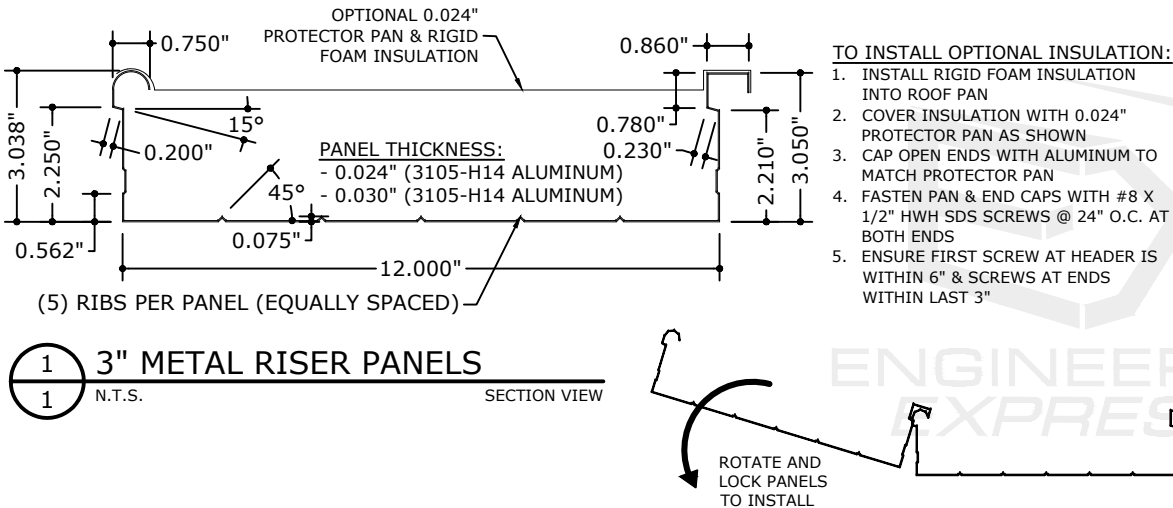


3" METAL ROOF RISER PANELS

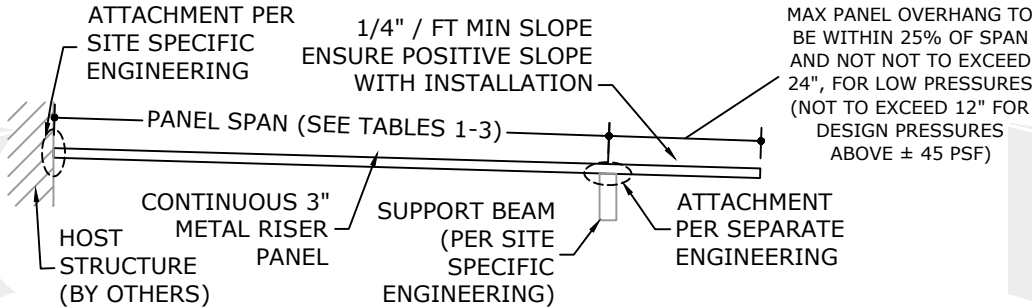


0.024" & 0.030" ALUMINUM CLEAR SPAN TABLES
NON-IMPACT RATED; NOT HVHZ RATED

THIS IS A NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.



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



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

TABLE 1A: 0.024" ALUM PANEL SPANS (POSITIVE PRESSURE)	
MAX POSITIVE PRESSURE (ASD)	MAXIMUM PANEL SPAN
+10.0 PSF	10' - 10"
+15.0 PSF	8' - 10"
+20.0 PSF	7' - 8"
+25.0 PSF	6' - 10"
+30.0 PSF	6' - 3"
+35.0 PSF	5' - 9"
+40.0 PSF	5' - 5"
+45.0 PSF	5' - 1"
+50.0 PSF	4' - 10"
+55.0 PSF	4' - 7"
+60.0 PSF	4' - 5"
+65.0 PSF	4' - 3"
+70.0 PSF	4' - 1"
+75.0 PSF	3' - 11"
+80.0 PSF	3' - 10"
+85.0 PSF	3' - 8"
+90.0 PSF	3' - 7"

