SECTION 1525
HIGH-VELOCITY HURRICANE ZONES—UNIFORM PERMIT APPLICATION

Florida Building Code 8th Edition (2023)
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
Asphalt 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
- ☐ Asphalt Shingles
- ☐ Mechanically Fastened Tile
- ☐ Metal Panel/Shingles
- ☐ Prescriptive BUR-RAS 150
- ☐ Mortar/Adhesive Set Tiles
- ☐ Wood Shingles/Shakes

ROOF TYPE

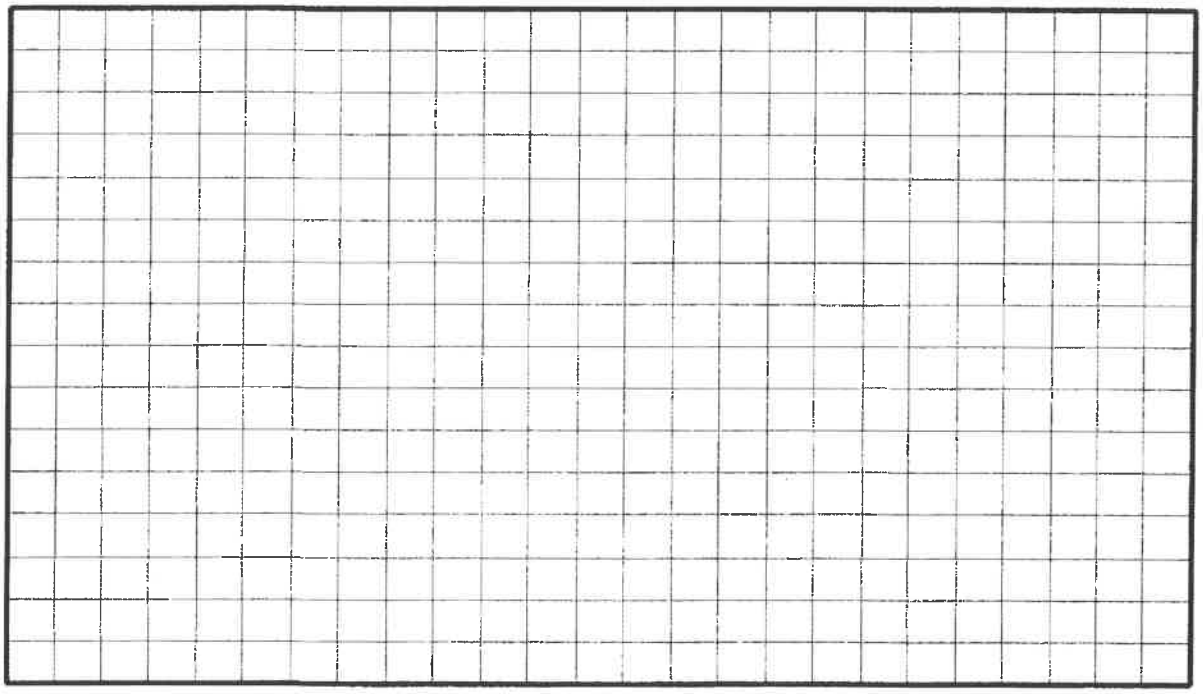
☐ New roof ☐ Repair ☐ Maintenance ☐ Reroofing ☐ Recovering

ROOF SYSTEM INFORMATION

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

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:

Zone 1′:_____ Zone 1:_____ Zone 2:_____ Zone 3:_____

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 and Thickness: _____

Base Insulation Fastener/Bonding Material:

_____

Top Insulation Layer: _____

Top Insulation Size and 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: _____

Fastener Spacing for Anchor/Base Sheet Attachment:

