

**EVALUATION REPORT OF
MSIP PANELS**

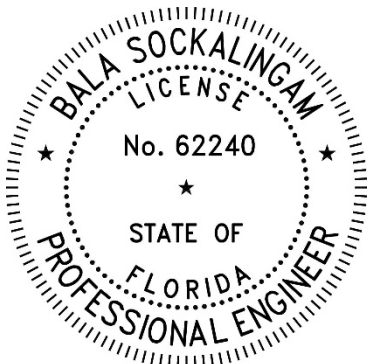
**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 14029.1-R4
STRUCTURAL COMPONENTS
STRUCTURAL WALL**

**Prepared For:
PanelMade LLC
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**Prepared By:
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**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (2 Pages)**

**Report No. C3030-1
Date: 6.9.2026**



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:	PanelMade LLC
Product Name:	MSIP structural insulated panels
Panel Description:	MSIP are factory-assembled, metal faced, sandwich panels with a chemically bonded dense polyurethane core. Maximum 24" coverage. Minimum panel thickness: 3"
Panel Core:	The foam core was 2 compound PIR/PUR Class 1 Rigid Polyurethane foam, a POLYOL and isocyanate blend with blowing agent. Nominal core density is 2.21 pcf with flame spread and smoke-developed index less than 20 and 450, respectively, when tested in accordance with ASTM E84-03.
Exterior Skin:	Min. 26 ga., 80 ksi galvanized coated steel (ASTM A653) or galvalume coated steel (ASTM A792) flat profiles with embossed or smooth finish as per FBC 2023 Section 1405.2. Minimum base metal thickness is 0.017".
Interior Skin:	Min. 26 ga., 80 ksi galvanized coated steel (ASTM A653) or galvalume coated steel (ASTM A792) flat profiles with embossed or smooth finish as per FBC 2023 Section 1405.2. Minimum base metal thickness is 0.017".
Stiffeners:	Min. 20 ga., 50 ksi galvanized coated S-shaped steel stiffener. Located along the two sides of the panel profile. Minimum base metal thickness is 0.035".
Channel Description:	Min. 16 ga., 50 ksi galvanized steel. Flange width = 2.5", web = 3.25".
Design Pressure:	Inward and outward loads are shown in the allowable load span table in the installation drawing. The allowable loads for panel strength, connection and deflection limit of L/180 were developed from test data. Maximum panel single span is 126.5".
Panel Attachment:	Panel ends capped with channels at the top and bottom. Panel are fastened with #12-24 x 2" long self-drilling corrosion resistant screws with washer spaced at 24" o.c. on both flanges of the channels. The fasteners are located at the sidelap and will penetrate through the stiffeners. The channel fastening to supports at maximum 12" o.c. must be designed by others to carry load imposed on panels.
Test Standards:	Wall assembly tested in accordance 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: Foam core used in MSIP panels was tested in accordance with ASTM E84-03 as reported in Intertek report 16732-120505. ASTM E84-03 procedures utilized in these test reports comply with test procedures prescribed in ASTM E84-18b.

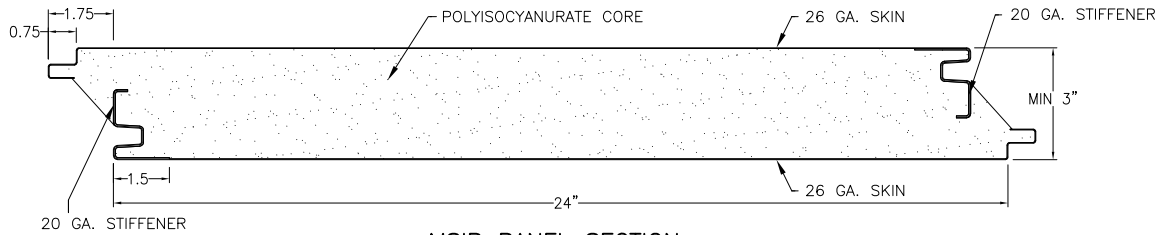
Code Compliance: The product described herein has demonstrated compliance with the requirements of High Velocity Hurricane Zone of FBC 2023 and Section 2603.3.

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2023 Section 1609 or 1620 and ASCE 7-22 using allowable stress design. The maximum panel span listed herein shall not be exceeded. The design pressure for reduced panel span may be computed using rational analysis prepared by a Florida Professional Engineer or PanelMade’s allowable load span table in the installation drawing. This evaluation report is applicable in High Velocity Hurricane Zone.

