



Roofers Application Packet

Development Services - **Building Division**

Revision: 1.0

I.D. Number: 013.1

Revision Date: 11/1/2018

Print Date: 11/1/2018

On January 1, 2018, the building code for Broward County changed from the 2014 Florida Building Code 5th Edition to the 2017 Florida Building Code 6th Edition with High Velocity Hurricane Zone Requirements. The following is a brief summary of the changes for Roofing:

- Roofing requirements will be from Chapter 15 of the 2017 Florida Building Code 6th Edition and the supplemental "Test Protocols for High Velocity Hurricane Zones."
- The High Velocity Hurricane Zone Uniform Permit Application" form is required for every permit issued. See attachment.
- All roofing work shall be in accordance with Dade County Notices of Acceptance and Roof Application Standards (R.A.S.)
- Other components such as roof vents and skylights must have Notice of Acceptance at time of permit.
- All re-roofs require an "Owner Notification for Roofing Considerations" form completed at time of permit. See attachment.
- Tile roofing permits require uplift calculations using method 1, 2 or 3 of Section E in the Uniform Permit Application.
- All nails used for roofing are to be ring shank and meet ASTM G85 standards for corrosion resistance.
- All tile roofs require an uplift test to be performed before final approval.
- Cap sheet in progress inspections are required for all deck types.
- Shingle roofs cannot be applied to roofs over 33 feet in mean height unless allowed by N.O.A.
- The only prescriptive roof system shall be in accordance with R.A.S. 150 "Built-up Roof Standard."

You will need to purchase a copy of the 2017 Florida Building Code 6th Edition and "Test Protocols for High Velocity Hurricane Zones" to understand all requirements.



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SECTION 1524 HIGH-VELOCITY HURRICANE ZONES- 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 initial in the designated space indicates that the item had been explained.

1. Aesthetics – workmanship. Reserved
2. Re-nailing wood decks. When replacing roofing, the existing wood roof deck may have to be re-nailed in accordance with the current provisions of Chapter 16 (High Velocity Hurricane Zones) of the Florida Building Code, Building. (The roof deck is usually concealed prior to removing the existing roof system.)
3. Common roofs. Reserved
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 this appearance.
5. Ponding water. Reserved.
6. Overflow scuppers (wall outlets). It is required that rainwater flow off so that the roof is not overloaded from a buildup 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.

Owner's/Agent's Signature

Date

Contractor's Signature

Date

ROOF ASSEMBLIES AND ROOFTOP STRUCTURES / FLORIDA BUILDING CODE – BUILDING, 6TH EDITION (2017)



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SECTION 1525 HIGH-VELOCITY HURRICANE ZONES—UNIFORM PERMIT APPLICATION

Florida Building Code 6th Edition (2017)
High-Velocity Hurricane Zone Uniform Permit Application Form

INSTRUCTION PAGE

COMPLETE THE NECESSARY SECTIONS OF THE UNIFORM ROOFING PERMIT APPLICATION FORM AND ATTACH THE REQUIRED DOCUMENTS AS NOTED BELOW:

Roof System	Required Sections of the Permit Application Form	Attachments Required See List Below
Low Slope Application	A,B,C	1,2,3,4,5,6,7
Prescriptive BUR-RAS 150	A,B,C	4,5,6,7
Asphaltic Shingles	A,B,D	1,2,4,5,6,7
Concrete or Clay Tile	A,B,D,E	1,2,3,4,5,6,7
Metal Roofs	A,B,D	1,2,3,4,5,6,7
Wood Shingles and Shakes	A,B,D	1,2,4,5,6,7
Other	As Applicable	1,2,3,4,5,6,7

ATTACHMENTS REQUIRED:

1.	Fire Directory Listing Page
2.	From Product Approval: Front Page Specific System Description Specific System Limitations General Limitations Applicable Detail Drawings
3.	Design Calculations per Chapter 16, or if applicable, RAS 127 or RAS 128
4.	Other Component of Product Approval
5.	Municipal Permit Application
6.	Owners Notification for Roofing Considerations (Reroofing Only)
7.	Any Required Roof Testing/Calculation Documentation



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Section A (General Information)

Master Permit No. _____ Process No. _____

Contractor's Name _____

Job Address _____

ROOF CATEGORY

Low Slope	Mechanically Fastened Tile	Mortar/Adhesive Set Tiles
Asphaltic Shingles	Metal Panel/Shingles	Wood Shingles/Shakes
	Prescriptive BUR-RAS 150	

ROOF TYPE

New roof	Repair	Maintenance	Reroofing	Recovering
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ROOF SYSTEM INFORMATION

Low Slope Roof Area(SF):	Steep Sloped Roof Area(SF):	Total (SF):
_____	_____	_____

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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.

