

**EVALUATION REPORT OF
ALL WEATHER INSULATED PANELS
DM40, FL40, FL36, HE40, HE35, HE40A, HE36A, ST40 & ST36
INSULATED WALL PANELS**

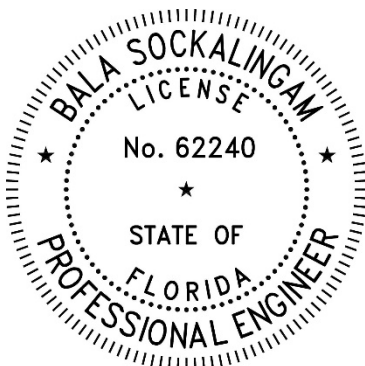
**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 15060.1-R5
STRUCTURAL COMPONENTS
STRUCTURAL WALL**

**Prepared For:
All Weather Insulated Panels
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**This report consists of
Evaluation Report (4 Pages including cover)
Installation Details (11 Pages)
Load Span Tables (1 Page)**

**Report No. C2971-1
Date: 12.10.2025**



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 (AWIP)
Product Name:	DM40, FL40, FL36, HE40, HE36, HE40A, HE36A, ST40 & ST36 insulated wall panels
Panel Description:	DM40, FL40, FL36, HE40, HE36, HE40A, HE36A, ST40 & ST36 panels are factory-assembled, metal faced, sandwich panels with a chemically bonded continuously foamed-in-placed foam plastic core. Minimum 36" and maximum 40" coverage. Panel thickness: 2", 2.5", 3", 4", 5", 6" or 8".
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 embossed, smooth or coated finish. Minimum base metal thickness is 0.017". DM40 – ‘Mesa’ profile, FL40 & FL36 – ‘Flat’ profile, HE40 & HE36 – ‘Heavy Embossed Flat’ profile, HE40A & HE36A – ‘AdobeTexture™ Flat’ profile & ST40 & ST36 – ‘Straited’ profile.
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)
Design Pressure:	Inward and outward transverse loads are shown in the load span tables. The allowable loads were determined from full scale tests with safety factor of 2 for Fastener System A and 1.5 for Fastener System C.
Clip Fastening:	Panels will be fastened along the panel sidelap at each support with WC-01 clip using (3) ¼"-14, ¼"-20 or ¼"-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".
Panel Clip:	WC-01 clip (4" long, 1.25" wide, 16 ga. galvanized steel)
Expansion Fasteners:	Elco’s Fab-Lok® FAS/FAC 10-4, 10-8 or 10-12 expansion fasteners to fasten the interior skin to support.

Panel Attachment: Fastener System A	Panels installed with clip and three fasteners.
Fastener System C	In addition to Fastener System A, the panels can be installed with (2) Fab-Lok fasteners spaced at maximum 10" o.c. from the panel sidelap.
Weather Resistance:	Wall panels, when installed in accordance with this report and AWIP current installation procedure, provide a weather resistant exterior wall envelope based on testing in accordance with ASTM E331 and FBC Section 1403.2.
Test Standards:	Wall 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 with TAS 201-94 "Impact Test Procedures", TAS 202-94 "Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components using Uniform Static Air Pressure" and TAS 203-94 "Criteria for Testing Products Subject to Cyclic Wind Pressure Loading".
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 1404.5 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.
Supporting Documents:	ASTM E1592 Test Report ENCON Technology Inc. C2378-1, Reporting Date 12/4/2020 TAS 201, 202 & 203 Test Report Force Engineering and Testing Inc. Report No. 489-0275T-12A, Reporting Date 4/1/2013 ASTM E283 & E331 Test Report Intertek Testing Services H2036.01-301-44, Reporting Date 6/26/2017

ASTM E84 Test Report

Element Materials Technology

Project ID 19-002-712(F), Reporting Date 12/12/2019

ALL WEATHER INSULATED PANEL
DM40, FL40, FL36, HE40, HE36, HE40A, HE36A, ST40 & ST36 Insulated Wall Panels
Allowable Inward and Outward Loads

Fastening System A

Support Spacing	Allowable Outward Loads (psf)			
	2" Thick	2.5" Thick	3" Thick	4" & Thicker
5'-0"	-44.0	-45.8	-47.6	-51.1
5'-6"	-41.5	-43.0	-44.5	-47.6
6'-0"	-38.0	-39.4	-40.8	-43.6
6'-6"	-35.1	-36.4	-37.7	-40.2
7'-0"	-32.6	-33.8	-35.0	-37.4
7'-6"	-30.4	-31.5	-32.6	-34.9
8'-0"	-28.5	-29.6	-30.6	-32.7
8'-6"	-26.8	-27.8	-28.8	-30.8
9'-0"	-25.3	-26.3	-27.2	-29.1
9'-6"	-24.0	-24.9	-25.8	-27.5
10'-0"	-22.8	-23.6	-24.5	-26.2
10'-6"	-21.7	-22.5	-23.3	-24.9
11'-0"	-20.7	-21.5	-22.3	-23.8
11'-6"	-19.8	-20.6	-21.3	-22.7
12'-0"	-19.0	-19.7	-20.4	-21.8

Fastening System C for Min 2" thick Panel

Support Spacing	Allowable Loads (psf)	
	Inward Load	Outward Load
5'-0"	65.0	-65.0

Notes:

1. The allowable loads were determined from full scale tests with safety factor of 2 for Fastening System A and 1.5 for Fastening System C
2. Clip fastener must be designed to resist outward load.
3. Allowable load is applicable to two or more span conditions.
4. Panels must be installed as per Evaluation Report FL 15060.1 and AWIP current installation procedure.
5. The structural capacity of support are not considered and must be examined independently by others.