

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

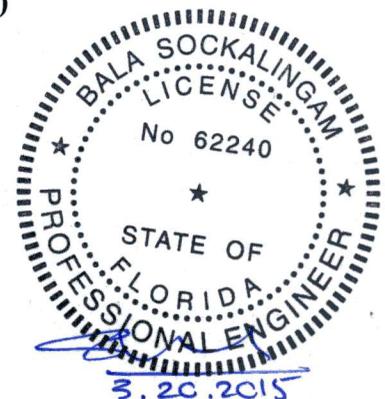
**FLORIDA BUILDING CODE 5<sup>TH</sup> EDITION (2014)  
FLORIDA PRODUCT APPROVAL  
FL 7271.10-R3  
ROOFING  
METAL ROOFING**

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**This report consists of  
Evaluation Report (2 Pages including cover)  
Installation Details (2 Pages)**

**Report No. C1999-18  
Date: 3.20.15**



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).

Deck Description: Min 15/32" thick APA rated plywood, 7/16" thick OSB 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.

Underlayment: Minimum underlayment as per FBC 2014 Section 1507.4.5.1

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

Design Uplift Pressure: 52.5 psf @ fastener spacing of 12" o.c.  
(Factor of Safety = 2)

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 with 2 screws at panel overlap

Test Standards: Roof assembly tested in accordance with UL580-94 'Uplift Resistance of Roof Assemblies' 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.

Supporting Documents: UL580 Roof Deck Construction No. 584  
  
FM 4470 Test Report  
ENCON Technology Inc  
C1583-2, Reporting Date 7/24/08



## Construction No. 584 TGKX.584 Roof Deck Constructions

[Page Bottom](#)

### Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

### Roof Deck Constructions

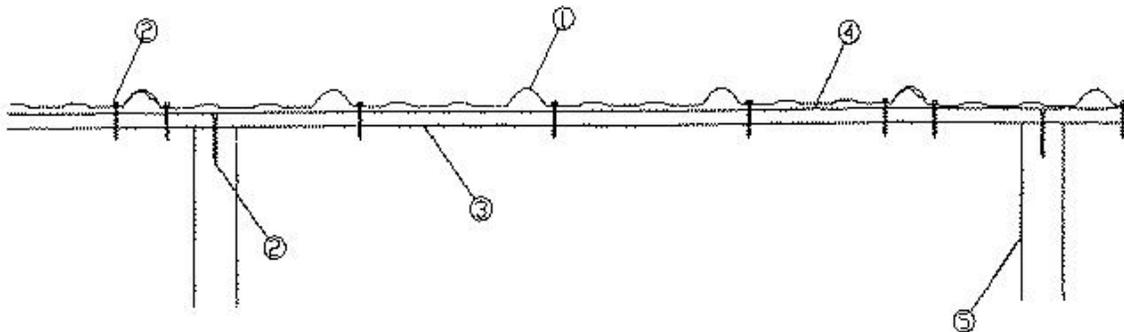
[See General Information for Roof Deck Constructions](#)

## Construction No. 584

July 09, 2014

Uplift — Class 90

Fire Not Investigated



1. Metal Roof Deck Panels\* — No. 29 MSG min. thick coated steel. 36 in. wide (cover width).

ALL STEEL BUILDINGS & COMPONENTS TUBULAR DIVISION INC ([View Classification](#)) — "Master-Rib"

AMERICAN CONSTRUCTION METALS ([View Classification](#)) — "Perfect Rib"

CAROLINA CARPORTS INC ([View Classification](#)) — ""Carolina Ridge""

DAKOTA STEEL & TRIM INC ([View Classification](#)) — "Strong Rib"

DAVISS COUNTY METAL SALES INC ([View Classification](#)) — "D.C. Rib"

CENTRAL STATES MFG INC ([View Classification](#)) — "Panel-Loc Plus"

FABRAL INC ([View Classification](#)) — "Grandrib 3"

FE SAWYER BUILDING SYSTEMS INC, DBA SAWYER METAL ([View Classification](#)) — "Tex-Rib"

GIDEON STEEL PANEL CO L L C ([View Classification](#)) — "Gideon Tuff-Rib AG"

GRABER POST BLDS INC ([View Classification](#)) — "G-Rib"

H&H METAL PRODUCTS INC ([View Classification](#)) — "Uni-Panel"

HIXWOOD METAL INC ([View Classification](#)) — "Super Rib 100" or "Super Rib 60"

IDEAL ROOFING CO LTD ([View Classification](#)) — "AMERI-CANA™"

LONG CREEK STEEL ([View Classification](#)) — "Tuff-Rib"

MARLYN METALS INC ([View Classification](#)) — "Mar-Rib"

METAL SALES MANUFACTURING CORPORATION ([View Classification](#)) — "Classic Rib"

METALLION INDUSTRIES INC ([View Classification](#)) — "Magna Rib"

PARAMOUNT METALS INC ([View Classification](#)) — "Smart Rib Plus"

UNION CORRUGATING CO ([View Classification](#)) — "Master-Rib Panel"

2. **Fasteners Screws** — Fasteners used to attach the plywood deck to the joists to be 2 in. long, No. 8 coarse thread screws. Fasteners to be spaced 6 in. OC at the plywood joists over supports and 12 in. OC in the field of the plywood. Fasteners used to attach the panels to the deck to be No. 9-15 x 1 in. long sharp point screws with a hex-washer head and sealing washer or No. 10-14 x 1-1/2 in. hex-washer head wood screw with bonded neoprene washer. Fasteners to be spaced a maximum of 12 in. OC along one side of each rib except at panel overlap locations where fasteners are to be spaced 12. in OC and located on both sides of the lap.

3. **Deck** — Min 15/32 in. thick, Type C-D, APA rated plywood or minimum 7/16 in. thick oriented strand board.

4. **Underlayment** — Min. Type 15 asphalt saturated felt, min. 2 in. sidelap, attached per manufacturer's recommendations.

5. **Joists** — Graded dimension lumber, No. 2 or better. Spaced a maximum of 24 in. OC.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2014-07-09

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