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Section C (Low Slope Application)

Fill in specific roof assembly components and identify manufacturer (If a component is not used, identify as "NA").

System Manufacturer: _____ Product Approval No: _____

Design Wind Pressures, From RAS 128 or Calculations:

P1: _____ P2: _____ P3: _____

Max. Design Pressure, from the specific product approval system: _____

Deck:

Type: _____ Gauge/Thickness: _____ Slope: _____

Anchor/Base Sheet & No. of Ply(s): _____

Anchor/Base Sheet Fastener/Bonding Material: _____

Insulation Base Layer: _____ Base Insulation Size & Thickness: _____

Base Insulation Fastener/Bonding Material: _____

Top Insulation Layer: _____ Top Insulation Size & Thickness: _____

Top Insulation Fastener/Bonding Material: _____

Base Sheet(s) & No. of Ply(s): _____

Base Sheet Fastener/Bonding Material: _____

Ply Sheet(s) & No. of Ply(s): _____

Ply Sheet Fastener/Bonding Material: _____

Top Ply: _____

Top Ply Fastener/Bonding Material: _____

Surfacing: _____



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Fastener Spacing for Anchor/Base Sheet Attachment:

Field: _____ " oc @ Lap, # Rows _____ @ _____ " oc

Perimeter: _____ " oc @ Lap, # Rows _____ @ _____ " oc

Corner: _____ " oc @ Lap, # Rows _____ @ _____ " oc

Number of Fasteners Per Insulation Board:

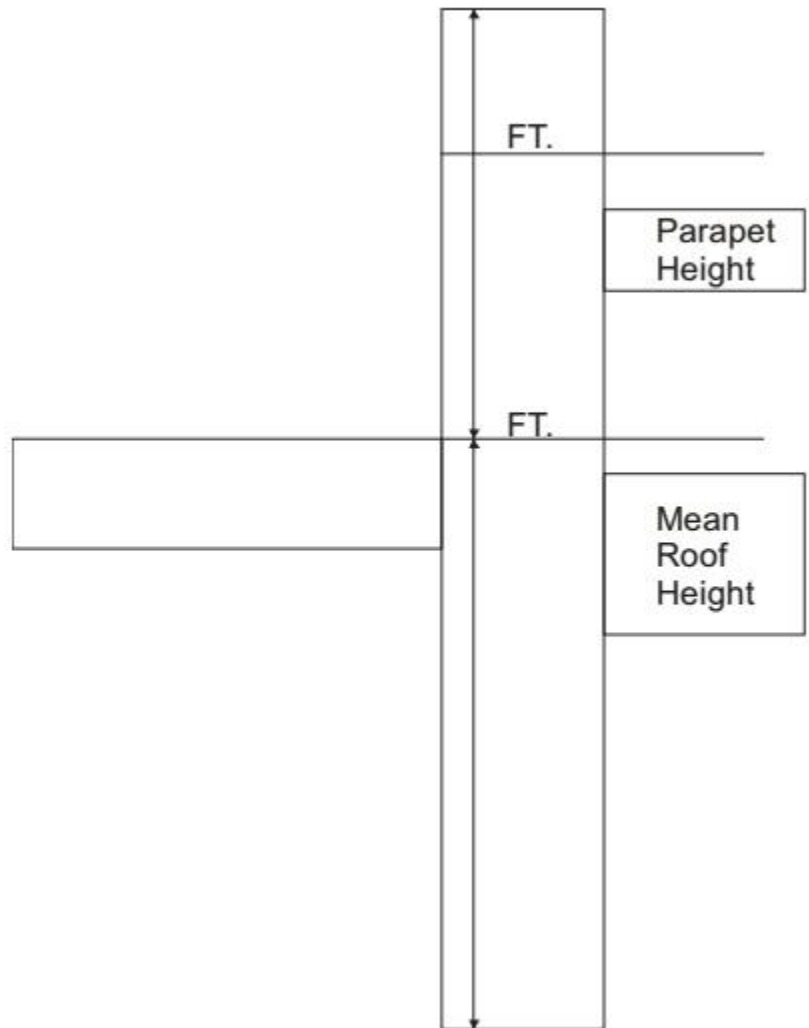
Field _____ Perimeter _____ Corner _____

Illustrate Components Noted and Details as Applicable:

- Wood Blocking, 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.



