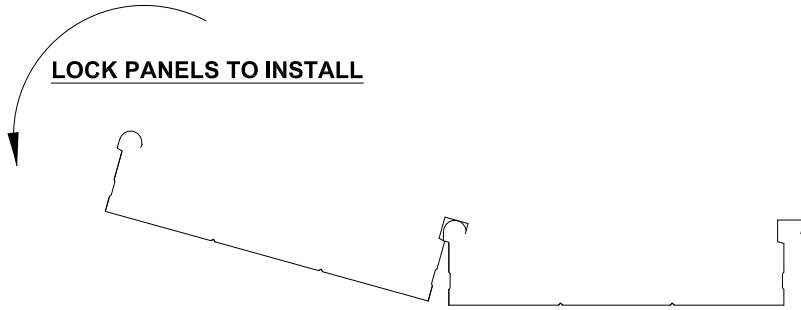




AMERICAN METALS SUPPLY - ALUMINUM ROOF PANELS
3119 Queen Palm Dr.
Tampa, FL 33619
(813) 242-8100



PRODUCT APPROVAL DETAILS:

- BLDG CODE: 8th Edition (2023) FLORIDA BUILDING CODE
- HVHZ: NOT FOR USE IN HVHZ
- LIMITS OF USE: FOR PATIO USE ONLY.
 - CARPORTS
 - PATIO COVERS
 - SUNROOMS
 - SCREEN ENCLOSURES
 - CANOPIES
 - OTHER SIMILAR MINOR STRUCTURES

Notes:

- Aluminum roof panels shall be of aluminum alloy 3105-H1 or approved equal.
- Roof panel metal thickness tested: 0.024" and 0.030".
- Product materials conform to ASTM B209.
- All inside bend radii are 0.047 unless otherwise noted.
- Standard Manufacturing Tolerances:
 - Dimension + / - 0.005
 - Radius +/- .005
 - Angle +/- 1°
- Product test report for 0.030" and 0.024" Thickness Rolled 3" Riser Roof Panels, Test Report No.: E9946.01-401-44. ASTM E330/E330M. Architectural Testing, Inc. an Intertek company, 2250 Massaro Blvd., Tampa, FL 33619.
- All product performance specifications and construction requirements shall be engineered by a licensed design professional in accordance with the Aluminum Design Manual, *Specifications & Guidelines for Aluminum Structures*, Washington, DC, for wind resistance in conformance to FBC Chapter 16 for Components and Cladding Loads, ASCE-SEI 7-22 Chapter 30 for Roof Components and Cladding for Open Buildings, Partially Open Buildings, and Attached Canopies on Buildings. Effective area for wind load calculations based on 36 sq. feet.
- Open Buildings denotes relatively unobstructed wind flow blockage of at least 80% open. Partially Open Buildings covers buildings that does not comply with Enclosed, Partially Enclosed, or Open classifications as defined by ASCE/SEI 7-22.
- Span schedule show maximum roof panel spans between supports. Interpolation between span values is permitted. Max. span deflection limit L/60.
- Mean roof height of structure shall not exceed 15 feet above grade. Span tables for open structures based on 10° max. roof slope. For spans for slope values not shown, linear interpolation is permitted.
- Each roof panel shall be connected per design professional's instructions, but shall have min. of (3)-#10 SMS w/neoprene gasket and washer along supports (or other approved connection by design professional) w/ min. 0.040" thick, 6063-T6 aluminum base metal. Support beams shall be provided on edge panels parallel to panel span.

Exposure B	ASCE 7-22 Ultimate Design Pressure Span Table		Slopes≤10°
FREESTANDING STRUCTURES (Open Wind Flow)			
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)
110	-14.0	10.60	13.10
120	-16.7	10.33	12.83
130	-19.6	10.04	12.54
140	-22.7	9.66	12.23
150	-26.1	9.24	11.63
160	-29.7	8.72	10.43

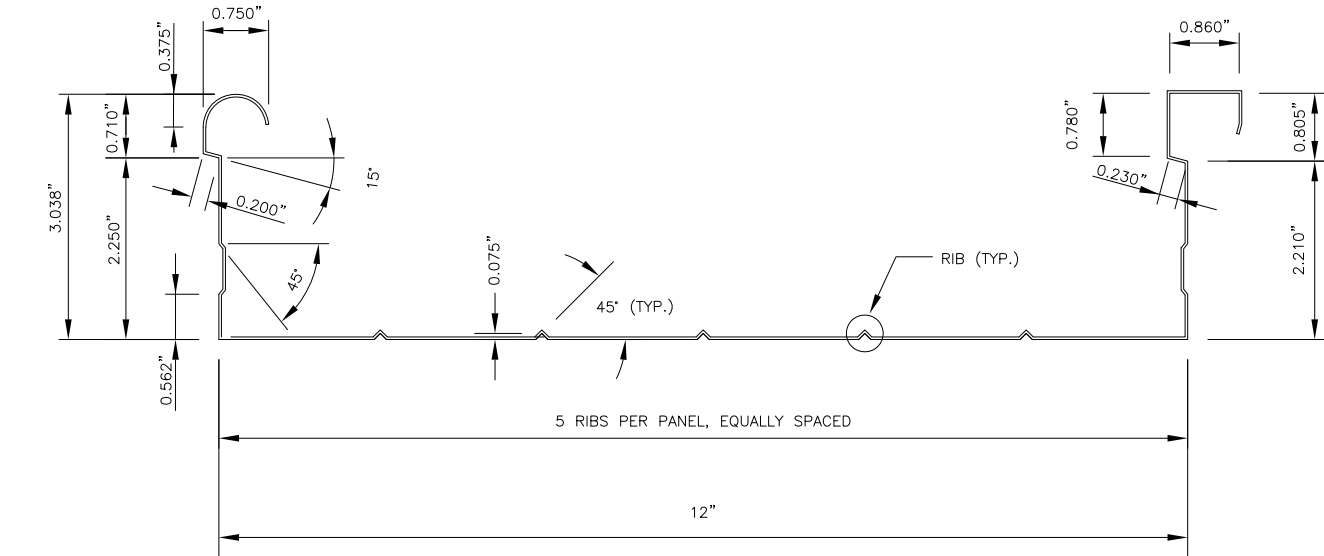
Exposure B	ASCE 7-22 Ultimate Design Pressure Span Table		Slope≤10°
FREESTANDING and ATTACHED STRUCTURES (Partially Open Wind Flow)			
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)
110	-16.3	10.37	12.87
120	-19.4	10.06	12.56
130	-22.8	9.65	12.22
140	-26.4	9.20	11.53
150	-30.4	8.60	10.20
160	-34.5	7.95	8.93

