

On-Line Windows/Doors Permit Plan Review Procedure/Reference Package With 25% Protection Exemption



WARNING

ON-LINE PERMITTING IS OFFERED AS A CONVENIENCE TO THE CONTRACTING COMMUNITY. IN CERTAIN CASES WHERE PLANS, SPECIFICATIONS AND/OR OTHER PROJECT INFORMATION REQUIRES REVIEW AND APPROVAL THE BY BUILDING SERVICES STAFF, WE CAUTION AGAINST PROCEEDING WITH THE PROJECT UNTIL APPROVAL HAS BEEN GIVEN AND THE "ON HOLD" STATUS HAS BEEN UPDATED TO "ISSUED" STATUS INDICATING THAT THE REVIEW HAS BEEN APPROVED. ISSUANCE OF THE PERMIT IN AN "ON HOLD" STATUS HALTS ANY INSPECTION REQUESTS; HOWEVER IT DOES NOT LIMIT THE CONTRACTOR FROM PROCEEDING WITH THE WORK. ALL WORK STARTED PRIOR TO PLAN APPROVAL IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IT IS UNDERSTOOD THAT BY SUBMITTING THIS FORM ELECTRONICALLY THAT THE LICENSED CONTRACTOR HAS REVIEWED THIS PERMIT PACKAGE FOR ACCURACY AND CODE COMPLIANCE.

Permit Package Prepared By: _____ Contact Telephone # _____

TURTLE GLAZING NOTE - WHERE REQUIRED, GLAZING INSTALLED SHALL MEET THE REQUIREMENTS FOR MARINE TURTLE NESTING AREAS.-

INSTRUCTIONS

1. Window and Door Permits applied for On-Line will automatically be placed in an "On Hold" status until this package is submitted and approved.
2. Do not use this package to submit engineered designs electronically. Engineered designs must be submitted and reviewed in our office.
3. This Plan Review Package has been designed to submit electronically through the use of a fillable pdf file format. You will enter all required information and click all boxes necessary to illustrate and describe all window/door work to be completed. Additional specific instructions are located at the top of those pages where necessary.
4. A Plan View diagram of the structure must be scanned and electronically submitted with this package by attaching the scan to the submittal e-mail. A diagram should be provided for each floor. The diagram(s) must substantially comply with the examples provided and must contain all information required for the entire review package.
5. Please save an electronic copy for your records, please include the "CW" Permit number in the file name. Attach the file, the scanned diagram(s), and any other accompanying paperwork to an e-mail with "CW" Permit number in the subject line and send to windowsdoorssubmit@pinellascounty.org.
6. Fees may be adjusted according to the scope of work and number of required inspections as stated in the current Building Services Fee schedule.

GENERAL PROJECT INFORMATION

Permit Number **CW** _____ - _____ Date Submitted _____
Contractor Name _____ License Number _____
Project Address _____

BUILDING TYPE

☐ 1 & 2 Family/Townhouse ☐ Condominium/Apartment ☐ Commercial

DESIGN PRESSURE VARIABLES

Building Mean Roof Height _____
Risk Category ☐ I (135 MPH) ☐ II (145 MPH) ☐ III (155 MPH) ☐ IV (155 MPH)
Exposure ☐ B ☐ C ☐ D

Impact Protection

☐ 25% Rule - Customer is replacing less than 25% of glazing - Non-Impact products are to be installed - Opening Exception Form Must be submitted. (See page # 3)

Note - This Package is for Procedure and Reference Information Only - Use the Submittal Package when applying for Permits

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List Each Type of Window, Door and/or Impact Protection Shown On Diagram(s) Submitted

On-Line Windows/Doors Permit Procedure Reference Package- 25% Exemption 2014 (Revision 3)

Opening Protection Exception Form

1 & 2 Family Only – Permitted Prior to March 1, 2002

FBC2010-Existing Building #606.4 Replacement of Windows and Doors. The replacement of garage doors, exterior doors, skylights, operative and inoperative windows shall be designed and constructed to comply with Chapter 16 of the Florida Building Code-Building.

