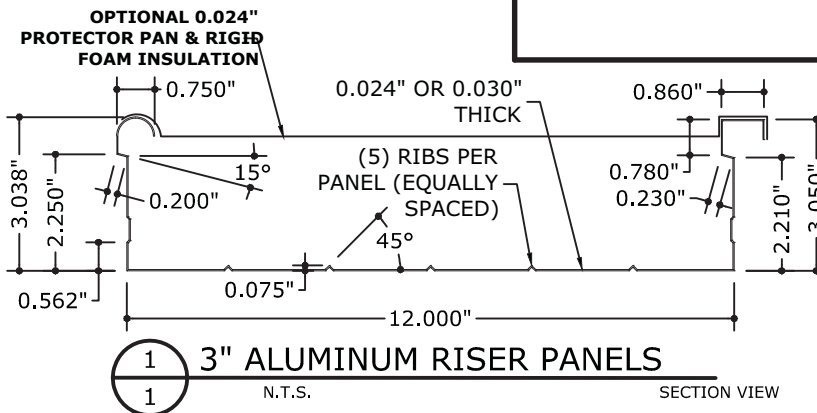
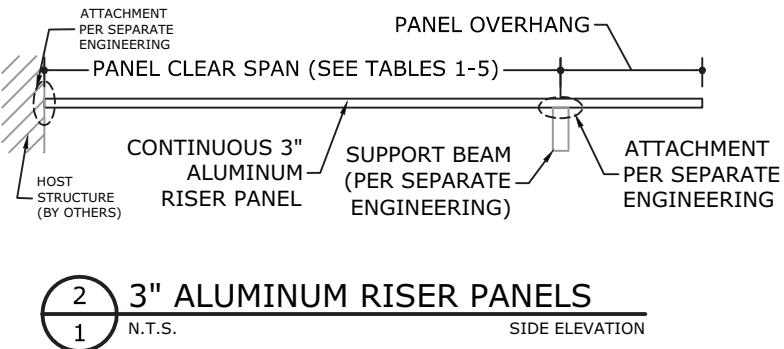


# 3" ALUMINUM ROOF RISER PANELS

## 0.024" AND 0.030" THICK CLEAR SPAN TABLES



- TO INSTALL OPTIONAL INSULATION:
1. INSTALL RIGID FOAM INSULATION INTO ROOF PAN COVER INSULATION WITH 0.024" PROTECTOR PAN AS SHOWN
  2. CAP OPEN ENDS WITH ALUMINUM TO MATCH PROTECTOR PAN
  3. FASTEN PAN & END CAPS WITH #8 X 1/2" HWH SDS SCREWS @ 24" O.C. AT BOTH ENDS
  4. ENSURE FIRST SCREW AT HEADER IS WITHIN 6" & SCREWS AT ENDS WITHIN LAST 3"



**TABLE 1: OPEN ROOF ALLOWABLE PANEL SPANS (OPEN, AT EAVE HEIGHT WITHOUT OVERHANG)**

WIND SPEED	EXPOSURE CATEGORY	GRAVITY DESIGN PRESSURE (+)	UPLIFT DESIGN PRESSURE (-)	MAXIMUM SPAN (0.024")	MAXIMUM SPAN (0.030")
110 MPH	B	16.56 PSF	-13.47 PSF	114.8"	134.0"
110 MPH	C	18.05 PSF	-16.58 PSF	112.1"	132.7"
115 MPH	B	17.22 PSF	-14.84 PSF	113.9"	133.5"
115 MPH	C	18.85 PSF	-18.23 PSF	105.4"	131.9"
120 MPH	B	17.90 PSF	-16.26 PSF	113.0"	132.8"
120 MPH	C	19.68 PSF	-19.96 PSF	98.3"	131.1"
130 MPH	B	19.36 PSF	-19.29 PSF	101.0"	131.4"
130 MPH	C	21.45 PSF	-23.63 PSF	83.2"	129.4"
140 MPH	B	20.94 PSF	-22.57 PSF	87.5"	129.9"
140 MPH	C	23.36 PSF	-27.60 PSF	66.9"	122.7"
150 MPH	B	22.63 PSF	-26.09 PSF	73.1"	125.7"
150 MPH	C	25.41 PSF	-31.86 PSF	64.0"	114.0"
160 MPH	B	24.44 PSF	-29.84 PSF	57.7"	118.1"
160 MPH	C	27.60 PSF	-36.42 PSF	0.0"	104.8"
170 MPH	B	26.63 PSF	-33.85 PSF	0.0"	110.0"
170 MPH	C	29.93 PSF	-41.27 PSF	0.0"	95.0"
180 MPH	B	28.41 PSF	-38.09 PSF	0.0"	101.4"
180 MPH	C	32.54 PSF	-46.41 PSF	0.0"	84.5"

- TABLE 1 NOTES:
1. THE ALLOWABLE PRESSURES (ASD) LISTED IN THIS TABLE WERE DERIVED USING ASCE 7-16 "ATTACHED CANOPY" METHODOLOGY.

