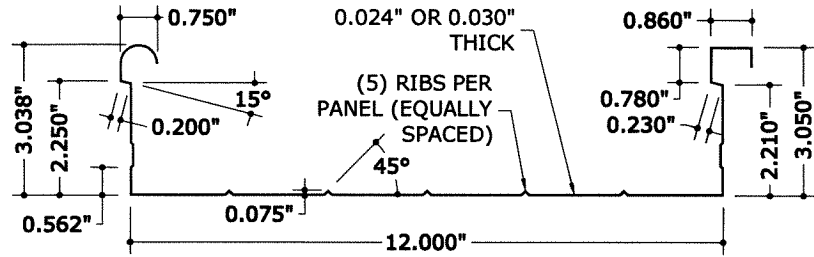
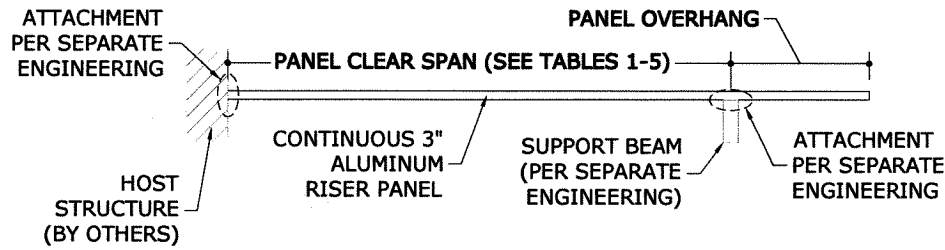


3" ALUMINUM ROOF RISER PANELS

0.024" AND 0.030" THICK CLEAR SPAN TABLES



1 3" ALUMINUM RISER PANELS
1 N.T.S. SECTION VIEW



2 3" ALUMINUM RISER PANELS
1 N.T.S. SIDE ELEVATION

TABLE 1: OPEN ROOF ALLOWABLE PANEL SPANS (5° MAX ROOF SLOPE, NO OVERHANG)

WIND SPEED	EXPOSURE CATEGORY	GRAVITY DESIGN PRESSURE (+)	UPLIFT DESIGN PRESSURE (-)	MAXIMUM SPAN (0.024")	MAXIMUM SPAN (0.030")
110 MPH	B	14.44 PSF	-13.22 PSF	117.6"	134.0"
110 MPH	C	15.48 PSF	-16.28 PSF	113.4"	134.0"
115 MPH	B	14.90 PSF	-14.57 PSF	117.0"	134.0"
115 MPH	C	16.04 PSF	-17.90 PSF	106.7"	134.0"
120 MPH	B	15.38 PSF	-15.97 PSF	114.7"	134.0"
120 MPH	C	16.62 PSF	-19.60 PSF	99.7"	134.0"
130 MPH	B	16.40 PSF	-18.95 PSF	102.4"	134.0"
130 MPH	C	17.86 PSF	-23.21 PSF	84.9"	131.5"
140 MPH	B	17.50 PSF	-22.17 PSF	89.2"	133.2"
140 MPH	C	19.19 PSF	-27.11 PSF	68.9"	123.6"
150 MPH	B	18.68 PSF	-25.62 PSF	75.0"	126.7"
150 MPH	C	20.63 PSF	-31.30 PSF	0.0"	115.2"
160 MPH	B	19.95 PSF	-29.32 PSF	59.8"	119.2"
160 MPH	C	22.16 PSF	-35.78 PSF	0.0"	106.1"
170 MPH	B	21.30 PSF	-33.25 PSF	0.0"	111.2"
170 MPH	C	23.79 PSF	-40.55 PSF	0.0"	96.4"
180 MPH	B	22.73 PSF	-37.43 PSF	0.0"	102.7"
180 MPH	C	25.52 PSF	-45.60 PSF	0.0"	86.2"

TABLE 1 NOTES:
1. THE ALLOWABLE PRESSURES (ASD) LISTED IN THIS TABLE WERE DERIVED USING ASCE 7-10 "ROOF OVER OPEN STRUCTURE" C&C METHODOLOGY, OBSTRUCTED WIND FLOW, MONOSLOPE, 5° ROOF SLOPE, 30' MRH FOR EXP. B AND 15' MRH FOR EXP. C, 36 SQFT EFFECTIVE WIND AREA.

