



Product **MasterRib**



FL No.	10528.1
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Material	Finish
	Galvalume Painted

Gauge (minimum)	29
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Deck Description	Plywood
	New construction: 15/32" Existing construction with one layer of asphalt shingle: 15/32"

Deck Attachment	Spacing
	Nails: 8d - 2" ring shank nails: 6" O.C. Screws: #8 - 2" wood screws: 6" O.C.

Underlayment	30# Felt
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Roof Slope Ranges	Sealant
	Slope: 1/2 /12 to less than 3/12: Side Lap Slope: 3/12 and greater: None

Panel Fasteners	Spacing
	SDS Screws: #9-15 x 1.5" long: See Tables Side Lap SDS Screws: 1/4 x 7/8" long: 2' 0" o.c.

Fastener Spacing (along panel length, inches)

Wind Z Speed mph	one No. Roof Hip Location	Roof Slope			
		Gable Roof			Roof
		.5 to <1.5/12	1.5 to <6/12	6 to 12/12	1.5 to 5.5/12
100	1 Field	24	24	24	24
	2 Edge	24	24	24	24
	3 Corner	12	12	24	24
110	1 Field	24	24	24	24
	2 Edge	12	12	12	24
	3 Corner	12	12	12	24
120	1 Field	24	24	24	24
	2 Edge	24	24	24	24
	3 Corner	12	12	12	24
130	1 Field	24	24	24	24
	2 Edge	12	12	12	12
	3 Corner	12	12	12	12
140	1 Field	12	24	24	12
	2 Edge	12	12	12	12
	3 Corner	N/A	12	12	12

Fastener Spacing (across panel width)

Panel Ends (eave, valley, hip and ridge):	Location
Side Lap Screw: Place fasteners 2" from panel end	Ribs and Flat
Between Panel Ends (Intermediates):	Ribs and Flat

*Fastener spacing based on testing

Notes:

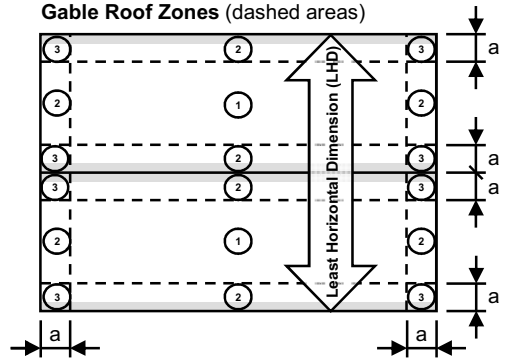
1. Read all Notes before purchasing material and check compliance of the product with local building code requirements.
2. The Fastener Spacing Table below is based on a mean roof height of up to 25' for Exposure C. For roof eave heights over 25' and other exposures contact Union Corrugating Company.
3. Installation must be in complete compliance with the materials and related specifications listed on this page, MasterRib Installation drawings, and the Florida Building Code RAS No. 133.
4. See MasterRib installation drawings for additional approved trim details and applications.
5. Refer to Florida Building Code RAS No. 133 "Standard Procedures for Installation of Metal Roof Systems".
6. For applications not in compliance with this product approval as listed contact Union Corrugating Company for other options.
7. This application and installation method is not for use in HVHZ areas governed by Miami Dade Product Approval. See the Union Corrugating Miami Dade Approved Product use guide for these areas.
8. If the roof has both Gables and Hips use the Gable Roof Fastener Spacing Table.
9. For Hip Roof slopes greater than 5.5/12 use Gable Roof Table, 6 to 12/12 column.
10. Guide is subject to change without notice.

Calculate Zone width (dimension "a"):

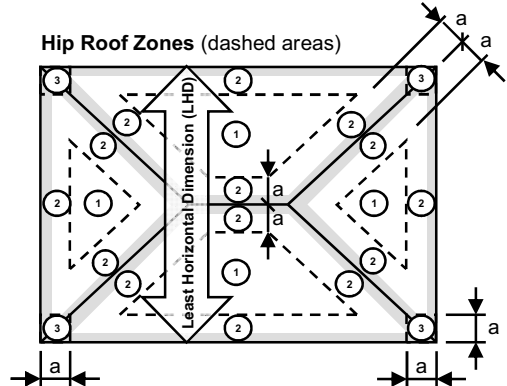
$a = \text{LHD} \times 10\%$

Note: "a" must be a minimum of 3'.

Gable Roof Zones (dashed areas)



Hip Roof Zones (dashed areas)



Gray highlighted lines indicate the location of panel end fastening at the eave, hip, valley (not shown), and ridge.

**EVALUATION REPORT OF
UNION CORRUGATING COMPANY
'MASTERRIB ROOF PANEL'**

**FLORIDA PRODUCT APPROVAL
#FL 10528.1
ROOFING
METAL ROOFING**

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**This report consists of
Evaluation Report (2 Pages including cover)
Installation Details (1 Page)**

**Report No. C1578-1
Date: 4.2.08**



Manufacturer: Union Corrugating Company

Product Name: MasterRib Metal Roof Panel

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

Materials: Min 29 ga. with galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755) in Grade 80 ($F_y = 80$ ksi). Finished with optional Silicone Polyester coating.

