO, proceed to signature and permit submittal.
6. If the answer to question 4 is YES, then, will evaluation and connections at prioritized and non-prioritized areas be completed for 15% of the cost of roof replacement? YES ____ NO ____
(Hurricane Retro-fit affidavit will be required per FBC-E section 706.8 prior to Certificate of Completion and retro-fit contractor shall be noted on permit)
7. If the answer to question 6 is NO, provide documentation of the cost of evaluation/installation and indicate "prioritized" areas in which will be enhanced up to 15% of roof replacement, See 8(a) for additional requirements.
NOTICE: This documentation will be reviewed for appropriateness, since prescriptive methods of mitigating roof to wall connections provide necessary designs to accomplish roof to wall connection improvements. Misrepresentation of information above may be construed as a willful code violation.
8. An additional 15% of the cost of the re-roofing must be spent on enhanced connections, but the mitigation is not required to exceed that. The roof to wall connections must be enhanced to comply with FBC-E section 706.8. The priorities for upgrading are outlined in section 706.8.1.7. At least 15% shall be provided to the prioritized elements.
 - a. These items are required to be submitted:
 - i. Permit description to include notation that Mitigation Retro-fit will be installed (Retro-fit work to be conducted by a residential, building or general contractor)
 - ii. Sub affirmation form for contractor whom will install retro-fit components
 - iii. A plan indicating areas to be retro-fitted, connectors used, and fastener requirements.
 - iv. Hurricane Mitigation Affidavit.
 - v. Any applicable documentation specified above.

Signature of Qualifier/Owner Builder/
Authorized Agent

Print Name of Qualifier/Owner Builder/
Authorized Agent

Date

2017 Florida Building Code - Residential, Sixth Edition
CHAPTER 9
ROOF ASSEMBLIES
SECTION R905
REQUIREMENTS FOR ROOF COVERINGS

<https://codes.iccsafe.org/public/document/FRC2017/chapter-9-roof-assemblies>

R905.1.1 Underlayment.

Unless otherwise noted underlayment for asphalt shingles, metal roof shingles, mineral-surfaced roll roofing, slate and slate-type shingles, wood shingles, wood shakes and metal roof panels shall conform to the applicable standards listed in this chapter. Underlayment materials required to comply with ASTM D226, D1970, D4869 and D6757 shall bear a label indicating compliance to the standard designation and, if applicable, type classification indicated in Table R905.1.1. Underlayment shall be applied and attached in accordance with Table R905.1.1.

Exception: A reinforced synthetic underlayment that is approved as an alternate to underlayment complying with ASTM D226 Type II and having a minimum tear strength in accordance with ASTM D1970 or ASTM D4533 of 20 pounds shall be permitted. This underlayment shall be installed and attached in accordance with the underlayment attachment methods of Table R905.1.1 for the applicable roof covering and slope, except metal cap nails shall be required where the ultimate design wind speed, V_{ult} , equals or exceeds 150 mph.

Table R905.1.1(1) Underlayment Types.

Reserved.

TABLE R905.1.1
UNDERLAYMENT TABLE

Roof Covering Section	Roof Slope 2:12 and Less Than 4:12 Underlayment	Underlayment Attachment ^a	Roof Slope 4:12 and Greater Underlayment	Underlayment Attachment ^a
Asphalt shingles R905.2	ASTM D226 Type I or IIASTM D4869 Type II, III or IVASTM D6757	1	ASTM D226 Type IIASTM D4869 Type IVASTM D6757	2
	ASTM D1970	3	ASTM D1970	3
Concrete and Clay Tile R905.3	See Section R905.3.3			
Metal roof shingles R905.4	ASTM D226 Type I or IIASTM D4869 Type II, III or IVASTM D6757	1	ASTM D226 Type IIASTM D4869 Type IV	2
	ASTM D1970	3	ASTM D1970	3
Mineral-surfaced roll roofing R905.5	ASTM D226 Type I or IIASTM D4869 Type II, III or IVASTM D6757	1	ASTM D226 Type IIASTM D4869 Type IV	2
	ASTM D1970	3	ASTM D1970	3
Slate and slate-type shingles R905.6	ASTM D226 Type I or IIASTM D4869 Type II, III or IVASTM D6757	1	ASTM D226 Type IIASTM D4869 Type IV	2
	ASTM D1970	3	ASTM D1970	3

