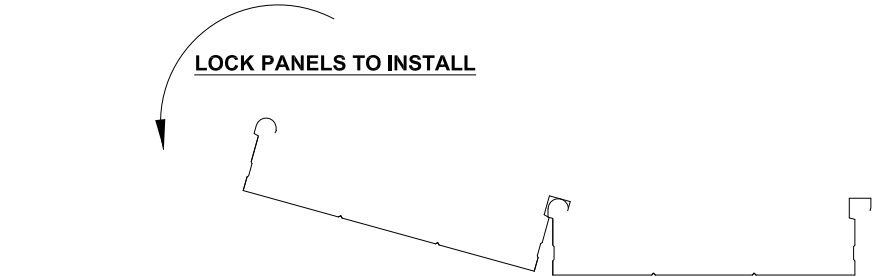




Gulf Coast Building Products - METAL ROOF PANELS
3350 McLemore Dr.
Pensacola, FL 32514
(850) 477-6050



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-H24 or 3105-H25 or approved equal.
- Aluminum roof panel metal thickness tested: 0.024" and 0.032".
- Product materials conform to ASTM B209.
- Galvalume steel metal roof panel shall be of Grade 50, ASTM A792, 26ga.
- All inside bend radii are 0.047 unless otherwise noted.
- Standard Manufacturing Tolerances:
 - Dimension + / - 0.005
 - Radius +/- .005
 - Angle +/- 1°
- Product test report for 0.024", 0.032", and 26 gauge Thickness Rolled 3" Riser Roof Panels, Test Report No.: 2179T0001.01-06, June 24-26, 2019. ASTM E330/E330M-14. PRI Construction Materials Technologies LLC, 6412 Badger Drive., Tampa, FL 33610.
- 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. 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.

Note: Design pressures (DP) listed in the tables below are the absolute number of the positive or negative pressures controlling the span.

Exposure B	ASCE 7-22 Ultimate Design Span Table			
FREESTANDING STRUCTURES (Open Wind Flow)				
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)	26 gauge span (ft)
110	14.0	11.68	12.25	12.21
120	16.7	11.46	12.08	12.07
130	19.6	11.23	11.90	11.92
140	22.7	10.98	11.71	11.76
150	26.1	10.70	11.49	11.58
160	29.7	10.41	11.27	11.39

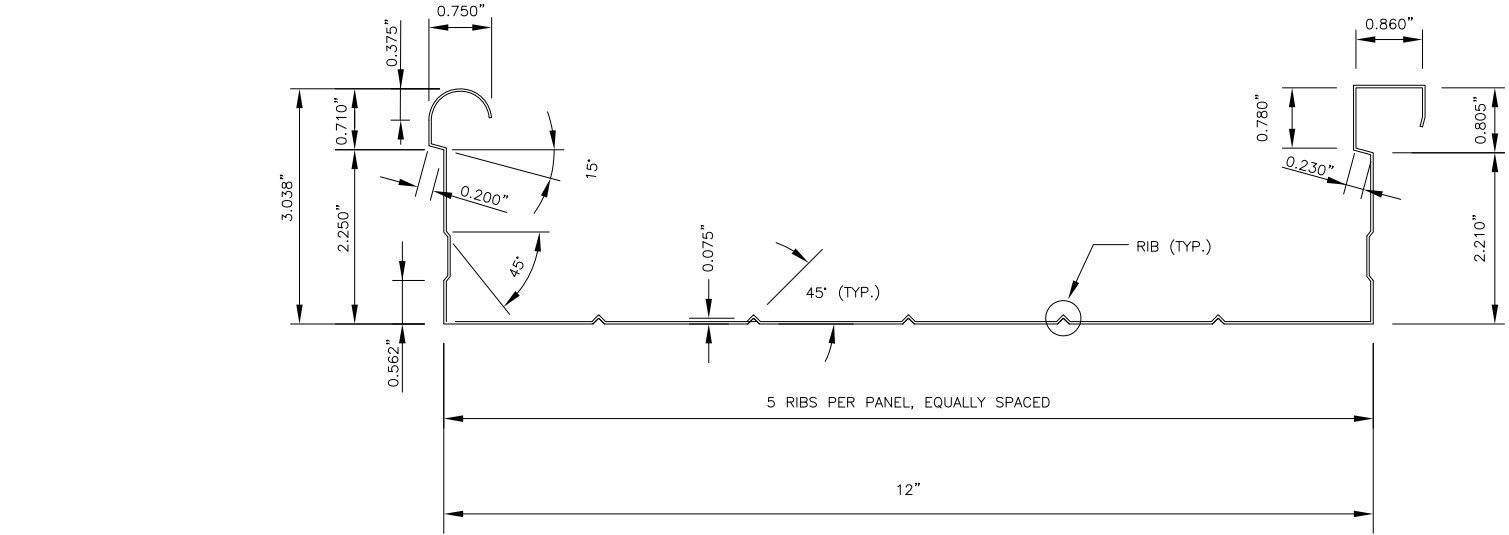
Exposure B	ASCE 7-22 Ultimate Design Span Table			
FREESTANDING and ATTACHED STRUCTURES (Partially Open Wind Flow)				
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)	26 gauge span (ft)
110	16.3	11.49	12.11	12.09
120	19.4	11.24	11.91	11.93
130	22.8	10.97	11.70	11.75
140	25.4	10.76	11.54	11.62
150	30.4	10.36	11.23	11.36
160	34.5	10.03	10.97	11.14

