



Product **MasterRib**



FL No.	9557.2
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Material	Finish
	Galvalume Painted

Gauge (minimum)	29
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Support Description	Wood
	SPF 2" x 2" Must be designed by others

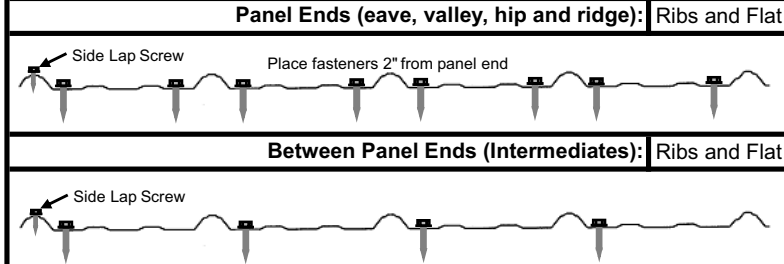
Panel Fasteners	Spacing
	SDS Screws: #9-15 x 1.5" long Side Lap SDS Screws: 1/4 x 7/8" long See Tables 24" o.c.

Support Spacing (in) (Min 3 spans)			
Wind Speed mph	Zone No. Wall Location	Roof Slope	
		≤2/12	>2/12
100	4 Field	48	48
	5 Edge	48	48
110	4 Field	48	48
	5 Edge	48	42
120	4 Field	48	42
	5 Edge	36	36
130	4 Field	42	36
	5 Edge	33	30
140	4 Field	36	33
	5 Edge	27	27

Notes:

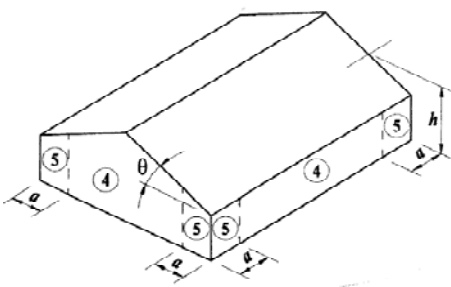
1. Read all Notes before purchasing material and check compliance of the product with local building code requirements.
2. The Support Spacing Table below is based on a mean roof height of up to 25' for Exposure C. For roof eave heights over 25' and other exposures contact Union Corrugating Company.
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. Panels can span from base to eave or from side to side.
9. Guide is subject to change without notice.

Fastener Spacing* (across panel width) **Location**



*Fastener spacing based on testing and rational analysis

Calculate Zone width (dimension "a"):
 $a = LHD \times 10\%$
 Note: "a" must be a minimum of 3'.



**EVALUATION REPORT OF
UNION CORRUGATING COMPANY
'29 GA. MASTERRIB WALL PANEL'
OVER WOOD SUPPORTS**

**FLORIDA PRODUCT APPROVAL
#FL 9557.2-R1
PANEL WALLS
SIDING**

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**This report consists of
Evaluation Report (2 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)
Sample Calculation (2 Pages)**

**Report No. C1605-10
Date: 8.17.08**



A circular professional engineer seal for the State of Florida is visible in the bottom right corner. The seal contains the text "STATE OF FLORIDA" and "PROFESSIONAL ENGINEER". Overlaid on the seal is a handwritten signature in blue ink, which appears to be "B. Sockalingam". Below the signature, the date "8.17.08" is handwritten in blue ink.

Manufacturer: Union Corrugating Company

Product Name: MasterRib 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 E ($F_y = 80$ ksi).

Support Description: Nom. 2" x 2" (min) lumber
(Must be designed by others)

Design Pressure: +45.35 and -36.2 psf @ support spacing of 48" o.c.
(Based on testing) (@ 3 span condition with FS = 2.0)

Panel Attachment:
At panel ends #9-15 x 1.5" long wood screws with washers @ 3"-6"-3" o.c. across panel width
At intermediate #9-15 x 1.5" long wood screws with washers @ 9" o.c. across panel width

Sidelap Attachment: 1/4"-14 x 7/8" long SDS @ 24" o.c.

Test Standards: Panel assembly tested in accordance with ASTM E1592-01 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference'.

Code Compliance: The product described herein has demonstrated compliance with FBC 2007 Section 1404.5

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2007 Section 1609. The maximum support spacing listed herein shall not be exceeded. The design pressure for reduced support spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Union Corrugating load span table. This product is not approved for use in the High Velocity Hurricane Zone.

Supporting Documents: ASTM E1592 Test Report
ENCON Technology Inc.
C1514-1 (Test #2 & 3), Reporting Date 9/8/07

UNION CORRUGATING COMPANY

MasterRib Wall Panel

36" wide, 29 ga. (min) Steel Panel over Wood Supports

Span Condition	Loading Type	Allowable Load (psf)								
		Support Spacing (ft)								
		1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	4.00
Two Span	Positive	106.4	91.2	79.8	70.9	63.9	58.0	53.2	45.6	36.3
	Negative	84.9	72.8	63.7	56.6	51.0	46.3	42.5	36.4	29.0
Three Span	Positive	120.9	103.7	90.7	80.6	72.6	66.0	60.5	51.8	40.7
	Negative	96.5	82.7	72.4	64.4	57.9	52.7	48.3	41.4	36.2
Four or More Spans	Positive	116.4	99.8	87.3	77.6	69.8	63.5	58.2	49.9	42.4
	Negative	92.9	79.6	69.7	61.9	55.7	50.7	46.5	39.8	33.8

Notes:

1. Allowable load for each condition is the smallest load calculated based on fastener capacity, panel strength and and deflection limit of L/120. Allowable loads are calculated for minimum 29 ga. panel.
2. The panel allowable properties are determined from full scale ASTM E1592-01 test at 4' 0" span
3. The panel fasteners are #9-15 x 1-1/2" long wood screws with washers. Fastener spacing across panel width is 9.0" O.C. in the interior supports and 3"-6"-3" O.C. at panel ends.
4. Sidelap fasteners are #1/4-14 x 7/8" long self drilling screws at 24" O.C.
5. Wood supports are minimum 2" x 2" lumber. All supports must be designed to resist all loads imposed on the panel.
6. Minimum bearing width of support is 1.5".
7. The panels may span from bottom to top supports or side to side supports.


