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

FLORIDA BUILDING CODE 6TH EDITION (2017) FLORIDA PRODUCT APPROVAL FL 7271.7-R4 ROOFING METAL ROOFING

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 (3 Pages including cover) Installation Details (1 Page)

> Report No. C2174-7 Date: 8.23.2017

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STATE OF 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).

New Underlayment: Minimum underlayment as per FBC 2007 Section 1507.4.5.1.

Required for new construction and optional for reroofing construction.

Existing Underlayment:

(Optional)

One layer of asphalt shingles over one layer of #30 felt. For reroofing

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 2017.

Slope: 1/2:12 or greater in accordance with FBC 2017 Section 1507.4.2

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

Panel Attachment: #9-15 or #10-14 x 1.5" long wood screw with washer

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 @ max 24" o.c.

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 (2012).

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

2017 Section 1507.4.

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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 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 2017 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

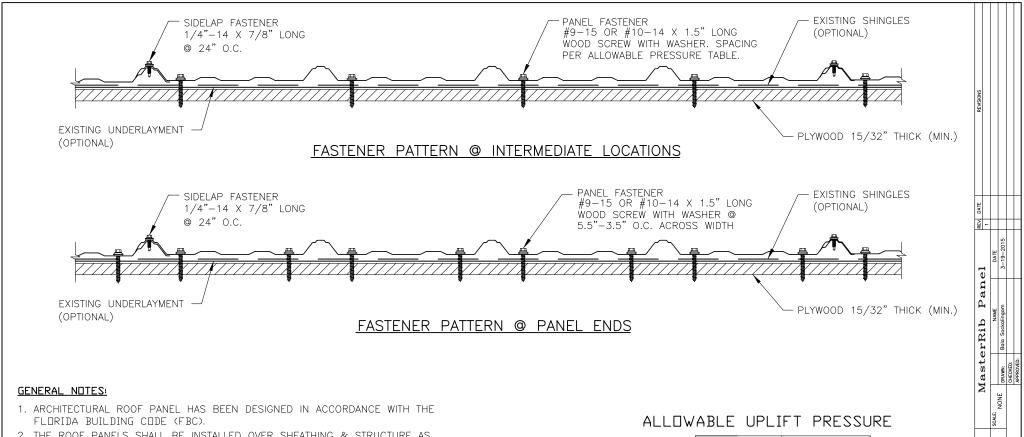
Supporting Documents:

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

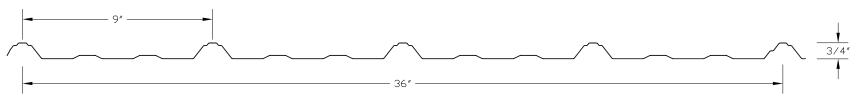
FM 4470 Test Report ENCON Technology Inc.

C1583-2, Reporting Date 7/24/08



- 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.

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



MASTERRIB PANEL PROFILE

Minimum 29 Gauge, Minimum Yield = 80 KSI

UNION COKKUGATING
COMPANY
701 SOUTH KING ST
FORTERING FOR SERVICES
PRO SERVICES
FOR SERVICES
FOR

DATE: 3-19-2015

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