

**EVALUATION REPORT OF
UNION CORRUGATING COMPANY
'29 GA. MASTERRIB PANEL'**

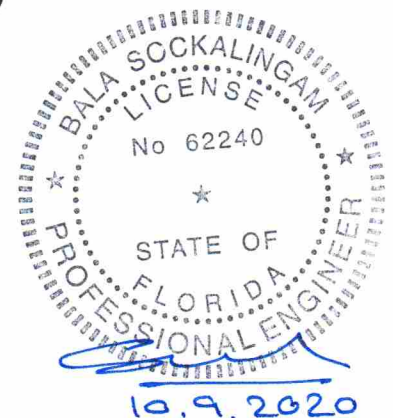
**FLORIDA BUILDING CODE 7TH EDITION (2020)
FLORIDA PRODUCT APPROVAL
FL 7271.6-R5
ROOFING
METAL ROOFING**

**Prepared For:
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**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)**

**Report No. C2400-6
Date: 10.9.2020**



Manufacturer: Union Corrugating Company

Product Name: MasterRib Panel

Panel Description: 36" wide coverage with 3/4" high ribs at 9" o.c.

Materials: Minimum 29 ga., 80 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755). Corrosion resistant as per FBC 2020 Section 1507.4.3.

New Underlayment: Minimum underlayment as per FBC 2007 Section 1507.4.5.1. Required for new construction and optional for reroofing construction.

Existing Underlayment: One layer of asphalt shingles over one layer of #30 felt. For reroofing (Optional) construction only.

Deck Description: Min. 15/32" thick APA rated plywood or min. 3/4" thick wood plank (min SG of 0.42) for new and existing constructions. Designed by others and installed as per FBC 2020.

Slope: 1/2:12 or greater in accordance with FBC 2020 Section 1507.4.2

Design Uplift Pressure: 56.0 psf at fastener spacing of 24" o.c.
(Factor of Safety = 2) 113.1 psf at fastener spacing of 12" o.c.

Panel Attachment: #9-15 or #10-14 x 1.5" long wood screw with washer. Fasteners are corrosion resistant as per FBC 2020 Section 1507.4.4.
At panel ends 5.5"-3.5"-5.5" o.c. across panel width
At intermediate 9" o.c. across panel width

Sidelap Attachment: 1/4"-14 x 7/8" long SDS with washer at max 24" o.c. Fasteners are corrosion resistant as per FBC 2020 Section 1507.4.4.

Test Standards: Roof assembly tested in accordance with UL580-94 & UL580-06 'Uplift Resistance of Roof Assemblies', UL1897-98 & UL1897-04 'Uplift Tests for Roof Covering Systems' and FM 4470 Section 5.5 'Resistance to Foot Traffic'.

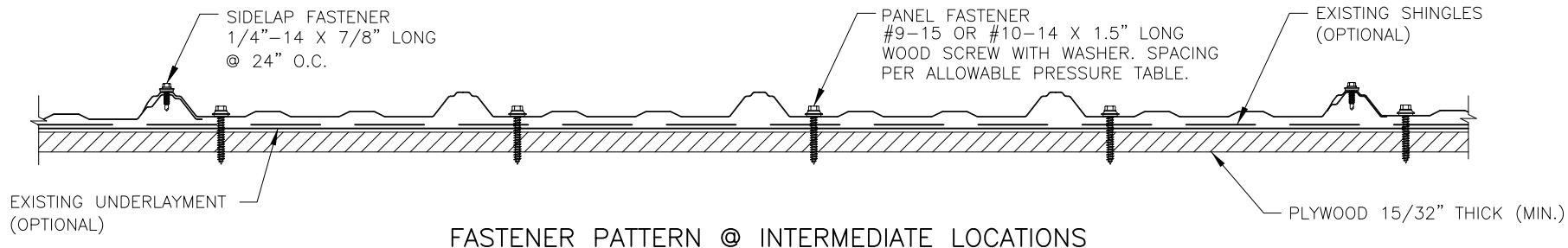
Test Equivalency: The test procedures in UL 580-94 comply with test procedures prescribed in UL 580-06.
The test procedures in UL 1897-98 & 1897-04 comply with test procedures prescribed in UL 1897-12.
The test procedure in FM 4470 (1992) comply with test procedure prescribed in FM 4470 (2016) Section 4.6 'Resistance to Foot Traffic'.

