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

FLORIDA BUILDING CODE 6TH EDITION (2017) FLORIDA PRODUCT APPROVAL FL 9557.3-R4 PANEL WALLS SIDING

Prepared For: Union Corrugating Company 701 S. King St. Fayetteville, NC 28301 Telephone: (910) 483-0479 Fax: (910) 483-1091

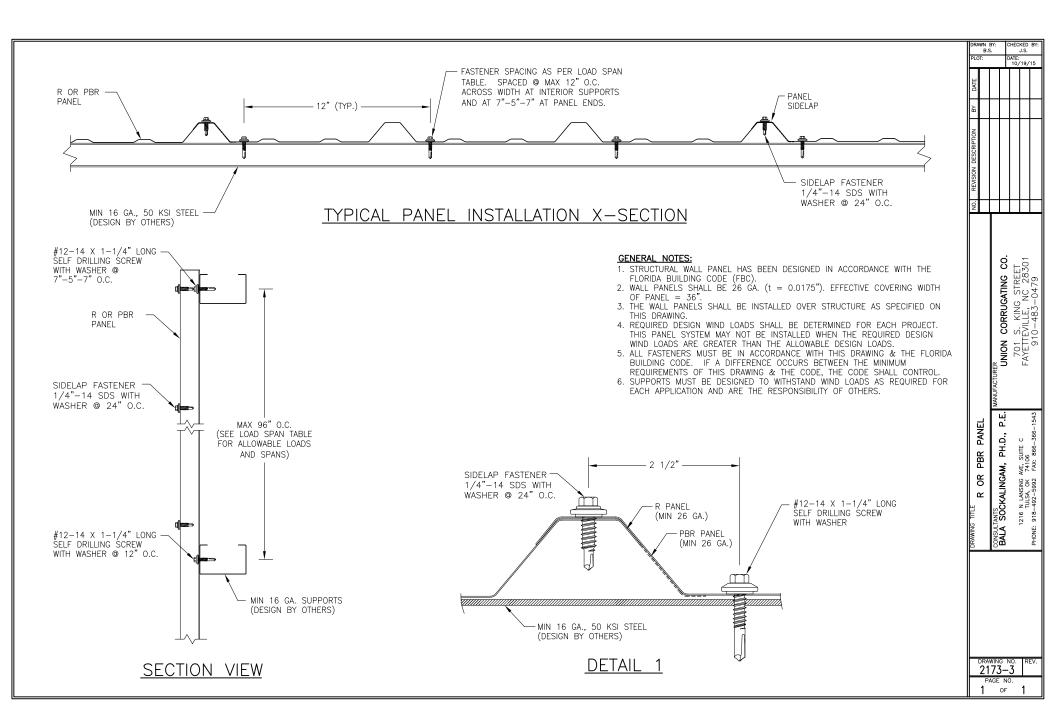
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This report consists of Evaluation Report (2 Pages including cover) Installation Details (1 Page) Load Span Table (1 Page)

> Report No. C2173-3 Date: 8.18.2017



	14502012	
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: (Factor of Safety = 2) (3 or more spans)	 -23.5 psf @ support spacing of 96 o.c. -45.5 psf @ support spacing of 60 o.c. -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(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 2017 Section 1404.5.	
Product Limitations:	Design wind loads shall be determined for each project in accordance with FBC 2017 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 9557.3 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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