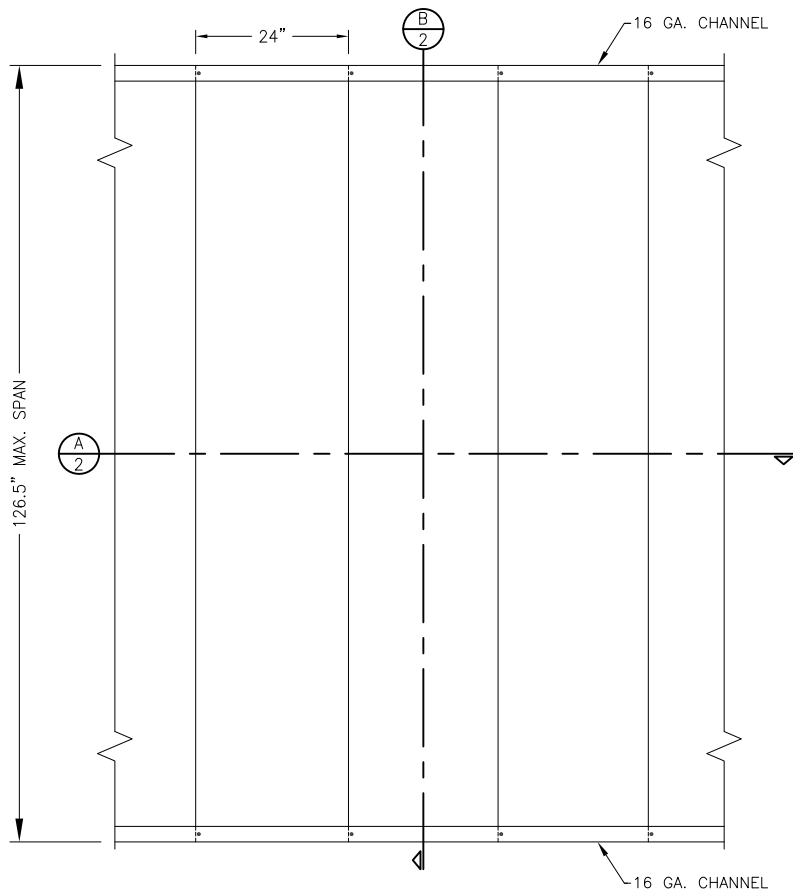
Supporting Documents: TAS 201 & 203 Test Reports
Hurricane Engineering and Testing Inc.
HETI-07-4258, Reporting Date 8/27/2007
HETI-07-4310, Reporting Date 8/27/2007
HETI-07-4309, Reporting Date 8/27/2007

TAS 202 Test Reports
Hurricane Engineering and Testing Inc.
HETI-07-4170, Reporting Date 6/11/2007
HETI-07-4234, Reporting Date 6/11/2007
HETI-07-4236, Reporting Date 6/11/2007
HETI-18-6050, Reporting Date 6/8/2018

ASTM E84 Test Report
Intertek Testing Services NA Inc. (Formerly Omega Point Lab)
16732-120505, Reporting Date 8/19/2004



MSIP PANEL SECTION
(26-26 GA., MIN 3" THICK FOAM)



TYPICAL EXTERIOR WALL ELEVATION

GENERAL NOTES:

1. THIS STRUCTURAL WALL PANEL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH 2023 FLORIDA BUILDING CODE (FBC). THE DESIGN PRESSURES AS DETERMINED FROM SECTION 1609 OR 1620 AND ASCE 7-22 MUST BE MULTIPLIED BY 0.6.
2. WALL PANELS ARE MAX 24" WIDE, CONSIST OF EXTERIOR 26 GA. ($t = 0.0175"$ MIN.) AND INTERIOR 26 GA. ($t = 0.0175"$ MIN) G-90 CLAD STEEL SKINS ($F_y = \text{MIN. } 80 \text{ KSI}$) WITH AN EMBOSSED & PAINTED FINISH & ARE FOAM FILLED WITH FOAMED-IN-PLACE NON-CFC 2.21 LB/CU. FT. DENSITY POLYISOCYANURATE.
3. THE WALL PANELS SHALL BE INSTALLED OVER WALL STRUCTURE AS SPECIFIED ON THESE DRAWINGS.
4. THE SEAMS ARE FLASHED & PROPERLY SEALED PER GREEN PRODUCT SPECIFICATIONS AND EACH PANEL END IS SECURED PER THESE DRAWINGS.
5. 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.
6. THIS WALL PANEL SYSTEM HAS BEEN TESTED AS AN IMPACT SYSTEM IN ACCORDANCE WITH PROTOCOLS TAS-201, 202 & 203.
7. ALL SCREWS SHALL BE CORROSION RESISTANT SELF DRILLING SCREWS.
8. THE SUPPORTING STRUCTURE AND THE CHANNEL ATTACHMENT TO THE SUPPORT MUST BE DESIGNED BY OTHERS.
9. THESE WALL PANELS SHALL NOT BE CONSIDERED TO OR BE USED FOR TRANSFER OF DIAPHRAGM ACTION OF WALL TO SUPPORTING STRUCTURE.

PRODUCT APPROVAL IS LIMITED TO THE WALL PANEL & ITS ATTACHMENT TO CHANNELS. THE STRUCTURAL ADEQUACY OF ALL OTHER STRUCTURAL ITEMS (SUPPORTS, COLUMNS, CONNECTIONS OF STRUCTURE, ETC. SHALL BE VERIFIED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT.

ALLOWABLE PRESSURE INWARD OR OUTWARD (PSF)

SPAN (IN.)	SINGLE SPAN
60.5	100.0
66.5	98.1
72.5	90.0
78.5	83.1
84.5	77.2
90.5	72.1
96.5	67.6
102.5	63.7
108.5	60.2
114.5	57.0
120.5	51.5
126.5	45.0

DRAWN BY: B.S.		CHECKED BY: A.W.	
PLOT:		DATE: 5/1/26	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE MSIP PANEL		MANUFACTURER PANELMADE LLC 775 INDUSTRY ROAD LONGWOOD, FLORIDA 32750 407-221-7000	
CONSULTANTS BALA SOCKALINGAM, PH.D., P.E.		1216 N LANSING AVE SUITE C TULSA, OK 74106 PHONE: 918-492-5992	
DRAWING NO. C3030		REV.	
SHEET NO. 1		OF 2	

PLAN SECTION VIEW

 ELEVATION SECTION

PANEL SIDELAP

CHANNEL
16 GA. GALVANIZED

[illegible]