TABLE 3: OPEN ROOF ALLOWABLE PANEL SPANS (5.1°-13° MAX ROOF SLOPE, NO OVERHANG)

WIND SPEED	EXPOSURE CATEGORY	GRAVITY DESIGN PRESSURE (+)	UPLIFT DESIGN PRESSURE (-)	MAXIMUM SPAN (0.024")	MAXIMUM SPAN (0.030")
110 MPH	B	17.21 PSF	-17.55 PSF	108.1"	133.5"
110 MPH	C	18.85 PSF	-21.52 PSF	91.8"	131.9"
115 MPH	B	17.93 PSF	-19.30 PSF	101.0"	132.8"
115 MPH	C	19.72 PSF	-23.63 PSF	83.2"	130.7"
120 MPH	B	18.68 PSF	-21.12 PSF	93.5"	132.1"
120 MPH	C	20.62 PSF	-25.84 PSF	74.1"	126.2"
130 MPH	B	20.27 PSF	-24.99 PSF	77.6"	127.9"
130 MPH	C	22.56 PSF	-30.54 PSF	0.0"	116.7"
140 MPH	B	22.00 PSF	-29.18 PSF	60.4"	119.5"
140 MPH	C	24.64 PSF	-35.61 PSF	0.0"	106.4"
150 MPH	B	23.84 PSF	-33.67 PSF	0.0"	110.4"
150 MPH	C	26.88 PSF	-41.05 PSF	0.0"	95.4"
160 MPH	B	25.82 PSF	-38.47 PSF	0.0"	100.6"
160 MPH	C	29.28 PSF	-46.87 PSF	0.0"	83.6"
170 MPH	B	27.92 PSF	-43.59 PSF	0.0"	90.3"
170 MPH	C	31.82 PSF	-53.07 PSF	0.0"	71.0"
180 MPH	B	30.16 PSF	-49.01 PSF	0.0"	79.3"
180 MPH	C	35.37 PSF	-59.64 PSF	0.0"	57.7"

TABLE 3 NOTES:
1. THE ALLOWABLE PRESSURES (ASD) LISTED IN THIS TABLE WERE DERIVED USING ASCE 7-10 "ROOF OVER OPEN STRUCTURE" C&C METHODOLOGY, OBSTRUCTED WIND FLOW, MONOSLOPE, 13° ROOF SLOPE, 30' MRH FOR EXP. B AND 15' MRH FOR EXP. C, 36 SQFT EFFECTIVE WIND AREA.

TABLE 2: OPEN ROOF ALLOWABLE PANEL SPANS (5° MAX ROOF SLOPE, 24" MAX OVERHANG)

WIND SPEED	EXPOSURE CATEGORY	GRAVITY DESIGN PRESSURE (+)	UPLIFT DESIGN PRESSURE (-)	MAXIMUM SPAN (0.024")	MAXIMUM SPAN (0.030")
110 MPH	B	14.44 PSF	-13.22 PSF	120.0"	134.0"
110 MPH	C	15.48 PSF	-16.28 PSF	120.0"	134.0"
115 MPH	B	14.90 PSF	-14.57 PSF	120.0"	134.0"
115 MPH	C	16.04 PSF	-17.90 PSF	114.0"	134.0"
120 MPH	B	15.38 PSF	-15.97 PSF	120.0"	134.0"
120 MPH	C	16.62 PSF	-19.60 PSF	106.5"	134.0"
130 MPH	B	16.40 PSF	-18.95 PSF	109.4"	134.0"
130 MPH	C	17.86 PSF	-23.21 PSF	90.7"	134.0"
140 MPH	B	17.50 PSF	-22.17 PSF	95.3"	134.0"
140 MPH	C	19.19 PSF	-27.11 PSF	73.6"	132.1"
150 MPH	B	18.68 PSF	-25.62 PSF	80.1"	134.0"
150 MPH	C	20.63 PSF	-31.30 PSF	0.0"	123.0"
160 MPH	B	19.95 PSF	-29.32 PSF	63.9"	127.3"
160 MPH	C	22.16 PSF	-35.78 PSF	0.0"	113.3"
170 MPH	B	21.30 PSF	-33.25 PSF	0.0"	118.8"
170 MPH	C	23.79 PSF	-40.55 PSF	0.0"	103.0"
180 MPH	B	22.73 PSF	-37.43 PSF	0.0"	109.7"
180 MPH	C	25.52 PSF	-45.60 PSF	0.0"	92.0"

TABLE 2 NOTES:
1. THE ALLOWABLE PRESSURES (ASD) LISTED IN THIS TABLE WERE DERIVED USING ASCE 7-10 "ROOF OVER OPEN STRUCTURE" C&C METHODOLOGY, OBSTRUCTED WIND FLOW, MONOSLOPE, 5° ROOF SLOPE, 30' MRH FOR EXP. B AND 15' MRH FOR EXP. C, 36 SQFT EFFECTIVE WIND AREA.
2. THIS TABLE ASSUMES A ROOF OVERHANG BETWEEN 18" MINIMUM AND 24" MAXIMUM. IF DESIRED ROOF OVERHANG IS LESS THAN 18", USE TABLE 1.

