EVALUATION REPORT OF UNION CORRUGATING COMPANY '26 GA. R OR PBR PANEL'

FLORIDA BUILDING CODE 7TH EDITION (2020) FLORIDA PRODUCT APPROVAL FL 9557.5-R5 PANEL WALLS SIDING

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This report consists of
Evaluation Report (2 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)

Report No. C2372-5 Date: 8.7.2020



Manufacturer: Union Corrugating Company

Product Name: R or PBR Panel

Panel Description: 36" wide coverage with (4) 1.25" high ribs

Materials: Min. 26 ga., 80 ksi steel or min. 24 ga., 50 ksi steel. Galvanized coated

steel (ASTM A653) or Galvalume coated steel (ASTM A792) or

painted steel (ASTM A755) as per FBC 2020 Section 1405.2.

Support Description: Min. 16 ga., min 50 ksi steel section. (Must be designed by others)

Design Pressure: (Factor of Safety = 2) (3 or more spans) -23.5 psf at support spacing of 96 o.c. -45.5 psf at support spacing of 60 o.c. -163 psf at support spacing of 20 o.c. 20 psf at support spacing of 96 o.c.

96 psf at support spacing of 20 o.c.

Panel Attachment: #12-14 x 1-1/4" long self-drilling screws with washers. Corrosion

resistant as per FBC 2020 Section 1405.17.

At panel ends At interior supports

at 7"-5"-7" o.c. across panel width at 12" o.c. across panel width

Sidelap Attachment: \(\frac{1}{4}\)"-14 x 7/8" long SDS with washer at 24" o.c. Corrosion resistant as

per FBC 2020 Section 1405.17.

Test Standards: Wall assembly tested in accordance with ASTM E1592-05(2012) 'Test

Method for Structural Performance of Sheet Metal Roof and Siding

Systems by Uniform Static Air Pressure Difference'.

Code Compliance: The product described herein has demonstrated compliance with FBC

2020 Section 1404.5.

Product Limitations: Design wind loads shall be determined for each project in accordance

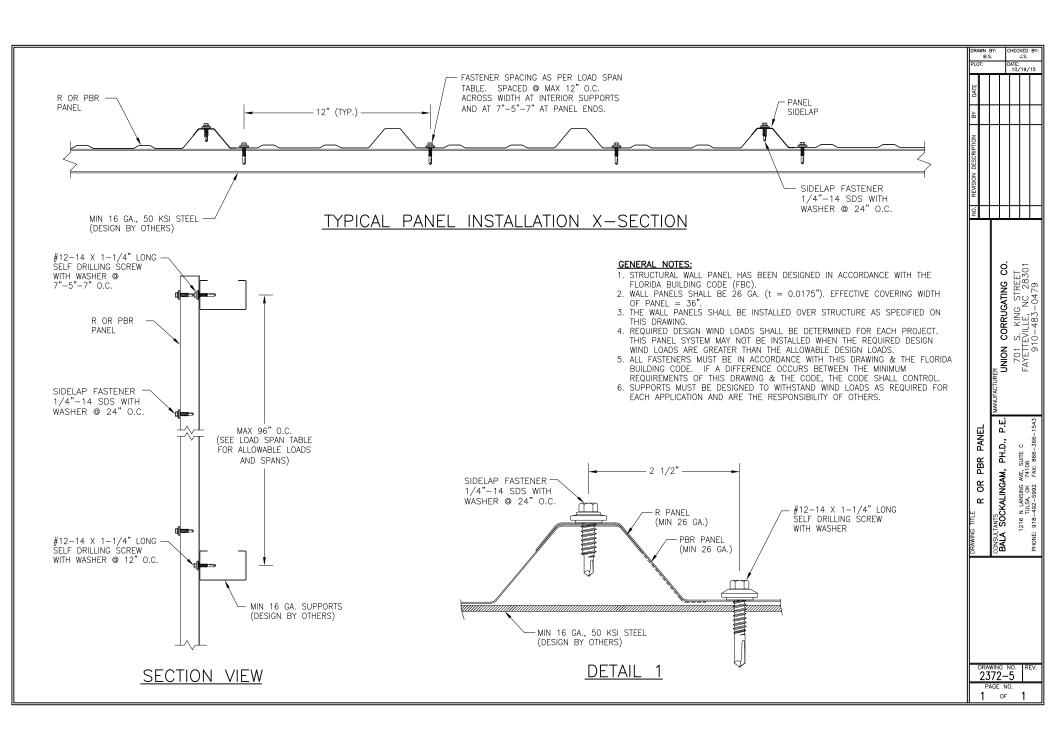
with FBC 2020 Section 1609 or ASCE 7-16 using allowable stress design. The maximum support spacing listed herein shall not be exceeded. The design pressure for reduced support spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Union load span table. This evaluation report is

not applicable in High Velocity Hurricane Zone.

Supporting Documents: ASTM E1592 Test Reports

ENCON Technology Inc.

Project No. C2054-1, Reporting Date 10/16/15



UNION CORRUGATING COMPANY R or PBR Wall Panel Allowable Design Loads

Support Spacing (in)	Allowable Design Loads (psf)	
	Inward	Outward
20	96.0	-163.0
24	80.0	-135.8
28	68.6	-116.4
32	60.0	-101.9
36	53.3	-90.6
40	48.0	-81.5
44	43.6	-74.1
48	40.0	-67.9
52	36.9	-60.6
56	34.3	-52.2
60	32.0	-45.5
64	30.0	-42.7
68	28.2	-40.1
72	26.7	-37.9
76	25.3	-35.7
80	24.0	-33.3
84	22.9	-30.7
88	21.8	-28.0
92	20.9	-25.6
96	20.0	-23.5

Notes:

- 1. Allowable load is the lowest value of panel strength, connection strength & deflection limit of L/120.
- 2. Allowable load is applicable to three or more spans conditions.
- 3. Panels must be installed as per Evaluation Report FL 9557.5 and Union current installation procedure
- 4. The structural capacity of support beam are not considered and must be examined independently.
- 5. Minimum support thickness is 16 ga.