Exception:

- Opening protection exception: For 1 & 2 family dwellings constructed under codes other than the Florida Building Code and located in windborne debris regions, the replacement of garage doors and exterior doors with glazing, sliding glass doors, skylights, and operable and inoperable windows within any 12 month period shall not be required to have opening protection but shall be designed for wind pressures for enclosed buildings, provided the aggregate area of the glazing in the replaced components does not exceed 25% of the aggregate area of the glazed openings in the dwelling or dwelling unit.

Exemption Instructions

- To qualify for this exemption the applicant must complete this form and submit a Existing Glazing Diagram illustrating compliance with Florida Building Code-Existing #604.4. Exceptions #1. An example is provided on page #4 and a template is provided on page #5.
- Scan the Diagram(s) and attach it to the e-mail Plan Review Submission.

Project Address _____

Date of Original Construction _____

Opening #	Glazed Opening Size W x H	Glazed Opening Square Inches Column #A	In ² of Openings to be Changed Column #B
1	X		
2	X		
3	X		
4	X		
5	X		
6	X		
7	X		
8	X		
9	X		
10	X		
11	X		
12	X		
13	X		
14	X		
15	X		
16	X		
17	X		
18	X		
19	X		
20	X		
21	X		

Opening #	Glazed Opening Size W x H	Glazed Opening Square Inches Column #C	In ² of Openings to be Changed Column #D
22	X		
23	X		
24	X		
25	X		
26	X		
27	X		
28	X		
29	X		
30	X		
31	X		
32	X		
33	X		
34	X		
35	X		
36	X		
37	X		
38	X		
39	X		
40	X		
41	X		
42	X		

Total Glazed Opening
Square Inches
Columns A + C

Total In² Allowed in 12
Month Period

In² of Openings to be
Replaced on This
Permit
Columns B + D

Remaining In² for 12
Month Period

Calculation _____ x .25 = _____ - _____ = _____

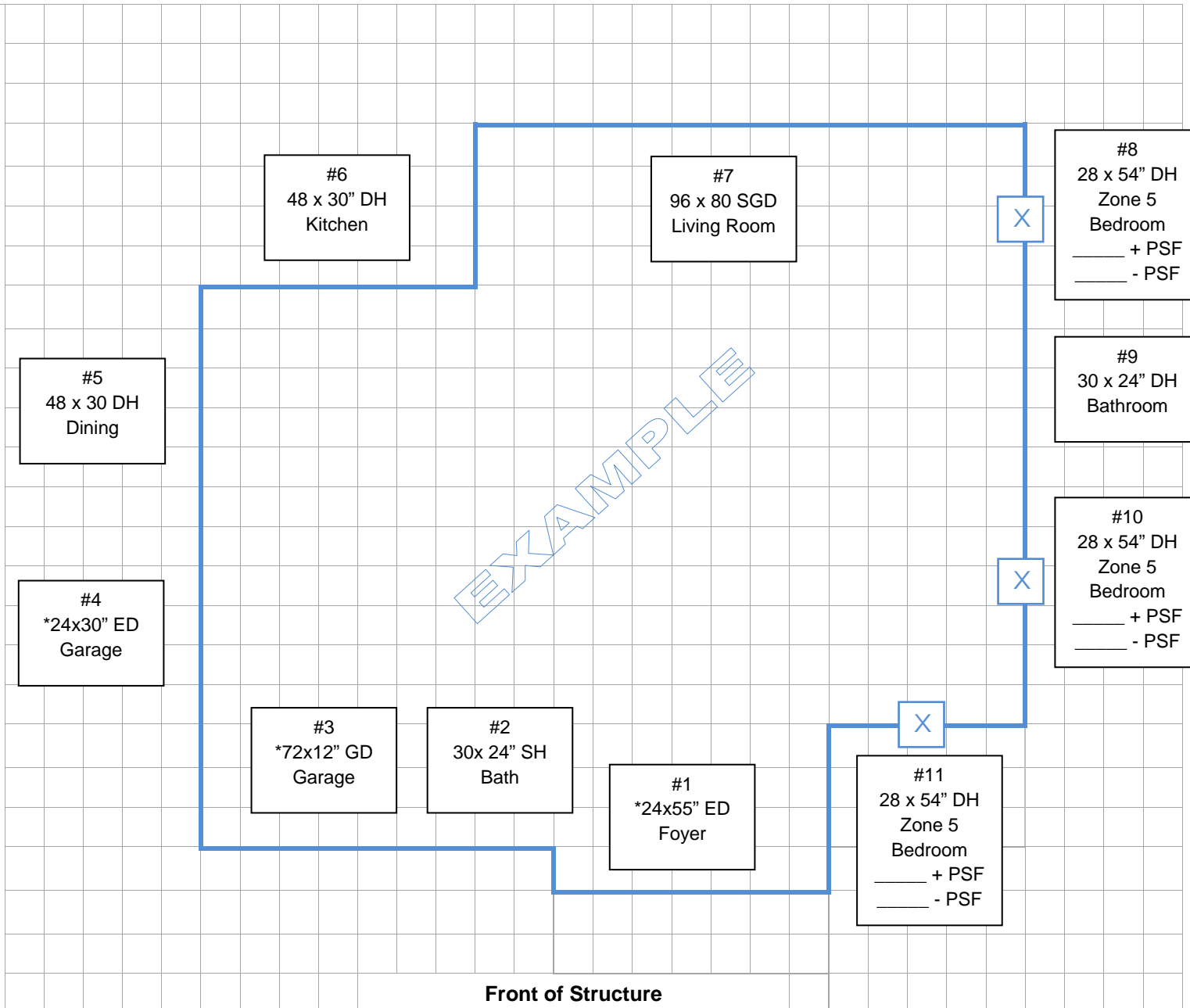
Existing Glazing Diagram (Example)

