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

## FLORIDA BUILDING CODE 5<sup>TH</sup> EDITION (2014) FLORIDA PRODUCT APPROVAL FL 7271.9-R3 ROOFING METAL ROOFING

Prepared For: Union Corrugating Company P. O. Box 229 Fayetteville, NC 28302 Telephone: (910) 483-0479 Fax: (910) 483-8897

Prepared By:
Bala Sockalingam, Ph.D., P.E.
Florida Professional Engineer #62240
1216 N Lansing Ave., Suite C
Tulsa, OK 74106
Telephone: (918) 492-5992
FAX: (866) 366-1543

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

> Report No. C1999-17 Date: 3.20.15



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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 2014.

Slope: 1/2:12 or greater in accordance with FBC 2014 Section 1507.4.2

Design Uplift Pressure: 45.0 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 'Uplift Resistance

of Roof Assemblies', UL1897-98 'Uplift Tests for Roof Covering

Systems' and FM 4470 Section 5.5 'Resistance to Foot Traffic'.

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

2014 Section 1507.4

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 fastener spacing listed herein shall not be exceeded. This product is not approved for use in the High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2014 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report

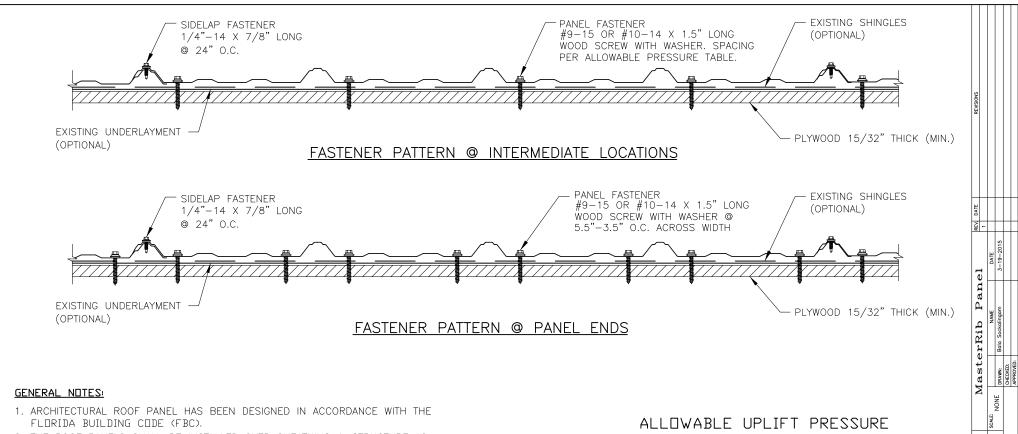
from an accredited laboratory for fire ratings of this product.

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Supporting Documents: UL580/ UL1897 Test Reports

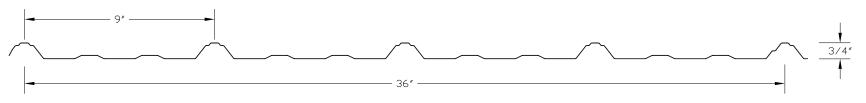
Farabaugh Engineering and Testing Inc Project No. T128-08, Reporting Date 2/29/08

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  $\square N$  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	45.0
12	113.1



MASTERRIB PANEL PROFILE

Minimum 29 Gauge, Minimum Yield = 80 KSI

UNION CORRUGATI COMPANY 701 SOUTH KING ST FAYETEVILLE, NG 28302

DATE: 3-19-2015

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