

**EVALUATION REPORT OF
METALMAX ROOFING AND SIDING
'MAX150SL PANEL'**

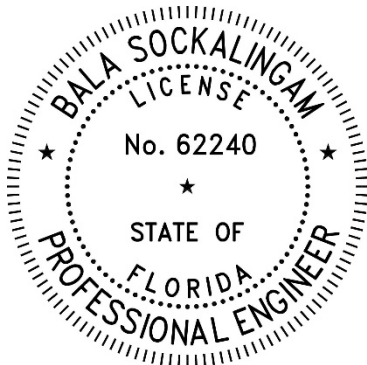
**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 42128.1-R1
ROOFING
METAL ROOFING**

**Prepared For:
MetalMax Roofing and Siding
900 Cpt Joe Fulghum Drive
Murfreesboro, TN 37129
Telephone: (615) 494-1693**

**Prepared By:
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**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)**

**Report No. C2731-1
Date: 9.15.2023**



This item has been digitally signed and sealed by Bala Sockalingam, PE, on the date indicated.

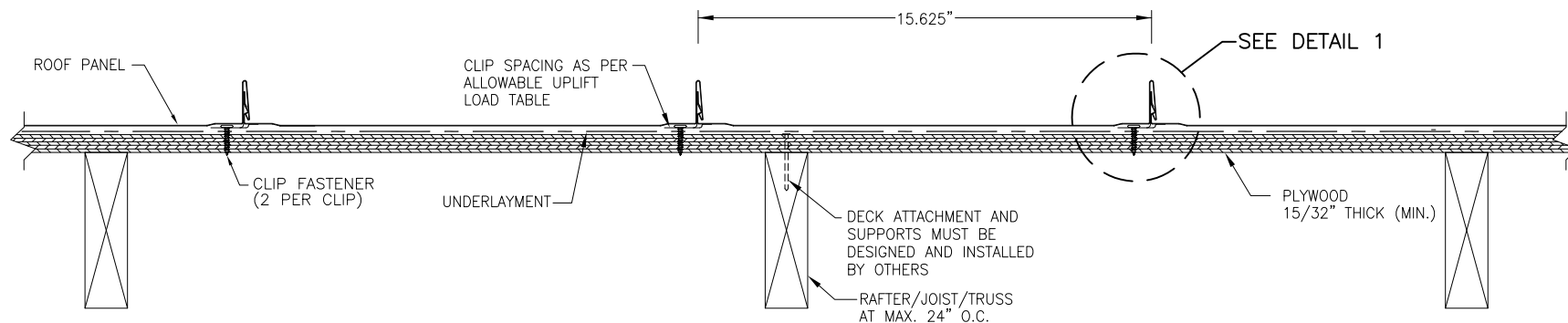
Printed copies of this document are not considered signed and sealed and this signature must be verified on any electronic copies.

