

**EVALUATION REPORT OF
AMERICAN BUILDINGS
'LOC SEAM 360 PANEL'**

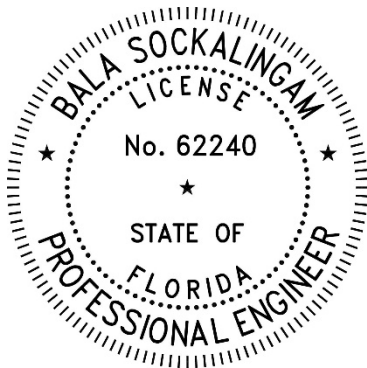
**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 704.1-R10
STRUCTURAL COMPONENTS
ROOF DECK**

**Prepared For:
American Buildings
200 Whetstone Road
Swansea, SC 29160
Telephone: (803) 568-2100**

**Prepared By:
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**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Tables (2 Pages)**

**Report No. C2889-1
Date: 3.22.2025**



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

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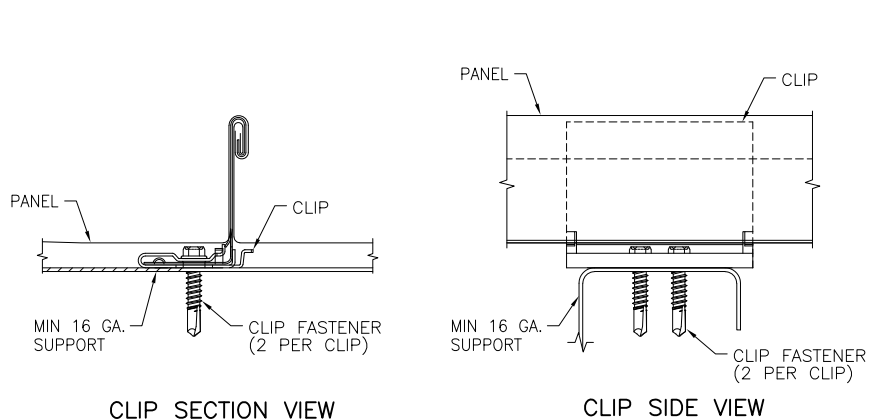
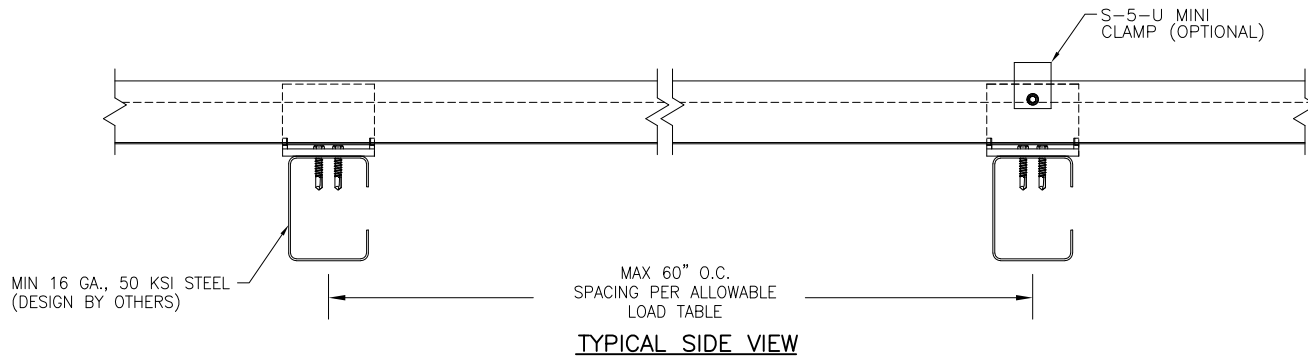
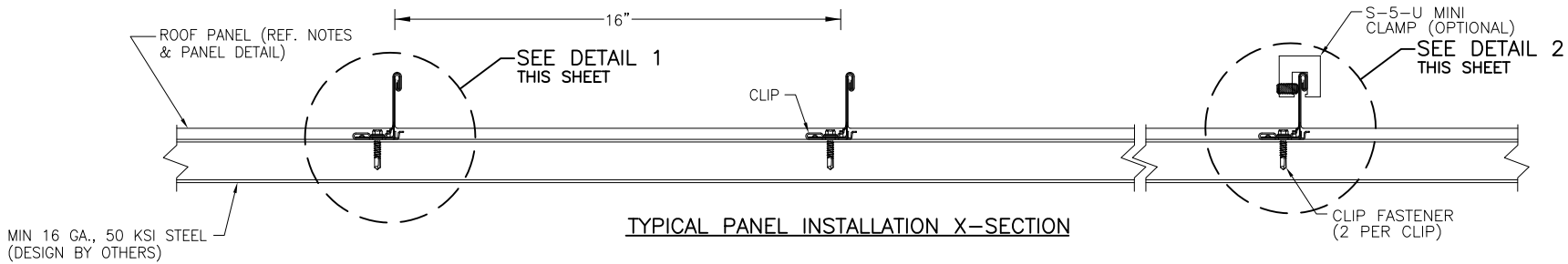
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Manufacturer:	American Buildings
Manufacturing Location:	600 Apache Trail, Terrell, TX 75160
Product Name:	Loc Seam 360 Panel
Panel Description:	Standing seam panel with max. 16" wide coverage and 2" high ribs with 180° panel seam
Materials:	Min 24 ga. with galvalume coated steel (ASTM A792) ($F_y = 50$ ksi). Corrosion resistant as per FBC 2023 Section 1507.4.3.
Support Description:	Min. 16 ga., 50 ksi steel section (Must be designed by others)
Slope:	1/4:12 or greater in accordance with FBC 2023 Section 1507.4.2
Design Uplift Pressure: (Factor of Safety = 2)	44.2 psf at clip spacing of 60" o.c. 156.1 psf at clip spacing of 12" o.c. 62.0 psf at clip and S-5-U Mini clamp spacing of 60" o.c. 157.5 psf at clip and S-5-U Mini clamp spacing of 24" o.c.
Panel Attachment:	LSEC-1 or LSEC-2T sliding clips with (2) 1/4"-14 x 1-1/4" long self-drilling screws per clip. Clips and fasteners are corrosion resistant as per FBC 2023 Section 1506.7 and 1507.4.4, respectively.
Clamp Attachment: (Optional)	S-5-U Mini clamp at each clip location. Clamps fastened to the seam with one set screw in accordance with the manufacturer's instructions.
Test Standards:	Roof assembly tested in accordance with ASTM E1592-05(2012) and E1592-05(2017) 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference' and FM 4471 Section 5.4 'Resistance to Foot Traffic'.
Test Equivalency:	The test procedures in ASTM E1592-05(2012) comply with test procedures prescribed in ASTM E1592-05(2017).
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. The maximum clip spacing listed herein shall not be exceeded. The design uplift pressure for reduced clip spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on American's load span tables. This product is not approved for use in the High Velocity Hurricane Zone. Fire