**TABLE 3: OPEN ROOF ALLOWABLE PANEL SPANS (OPEN, BELOW EAVE HEIGHT WITHOUT OVERHANG)**

WIND SPEED	EXPOSURE CATEGORY	GRAVITY DESIGN PRESSURE (+)	UPLIFT DESIGN PRESSURE (-)	MAXIMUM SPAN (0.024")	MAXIMUM SPAN (0.030")
110 MPH	B	16.56 PSF	-8.20 PSF	114.8"	134.0"
110 MPH	C	18.05 PSF	-10.18 PSF	112.8"	132.7"
115 MPH	B	17.22 PSF	-9.07 PSF	113.9"	133.5"
115 MPH	C	18.85 PSF	-11.24 PSF	111.8"	131.9"
120 MPH	B	17.90 PSF	-9.98 PSF	113.0"	132.8"
120 MPH	C	19.68 PSF	-12.35 PSF	110.7"	131.1"
130 MPH	B	19.36 PSF	-11.92 PSF	111.1"	131.4"
130 MPH	C	21.45 PSF	-14.70 PSF	108.3"	129.4"
140 MPH	B	20.94 PSF	-14.02 PSF	109.0"	129.9"
140 MPH	C	23.36 PSF	-17.24 PSF	105.8"	127.6"
150 MPH	B	22.63 PSF	-16.27 PSF	106.7"	128.3"
150 MPH	C	25.41 PSF	-19.97 PSF	98.2"	125.6"
160 MPH	B	24.44 PSF	-18.68 PSF	103.5"	126.5"
160 MPH	C	27.60 PSF	-22.88 PSF	86.3"	123.5"
170 MPH	B	26.63 PSF	-21.24 PSF	93.0"	124.4"
170 MPH	C	29.93 PSF	-25.99 PSF	73.5"	121.2"
180 MPH	B	28.41 PSF	-23.96 PSF	81.8"	122.7"
180 MPH	C	32.54 PSF	-29.28 PSF	60.0"	118.7"

- TABLE 3 NOTES:
1. THE ALLOWABLE PRESSURES (ASD) LISTED IN THIS TABLE WERE DERIVED USING ASCE 7-16 "ATTACHED CANOPY" METHODOLOGY.

**TABLE 2: OPEN ROOF ALLOWABLE PANEL SPANS (OPEN, AT EAVE HEIGHT WITH OVERHANG)**

WIND SPEED	EXPOSURE CATEGORY	GRAVITY DESIGN PRESSURE (+)	UPLIFT DESIGN PRESSURE (-)	MAXIMUM SPAN (0.024")	MAXIMUM SPAN (0.030")
110 MPH	B	16.56 PSF	-13.47 PSF	120.0"	134.0"
110 MPH	C	18.05 PSF	-16.58 PSF	119.8"	134.0"
115 MPH	B	17.22 PSF	-14.84 PSF	120.0"	134.0"
115 MPH	C	18.85 PSF	-18.23 PSF	112.5"	134.0"
120 MPH	B	17.90 PSF	-16.26 PSF	120.0"	134.0"
120 MPH	C	19.68 PSF	-19.96 PSF	104.9"	134.0"
130 MPH	B	19.36 PSF	-19.29 PSF	107.9"	134.0"
130 MPH	C	21.45 PSF	-23.63 PSF	88.8"	134.0"
140 MPH	B	20.94 PSF	-22.57 PSF	93.5"	134.0"
140 MPH	C	23.36 PSF	-27.60 PSF	71.4"	131.0"
150 MPH	B	22.63 PSF	-26.09 PSF	78.0"	134.0"
150 MPH	C	25.41 PSF	-31.86 PSF	64.0"	121.8"
160 MPH	B	24.44 PSF	-29.84 PSF	61.6"	126.2"
160 MPH	C	27.60 PSF	-36.42 PSF	0.0"	111.9"
170 MPH	B	26.63 PSF	-33.85 PSF	0.0"	117.5"
170 MPH	C	29.93 PSF	-41.27 PSF	0.0"	101.4"
180 MPH	B	28.41 PSF	-38.09 PSF	0.0"	108.3"
180 MPH	C	32.54 PSF	-46.41 PSF	0.0"	90.3"

- TABLE 2 NOTES:
1. THE ALLOWABLE PRESSURES (ASD) LISTED IN THIS TABLE WERE DERIVED USING ASCE 7-16 "ATTACHED CANOPY" METHODOLOGY.
  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 (OPEN, BELOW EAVE HEIGHT WITH OVERHANG)**