Underlayment: Minimum underlayment as per FBC 2007 Section 1507.4.5

Existing substrate: Asphalt shingles (One layer)

Deck Description: 15/32" CDX Plywood

Deck Attachment: 8d x 2" long ring shank nails @ 6" OC in the plywood field and edges

Slope: 2:12 or greater in accordance with FBC 2007 Section 1507.4.2

Design Uplift Pressure:
(Factor of Safety = 2) 45.0 psf @ fastener spacing of 24" OC
113.1 psf @ fastener spacing of 12" OC

Panel Attachment:
At panel ends #9-15 x 1-1/2" long SDS @ 6"-3"-6" OC across panel width
At intermediate #9-15 x 1-1/2" long SDS @ 9" OC across panel width

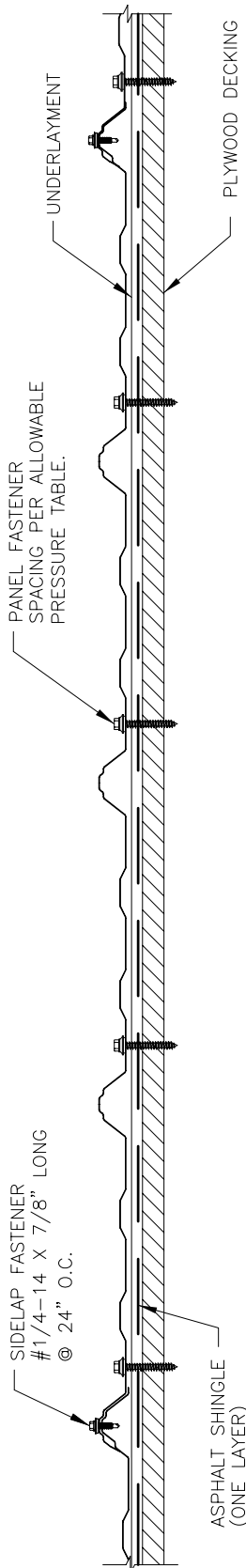
Sidelap Attachment: #1/4-14 - 7/8" long SDS @ 24" OC

Test Standards: Roof assembly tested in accordance with UL-580-94 (Rev 98) 'Uplift Resistance of Roof Assemblies' & UL 1897-98 'Uplift Tests for Roof Covering Systems'.

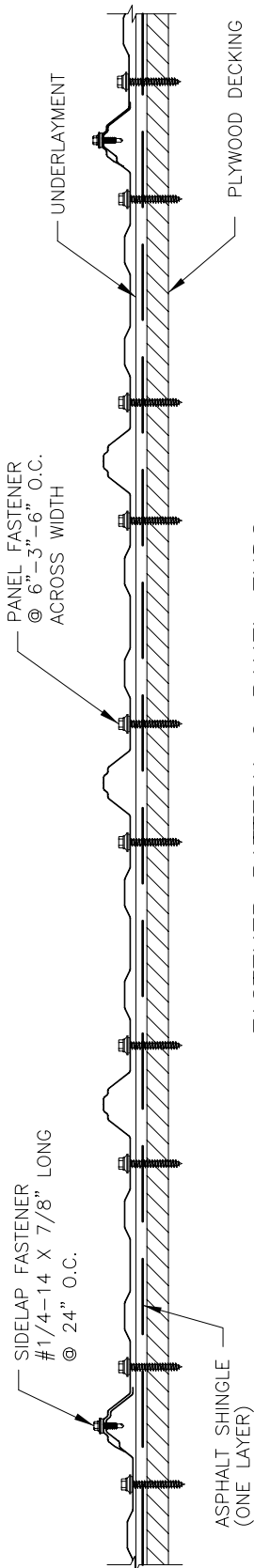
Code Compliance: The product described herein has demonstrated compliance with FBC 2007 Section 1507.4

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2007 Section 1609. The maximum fastener spacing listed herein shall not be exceeded. This product is not approved for use in the High Velocity Hurricane Zone.

Supporting Documents: UL-580 Test Reports
Farabaugh Engineering and Testing Inc
Project No. T128-08, Reporting Date 2/29/08



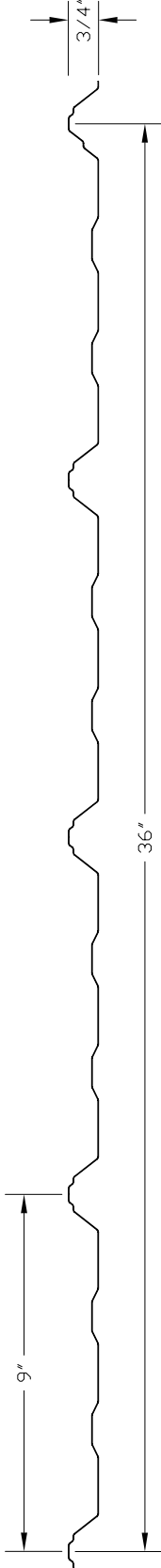
FASTENER PATTERN @ INTERMEDIATE LOCATIONS



FASTENER PATTERN @ PANEL ENDS

ALLOWABLE UPLIFT PRESSURE

FASTENER SPACING (IN)	PRESSURE (PSF)
24	45.0
12	113.1



MASTERRIB PANEL PROFILE

29 Gauge, Minimum Yield = 80 KSI

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.

