

3 WIND DESIGN ROOF PLAN
S1.2 SCALE: 1/16" = 1'-0"

WIND DESIGN DATA:

CODE:
ASCE 7-10 FLORIDA BUILDING CODE, (SIXTH EDITION) 2017.

BASIC WIND SPEED 148 mph (Vult)
 115 mph (Vasd)

CATEGORY (RISK) III

EXPOSURE C

BUILDING HEIGHT 51ft.

ENCLOSURE CLASSIFICATION ENCLOSED

INTERNAL PRESSURE COEFFICIENT ± 0.18

* GLAZED OPENINGS IN RISK CATEGORY II, III, IV LOCATED IN HURRICANE PRONE REGIONS SHALL BE PROTECTED IN ACCORDANCE WITH FBC 2017 SEC. 1609.1.2

LOAD SCHEDULE:

MEZZANINE LOADS:

DEAD LOAD	
2" COMP. MTL DECK W/ 3" NWC TOPPING	= 51 PSF
STEEL FRAMING	= 5 PSF
CEILING	= 3 PSF
INSULATION	= 5 PSF
MEP	= 7 PSF
MISCELLANEOUS FLOORING	= 2 PSF
TOTAL DEAD LOAD	= 78 PSF
LIVE LOAD	
MEZZANINE LL	= 60 PSF
MEZZANINE TOTAL LOAD	= 138 PSF

LOW ROOF LOADS:

DEAD LOAD	
2" COMP. MTL DECK W/ 3" NWC TOPPING	= 51 PSF
STEEL FRAMING	= 5 PSF
CEILING	= 3 PSF
INSULATION	= 5 PSF
MEP	= 7 PSF
MISCELLANEOUS FLOORING	= 2 PSF
TOTAL DEAD LOAD	= 78 PSF
LIVE LOAD	
FUTURE FLOOR LL	= 100 PSF
LOW ROOF TOTAL LOAD	= 178 PSF

HIGH ROOF LOADS:

DEAD LOAD	
3" MTL DECK	= 3 PSF
STEEL FRAMING	= 5 PSF
CEILING	= 3 PSF
INSULATION	= 5 PSF
MEP	= 7 PSF
MISCELLANEOUS FLOORING	= 2 PSF
TOTAL DEAD LOAD	= 30 PSF
LIVE LOAD	
FUTURE FLOOR LL	= 20 PSF
HIGH ROOF TOTAL LOAD	= 50 PSF

COMPONENTS AND CLADDING (ULTIMATE) GABLE PRESSURE SCHEDULE

PATTERN	ZONE	MAIN ROOF				
		10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.
1	3	+30 PSF/-12 PSF	+26 PSF/-11 PSF	+26 PSF/-9 PSF	+24 PSF/-7 PSF	+24 PSF/-7 PSF
	2	+30 PSF/-12 PSF	+28 PSF/-11 PSF	+26 PSF/-9 PSF	+24 PSF/-7 PSF	+24 PSF/-7 PSF
2	3	+30 PSF/-12 PSF	+28 PSF/-11 PSF	+26 PSF/-9 PSF	+24 PSF/-7 PSF	+24 PSF/-7 PSF
	2	+30 PSF/-12 PSF	+28 PSF/-11 PSF	+26 PSF/-9 PSF	+24 PSF/-7 PSF	+24 PSF/-7 PSF
3	3	+30 PSF/-12 PSF	+28 PSF/-11 PSF	+26 PSF/-9 PSF	+24 PSF/-7 PSF	+24 PSF/-7 PSF
	2	+30 PSF/-12 PSF	+28 PSF/-11 PSF	+26 PSF/-9 PSF	+24 PSF/-7 PSF	+24 PSF/-7 PSF
4	3	+30 PSF/-12 PSF	+28 PSF/-11 PSF	+26 PSF/-9 PSF	+24 PSF/-7 PSF	+24 PSF/-7 PSF
	2	+30 PSF/-12 PSF	+28 PSF/-11 PSF	+26 PSF/-9 PSF	+24 PSF/-7 PSF	+24 PSF/-7 PSF
5	3	+30 PSF/-12 PSF	+28 PSF/-11 PSF	+26 PSF/-9 PSF	+24 PSF/-7 PSF	+24 PSF/-7 PSF
	2	+30 PSF/-12 PSF	+28 PSF/-11 PSF	+26 PSF/-9 PSF	+24 PSF/-7 PSF	+24 PSF/-7 PSF

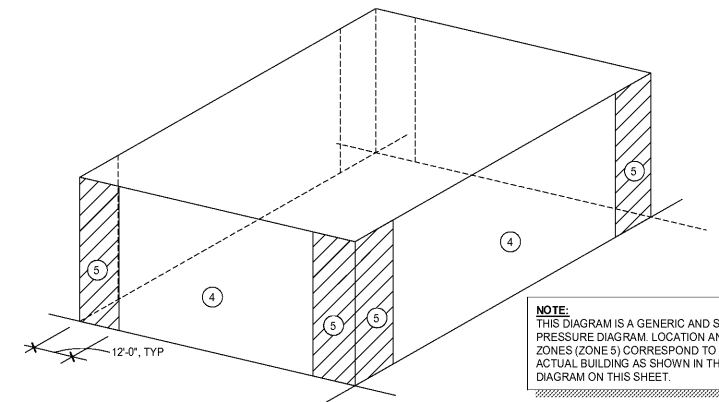
COMPONENTS AND CLADDING DESIGN WIND PRESSURE (ULTIMATE) FOR WALLS, DOORS & WINDOWS

PATTERN	ZONE	EFFECTIVE WIND AREA				
		10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.
4	4	+73 PSF/-79 PSF	+70 PSF/-76 PSF	+67 PSF/-73 PSF	+61 PSF/-67 PSF	+54 PSF/-61 PSF
	5	+73 PSF/-79 PSF	+70 PSF/-76 PSF	+67 PSF/-73 PSF	+61 PSF/-67 PSF	+54 PSF/-61 PSF

NOTE:

- ALL EXTERIOR DOORS & WINDOW ASSEMBLIES SHALL SATISFY THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (SIXTH EDITION 2017, SECTION 1709.5). ALL CONNECTIONS TO BUILDING STRUCTURE SHALL HAVE THE CAPACITY TO WITHSTAND THE PRESSURES INDICATED IN THIS SCHEDULE.
- PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
- ALL WIND PRESSURE VALUES INDICATED ARE IN POUNDS PER SQUARE FOOT (PSF). MULTIPLY ULTIMATE WIND PRESSURE BY 0.60 FOR ASD PRESSURE.

2 WIND DESIGN & LOAD SCHEDULE
S1.2 SCALE: 1/8" = 1'-0"



1 WALL PRESSURES DIAGRAM
S1.2 SCALE: 1/8" = 1'-0"

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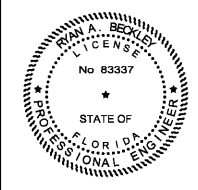
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I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL RELEVANT BUILDING CODES.

PERMIT SET



FGA PROJECT NUMBER
19048

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04-15-2020

REVISIONS	
NO.	NOTES

SHEET NAME
WIND DESIGN DATA AND LOAD SCHEDULE

SHEET NUMBER
S1.2