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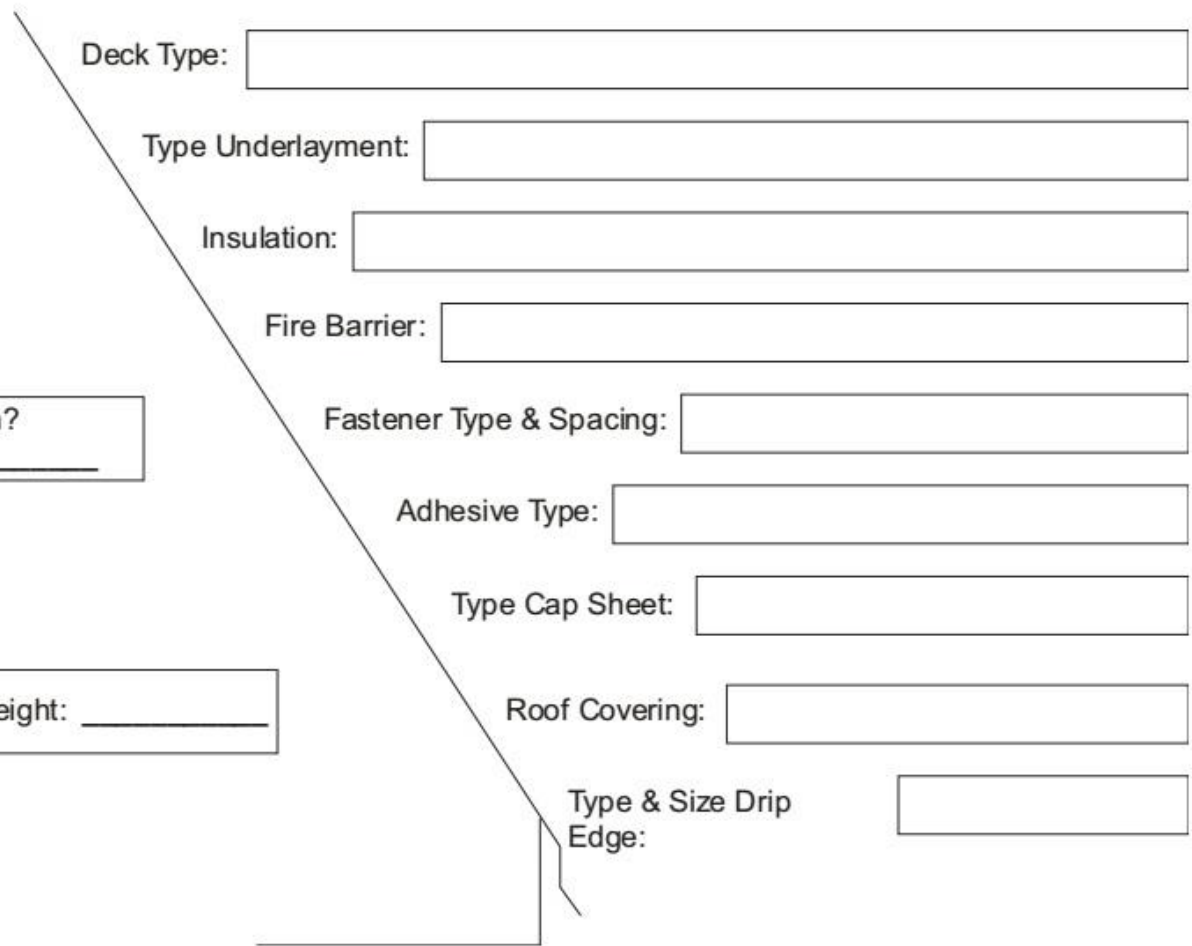
Section D (Steep Sloped Roof System)

Roof System Manufacturer: _____

Notice of Acceptance Number: _____

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):

P1: _____ P1: _____ P1: _____



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Section E (Tile Calculations)

For Moment based tile systems, choose either Method 1 or 2. Compare the values for M_r with the values from M_f . If the M_f values are greater than or equal to the M_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

(P1: ___ \times λ ___ = ___) - Mg: ___ = M_{r1} ___ Product Approval M_f _____

(P2: ___ \times λ ___ = ___) - Mg: ___ = M_{r2} ___ Product Approval M_f _____

(P3: ___ \times λ ___ = ___) - Mg: ___ = M_{r3} ___ Product Approval M_f _____

Method 2 "Simplified Tile Calculations Per Table Below"

Required Moment of Resistance (M_r) From Table Below _____ Product Approval M_f _____

M _r required Moment Resistance*					
Mean Roof Height Roof Slope	15'	20'	25'	30'	40'
2:12	34.4	36.5	38.2	39.7	42.2
3:12	32.2	34.4	36.0	37.4	39.8
4:12	30.4	32.2	33.8	35.1	37.3
5:12	28.4	30.1	31.6	32.8	34.9
6:12	26.4	28.0	29.4	30.5	32.4
7:12	24.4	25.9	27.1	28.2	30.0

*Must be used in conjunction with a list of moment based tile systems endorsed by the Broward County Board of Rules and Appeals.