To Illustrate Compliance with FBC-Existing Building #606.4 Exception #1

Diagram Instructions

1. This diagram will be used with the Opening Protection Exception Form (Page #3) for determining compliance with FBC-Existing Building #606.4 Exception #1.
2. Draw a Plan View outline of the structure. Scale is not required. The front of the structure faces the bottom of the sheet.
3. Label and number all openings starting with the front door and continue clockwise around structure. *Only include Exterior and Garage Doors containing glazing in the Glazing calculations.
4. Provide the width and height of the glazed portion of all openings.
5. Mark the location of units to be replaced with an "X".
6. Provide the Wall Zone and the component and cladding +/- pressures for each opening (see pages 6 through 9).
7. Provide the room name for each opening (bedroom, bathroom, kitchen, etc.)
8. Provide a separate diagram for each Floor Level/Story. (Template Provided - Page #5)
9. Scan the Diagram(s) and attach it to the e-mail Plan Review Submission.

Floor Level/Story # _____ Typical Window Height From Grade _____ Diagram # _____ of _____



Type Key

CIR = Circle, CSMT-L = Left Hinge Casement, CSMT-R = Right Hinge Casement, DH = Double Hung, ED = Entry Door, EYE = Eyebrow, EYEL = Eyebrow w/leg, FG = Fixed Glass, FRD = French Door, GC = Garden Door, GD = Garage Door, HR = Half Round, HRL = Half Round w/leg, PENT = Pentagon, PW = Picture Window, SGD = Sliding Glass Door, SH = Single Hung, TRAP = Trapezoid, REC = Rectangle

Existing Glazing Diagram Template

To Illustrate Compliance with FBC-Existing Building #606.4 Exception #1

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7. Provide the room name for each opening (bedroom, bathroom, kitchen, etc.)
8. Provide a separate diagram for each Floor Level/Story. (See Example Page #4)
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Floor Level/Story # _____ Typical Window Height From Grade _____ Diagram # _____ of _____

FRONT OF STRUCTURE

Type Key

CIR = Circle, CSMT-L = Left Hinge Casement, CSMT-R = Right Hinge Casement, DH = Double Hung, ED = Entry Door, EYE = Eyebrow, EYEL = Eyebrow w/leg, FG = Fixed Glass, FRD = French Door, GC = Garden Door, GD = Garage Door, HR = Half Round, HRL = Half Round w/leg, PENT = Pentagon, PW = Picture Window, SGD = Sliding Glass Door, SH = Single Hung, TRAP = Trapezoid, REC = Rectangle

TABLE R301.2(2)
COMPONENT AND CLADDING LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT
OF 30 FEET LOCATED IN EXPOSURE B (psf) ^{a,b,c,d,e,f,g}