Exposure B	ASCE 7-22 Ultimate Design Span Table			
ATTACHED STRUCTURES (Open-attached under fascia/overhang)				
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)	26 gauge span (ft)
110	11.5	11.88	12.41	12.34
120	13.7	11.70	12.27	12.22
130	16.0	11.52	12.13	12.10
140	18.6	11.31	11.96	11.97
150	21.3	11.09	11.79	11.83
160	24.3	10.85	11.61	11.67

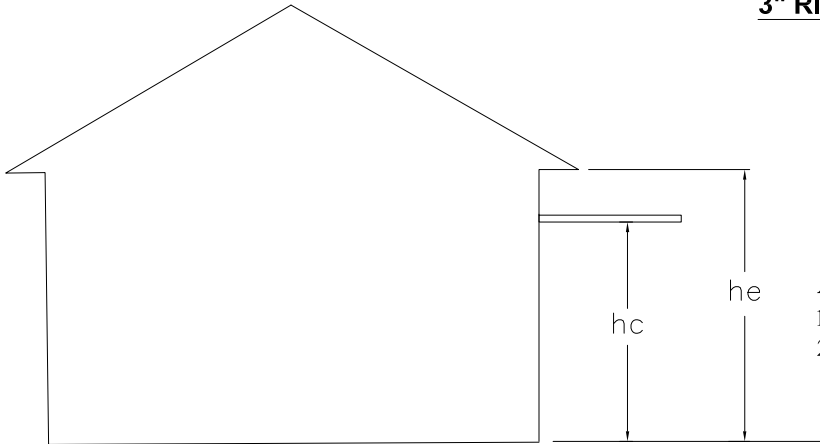
Exposure C	ASCE 7-22 Ultimate Design Span Table			
FREESTANDING STRUCTURES (Open Wind Flow)				
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)	26 gauge span (ft)
110	20.9	11.12	11.82	11.85
120	24.9	10.80	11.57	11.64
130	29.2	10.45	11.30	11.42
140	33.9	10.08	11.01	11.17
150	38.9	9.67	10.69	10.92
160	44.3	9.24	10.36	10.64

Exposure C	ASCE 7-22 Ultimate Design Span Table			
FREESTANDING and ATTACHED STRUCTURES (Partially Open Wind Flow)				
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)	26 gauge span (ft)
110	24.3	10.85	11.61	11.67
120	29.0	10.47	11.31	11.43
130	34.0	10.07	11.00	11.17
140	39.4	9.63	10.66	10.89
150	45.3	9.16	10.29	10.58
160	51.5	8.66	9.91	10.26

Exposure C	ASCE 7-22 Ultimate Design Span Table			
ATTACHED STRUCTURES (Open-attached under fascia/overhang)				
Wind Speed	Design Pressure	0.024" span (ft)	0.030" span (ft)	26 gauge span (ft)
110	17.1	11.43	12.06	12.05
120	20.4	11.16	11.85	11.88
130	23.9	10.88	11.63	11.69
140	27.7	10.58	11.39	11.50
150	31.8	10.25	11.14	11.28
160	36.2	9.89	10.86	11.06



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: 2023.09.25 15:08:02 -04'00'

DO KIM

& ASSOCIATES, LLC

CONSULTING
STRUCTURAL
ENGINEERS

PO BOX 10039
Tampa, FL 33679

Rev./Date

Description

△

1/28
2021

ISSUED

△

9/21
2023

ISSUED FOR 8th Edition
FBC Product Approval

△

△

△

CLIENT: Gulf Coast Building Products

DESCRIPTION: FL# 30540

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

DRAWN BY: DYK

CHECKED BY: DYK

SCALE: AS SHOWN

DATE: 1/27/21

DO Y KIM, P.E.
FLA. REG. ENGINEER 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. - 191010

SHEET 1 OF 1