TABLE 1B: 0.024" ALUM PANEL SPANS (NEGATIVE PRESSURE)	
MAX NEGATIVE PRESSURE (ASD)	MAXIMUM PANEL SPAN
-10.0 PSF	6' - 10"
-15.0 PSF	5' - 7"
-20.0 PSF	4' - 10"
-25.0 PSF	4' - 4"
-30.0 PSF	3' - 11"
-35.0 PSF	3' - 8"
-40.0 PSF	3' - 5"
-45.0 PSF	3' - 3"
-50.0 PSF	3' - 1"

TABLE 2A: 0.030" ALUM PANEL SPANS (POSITIVE PRESSURE)	
MAX POSITIVE PRESSURE (ASD)	MAXIMUM PANEL SPAN
+10.0 PSF	12' - 0"
+15.0 PSF	12' - 0"
+20.0 PSF	10' - 5"
+25.0 PSF	9' - 4"
+30.0 PSF	8' - 6"
+35.0 PSF	7' - 10"
+40.0 PSF	7' - 4"
+45.0 PSF	6' - 11"
+50.0 PSF	6' - 7"
+55.0 PSF	6' - 3"
+60.0 PSF	6' - 0"
+65.0 PSF	5' - 9"
+70.0 PSF	5' - 7"
+75.0 PSF	5' - 4"
+80.0 PSF	5' - 2"
+85.0 PSF	5' - 0"
+90.0 PSF	4' - 11"

TABLE 2B: 0.030" ALUM PANEL SPANS (NEGATIVE PRESSURE)	
MAX NEGATIVE PRESSURE (ASD)	MAXIMUM PANEL SPAN
-10.0 PSF	9' - 7"
-15.0 PSF	7' - 10"
-20.0 PSF	6' - 9"
-25.0 PSF	6' - 0"
-30.0 PSF	5' - 6"
-35.0 PSF	5' - 1"
-40.0 PSF	4' - 9"
-45.0 PSF	4' - 6"
-50.0 PSF	4' - 3"

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS MAY APPEAR IN THIS APPROVAL:

"ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "EQ"/"EQUIV." FOR "EQUIVALENT", "FBC" FOR "FLORIDA BUILDING CODE", "ft" OR " " FOR "FEET", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "in" OR " " FOR "INCHES", "L" FOR "LENGTH", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "MIN" FOR "MINIMUM", "N.T.S." FOR "NOT TO SCALE", "O.C." FOR "ON-CENTER", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/r²)", "SDS" FOR "SELF-DRILLING SCREWS", "TAS" FOR "TESTING APPLICATION STANDARD", "TYP." FOR "TYPICAL", "ULT" FOR "ULTIMATE LOADS", "#" FOR "NUMBER", "&" FOR "AND"

VISIT [ECALC.IO/GLOSSARY](https://ecalc.io/glossary) OR CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

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DESIGN NOTES

- THE DESIGN PRESSURE VALUES LISTED IN THE TABLES HEREIN ARE ALLOWABLE DESIGN PRESSURES (ASD). IF ULTIMATE DESIGN PRESSURES ARE REQUIRED, MULTIPLY THE ULTIMATE DESIGN PRESSURES BY 0.6 (ULTIMATE PRESSURE * 0.6 = ASD ALLOWABLE PRESSURE).
- THIS PRODUCT IS APPROVED FOR NON-HABITABLE STRUCTURES ONLY.
- ALL ROOF PANEL SPANS LISTED HEREIN ASSUME A MAXIMUM DEFLECTION OF L/90.
- LINEAR INTERPOLATION OF THE ROOF PANEL SPANS LISTED HEREIN IS PERMITTED BETWEEN ADJACENT VALUES.
- APPROVED SPANS SHOWN ARE BASED ON STRUCTURES WITH A ROOF HEIGHT UP TO 15FT.
- 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.
- A 300LB POINT LOAD HAS NOT BEEN CONSIDERED IN THESE CALCULATIONS DUE TO THE NATURE OF THE INTENDED APPLICATION. END USER SHALL BE NOTIFIED THAT PANELS ARE NOT DESIGNED FOR HUMAN LOADING.

GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH TAS 202 TEST STANDARDS PER THE FOLLOWING TEST REPORT TITLED "ASI BUILDING PRODUCTS 3" RISER PAN CERTIFICATION" BY EVOLUTION ENGINEERING IN ACCORDANCE WITH THE FLORIDA BUILDING CODE NINTH EDITION (2026) FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. SEE PRODUCT EVALUATION REPORT FOR ADDITIONAL INFORMATION.
- POSITIVE & NEGATIVE (ASD) DESIGN PRESSURES FOR USE WITH THIS SYSTEM SHALL BE DETERMINED ON A SITE-SPECIFIC BASIS AND COMPARED TO LIMITING FACTORS AS STIPULATED HEREIN. THEY SHALL BE "CALCULATED" IN ACCORDANCE WITH THE GOVERNING CODE REQUIREMENTS & IN ACCORDANCE WITH ASCE 7 AND CHAPTER 1609 OF THE FLORIDA BUILDING CODE. THEY SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN. NOT APPROVED FOR USE WITHIN THE HIGH VELOCITY HURRICANE ZONE (HVHZ)
- 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, F.A.C. (FLORIDA ADMINISTRATIVE CODE).
- DESIGN PROFESSIONAL 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.
- FOR PERMANENT OUTDOOR INSTALLATIONS, ALL EXPOSED ANCHORS, FASTENERS, CONNECTORS, AND METAL PLATES SHALL BE CORROSION RESISTANT. CORROSION RESISTANCE MAY BE PROVIDED BY INHERENT MATERIAL COMPOSITION OR, WHERE PERMITTED BY CODE, BY AN APPROVED PROTECTIVE COATING OR GALVANIZATION. WHERE APPLICABLE NEAR A SALTWATER COASTLINE, SUCH COMPONENTS SHALL COMPLY WITH FBC SECTION 1711, INCLUDING APPLICABLE REQUIREMENTS FOR EXPOSED, PROTECTED, OR ENCLOSED CONDITIONS. MATERIALS, COATINGS, AND FINISHES SHALL BE COMPATIBLE WITH CONNECTED MATERIALS, AND PROTECTIVE COATINGS SHALL BE CONTINUOUS OVER EXPOSED SURFACES. FASTENERS USED WITH ALUMINUM MEMBERS SHALL ALSO COMPLY WITH SECTION J.3.7.2 OF THE ALUMINUM DESIGN MANUAL, "SPECIFICATION FOR ALUMINUM STRUCTURES." SUBSTITUTION OF COMPONENTS FROM ALTERNATE MANUFACTURERS, OR WITH DIFFERENT MATERIALS, COATINGS, OR FINISHES, SHALL NOT BE ASSUMED EQUIVALENT AND MAY REQUIRE ADDITIONAL ENGINEERING REVIEW OR SITE-SPECIFIC ANALYSIS.
- 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.
- ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE THIS SPECIFICATION BY CONTRACTOR et al INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE & FEDERAL CODES FROM DEVIATIONS OF THIS PLAN.
- PRODUCT SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DBPR SPECIFICATIONS.
- ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

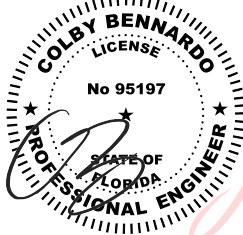
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3" METAL ROOF RISER PANELS

FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#34537.1)

REMARKS	DATE	DRWN	CHKD
PREV. SUBMITTAL (20-32172)	10/14/20	CCB	FLB
PREV. SUBMITTAL (23-63224)	08/15/23	MDF	CCB
2026 FBC UPDATE	06/30/26	BUV	CCB
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