Ultimate Design Wind Speed V_{ult} (mph)				
	ZONE	EFFECTIVE WIND AREA (feet ²)	145	
0 - 1-1/2"	Roof > 0 to 7 degrees	1	10	15.4
		1	20	14.4
		1	50	13.2
		1	100	12.2
		2	10	15.4
		2	20	14.4
		2	50	13.2
		2	100	12.2
		3	10	15.4
		3	20	14.4
		3	50	13.2
		3	100	12.2
>1-1/2" - 6-1/8"	Roof > 7 to 27 degrees	1	10	21.8
		1	20	19.9
		1	50	17.3
		1	100	15.4
		2	10	21.8
		2	20	19.9
		2	50	17.3
		2	100	15.4
		3	10	21.8
		3	20	19.9
		3	50	17.3
		3	100	15.4
>6-1/8" - 12"	Roof > 27 to 45 degrees	1	10	34.7
		1	20	33.7
		1	50	32.4
		1	100	31.5
		2	10	34.7
		2	20	33.7
		2	50	32.4
		2	100	31.5
		3	10	34.7
		3	20	33.7
		3	50	32.4
		3	100	31.5
	Wall	4	10	37.9
		4	20	36.2
		4	50	33.9
		4	100	32.2
		4	500	28.2
		5	10	37.9
		5	20	36.2
		5	50	33.9
		5	100	32.2
		5	500	28.3

Pinellas County Specific
Ultimate Design Wind Speed
 Interpolated R301.2(2) to 145 mph

TABLE R301.2(3) HEIGHT AND EXPOSURE ADJUSTMENT COEFFICIENTS FOR TABLE R301.2(2)			
MEAN ROOF HEIGHT	EXPOSURE		
	B	C	D
15	1.00	1.21	1.47
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66
35	1.05	1.45	1.70
40	1.09	1.49	1.74
45	1.12	1.53	1.78
50	1.16	1.56	1.81
55	1.19	1.59	1.84
60	1.22	1.62	1.87

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m², 1 mile per hour = 0.447 m/s, 1 pound per square foot = 0.0479 kPa.