Zone 1′: ____" oc @ Lap, # Rows ____ @ ____" oc

Zone 1: ____" oc @ Lap, # Rows ____ @ ____" oc

Zone 2: ____" oc @ Lap, # Rows ____ @ ____" oc

Zone 3: ____" oc @ Lap, # Rows ____ @ ____" oc

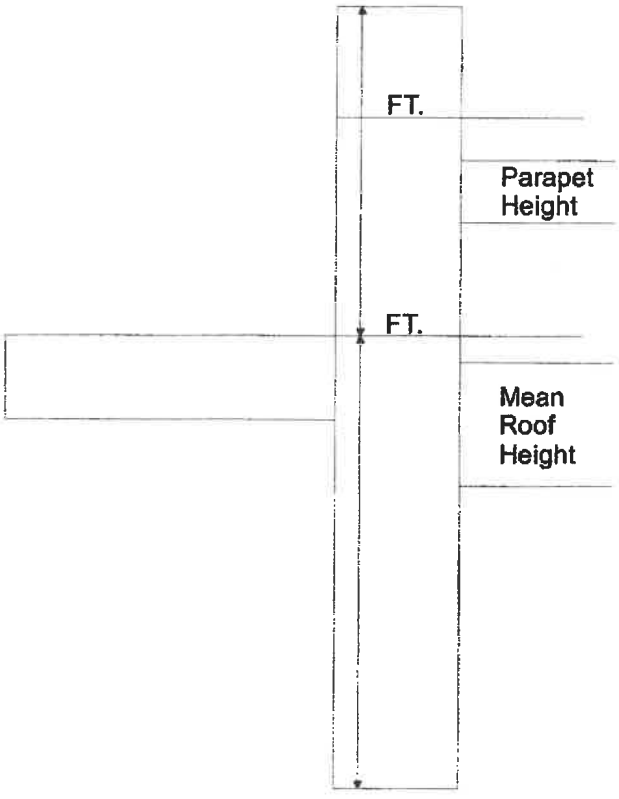
Number of Fasteners Per Insulation Board:

Zone 1′:_____ Zone 1:_____ Zone 2:_____ Zone 3:_____

Illustrate Components Noted and Details as Applicable:

Woodblocking, Gutter, Edge Termination, Stripping, Flashing, Continuous Cleat, Cant Strip, Base Flashing, Counterflashing, 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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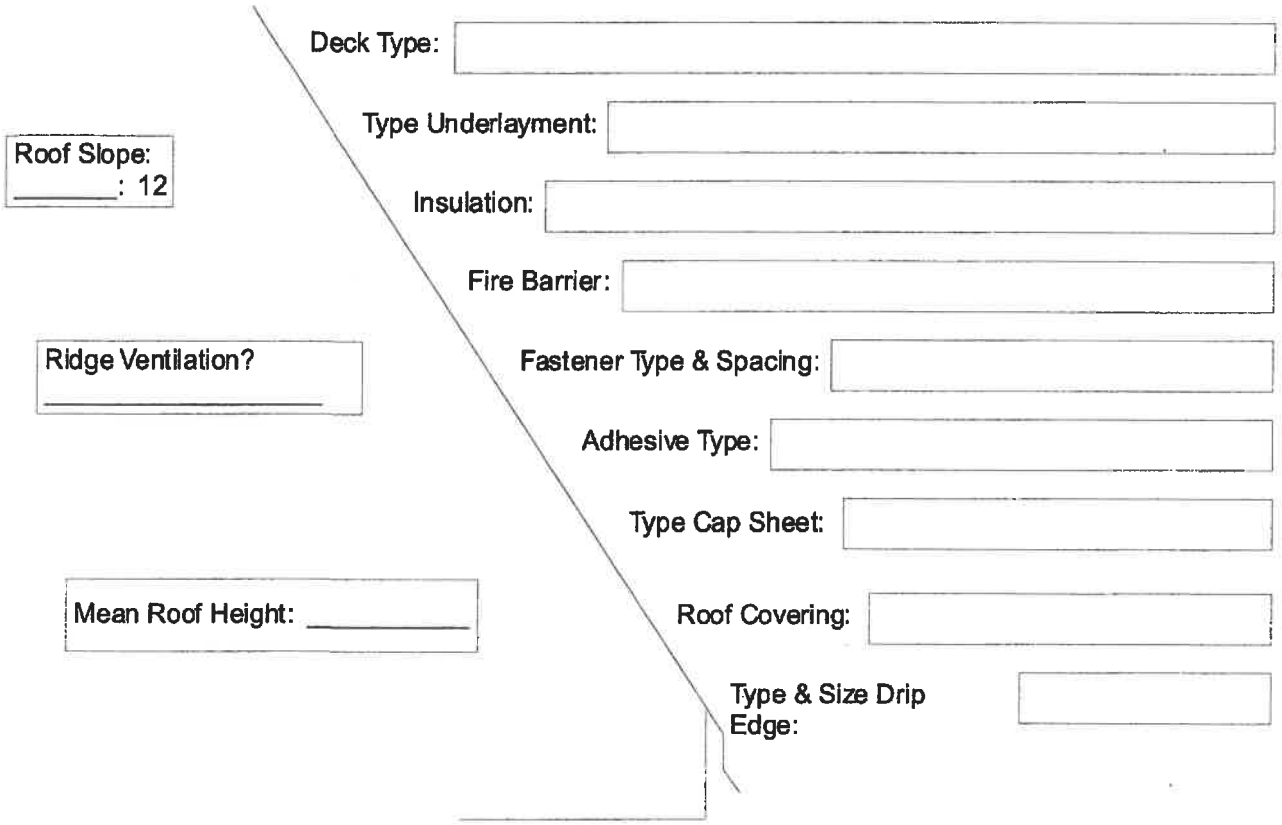
Section D (Steep Sloped Roof System)

