

**EVALUATION REPORT OF
ALL WEATHER INSULATED PANELS
SR2 & SR3 INSULATED STANDING SEAM ROOF PANELS**

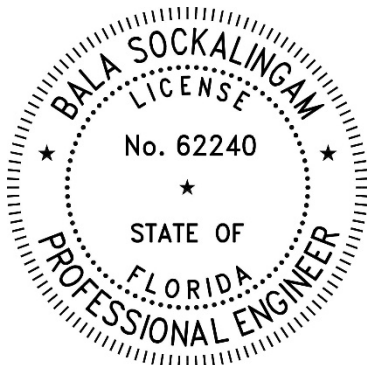
**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 14700.2-R3
STRUCTURAL COMPONENTS
STRUCTURAL ROOF**

**Prepared For:
All Weather Insulated Panels
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**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (13 Pages)
Load Span Tables (1 Page)**

**Report No. C2723-2
Date: 10.21.2023**



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

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Manufacturer:	All Weather Insulated Panels
Product Name:	SR2 and SR3 insulated standing seam roof panels
Panel Description:	SR2 and SR3 panels are factory-assembled, metal faced, sandwich panels with a chemically bonded continuously foamed-in-placed foam plastic core. Maximum 40" coverage. Panel thickness: 3.25", 4", 5" & 6".
Panel Core:	Polyisocyanurate (ISO) foam core designated as All Weather Insulated Panel Proprietary Blend Formulation. Nominal core density is 2.2 pcf with flame spread index of 20 and smoke-developed index of 170 when tested in accordance with ASTM E84-19b.
Exterior skin:	Min. 26 ga., 33 ksi galvanized coated steel (ASTM A653), galvalume AZ50 or AZ55 coated steel (ASTM A792) or stainless steel (ASTM A240) with 1" high rib profiles with embossed, smooth or coated finish. SR2 consisted of two partial ribs with 1" high corrugation along the two sides. SR3 profile is similar to SR2 with additional 1" high rib along the middle of the panel. Minimum base metal thickness is 0.017".
Interior skin:	Min. 26 ga., 33 ksi galvanized coated steel (ASTM A653), galvalume AZ50 or AZ55 coated steel (ASTM A792) or stainless steel (ASTM A240) with 'Mesa' profiles with embossed or smooth finish. Minimum base metal thickness is 0.017".
Support Description:	Min. 14 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 and with manufacturers recommendations. Butyl tape sealant (3/8" x 3/32") must be used in the panel sidelaps.
Design Pressure:	Allowable uplift loads are shown in the load span tables. The allowable loads were determined from full scale tests with safety factor of 2.
Standard Fastening:	Panels will be fastened along the panel sidelap at each support with SR series clip appropriate for use with the panel thickness using 1/4"-14, 1/4"-20 or 1/4"-28 ITW Buildex TEKS® self-drilling fasteners with TEK 3 or TEK 5 drill tips. Fastener shall be of sufficient length to penetrate through the support a minimum of 3/4".
EC-01 clip	6" long, 20 ga. EC-01 clips are fastened after installation and seaming of panels over the SR Series clip. Seamed with modified seamer.
Test Standards:	Roof assemblies were tested in accordance with ASTM E1592-05(2017) 'Test Method for Structural Performance of Sheet Metal Roof

and Siding Systems by Uniform Static Air Pressure' and Section 5.4 'Foot Traffic Resistance' of FM 4471 'Approval Standard for Class I Panel Roofs'.

- Test Equivalency: The test procedures in ASTM E84-19b comply with test procedures prescribed in ASTM E84-18b.
- Code Compliance: The product described herein has demonstrated compliance with FBC 2023 Section 1507.4 and 2603.3.
- 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 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 AWIP load span tables. This evaluation report is not applicable in 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: ASTM E1592 Test Reports
ENCON Technology Inc.
C2327-1, Reporting Date 8/21/2020
C2512-1, Reporting Date 1/31/2022
- FM 4471 Test Report
FM Approvals
Project ID 3038501, Reporting Date 1/20/2011
- ASTM E84 Test Report
Element Materials Technology
Project ID 19-002-712(F), Reporting Date 12/12/2019

ALL WEATHER INSULATED PANEL
SR2 and SR3 Insulated Roof Panels
Allowable Uplift Loads

With Standard Panel Clip

Support Spacing	Allowable Uplift Load (psf)		
	Panel Thickness		
	3.25"	4"	5" or 6"
2'-0"	-78.1	-83.2	-90.0
2'-6"	-73.6	-77.8	-83.5
3'-0"	-69.0	-72.4	-76.9
3'-6"	-64.5	-67.0	-70.4
4'-0"	-59.9	-61.4	-63.5
4'-6"	-55.4	-55.8	-56.4
5'-0"	-50.8	-50.8	-50.8
5'-6"	-48.0	-48.0	-48.0
6'-0"	-45.3	-45.3	-45.3
6'-6"	-42.1	-42.1	-42.1
7'-0"	-39.1	-39.1	-39.1
7'-6"	-36.5	-36.5	-36.5
8'-0"	-34.2	-34.2	-34.2

With Standard Panel and EC-01 Clips

Support Spacing	Allowable Uplift Load (psf)
	Min 3.25" Thick
5'-0"	-55.8
5'-6"	-53.0
6'-0"	-50.3
6'-6"	-47.5
7'-0"	-44.7
7'-6"	-41.8
8'-0"	-39.2

Notes:

1. The allowable uplift loads were determined from full scale tests with safety factor of 2.
2. Allowable load is applicable to two or more span conditions.
3. Clip fastener must be designed to resist outward load.
4. Panels must be installed as per Evaluation Report FL 14700.2 and AWIP current installation procedure.
5. The structural capacity of support are not considered and must be examined independently by others.