WIND SPEED	EXPOSURE CATEGORY	GRAVITY DESIGN PRESSURE (+)	UPLIFT DESIGN PRESSURE (-)	MAXIMUM SPAN (0.024")	MAXIMUM SPAN (0.030")
110 MPH	B	16.56 PSF	-8.20 PSF	120.0"	134.0"
110 MPH	C	18.05 PSF	-10.18 PSF	120.0"	134.0"
115 MPH	B	17.22 PSF	-9.07 PSF	120.0"	134.0"
115 MPH	C	18.85 PSF	-11.24 PSF	119.4"	134.0"
120 MPH	B	17.90 PSF	-9.98 PSF	120.0"	134.0"
120 MPH	C	19.68 PSF	-12.35 PSF	118.2"	134.0"
130 MPH	B	19.36 PSF	-11.92 PSF	118.7"	134.0"
130 MPH	C	21.45 PSF	-14.70 PSF	115.7"	134.0"
140 MPH	B	20.94 PSF	-14.02 PSF	116.4"	134.0"
140 MPH	C	23.36 PSF	-17.24 PSF	113.0"	134.0"
150 MPH	B	22.63 PSF	-16.27 PSF	114.0"	134.0"
150 MPH	C	25.41 PSF	-19.97 PSF	104.9"	134.0"
160 MPH	B	24.44 PSF	-18.68 PSF	110.6"	134.0"
160 MPH	C	27.60 PSF	-22.88 PSF	92.1"	131.9"
170 MPH	B	26.63 PSF	-21.24 PSF	99.3"	132.9"
170 MPH	C	29.93 PSF	-25.99 PSF	78.5"	129.5"
180 MPH	B	28.41 PSF	-23.96 PSF	87.4"	131.1"
180 MPH	C	32.54 PSF	-29.28 PSF	64.0"	126.8"

- TABLE 4 NOTES:
1. THE ALLOWABLE PRESSURES (ASD) LISTED IN THIS TABLE WERE DERIVED USING ASCE 7-16 "ATTACHED CANOPY" METHODOLOGY.
  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

1. 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)
2. THIS PRODUCT IS APPROVED FOR NON-HABITABLE (CATEGORY 1) STRUCTURES ONLY
3. ALL ROOF PANEL SPANS LISTED HEREIN ASSUME A MAXIMUM DEFLECTION OF L/60.
4. LINEAR INTERPOLATION OF THE ROOF PANEL SPANS LISTED HEREIN IS PERMITTED.
5. THE TABLES HEREIN ASSUME A 10 PSF LIVE LOAD. IF THE LOCAL JURISDICTION HAVING AUTHORITY REQUIRES HIGHER LIVE LOADS, SITE SPECIFIC ENGINEERING IS REQUIRED.
6. 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.

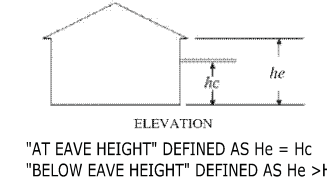
### GENERAL NOTES

1. 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 SEVENTH EDITION (2020), 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.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM WERE DETERMINED PER ASCE 7 AND CHAPTER 1609 OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) 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.
4. THE DESIGN PRESSURE CRITERIA LISTED HEREIN (PER ASCE 7-16 "ATTACHED CANOPY" - SECTION 30.11" METHODS) SHALL BE VERIFIED BY LOCAL JURISDICTION AS ACCEPTABLE FOR USE OR SHALL BE DETERMINED SEPARATELY ON A SITE SPECIFIC BASIS AND USED WITHIN THE LIMITATIONS OF THE TABLES HEREIN.
5. 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.
6. 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 OF THE FLORIDA ADMINISTRATIVE CODE.
7. 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.
8. ALUMINUM RISER PANELS SHALL BE 3105-H14 OR EQUIVALENT ALUMINUM ALLOY, TESTED THICKNESS 0.024" OR 0.030".
9. ALL PANEL ATTACHMENTS SHALL BE CERTIFIED PER SEPARATE ENGINEERING ON A SITE SPECIFIC BASIS.
10. CONTRACTOR IS RESPONSIBLE TO INSULATE OR PROTECT ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
11. THE CONTRACTOR IS RESPONSIBLE FOR WATER/WEATHER PROOFING MATERIALS AND INSTALLATION SUCH AS FLASHING, CAULKING, ETC.
12. Hatched areas 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	84.0"	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 7-16 "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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SEVENTH EDITION (2020)

REMARKS	DATE	DRWN	CHKD	DATE
INIT ISSUE	09/19/17	RWN	FLB	09/19/17
2020 FBC	7/01/20	CCB	RWN	7/01/20

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