Roof System Manufacturer: _____

Notice of Acceptance Number: _____

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

Zone 1:_____ Zone 2:_____ Zone 3:_____



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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"

(Zone 1:____ × λ ____ = ____) – Mg: ____ = M_{r1} ____ Product Approval M_f _____

(Zone 2:____ × λ ____ = ____) – Mg: ____ = M_{r2} ____ Product Approval M_f _____

(Zone 3:____ × 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	-46	-47.6	-49.4	-50.9	-53.3
3:12	-47.3	-48.9	-50.7	-52.2	-54.6
4:12	-47.2	-52.0	-53.8	-55.3	-57.9
5:12	-39.8	-41.5	-42.8	-43.7	-45.7
6:12	-39.6	-40.6	-41.9	-42.9	-44.8
7:12	-39.4	-40.3	-41.6	-42.6	-44.6

Method 2 may be utilized within Broward County Exposure C only.

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.

Method 3 "Uplift-Based Tile Calculations Per RAS 127"

(Zone 1:____ × L ____ = ____ × w: = ____) – W: ____ × cos r ____ = F_{r1} ____ Product Approval F′ _____

(Zone 2:____ × L ____ = ____ × w: = ____) – W: ____ × cos r ____ = F_{r2} ____ Product Approval F′ _____

(Zone 3:____ × L ____ = ____ × w: = ____) – W: ____ × cos r ____ = F_{r3} ____ Product Approval F′ _____

Where to Obtain Information		
Description	**Symbol**	**Where to find**
Design Pressure	Zones 1, 2, 3	From applicable table in RAS 127 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.		

BROWARD COUNTY UNIFORM BUILDING PERMIT APPLICATION

Revised 11-17-2022

Select One Trade: ☐ Building ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ Other

Application Number: _____ Application Date: _____

1

Job Address: _____ Unit: _____ City: _____

Tax Folio No.: _____ Flood Zn: BFE: _____ Floor Area: _____ Job Value: _____

Building Use: _____ Construction Type: Occupancy Group:

Present Use: _____ Proposed Use: _____

Description of Work: _____

☐ New ☐ Addition ☐ Repair ☐ Alteration ☐ Demolition ☐ Revision ☐ Other: _____

Legal Description: _____ ☐ Attachment

2

Property Owner: _____ Phone: _____ Email: _____

Owner's Address: _____ City: _____ State: _____ Zip: _____

3

Contracting Co.: _____ Phone: _____ Email: _____

Company Address: _____ City: _____ State: _____ Zip: _____

Qualifier's Name: _____ ☐ Owner-Builder License Number: _____

4

Architect/Engineer's Name: _____ Phone: _____ Email: _____

Architect/Engineer's Address: _____ City: _____ State: _____ Zip: _____

Bonding Company: _____

Bonding Company's Address: _____ City: _____ State: _____ Zip: _____

Fee Simple Titleholder's Name (*If other than the owner*) _____

Fee Simple Titleholder's Name
(*If other than the owner*) _____ City: _____ State: _____ Zip: _____