Code Compliance: The product described herein has demonstrated compliance with FBC 2020 Section 1507.4.

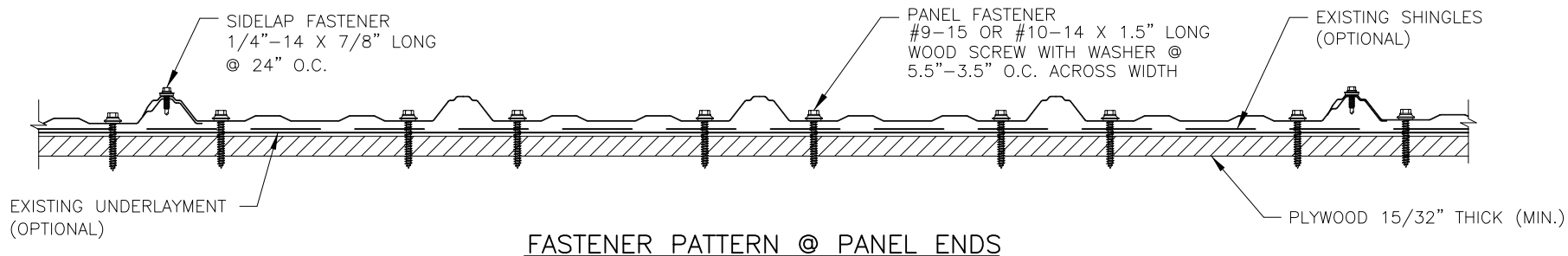
Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2020 Section 1609 or ASCE 7-16 using allowable stress design. The maximum fastener spacing listed herein shall not be exceeded. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2020 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

Supporting Documents: UL580/ UL1897 Test Reports
Farabaugh Engineering and Testing Inc.
Project No. T128-08, Reporting Date 2/29/08
Project No. T198-16, Reporting Date 5/16/16

FM 4470 Test Report
ENCON Technology Inc.
C1583-2, Reporting Date 7/24/08



FASTENER PATTERN @ INTERMEDIATE LOCATIONS



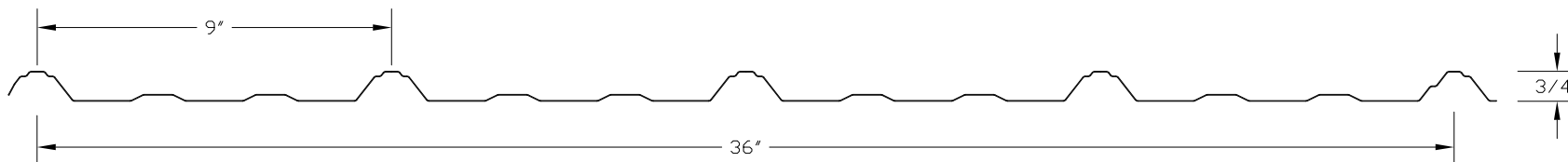
FASTENER PATTERN @ PANEL ENDS

GENERAL NOTES:

1. ARCHITECTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. THE ROOF PANELS SHALL BE INSTALLED OVER SHEATHING & STRUCTURE AS SPECIFIED ON THIS DRAWING.
3. 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 WIND LOADS SPECIFIED ON THIS DRAWING.
4. 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.
5. RAFTERS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

ALLOWABLE UPLIFT PRESSURE

FASTENER SPACING (IN)	PRESSURE (PSF)
24	56.0
12	113.1



MASTERRIB PANEL PROFILE

Minimum 29 Gauge, Minimum Yield = 80 KSI

REVISIONS					
REV	DATE	NAME	DATE		
1		Bala Sockalingam	3-19-2015		
MasterRib Panel			SCALE	NONE	
CAD FILE:	MASTERRIB		DRAWN:	APPROVED:	
UNION CORRUGATING COMPANY 701 SOUTH KING ST FAYETTEVILLE, NC 28302 Ph: 610.485.2105 Fax: 610.485.1081					
			DATE:	3-19-2015	
			1 OF 1		