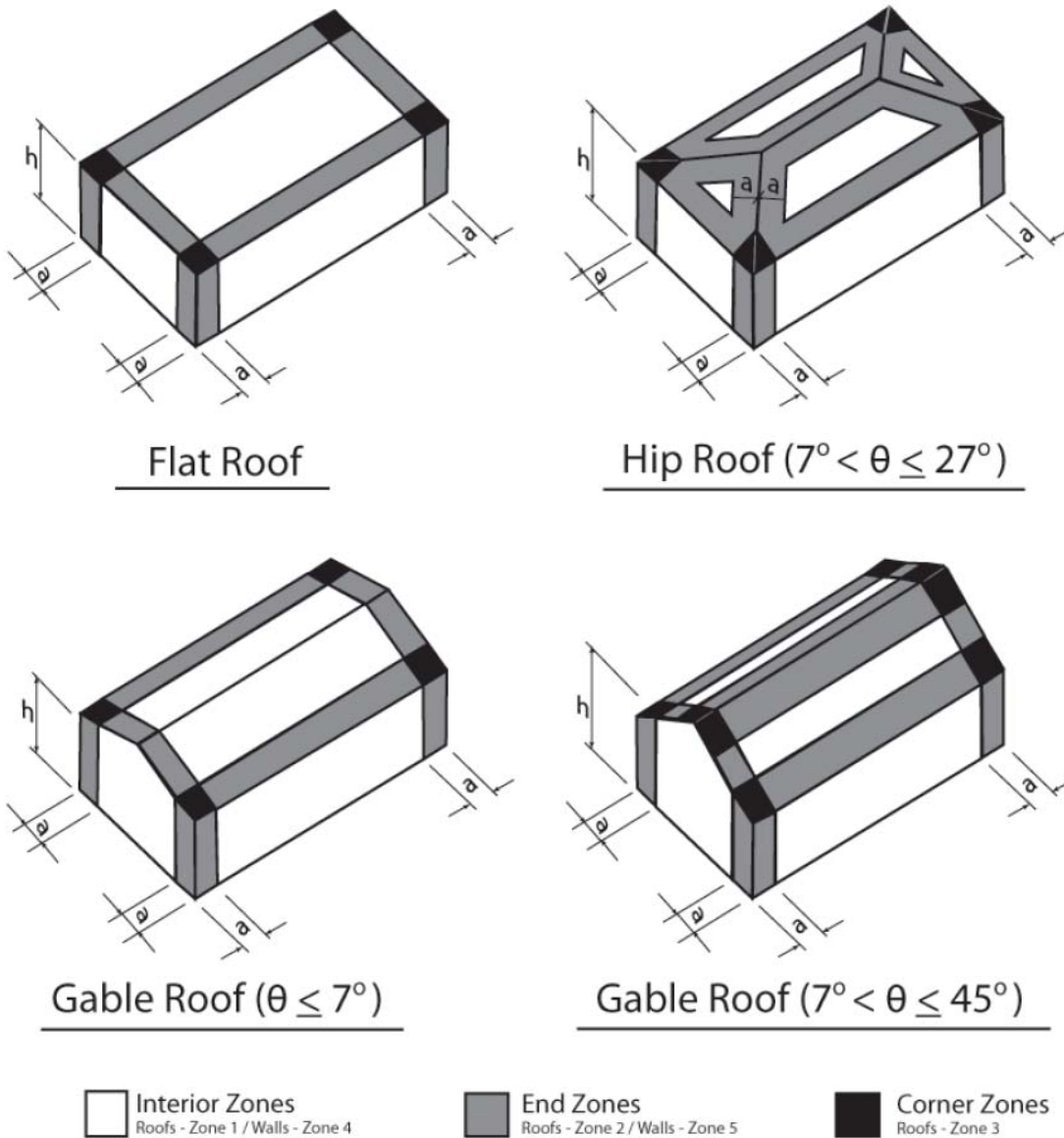
- NOTES:
- a. The effective wind area shall be equal to the span length multiplied by an effective width. This width shall be permitted to be not less than one-third the span length. For cladding fasteners, the effective wind area shall not be greater than the area that is tributary to an individual fastener.
 - b. For effective areas between those given above, the load may be interpolated; otherwise, use the load associated with the lower effective area.
 - c. Table values shall be adjusted for height and exposure by multiplying by the adjustment coefficient in Table R301.2(3).
 - d. See Figure R301.2(7) for location of zones.
 - e. Plus and minus signs signifying pressures acting toward and away from the building surfaces.
 - f. Positive design wind pressures shall not be less than +16 psf and negative design wind pressures shall not be less than -16 psf.
 - g. For allowable stress design and for testing as specified in Section R301.2.1.6, component and cladding loads are permitted to be multiplied by 0.6.

TABLE R301.2(4)
GARAGE DOOR LOADS FOR A BUILDING WITH A
MEAN HEIGHT OF 30 FEET LOCATED IN EXPOSURE B (PSF) ^{1,2,3,4,5}

Roof Angle > 10 degrees		Ultimate Design Wind Speed (V_{ult}) Determined in Accordance with Section R301.2.1 (mph - 3 Second Gust)													
Width (ft)	Height (ft)	130 mph		135 mph		140 mph		145 mph		150 mph		155 mph		160 mph	
9	7	16.1	-18.2	17.3	-19.6	18.5	-20.9	19.9	-22.5	21.3	-24.1	22.8	-25.8	24.3	-27.5
16	7	15.5	-17.2	16.6	-18.5	17.7	-19.7	19.1	-21.2	20.4	-22.7	21.9	-24.4	23.3	-26
		101 mph		105 mph		108 mph		112 mph		116 mph		120 mph		124 mph	

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m², 1 miles per hour = 1.609 km/h