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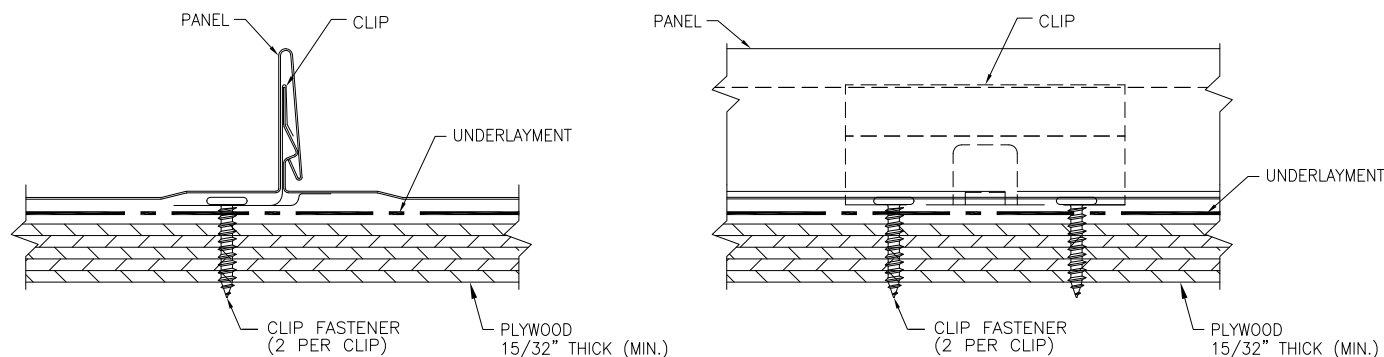
Manufacturer:	MetalMax Roofing and Siding
Product Name:	Max150SL Panel
Panel Description:	Snap lock standing seam panel with max. 15-5/8" wide coverage and 1.5" high ribs
Materials:	Minimum 26 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755). Corrosion resistant as per FBC 2023 Section 1507.4.3.
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 2023.
Underlayment:	Minimum underlayment as per FBC 2023 Section 1507.4.5.1
Slope:	1/4:12 or greater in accordance with FBC 2023 Section 1507.4.2
Design Uplift Pressure: (Factor of Safety = 2)	35.0 psf at clip spacing of 24" o.c. 59.3 psf at clip spacing of 6" o.c.
Panel Attachment:	3" long, 1.3" tall, 24 ga. galvanized fixed clip with (2) #10-9 x 1" long pancake head Type 17 wood screws per clip through underlayment into deck. Clips and fasteners are corrosion resistant as per FBC 2023 Section 1506.7 and 1507.4.4, respectively. Fasteners shall be of sufficient length to penetrate through the deck a minimum of 1/4".
Test Standards:	Roof assembly tested in accordance with UL580-06 'Uplift Resistance of Roof Assemblies' & UL1897-12 'Uplift Tests for Roof Covering Systems'.
Test Equivalency:	The test procedures in UL 1897-12 comply with test procedures prescribed in UL 1897-15.
Code Compliance:	The product described herein has demonstrated compliance with FBC 2023 Section 1507.4.
Product Limitations:	Design wind loads shall be determined for each project in accordance with FBC 2023 Section 1609 or ASCE 7-22 using allowable stress design. Maximum clip spacing listed herein shall not be exceeded. The design pressure for reduced clip spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on MetalMax's load span table. This product is not approved for use in the High Velocity Hurricane Zone. Fire classification is not within the scope of this Evaluation Report. Refer to FBC 2023 Section 1505

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

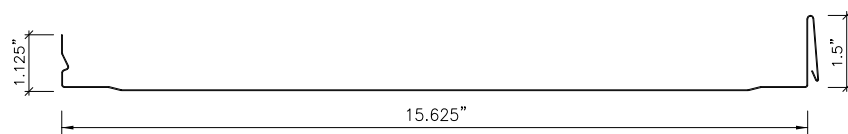
Supporting Documents: UL580/UL1897 Test Report
Farabaugh Engineering and Testing Inc.
Project No. T177-23, Reporting Date 4/28/2023, Revised 6/13/2023



TYPICAL PANEL INSTALLATION X-SECTION



DETAIL 1



PANEL SECTION
(MIN 26 GA.)

GENERAL NOTES:

1. ARCHITECTURAL STANDING SEAM ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE MIN. 26 GA. ($t = 0.018"$). EFFECTIVE COVERING WIDTH OF PANEL = 16".
3. THE ROOF 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 WIND LOAD TABLE.
5. CLIPS AND FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. DECK AND SUPPORTS MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

DRAWN BY: B.S.	CHECKED BY: R.B.
PLOT:	DATE: 6/12/2023
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE MAX150SL PANEL CONSULTANTS BALA SOCKALINGAM, PH.D., P.E. 1216 N LANSING AVE, SUITE C TULSA, OK 74106 PHONE: 918-492-5992 FAX: 866-366-1543	
MANUFACTURER METALMAX ROOFING AND SIDING 900 Cpt Joe Fulghum Drive Murfreesboro, TN 37129 615-494-1693	
DRAWING NO. D2731-1	REV.
PAGE NO. 1	OF 1

METALMAX ROOFING AND SIDING'S
Max150SL Panel Uplift Loads
(Min 26 ga.)

Description	Clip Spacing Along Panel Length (in)	Allowable Uplift Load (psf)
Maximum Coverage Width: 15-5/8" 3" long, 24 ga. Fixed Clip Clip Fasteners: (2) #10-9 x 1" long pancake head Type 17 wood screws	6	59.3
	9	55.3
	12	51.2
	15	47.2
	18	43.1
	21	39.1
	24	35.0

Notes:

1. The bold numbers indicate design loads calculated from test data with safety factor of 2.
2. Panels must be installed as per Evaluation Report FL 42128.1 and MetalMax current installation procedure.