Mortgage Lender's Name: _____

Mortgage Lender's Address: _____ City: _____ State: _____ Zip: _____

BROWARD COUNTY UNIFORM BUILDING PERMIT APPLICATION

Job Address: _____ Unit: _____ City: _____

Application is hereby made to obtain a permit to do the work and installations 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 WORK, PLUMBING, SIGNS, WELLS, POOLS, FURNACES, BOILERS, HEATERS, TANKS, and AIR CONDITIONERS, etc.

OWNER'S AFFIDAVIT: I 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.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

X _____ Signature of Property Owner or Agent (Including Contractor)	**X** _____ Signature of Qualifier
STATE OF FLORIDA **COUNTY OF _____**	**STATE OF FLORIDA** **COUNTY OF _____**
Sworn to (or affirmed) and subscribed before me by means of ___ physical presence or ___ online notarization, this ____ day of _____, 20____ by	Sworn to (or affirmed) and subscribed before me by means of ___ physical presence or ___ online notarization, this ____ day of _____, 20____ by
_____ (Type/Print Property Owner or Agent Name)	_____ (Type/Print Qualifier or Agent Name)
_____ NOTARY'S SIGNATURE as to Owner or Agent's Signature	_____ NOTARY'S SIGNATURE as to Qualifier or Agent's Signature
Notary Name _____ (Print, Type or Stamp Notary's Name)	Notary Name _____ (Print, Type or Stamp Notary's Name)
Personally Known _____ Produced Identification _____	Personally Known _____ Produced Identification _____
Type of Identification Produced _____	Type of Identification Produced _____

APPROVED BY: _____ Permit Officer (FOR OFFICE USE ONLY) Issue Date: _____ (FOR OFFICE USE ONLY) Code in Effect: _____ (FOR OFFICE USE ONLY)

A jurisdiction may use a supplemental page requesting additional information and citing other conditions, please inquire.

Note: If any development work as described in FS 380.04 Sec. 2 a-g is to be performed, a development permit must be obtained prior to the issuance of a building permit.

HURRICANE MITIGATION

Florida Building Code, Existing Building, 7th Edition (2020)

SECTION 706-EXISTING ROOFING

Permit Number: _____ Address:_____

Is the value of the dwelling more than $300,000? YES____ NO____

In accordance with Section 706.8.1 to 706.8.1.7 the roof to wall connections:

- YES____ Comply with the prescriptive method requirements
- NO____ Requires compliance (separate permit required by General, Building or Residential Contractor)

I am a (select one):

____ Florida Professional Engineer ____ Registered Architect ____ General Contractor

____ Building Contractor ____ Residential Contractor ____ Home Inspector

I hereby certify the roof to wall connections meet or exceed the requirements as described:

_____

_____ _____ _____

Signature License Number Date

In the STATE OF FLORIDA,

COUNTY OF_____

Sworn to and subscribed before me this_____ day of_____20___by _____
(Print Name)

_____

(Notary Signature) (seal, stamp)

Personally Known_____ or Produced Identification _____

_____

(Type of Identification produced)

Effective Date: October 24, 2022
Revised: November 17, 2022

MANDATORY COUNTYWIDE ROOFTOP MOUNTED EQUIPMENT AFFIDAVIT

ALL EQUIPMENT THAT IS ROOFTOP MOUNTED IS REQUIRED TO BE IDENTIFIED BY THIS AFFIDAVIT AND SUBMITTED WITH THE HIGH-VELOCITY HURRICANE ZONE UNIFORM ROOFING PERMIT APPLICATION

Permit Number: _____

Site Address: _____

Company Name: _____

Address: _____

Name of Qualifier: _____

License Number: _____ Contact No: _____

PLEASE CHECK ALL APPLICABLE EXISTING ROOFTOP EQUIPMENT:

☐ A/C EQUIPMENT ☐ PHOTOVOLTAIC PANELS ☐ SOLAR THERMAL ☐ GAS VENTS

☐ WATERLINES ☐ ELECTRICAL CONDUITS ☐ NO EQUIPMENT ON THE ROOF

PERMITS ARE REQUIRED FOR:

- REMOVAL AND REINSTALLATION OF PHOTOVOLTAIC PANELS.
- REMOVAL AND REINSTALLATION OF SOLAR THERMAL.
- REMOVAL AND REINSTALLATION OF GAS VENTS.