TABLE 4: OPEN ROOF ALLOWABLE PANEL SPANS (5.1°-13° MAX ROOF SLOPE, 24" MAX OVERHANG)

WIND SPEED	EXPOSURE CATEGORY	GRAVITY DESIGN PRESSURE (+)	UPLIFT DESIGN PRESSURE (-)	MAXIMUM SPAN (0.024")	MAXIMUM SPAN (0.030")
110 MPH	B	17.21 PSF	-17.55 PSF	115.5"	134.0"
110 MPH	C	18.85 PSF	-21.52 PSF	98.1"	134.0"
115 MPH	B	17.93 PSF	-19.30 PSF	107.9"	134.0"
115 MPH	C	19.72 PSF	-23.63 PSF	88.8"	134.0"
120 MPH	B	18.68 PSF	-21.12 PSF	99.9"	134.0"
120 MPH	C	20.62 PSF	-25.84 PSF	79.1"	134.0"
130 MPH	B	20.27 PSF	-24.99 PSF	82.9"	134.0"
130 MPH	C	22.56 PSF	-30.54 PSF	0.0"	124.7"
140 MPH	B	22.00 PSF	-29.18 PSF	64.5"	127.6"
140 MPH	C	24.64 PSF	-35.61 PSF	0.0"	113.7"
150 MPH	B	23.84 PSF	-33.67 PSF	0.0"	117.9"
150 MPH	C	26.88 PSF	-41.05 PSF	0.0"	101.9"
160 MPH	B	25.82 PSF	-38.47 PSF	0.0"	107.5"
160 MPH	C	29.28 PSF	-46.87 PSF	0.0"	89.3"
170 MPH	B	27.92 PSF	-43.59 PSF	0.0"	96.4"
170 MPH	C	31.82 PSF	-53.07 PSF	0.0"	75.9"
180 MPH	B	30.16 PSF	-49.01 PSF	0.0"	84.7"
180 MPH	C	35.37 PSF	-59.64 PSF	0.0"	61.7"

TABLE 4 NOTES:
1. THE ALLOWABLE PRESSURES (ASD) LISTED IN THIS TABLE WERE DERIVED USING ASCE 7-10 "ROOF OVER OPEN STRUCTURE" C&C METHODOLOGY, OBSTRUCTED WIND FLOW, MONOSLOPE, 13° ROOF SLOPE, 30' MRH FOR EXP. B AND 15' MRH FOR EXP. C, 36 SQFT EFFECTIVE WIND AREA.
2. THIS TABLE ASSUMES A ROOF OVERHANG BETWEEN 18" MINIMUM AND 24" MAXIMUM. IF DESIRED ROOF OVERHANG IS LESS THAN 18", USE TABLE 3.

DESIGN NOTES

- THE DESIGN PRESSURE VALUES LISTED IN THE TABLES HEREIN ARE ALLOWABLE PRESSURES. IF ULTIMATE DESIGN PRESSURES ARE REQUIRED, MULTIPLY THE ALLOWABLE DESIGN PRESSURES BY 1.67 (ULTIMATE PRESSURE = ALLOWABLE PRESSURE * 1.67).
- THIS PRODUCT IS APPROVED FOR NON-HABITABLE (CATEGORY I) STRUCTURES ONLY.
- ALL ROOF PANEL SPANS LISTED HEREIN ASSUME A MAXIMUM DEFLECTION OF L/60.
- LINEAR INTERPOLATION OF THE ROOF PANEL SPANS LISTED HEREIN IS PERMITTED.
- THE TABLES HEREIN ASSUME A 10 PSF LIVE LOAD. IF THE LOCAL JURISDICTION HAVING AUTHORITY REQUIRES HIGHER LIVE LOADS, SITE SPECIFIC ENGINEERING IS REQUIRED.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR. IF A 2.0 SAFETY FACTOR IS REQUIRED BY LOCAL JURISDICTION, SPANS SHALL BE MULTIPLIED BY A REDUCTION FACTOR OF 0.66. FOR OPTIMIZED SPANS WITH A 2.0 SAFETY FACTOR, SITE SPECIFIC ENGINEERING IS REQUIRED.

GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED (TEST REPORT #F6717.01-401-44-R0 BY ARCHITECTURAL TESTING, INC.) IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SIXTH EDITION (2017), THE INTERNATIONAL BUILDING CODE (IBC) AND THE INTERNATIONAL RESIDENTIAL CODE (IRC) FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. SEE PRODUCT EVALUATION REPORT FOR ADDITIONAL INFORMATION.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM WERE DETERMINED PER ASCE 7-10 AND CHAPTER 1609 OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017) PER THE TABLE NOTES LISTED HEREIN. IF ALTERNATE METHODOLOGY IS REQUIRED PER LOCAL GOVERNING JURISDICTION, DESIGN PRESSURES SHALL BE CALCULATED ON A SITE SPECIFIC BASIS AND MUST BE LESS THAN OR EQUAL TO THE POSITIVE AND NEGATIVE DESIGN PRESSURES LISTED HEREIN.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- THESE INSTALLATION INSTRUCTIONS ARE PART OF A PRODUCT APPROVAL EVALUATION AND SHALL ONLY BE USED IN CONJUNCTION WITH THE EVALUATION REPORT SUBMITTED FOR THE SAME PRODUCT APPROVAL. USE OF THESE APPROVAL DOCUMENTS SHALL COMPLY WITH CHAPTER 61G20-3.005 OF THE FLORIDA ADMINISTRATIVE CODE.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. BRICK VENEER PER ASTM C62 (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER ANY APPLICABLE LOADS TO THE EXISTING HOST STRUCTURE.
- ALUMINUM RISER PANELS SHALL BE 3105-H14 OR EQUIVALENT ALUMINUM ALLOY, TESTED THICKNESS 0.024" OR 0.030".
- ALL PANEL ATTACHMENTS SHALL BE CERTIFIED PER SEPARATE ENGINEERING ON A SITE SPECIFIC BASIS.
- CONTRACTOR IS RESPONSIBLE TO INSULATE OR PROTECT ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- THE CONTRACTOR IS RESPONSIBLE FOR WATER/WEATHER PROOFING MATERIALS AND INSTALLATION SUCH AS FLASHING, CAULKING, ETC.
- ////// REPRESENTS PANEL SPANS NOT APPROVED FOR USE.

TABLE 5: SCREENED ENCLOSURE ALLOWABLE PANEL SPANS (10° MAX ROOF SLOPE, 24" MAX OVERHANG)

WIND SPEED	EXPOSURE CATEGORY	GRAVITY DESIGN PRESSURE (+)	UPLIFT DESIGN PRESSURE (-)	MAXIMUM SPAN (0.024")	MAXIMUM SPAN (0.030")
110 MPH	B	16.00 PSF	-18.26 PSF	112.6"	134.0"
110 MPH	C	16.00 PSF	-22.13 PSF	107.4"	133.7"
115 MPH	B	16.00 PSF	-19.96 PSF	110.3"	134.0"
115 MPH	C	16.00 PSF	-24.18 PSF	104.7"	129.6"
120 MPH	B	16.00 PSF	-21.73 PSF	107.9"	134.0"
120 MPH	C	16.00 PSF	-26.33 PSF	101.8"	125.2"
130 MPH	B	16.00 PSF	-25.51 PSF	102.9"	126.9"
130 MPH	C	16.00 PSF	-30.91 PSF	0.0"	115.9"
140 MPH	B	16.00 PSF	-29.58 PSF	97.5"	118.6"
140 MPH	C	17.26 PSF	-35.84 PSF	0.0"	106.0"
150 MPH	B	16.35 PSF	-33.96 PSF	0.0"	109.8"
150 MPH	C	19.81 PSF	-41.15 PSF	0.0"	95.2"
160 MPH	B	18.60 PSF	-38.64 PSF	0.0"	100.3"
160 MPH	C	22.54 PSF	-46.81 PSF	0.0"	83.7"
170 MPH	B	21.00 PSF	-43.62 PSF	0.0"	90.2"
170 MPH	C	25.44 PSF	-52.85 PSF	0.0"	71.5"
180 MPH	B	23.54 PSF	-48.90 PSF	0.0"	79.5"
180 MPH	C	28.53 PSF	-59.25 PSF	0.0"	58.5"

TABLE 5 NOTES:
1. THE ALLOWABLE PRESSURES (ASD) LISTED IN THIS TABLE WERE DERIVED USING ASCE 7-10 "PARTIALLY ENCLOSED STRUCTURE" C&C METHODOLOGY, MONOSLOPE, 10° ROOF SLOPE, 30' MRH FOR EXP. B AND 15' MRH FOR EXP. C, 36 SQFT EFFECTIVE WIND AREA.
2. THIS TABLE ALLOWS FOR A ROOF OVERHANG BETWEEN 0" AND 24".

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