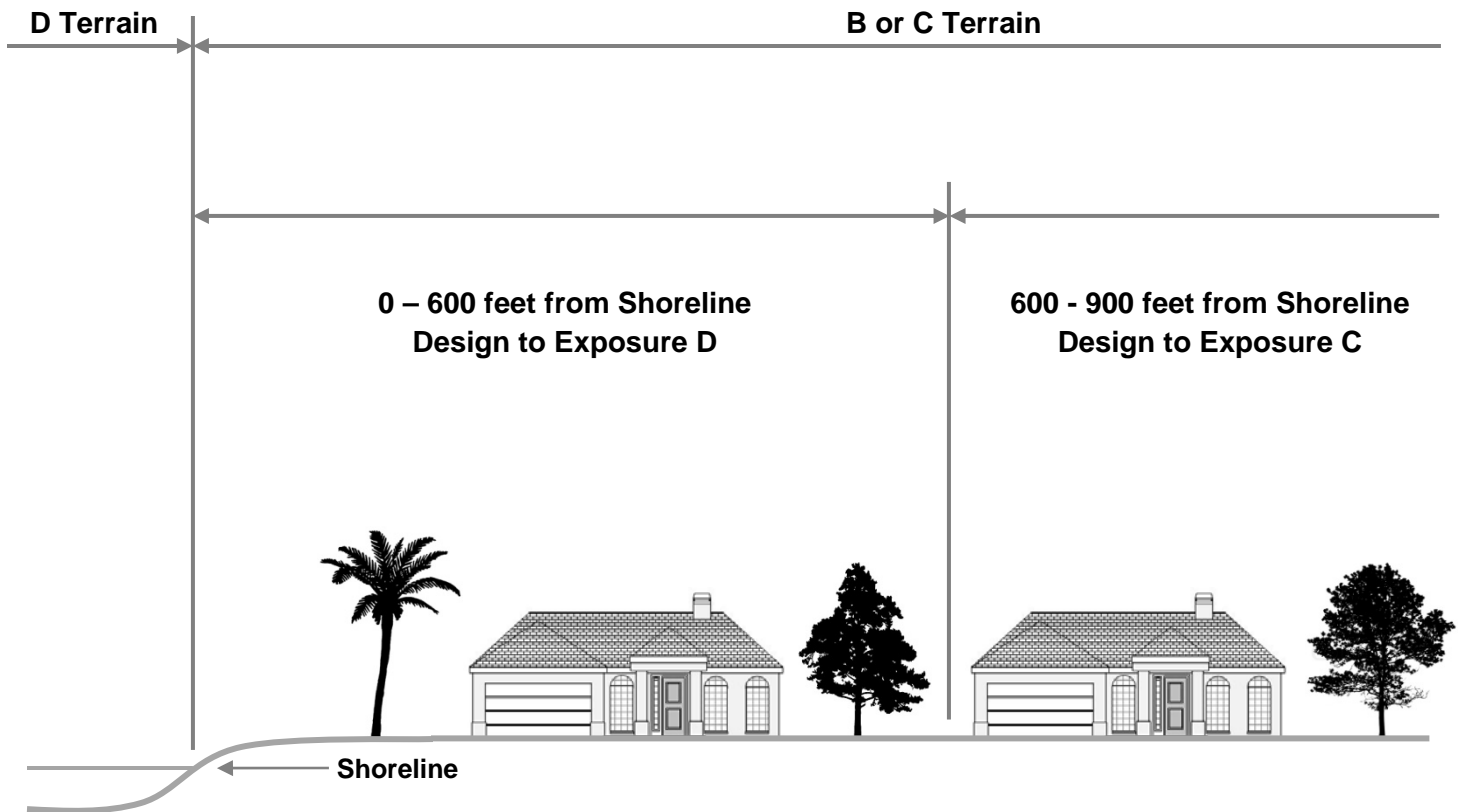
1. For effective areas or wind speeds between those given above the load maybe interpolated otherwise use the load associated with the lower effective area.
2. Table values shall be adjusted for height and exposure by multiplying by the adjustment coefficient in Table R301.2(3)
3. Plus and minus signs signifying pressures acting toward and away fro the building surfaces.
4. Negative pressures assume door has 2 feet of width in building's end zone.
5. Table values include the 0.6 load reduction factor.



For SI: 1 foot = 304.8 mm, 1 degree = 0.0175 rad.

Note: a = 4 feet in all cases.

FIGURE R301.2(7)
COMPONENT AND CLADDING PRESSURE ZONES



Exposure Diagram

FBC 1609.4.2/3



You are able to easily determine the Exposure Category of a structure by using the measuring tool on the Pinellas County Public GIS Viewer or Google Earth. You would simply measure from the shoreline of the body of water to the structure. The internet links for each are below:

http://gis.pinellascounty.org/public_gis/

<http://www.google.com/earth/>