Exposure B	ASCE 7-22 Ultimate Design Pressure Span Table		Slope≤10°
ATTACHED STRUCTURES (Open-attached under fascia/overhang)			
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)
110	-11.5	10.85	13.35
120	-13.7	10.63	13.13
130	-16.0	10.40	12.90
140	-18.6	10.14	12.64
150	-21.3	9.84	12.37
160	-24.3	9.46	12.07

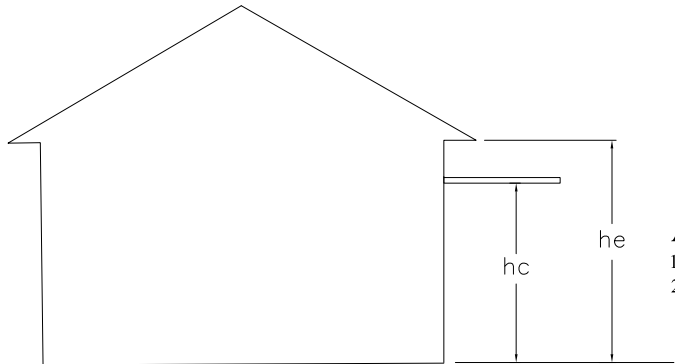
Exposure C	ASCE 7-22 Ultimate Design Pressure Span Table		Slope≤10°
	FREESTANDING STRUCTURES (Open Wind Flow)		
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)
110	-20.9	9.89	12.41
120	-24.9	9.39	12.01
130	-29.2	8.80	10.60
140	-33.9	8.02	9.03
150	-38.9	7.55	8.30
160	-44.3	7.06	7.59

Exposure C	ASCE 7-22 Ultimate Design Pressure Span Table		Slope≤10°
FREESTANDING and ATTACHED STRUCTURES (Partially Open Wind Flow)			
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)
110	-24.3	9.46	12.06
120	-29.0	8.83	10.67
130	-34.0	8.00	9.00
140	-39.4	7.51	8.23
150	-45.3	6.96	7.46
160	-51.5	6.07	6.50

Exposure C	ASCE 7-22 Ultimate Design Pressure Span Table		Slope≤10°
ATTACHED STRUCTURES (Open-attached under fascia/overhang)			
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)
110	-17.1	10.29	12.79
120	-20.4	9.95	12.46
130	-23.9	9.51	12.11
140	-27.7	9.04	11.10
150	-31.8	8.37	9.73
160	-36.2	7.80	8.69



3" RISER ROOF PANELS



Attached Covers (canopies) on Buildings

- Roof covers attached to fascia are deemed $0.9 \leq hc/he \leq 1$.
- Roof covers attached to the host structure underneath the fascia and overhang at deemed $0.5 \leq hc/he < 0.9$.

Do Y Kim
Digitally signed by Do Y Kim
Date: 2023.08.10 19:33:34 -04'00'

DO KIM
& ASSOCIATES, LLC

CONSULTING
STRUCTURAL
ENGINEERS

PO BOX 10039
Tampa, FL 33679

Rev./Date	Description
1/10 2018	ISSUED
8/6 2020	ISSUED FOR 7th EDITION FBC PRODUCT APPROVAL
8/10 2023	ISSUED FOR 8th EDITION FBC PRODUCT APPROVAL

CLIENT: American Metal Supply, Inc.

DESCRIPTION:
3" RISER ROOF PANELS FOR USE WITH
CARPORTS, PATIO COVERS, & OTHER SIMILAR
MINOR STRUCTURES

DRAWN BY:	DYK
CHECKED BY:	DYK
SCALE:	AS SHOWN
DATE:	8/11/20

DO YEON KIM, P.E.
FLA. REG. NUMBER 49497
No. 49497

DO KIM & ASSOCIATES, LLC
CA# 26887
PO BOX 10039
Tampa, FL 33679

This item has been digitally signed and sealed by Do Y. Kim on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Drawing No. - 140316

SHEET 1 OF 1