For Uplift based tile systems use Method 3. Compare the values for F' with the values for F_r . If the F' values are greater than or equal to the F_r values, for each area of the roof, then the tile attachment method is acceptable.



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Method 3 "Uplift Based Tile Calculations Per RAS 127"

(P1: ___ x L ___ = ___ x w: = ___) – W: ___ x cosθ ___ = F_{r1} ___ Product Approval F' ___

(P2: ___ x L ___ = ___ x w: = ___) – W: ___ x cosθ ___ = F_{r2} ___ Product Approval F' ___

(P3: ___ x L ___ = ___ x w: = ___) – W: ___ x cosθ ___ = F_{r3} ___ Product Approval F' ___

Where to Obtain Information		
Description	Symbol	Where to find
Design Pressure	P1 or P2 or P3	RAS 127 Table 1 or by an engineering analysis prepared by PE based on ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval
Restoring Moment due to Gravity	M _g	Product Approval
Attachment Resistance	M _f	Product Approval
Required Moment Resistance	M _g	Calculated
Minimum Attachment Resistance	F'	Product Approval
Required Uplift Resistance	F _r	Calculated
Average Tile Weight	W	Product Approval
Tile Dimensions	L = length W = width	Product Approval
All calculations must be submitted to the building official at the time of permit application.		



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When re-roofing a single-family residence in the City of Coral Springs with an insured value of \$300,000.00 or more, you may be required to retrofit the roof to wall connections. If the building is not insured or if insured documentation is not available, you may use the ad valorem taxation amount per the property appraiser's office at www.bcpa.net in place of the insured value. The inspection and affidavit for the roof to wall retrofit can be performed by a Florida licensed engineer, architect, general contractor, building contractor, residential contractor, an inspector licensed under Florida Statute 468 in the structural discipline, or a Florida licensed home inspector certified in hurricane mitigation (copy of certificate is required.)

You must supply a copy of the insurance policy or a copy of the Broward County Tax assessed value.

Is the value of the building that is being re-roofed \$300,000.00 or more as noted above?

Yes (complete section b.)

No (complete section a.)

a. If no is checked and documentation has been provided as stated above please sign and have notarized.

Certifier Signature

Date

State of Florida

County of _____

(Notary Signature)

(Notary Name)

Sworn to (or affirmed) and subscribed before me this _____ day of _____, 20__

by _____ personally known by me or
(Name of Person Acknowledging)

produced ID _____.



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b. If yes is checked please use the following information to provide certification that the requirements of Section 201.3 of the Hurricane Mitigation Retrofits for existing site-built single family residential structures has been met and have notarized.

I, _____, a Florida licensed _____,

(License #: _____) have reviewed the documents on file in the Coral Springs Building Department and/or have performed an inspection of the building located at: _____ Coral Springs, Florida and have determined that the roof to wall connections comply with Section 201.3 of the Hurricane Mitigation Retrofit for Existing Site-Built Single Family Residential Structures and no additional work is required.

Certifier Signature

Date

State of Florida

County of _____

(Notary Signature)

(Notary Name)

Sworn to (or affirmed) and subscribed before me this _____ day of _____, 20__

by _____ personally known by me or
(Name of Person Acknowledging)

produced ID _____.



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If additional work is needed a permit must be obtained and an inspection report will be required at the time of Tin Tag inspection.

I, _____, a Florida licensed _____,

(License #: _____) have inspected all the repairs and/or new installation of metal connectors, clips, straps, or fasteners and they meet or exceed the requirement of Section 201.3 of the Hurricane Mitigation Retrofits for Existing Site-Built Single Family Residential Structures and any other work covered by this permit.

Certifier Signature

Date

State of Florida

County of _____

(Notary Signature)

(Notary Name)

Sworn to (or affirmed) and subscribed before me this _____ day of _____, 20__

by _____ personally known by me or
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produced ID _____.

*Signature of Florida licensed engineer or architect that is accompanied with an embossed seal is not required to be notarized.