IF A/C EQUIPMENT IS CHECKED ABOVE:

- IS THERE AN EXISTING CODE-APPROVED CURB OR STAND? ☐ YES ☐ NO

IF YOU ANSWERED NO, A MECHANICAL PERMIT IS REQUIRED FOR THE INSTALLATION OF THE PROPOSED CURB OR STAND.

ANY ROOFTOP EQUIPMENT REMOVED DURING REROOFING, SHALL BE REINSTALLED IN COMPLIANCE WITH THE CODE IN EFFECT AT THE TIME A REROOFING PERMIT IS ISSUED.

NOTE: All above permits may be considered as deferred submittals.

_____ _____

CONTRACTOR/OWNER BUILDER SIGNATURE DATE

_____

PRINT CONTRACTOR/OWNER BUILDER NAME

Section 1524 FBC

HIGH VELOCITY HURRICANE ZONES

REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

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 form. The owner's initials in the designated 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. Renailing wood decks:** When replacing roofing, the existing wood roof deck may have to be renailed 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 of 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 this 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 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.

❑ **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.

❑ **8. Existing Solar Systems:** The re-installation of an existing roof mounted photovoltaic system requires a separate permit. Permit must be obtained in order to finalize the roofing permit.

_____ _____
Contractor's Signature Date

_____ _____
Owner's/Agent's Signature Date

Property Address: _____

City: _____ State: _____ Zip: _____

Broward County Fenestration Voluntary Wind Load Chart*

Per ASCE 7-16 Part 1 and FBC (2020) for Retrofitting in Accordance with Formal Interpretation #24

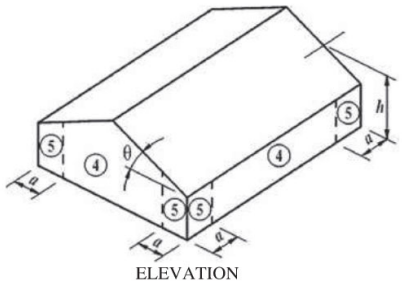
For Detached One-and Two family dwellings and Multiple Single-Family Dwellings (Townhouses) with Mean Roof Height ≤ 30 feet

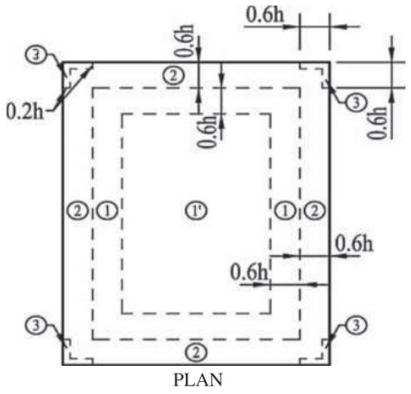
Wind 170 mph (3-second gust) / Exposure C** / Kd = 0.85 / Kzt = 1.0 / Pressures are in PSF / Not for use in Coastal (Exposure 'D' areas)

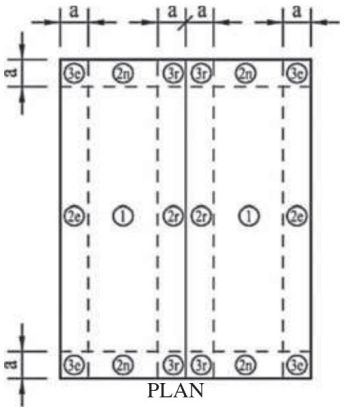
* Using Allowable Stress Design methodology (P = 0.6w) / ** Exposure C or D shall be determined according to ASCE 7-16 Section 26.7 (Exposure Categories)