Roof Covering Section	Roof Slope 2:12 and Less Than 4:12 Underlayment	Underlayment Attachment ^a	Roof Slope 4:12 and Greater Underlayment	Underlayment Attachment ^a
Wood shingles R905.7	ASTM D226 Type I or IIASTM D4869 Type II, III or IV	1	ASTM D226 Type IIASTM D4869 Type IV	2
Wood shakes R905.8		Limited to roof slopes 4:12 and Greater	ASTM D226 Type IIASTM D4869 Type IV	2
Metal roof panels R905.10	ASTM D226 Type I or IIASTM D4869 Type II, III or IVASTM D6757	1	ASTM D226 Type IIASTM D4869 Type IVASTM D6757	2
	ASTM D1970	3	ASTM D1970	3
Photovoltaic Shingles R905.17	ASTM D226 Type I or IIASTM D4869 Type II, III or IVASTM D6757	1	ASTM D226 Type IIASTM D4869 Type IVASTM D6757	2
	ASTM D1970	3	ASTM D1970	3

^aUnderlayment Attachment

1. Roof slopes from two units vertical in 12 units horizontal (17-percent slope), and less than four units vertical in 12 units horizontal (33-percent slope). Apply a 19-inch (483 mm) strip of underlayment felt parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inchwide (914 mm) sheets of underlayment, overlapping successive sheets 19 inches (483 mm), end laps shall be 6 inches and shall be offset by 6 feet. The underlayment shall be attached to a nailable deck with corrosion-resistant fasteners with one row centered in the field of the sheet with a maximum fastener spacing of 12 inches (305 mm) o.c., and one row at the end and side laps fastened 6 inches (152 mm) o.c. Underlayment shall be attached using metal or plastic cap nails with a nominal cap diameter of not less than 1 inch. Metal caps shall have a thickness of not less than 32-gage sheet metal. Power-driven metal caps shall have a minimum thickness of 0.010 inch. Minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.083 inch for ring shank cap nails and 0.091 inch for smooth shank cap nails. Cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than $\frac{3}{4}$ inch into the roof sheathing.
2. Roof slopes of four units vertical in 12 units horizontal (33-percent slope) or greater. Underlayment shall be applied shingle fashion, parallel to and starting from the eave and lapped 4 inches (51 mm), end laps shall be 6 inches and shall be offset by 6 feet. The underlayment shall be attached to a nailable deck with two staggered rows in the field of the sheet with a maximum fastener spacing of 12 inches (305 mm) o.c., and one row at the end and side laps fastened 6 inches (152 mm) o.c. Underlayment shall be attached using metal or plastic cap nails with a nominal cap diameter of not less than 1 inch. Metal caps shall have a thickness of not less than 32-gage sheet metal. Power-driven metal caps shall have a minimum thickness of 0.010 inch. Minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.083 inch for ring shank cap nails and 0.091 inch for smooth shank cap nails. Cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than $\frac{3}{4}$ inch into the roof sheathing.
3. Roof slopes from two units vertical in 12 units horizontal (17-percent slope) and greater. The entire roof deck shall be covered with an approved self-adhering polymer modified bitumen underlayment complying with ASTM D1970 installed in accordance with both the underlayment manufacturer's and roof covering manufacturer's installation instructions for the deck material, roof ventilation configuration and climate exposure for the roof covering to be installed.

Exception: A minimum 4-inch-wide (102 mm) strip of self-adhering polymer-modified bitumen membrane complying with ASTM D1970, installed in accordance with the manufacturer's instructions for the deck material, shall be applied over all joints in the roof decking. An approved underlayment in accordance with Table R905.1.1 for the applicable roof covering shall be applied over the entire roof over the 4-inch-wide (102 mm) membrane strips.