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

FLORIDA BUILDING CODE 5TH EDITION (2014) FLORIDA PRODUCT APPROVAL FL 18719.1 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. C2055-2 Date: 10.20.15



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)

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

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

20 psf @ support spacing of 96 o.c.

96 psf @ support spacing of 20 o.c.

Panel Attachment:

At panel ends #12-14 x 1-1/4" long SDS with washer @ 7"-5"-7" o.c. across panel

width

At interior supports #12-14 x 1-1/4" long SDS with washer @ 12" o.c. across panel width

Sidelap Attachment: $\frac{1}{4}$ "-14 x 7/8" long SDS with washer @ 24" o.c.

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

2014 Section 1404.5

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

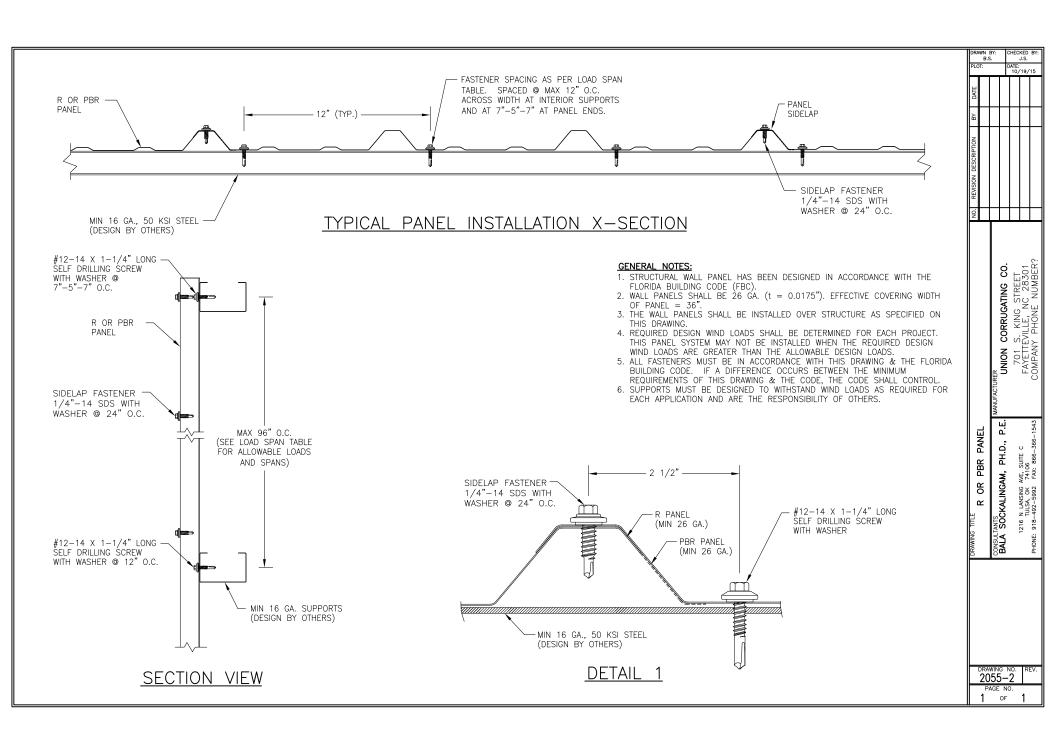
with FBC 2014 Section 1609 or ASCE 7-10 using allowable stress design. The maximum support spacing listed herein shall not be exceeded. The design pressure for reduced support spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Union load span table. 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	Allowable Design Loads (psf)	
(in)	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 18719.1 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.



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