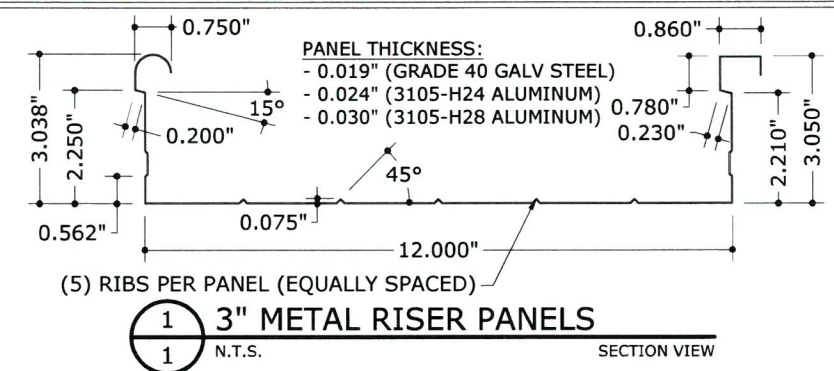


3" METAL ROOF RISER PANELS

0.019", 0.024" AND 0.030" THICK CLEAR SPAN TABLES



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

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TABLE 1A: 0.019" STEEL PANEL SPANS (POSITIVE PRESSURE)

MAXIMUM POSITIVE PRESSURE	MAXIMUM PANEL SPAN
+13.5 psf	134.0 in
+16.4 psf	131.0 in
+19.4 psf	128.1 in
+22.3 psf	125.1 in
+25.3 psf	122.2 in
+28.2 psf	119.2 in
+31.2 psf	116.2 in
+34.1 psf	113.3 in
+37.0 psf	110.3 in
+40.0 psf	107.3 in
+42.9 psf	104.4 in
+45.9 psf	101.4 in
+48.8 psf	98.5 in
+51.8 psf	95.5 in
+54.7 psf	92.5 in
+57.6 psf	89.6 in
+60.6 psf	86.6 in
+63.5 psf	83.7 in
+66.5 psf	80.7 in
+69.4 psf	77.7 in
+72.3 psf	74.8 in
+75.3 psf	71.8 in
+78.2 psf	68.8 in
+81.2 psf	65.9 in
+84.1 psf	62.9 in
+87.1 psf	60.0 in
+90.0 psf	57.0 in

TABLE 1B: 0.019" STEEL PANEL SPANS (NEGATIVE PRESSURE)

MAXIMUM NEGATIVE PRESSURE	MAXIMUM PANEL SPAN
-13.5 psf	134.0 in
-16.3 psf	127.6 in
-19.2 psf	121.2 in
-22.0 psf	114.8 in
-24.8 psf	108.3 in
-27.7 psf	101.9 in
-30.5 psf	95.5 in
-33.3 psf	89.1 in
-36.2 psf	82.7 in
-39.0 psf	76.3 in
-41.8 psf	69.8 in
-44.7 psf	63.4 in
-47.5 psf	57.0 in

TABLE 2A: 0.024" ALUM PANEL SPANS (POSITIVE PRESSURE)

MAXIMUM POSITIVE PRESSURE	MAXIMUM PANEL SPAN
+9.5 psf	120.0 in
+12.5 psf	114.8 in
+15.4 psf	109.5 in
+18.4 psf	104.3 in
+21.3 psf	99.0 in
+24.3 psf	93.8 in
+27.3 psf	88.5 in
+30.2 psf	83.3 in
+33.2 psf	78.0 in
+36.1 psf	72.8 in
+39.1 psf	67.5 in
+42.0 psf	62.3 in
+45.0 psf	57.0 in

TABLE 2B: 0.024" ALUM PANEL SPANS (NEGATIVE PRESSURE)

MAXIMUM NEGATIVE PRESSURE	MAXIMUM PANEL SPAN
-11.0 psf	120.0 in
-13.9 psf	104.3 in
-16.8 psf	88.5 in
-19.6 psf	72.8 in
-22.5 psf	57.0 in

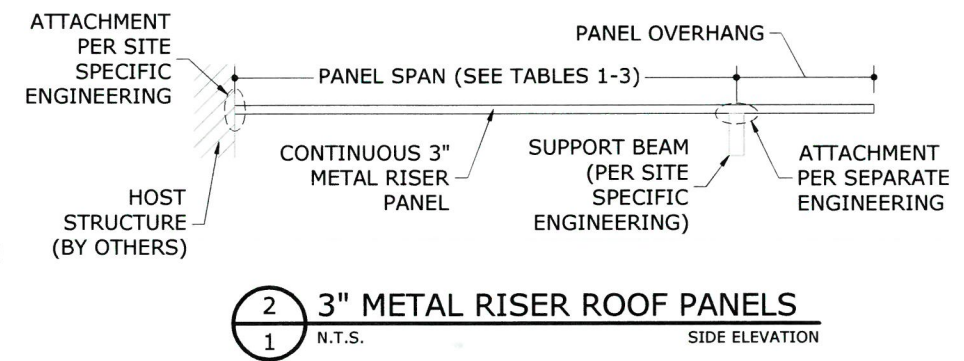
TABLE 3A: 0.030" ALUM PANEL SPANS (POSITIVE PRESSURE)

