

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

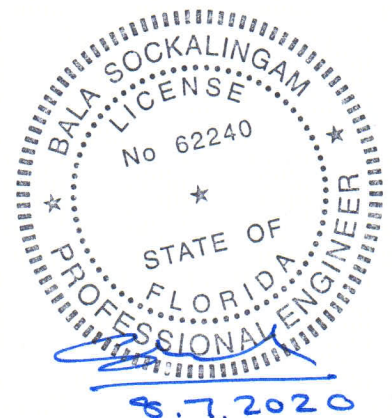
**FLORIDA BUILDING CODE 7TH EDITION (2020)
FLORIDA PRODUCT APPROVAL
FL 9557.5-R5
PANEL WALLS
SIDING**

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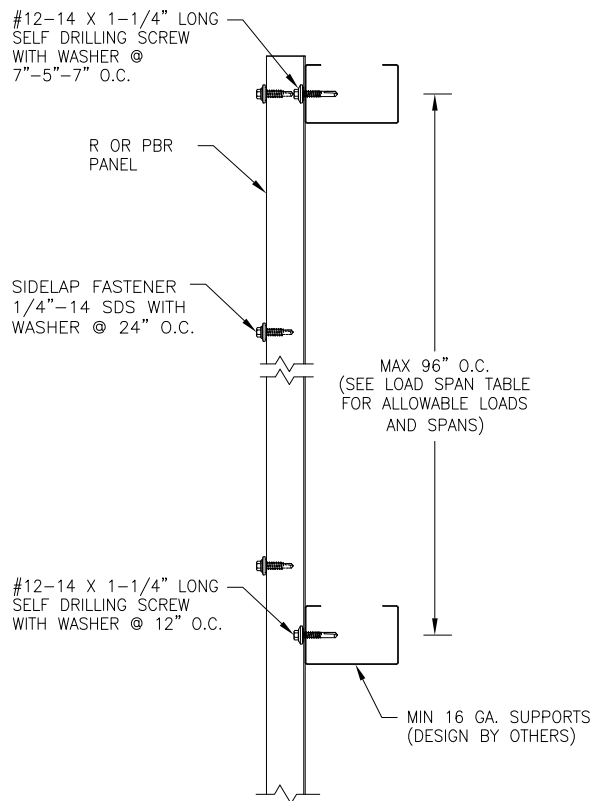
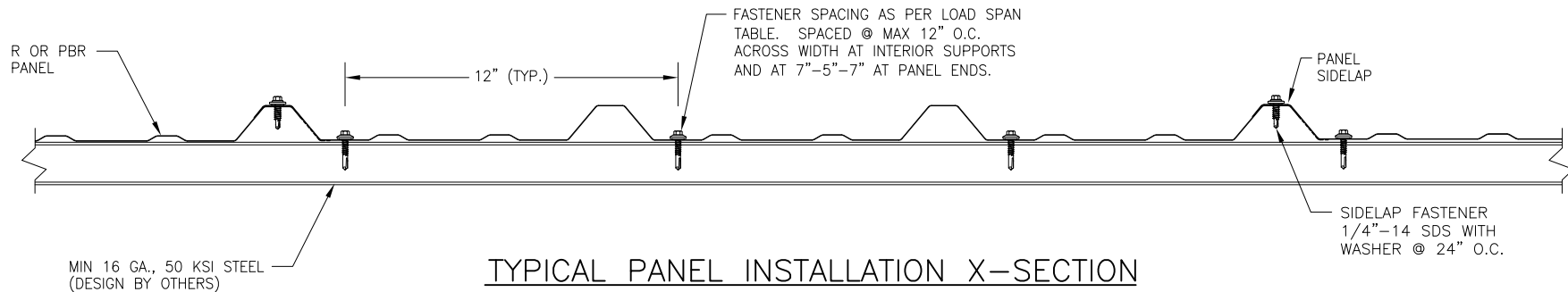
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This report consists of
Evaluation Report (2 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)

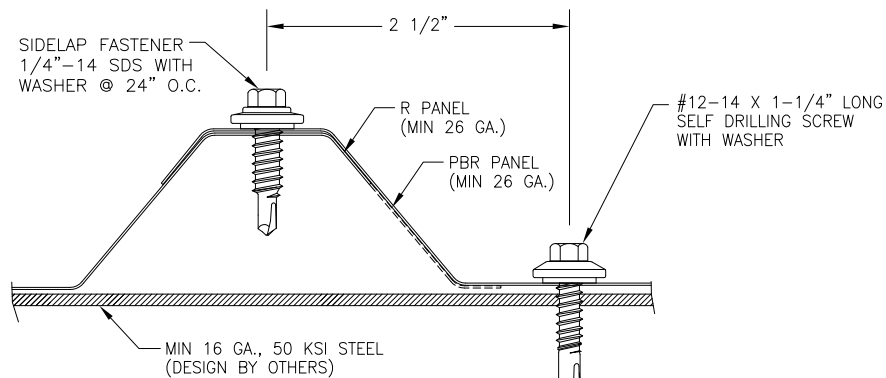
Report No. C2372-5
Date: 8.7.2020



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 7"-5"-7" o.c. across panel width
At interior supports	at 12" o.c. across panel width
Sidelap Attachment:	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



SECTION VIEW



DETAIL 1

GENERAL NOTES:

1. STRUCTURAL WALL PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. WALL PANELS SHALL BE 26 GA. ($t = 0.0175$). EFFECTIVE COVERING WIDTH OF PANEL = 36".
3. THE WALL PANELS SHALL BE INSTALLED OVER STRUCTURE AS SPECIFIED ON THIS DRAWING.
4. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE DESIGN LOADS.
5. ALL FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & THE FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. SUPPORTS MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

DRAWING NO. 2372-5		REV.		
PAGE NO. 1 OF 1				
DRAWING TITLE R OR PBR PANEL				
CONSULTANTS BALA SOCKALINGAM, PH.D., P.E. 1216 N LANSING AVE, SUITE C TULSA, OK 74106 PHONE: 918-492-5992 FAX: 866-366-1543		MANUFACTURER UNION CORRUGATING CO. 701 S. KING STREET FAYETTEVILLE, NC 28301 910-483-0479		
NO.	REVISION	DESCRIPTION	BY	DATE

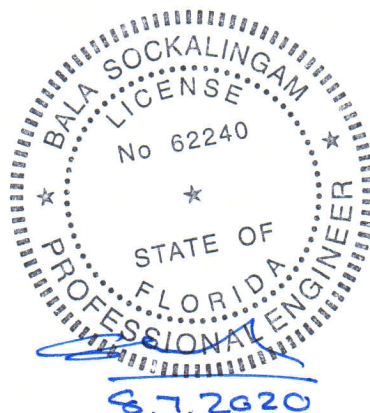
UNION CORRUGATING COMPANY
R or PBR Wall Panel
Allowable Design Loads

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.

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