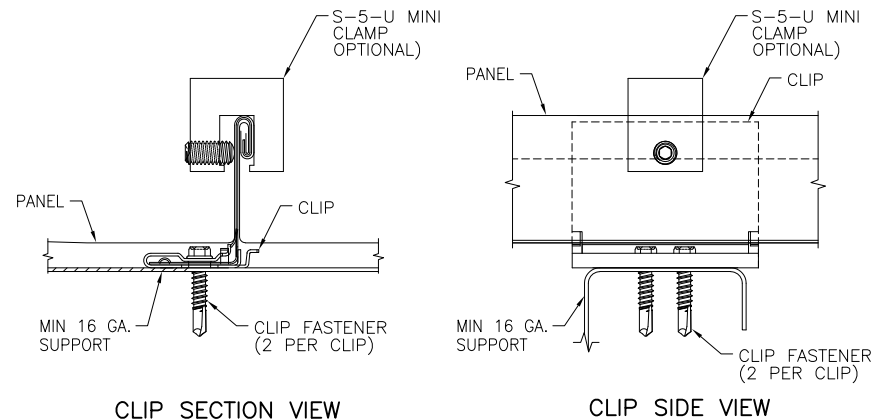
classification is not within the scope of this Evaluation Report. Refer to FBC 2023 Section 1505 and current approved roofing materials directory for fire ratings of this product.

Supporting Documents: ASTM E1592 Test Reports
Force Engineering and Testing Inc.
Report No. 534-0047T-22 A-D, Reporting Date 9/12/2022
ENCON Technology Inc.
Project No. C2659-1, Reporting Date 8/31/2022

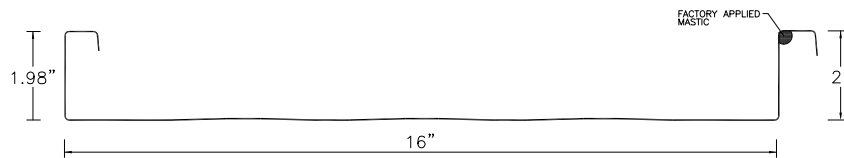
FM 4471 Test Report
FM Approvals
Project ID 3000525, Reporting Date 9/2/1999



DETAIL 1



DETAIL 2



GENERAL NOTES:

1. STRUCTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE MIN. 24 GA. ($t = 0.022"$). MAX. 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 LOADS SPECIFIED ON THIS DRAWING.
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. PURLINS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

DRAWN BY: B.S.	CHECKED BY: D.B.
PLOT:	DATE: 3/22/2025
DATE	
BY	
REVISION DESCRIPTION	
NO.	
LOC SEAM 360 PANEL MANUFACTURER AMERICAN BUILDINGS 200 WHETSTONE ROAD SWANSEA, SC 29160 803-568-2100 CONSULTANTS BALA SOCKALINGAM, PH.D., P.E. 1216 N LANSING AVE, SUITE C TULSA, OK 74106 PHONE: 918-492-5992	
DRAWING TITLE	
DRAWING NO. 2889-1	REV. 1
PAGE NO. 1	OF 1

**American Buildings
Loc-Seam 360 Panel
Allowable Uplift Loads**

Description	Clip & Clamp Spacing (in)	Allowable Uplift Load (psf)
Loc-Seam 360 Panel Min. 24 ga. Clip LSEC-1 or LSEC-2T Clip Fasteners (2) 1/4"-14 SDS Support Min 16 ga.	12	156.1
	15	149.1
	18	142.1
	21	126.3
	24	110.5
	27	98.2
	30	88.4
	33	80.4
	36	73.7
	39	68.0
	42	63.1
	45	58.9
	48	55.3
	51	52.0
	54	49.1
	57	46.5
	60	44.2

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 704.1 and American Buildings current installation procedure.
3. Three or more spans condition.

American Buildings
Loc-Seam 360 Panel with S-5-U Mini Clamps
Allowable Uplift Loads

Description	Clip & Clamp Spacing (in)	Allowable Uplift Load (psf)
Loc-Seam 360 Panel Min. 24 ga. Clip LSEC-1 or LSEC-2T Clip Fasteners (2) 1/4"-14 SDS Clamps S-5-U Mini Support Min 16 ga.	24	157.5
	27	140.0
	30	126.0
	33	114.5
	36	105.0
	39	96.9
	42	90.0
	45	84.0
	48	78.8
	51	74.1
	54	70.0
	57	66.3
	60	62.0

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 704.1 and American Buildings current installation procedure.
3. Three or more spans condition.