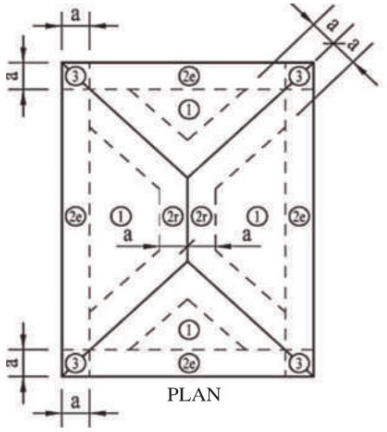
Roof and Wall Zone Chart Diagrams

Wall Pressure Chart	Flat Roof Uplift Chart	Gable Roof Uplift Chart	Hip Roof Uplift Chart









Instructions on how to use these Charts: Determine Mean Roof Height, ***h*** , which is top of roof for flat roofs or the mean roof height for pitched roofs. Find your least horizontal dimension for your building, not including a overhang if it occurs. Calculate the value of, ***a*** , = 10% of least horizontal dimension or 0.4*h, whichever is smaller, but not less than either 4% of least horizontal dimension or 3 feet. If your roof height is less than 30 feet, but not exactly 15, 20, or 25 feet, you will need to go to the next higher roof height. If your Mean Foof Height is higher than 30 feet, these charts do not apply. Review the diagram which illustrate the wall and roof zones and determine the wind zone in which the component is located. Determine the tributary area of the component. If the tributary area falls in between values, use the value of the smaller tributary area. Select the positive and negative wind pressures corresponding to the wall or roof zone where your component is located. Door pressures shown are for the most common door sizes and are worst case for heights <= 30 Feet.

Wall Pressure For All Roof Types

Mean Roof Height	15 Ft						20 Ft					
Tributary Area	10	20	35	50	100	500	10	20	35	50	100	500
Wall Positive Pressure	38.0	36.2	34.9	34.0	32.3	28.3	40.3	38.5	37.0	36.1	34.3	30.1
Zone 4 Negative Pressure	-41.2	-39.5	-38.1	-37.2	-35.5	-31.5	-43.7	-41.9	-40.5	-39.5	-37.7	-33.5
Zone 5 Negative Pressure	-50.8	-47.4	-44.6	-42.9	-39.5	-31.5	-54.0	-50.4	-47.4	-45.6	-41.9	-33.5
Mean Roof Height	25 Ft						30 Ft					
Tributary Area	10	20	35	50	100	500	10	20	35	50	100	500
Wall Positive Pressure	42.3	40.4	38.8	37.8	35.9	31.5	43.9	41.9	40.3	39.3	37.3	32.8
Zone 4 Negative Pressure	-45.8	-43.9	-42.4	-41.4	-39.5	-35.1	-47.6	-45.7	-44.1	-43.1	-41.1	-36.5
Zone 5 Negative Pressure	-56.6	-52.8	-49.7	-47.8	-43.9	-35.1	-58.8	-54.7	-51.7	-49.6	-45.7	-36.5

Garage/Door Pressures

<= 30 Ft			
Effective Wind Area		Positive	Negative
Width	Height		
8	8	38.6	-48.2
10	10	37.4	-45.7
14	14	35.4	-41.8
9	7	38.7	-48.3
16	7	37.0	-45.0
3	7	41.8	-54.6
6	7	39.8	-50.6

SIMPLIFIED ROOF UPLIFT CHART FOR ROOFING APPLICATIONS

This simplified chart represents the worst case wind pressures for the various roof slopes and heights. This chart is based on a Tributary Area = 10 SF which is required for roofing applications. If the roof height is less than 30 feet, but not exactly 15, 20, or 25 feet, you will need to go to the next higher roof height. If your roof height is higher than 30 feet, these charts do not apply. Refer to Roof Chart Diagrams on Page 1 for Roof Zone Locations