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SINGLE FAMILY RESIDENCE HURRICANE MITIGATION REQUIREMENTS

Effective October 1, 2007, Florida Statute 553.844 required that all re-roofing of single family residences must include supplemental nailing of the roof sheathing, and all roofs must contain a secondary water barrier. These requirements must be inspected by the City prior to concealment. The affidavit appearing on the reverse side of this document may be utilized in place of the required inspection, but must be available at the site prior to the base sheet inspection.

Re-Nailing of Roof Sheathing-

All existing roof sheathing shall be nailed in accordance with the table below and Section 2322.2.8 of the Florida Building Code (Building).

Supplement Fasteners at Panel Edges and Intermediate Framing (Ref. FS 553.844, Table 201.1)

Existing fasteners	Existing spacing	Supplemental fastening shall be no greater than
Staples, 6d or T nails	Any Existing Spacing	6" o.c. ^b
8d clipped head, round head, or ring shank	6" o.c. 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

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

Supplemental nails must be galvanized and have the following properties:

1. 0.113 inch nominal shank diameter
2. Ring diameter of 0.012 over shank diameter
3. 16 to 20 rings per inch
4. 0.280 inch full round head diameter
5. 2¼ inch nail length



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Secondary Water Barrier-Check One

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 applied using an approved hot-mop application shall be deemed to meet the requirements for the secondary water barrier.

As an alternate and only on shingle, shake and metal roofs with plywood sheathing, all joints in the roof sheathing or decking shall be covered with a consistent 4 in. to 6 in. wide strip of self-adhering polymer modified bitumen tape applied directly to the plywood sheathing. The deck and self-adhering polymer modified bitumen tape shall be covered with one of the underlayment systems approved for the particular roof covering to be applied to the roof.



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ROOFING NOTICE

HURRICANE MITIGATION RETROFIT REQUIREMENTS

The 2007 Florida Legislature established new requirements for single-family residential structures when the roof is replaced. These requirements go into effect October 1, 2007. This law requires mitigation retrofits for site-built, single family residential structures.

The following is a brief summary of these mitigation requirements:

- Roof deck attachment is required to be strengthened as required by Table 201.1 of the Hurricane Mitigation Retrofit and a secondary water barrier must be installed - regardless of house value.
- Roof to wall connections must be enhanced up to 15% additional cost of the re-roofing cost - when the value of the house \$300,000 or more.

Single-family re-roofing applications must include the following additional documents based on the documented value of the building.

Select one that applies:

Value of the dwelling is less than \$300,000.

Submit a copy of the insured value documentation or the ad valorem value of the home. Submit a copy of the following additional documents:

1. A copy of the completed contract between the owner and the roofing contractor.

Value of the dwelling is \$300,000 or more.

Submit a copy of the insurance documentation or the ad valorem value of the home. Submit a copy of the following additional documentation:

1. A copy of the completed contract between the owner and the roofing contractor.
2. Application from general contractor along with a proposal to provide mitigation retrofit work.
3. Provide three (3) copies of roof plan indicating type of roof at all corner areas (Hip, Gable, flat, etc.).

Please see the attached "Hurricane Mitigation Retrofits for Existing Site-Built Single Family Residential Structures" document for a complete description of the requirements needed to meet Florida Statute 553.844.



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SINGLE FAMILY RESIDENCE HURRICANE MITIGATION

Inspection Affidavit (with photos)

RE: Permit # _____

I, _____, acting in my capacity as a licensed

Contractor* Engineer Architect Private Building Inspector** Home Inspector***
(Select Applicable Category)

License # _____ hereby certify that on or about _____,
(Date & time)

I did personally inspect the following: (Circle one or both)

Roof Deck Nailing Secondary Water Barrier

installation at _____, Coral Springs, FL.
(Job Site Address)

Based upon that examination I have determined the installation was performed in accordance with the Florida Building Commission Hurricane Mitigation Retrofit Manual, Florida Statute 553.844 and Chapter 15 & 23 of the Florida Building Code, Building. **(See Section 2322.2.8)**

Signature

Date

State of Florida

County of _____

(Notary Signature)

(Notary Name)

Sworn to (or affirmed) and subscribed before me this _____ day of _____, 20__

by _____ personally known by me or
(Name of Person Acknowledging)

produced ID _____.

- * General, Building, Residential, or Roofing Contractor licensed under Florida Statute 489
- ** Individual with state certification as a Building Inspector under Florida Statute 468
- *** Florida licensed Home Inspector (Copy of Hurricane Mitigation Certificate Required)

Note: Affidavit must be available at job site during base sheet inspection, if water barrier is applied over the base sheet, cap sheet in progress inspection is required.