MAXIMUM POSITIVE PRESSURE	MAXIMUM PANEL SPAN
+12.5 psf	134.0 in
+15.5 psf	130.2 in
+18.5 psf	126.3 in
+21.5 psf	122.5 in
+24.5 psf	118.6 in
+27.5 psf	114.8 in
+30.5 psf	110.9 in
+33.5 psf	107.1 in
+36.5 psf	103.2 in
+39.5 psf	99.4 in
+42.5 psf	95.5 in
+45.5 psf	91.7 in
+48.5 psf	87.8 in
+51.5 psf	84.0 in
+54.5 psf	80.1 in
+57.5 psf	76.3 in
+60.5 psf	72.4 in
+63.5 psf	68.6 in
+66.5 psf	64.7 in
+69.5 psf	60.9 in
+72.5 psf	57.0 in

TABLE 3B: 0.030" ALUM PANEL SPANS (NEGATIVE PRESSURE)

MAXIMUM NEGATIVE PRESSURE	MAXIMUM PANEL SPAN
-16.5 psf	134.0 in
-19.4 psf	126.3 in
-22.2 psf	118.6 in
-25.1 psf	110.9 in
-27.9 psf	103.2 in
-30.8 psf	95.5 in
-33.6 psf	87.8 in
-36.5 psf	80.1 in
-39.3 psf	72.4 in
-42.2 psf	64.7 in
-45.0 psf	57.0 in

- TABLES 1-3 NOTES:**
- THE SPANS LISTED HEREIN ARE APPLICABLE FOR NON-HABITABLE "OPEN" AND "SCREENED" ROOFS ONLY.
 - POSITIVE AND NEGATIVE DESIGN PRESSURE SHALL BE DETERMINED SEPARATELY PER ASCE 7 BASED ON SITE SPECIFIC APPLICATION AND COMPARED TO THE APPLICABLE TABLE ABOVE. THE LIMITING POSITIVE OR NEGATIVE PRESSURE SPAN VALUE SHALL BE USED FOR INSTALLATION.
 - ROOF PANEL ATTACHMENTS SHALL BE CERTIFIED ON A SITE SPECIFIC BASIS
 - MAXIMUM PANEL OVERHANGS SHALL BE AS FOLLOWS:
 - DESIGN PRESSURES UP TO +/- 45 PSF = 24.0" MAXIMUM
 - DESIGN PRESSURES UP TO +/- 90 PSF = 12.0" MAXIMUM



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

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/90.
- LINEAR INTERPOLATION OF THE ROOF PANEL SPANS LISTED HEREIN IS PERMITTED.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 2.0 SAFETY FACTOR. IF A GREATER SAFETY FACTOR IS REQUIRED BY LOCAL JURISDICTION, ALLOWABLE SPANS SHALL BE CALCULATED AND CERTIFIED SEPARATELY BY OTHERS.

GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED PER ASTM E330 (TEST REPORT #'S F7038.01-401-44-R0 & F7038.02-401-44-R0 BY ARCHITECTURAL TESTING, INC.) IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND THE INTERNATIONAL RESIDENTIAL CODE (IRC). THESE METAL ROOF PANELS ARE ACCEPTABLE FOR ALL AREAS AS DEFINED BY THE TEXAS DEPARTMENT OF INSURANCE.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
- SITE SPECIFIC POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED SEPARATELY PER ASCE 7 AND THE REFERENCED BUILDING CODE. DESIGN PRESSURES 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.
- 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-H24 (FOR 0.024" THICK PANELS) AND 3105-H28 (FOR 0.030" THICK PANELS) OR EQUIVALENT ALUMINUM ALLOY.
- STEEL RISER PANELS SHALL HAVE A MINIMUM YIELD STRENGTH OF Fy = 40 KSI MINIMUM AND A MINIMUM THICKNESS OF 0.019".
- 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.



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3" METAL ROOF RISER PANELS
TEXAS DEPARTMENT OF INSURANCE
INTERNATIONAL BUILDING CODE

REMARKS	DATE
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