Mean Roof Height = 15 Feet

Flat Roof		Gable Roof 1.51 to 4:12			Gable Roof 4.1 to 6:12		Gable Roof 6.1: to 12:12		Hip Roof 1.51 to 4:12			Hip Roof 4.1 to 6:12	
Positive*	15.4/38.0		Positive	23.2	Positive	23.2	Positive	34.7		Positive	28.3	Positive	28.3
Zone		Zone	Roof	Overhang	Roof	Overhang	Roof	Overhang	Zone	Roof	Overhang	Roof	Overhang
1	-60.5	1, 2e	-70.1	-80.4	-54.0	-64.3	-63.7	-83.6	1	-63.7	-74.0	-50.8	-60.8
1'	-34.8	2n & 2r	-102	-113	-86.2	-96.5	-70.1	-90.1	2e	-89.4	-99.7	-70.1	-79.0
2	-79.8	3e	-102	-132	-86.2	-116	-86.7	-107	2r	-83.0	-93.3	-70.1	-79.0
3*	-109	3r	-122	-151	-102	-128	-70.1	-90.1	3	-89.4	-119	-70.1	-95.3

Mean Roof Height = 20 Feet

Flat Roof		Gable Roof 1.51 to 4:12			Gable Roof 4.1 to 6:12		Gable Roof 6.1: to 12:12		Hip Roof 1.51 to 4:12			Hip Roof 4.1 to 6:12	
Positive*	16.4/40.3		Positive	24.6	Positive	24.6	Positive	36.9		Positive	30.1	Positive	30.1
Zone		Zone	Roof	Overhang	Roof	Overhang	Roof	Overhang	Zone	Roof	Overhang	Roof	Overhang
1	-64.2	1, 2e	-74.5	-85.4	-57.4	-68.3	-67.7	-88.9	1	-67.6	-78.6	-54.0	-64.6
1'	-36.9	2n & 2r	-109	-120	-91.5	-102	-74.5	-95.7	2e	-95.0	-106	-74.5	-84.0
2	-84.8	3e	-109	-140	-91.5	-123	-92.1	-113	2r	-88.1	-99.1	-74.5	-84.0
3*	-116	3r	-129	-161	-108	-136	-74.5	-95.7	3	-95.0	-126	-74.5	-101

Mean Roof Height = 25 Feet

Flat Roof		Gable Roof 1.51 to 4:12			Gable Roof 4.1 to 6:12		Gable Roof 6.1: to 12:12		Hip Roof 1.51 to 4:12			Hip Roof 4.1 to 6:12	
Positive*	17.2/42.3		Positive	25.8	Positive	25.8	Positive	38.7		Positive	31.5	Positive	31.5
Zone		Zone	Roof	Overhang	Roof	Overhang	Roof	Overhang	Zone	Roof	Overhang	Roof	Overhang
1	-67.3	1, 2e	-78.1	-89.5	-60.2	-71.6	-70.9	-93.1	1	-70.9	-82.4	-58.6	-67.7
1'	-38.7	2n & 2r	-114	-125	-96	-107	-78.1	-100	2e	-99.6	-111	-78.1	-88.0
2	-88.8	3e	-114	-147	-96	-129	-96.6	-119	2r	-92.4	-104	-78.1	-88.0
3*	-121	3r	-135	-168	-113	-143	-78.1	-100	3	-99.6	-133	-78.1	-106

Mean Roof Height = 30 Feet

Flat Roof		Gable Roof 1.51 to 4:12			Gable Roof 4.1 to 6:12		Gable Roof 6.1: to 12:12		Hip Roof 1.51 to 4:12			Hip Roof 4.1 to 6:12	
Positive*	17.9/43.9		Positive	26.8	Positive	26.8	Positive	40.2		Positive	32.8	Positive	32.8
Zone		Zone	Roof	Overhang	Roof	Overhang	Roof	Overhang	Zone	Roof	Overhang	Roof	Overhang
1	-70.0	1, 2e	-81.1	-93.1	-62.6	-74.5	-73.7	-96.8	1	-73.7	-85.6	-58.8	-70.4
1'	-40.2	2n & 2r	-118	-130	-99.8	-112	-81.1	-104	2e	-103	-115	-81.1	-91.4
2	-92.3	3e	-118	-153	-99.8	-134	-100	-123	2r	-96.0	-108	-81.1	-91.4
3*	-126	3r	-141	-175	-118	-148	-81.1	-104	3	-103	-138	-81.1	-110

***** If Parapet >= 3 Ft occurs around entire building use the same Zone 2 pressure for Zone 3 and use the higher positive pressure shown