[Signature]
 8.17.08

CHECKED BY:	B.S.	DATE:	8/15/08
DRAWN BY:			
PLT:			
NO.	REVISION DESCRIPTION	BY	DATE

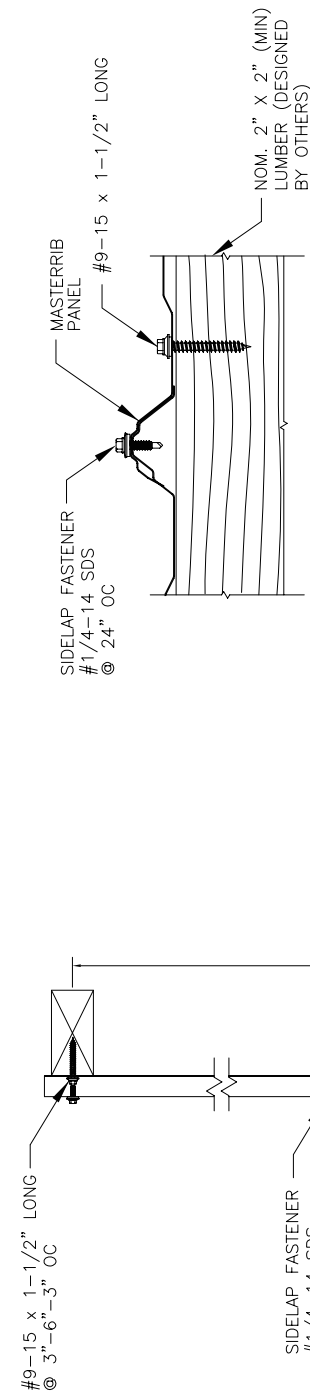
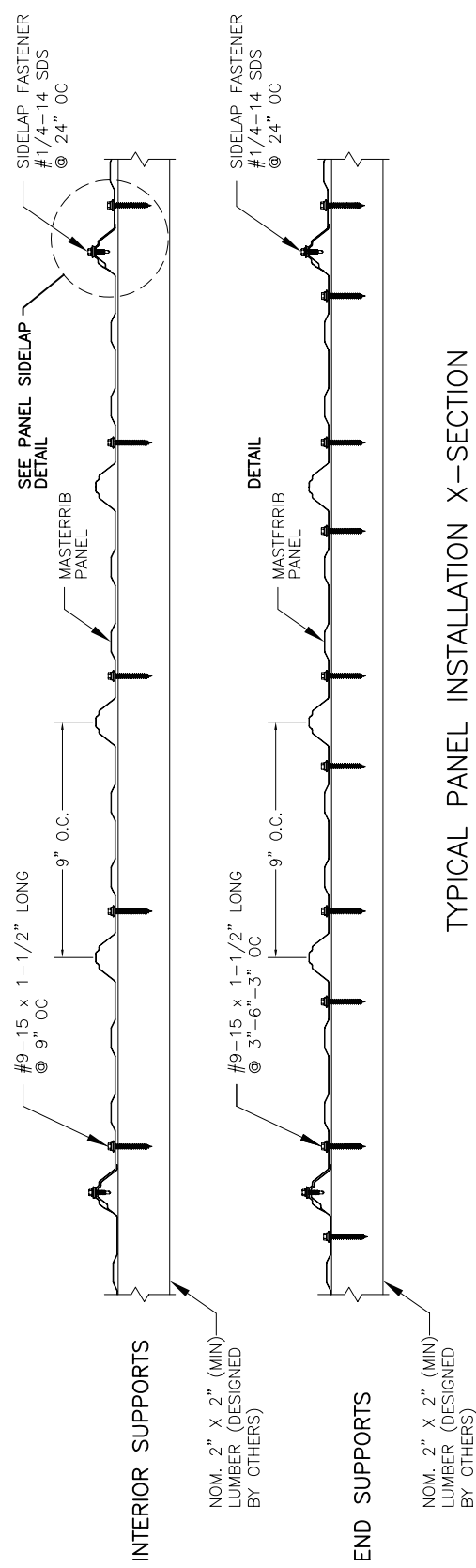
MASTERRIB WALL PANEL OVER WOOD SUPPORTS

UNION CORRUGATING CO.
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CERTIFICATION
BALA SOCCALINGAM, P.E.
P.E. NO. 62240

DRAWING NO. 1605-10
SHEET NO. 1 OF 1



- GENERAL NOTES:**
1. WALL PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
 2. WALL PANELS SHALL BE 29 GA. (t = 0.013"). EFFECTIVE COVERING WIDTH OF PANEL = 36".
 3. WALL PANELS SHALL BE INSTALLED OVER STRUCTURE AS SPECIFIED ON THIS DRAWING.
 4. 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 DESIGN LOADS.
 5. 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.
 6. SUPPORTS MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.
 7. PANELS MAY SPAN BETWEEN BOTTOM TO TOP SUPPORTS OR SIDE TO SIDE SUPPORTS.

DRAWING TITLE