

Evaluation Report Wave Panel - Aluminum Soffit Assembly

Manufacturer:
ATAS International, Inc.
6612 Snowdrift Road
Allentown, PA 18106
(800) 468-1441

for

Florida Product Approval
FL 39332.01 -R1
Florida Building Code 8th Edition (2023)

Method: 1 - D
Category: Panel Walls
Sub - Category: Soffit

Product: Wave Panel
Material: Aluminum

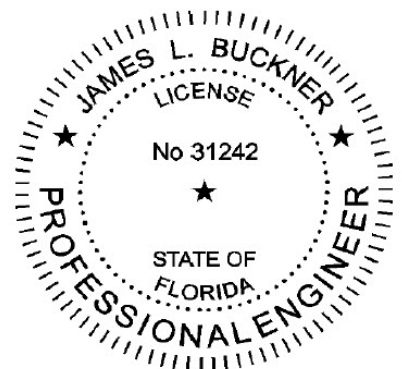
This item has been digitally signed and sealed by James L. Buckner, P.E., on this date below. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Prepared by:

James L. Buckner, P.E., S.E.C.B.
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Report No. 23-592-01_wav-AL-s-ER8
Date: 8/20/2023

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James L. Buckner, P.E.
FL31242

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Manufacturer: ATAS International, Inc
6612 Snowdrift Road
Allentown, PA 18106
(800) 468-1441
www.atas.com

Product Name: Wave Panel - BWW400 Soffit

Product Category: Panel Walls

Product Sub-Category Soffit

Compliance Method: State Product Approval Rule 61G20-3.005 (1) (d)

Product/System Description: Wave Panel is a corrugated metal Soffit Panel.
An Aluminum lapped wall panel fastened into structural Steel Supports.

Product Assembly as Evaluated: Refer to Page 4 of this report for product assembly components/materials & standards:

1. Wall Panel
2. Fasteners

Support: **Type:**
Steel Supports
(Design of steel support and its attachment to support framing is outside the scope of this evaluation.)

Description:

Material: Steel
Thickness: 18 Gauge minimum
Yield Strength: 50 ksi minimum
Girt/Stud Size: 2" min. flange bearing

Performance: Wind Resistance:
• Design Pressure:
(Refer to "Table A" attachment details herein)

Refer to Table A

Performance Standards:

The product described herein has demonstrated compliance with:

- **ASTM E 330-14** – *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

Code Compliance:

The product(s) described herein have demonstrated compliance with the performance standards listed above as referenced in the:

Florida Building Code 8th (2023)
International Building Code 2021

Evaluation Report Scope:

This product evaluation is limited to compliance with the structural requirements of the Florida Building Code, as related to the scope section to Florida Product Approval Rule 61G20-3.001.

Limitations and Conditions of Use:

- Diaphragm and axial load capacity is outside the scope of this evaluation.
- Scope of "Limitations and Conditions of Use" for this evaluation:
This evaluation report for "Optional Statewide Approval" contains technical documentation, specifications and installation method(s) which include "Limitations and Conditions of Use" throughout the report in accordance with Rule 61G20-3.005. Per Rule 61G20-3.004, the Florida Building Commission is the authority to approve products under "Optional Statewide Approval".
- Option for application outside "Limitations and Conditions of Use"
Rule 61G20-3.005(1)(e) allows engineering analysis for "project specific approval by the local authorities having jurisdiction in accordance with the alternate methods and materials authorized in the Code". Any modification of the product as evaluated in this report and approved by the Florida Building Commission is outside the scope of this evaluation and will be the responsibility of others.
- This report is a building code product evaluation per FLPE rule (FAC) 61G15-36 to comply with Florida product approval rule (FAC) 61G20-3. This evaluation report is part of the Florida Building Commission approval for the listed code related criteria. This report by James Buckner, P.E. and CBUCK Engineering is not a design certification of code compliance construction submittal documentation, per FBC section 107, for any individual structure, site specific or permit design.
- All metal components and fasteners shall be corrosion resistant in accordance with applicable sections of FBC.
- Design of support system is outside the scope of this report. Support shall be designed by others and shall comply with the FBC Chapters 22 for steel and Chapter 16 for structural loading.
- Fire Classification is outside the scope of Rule 61G20-3, and is therefore not included in this evaluation.
- This evaluation report does not evaluate the use of this product for use in the High Velocity Hurricane Zone code section. (Dade & Broward Counties)

Quality Assurance: The manufacturer has demonstrated compliance of wall panel products in accordance with the Florida Building Code and Rule 61G20-3.0005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through:
Architectural Testing, Incan Intertek Company, #: QUA 1844)

**Components/Materials
(by Manufacturer):**

Panel:	ATAS Wave Panel
Material:	Aluminum
Thickness:	0.032"
Panel Width:	39 3/4" Coverage
Rib Height:	2"
Nominal	
Tensile Strength	19,000 psi minimum
Corrosion Resistance:	In compliance with FBC Section 1405.2

Fastener:

FASTENER 1:

Type:	Panel to Support
Size:	Hex-Head Sheet Metal Screw with WSW
Corrosion Resistance:	#12 – 14 x 1 1/2"
Standard:	Per FBC Section 1405.17
	Approved per FBC Section 1507

FASTENER 2:

Type:	Panel to Panel, Stitch Lap
Size :	Hex-Head Sheet Metal Screw with WSW
Corrosion Resistance:	1/4" – 14 x 7/8"
	Per FBC Section 1405.17

Installation:

Installation Method:

(Refer to **"TABLE A"** below and drawings at the end of this report.)

- Girt/Support Spacing: **Refer to Table A Below**
- Fastener spacing: **Refer to Table A Below**
(along the girt, in the valley of panel corrugations)
- Side Lap Spacing: **Refer to Table A Below**
(along the length of the side laps and within 3" from each end)
- Rib Interlock: Lapped
- Minimum fastener penetration thru support, 3/4".
(through flange of steel supports)

TABLE "A"						
ALLOWABLE DESIGN PRESSURES (ASD)						
Maximum Support Spacing:	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT
Positive Design Pressure (PSF)	133	115	97	79	61	43
Negative Design Pressure (PSF)	-189	-160	-132	-103	-75	-47
Span Condition:	One or More Spans					
Fastener spacing to support:	See installation on page 7					
Sidelap screw Spacing:	24" O.C.					
Notes:						
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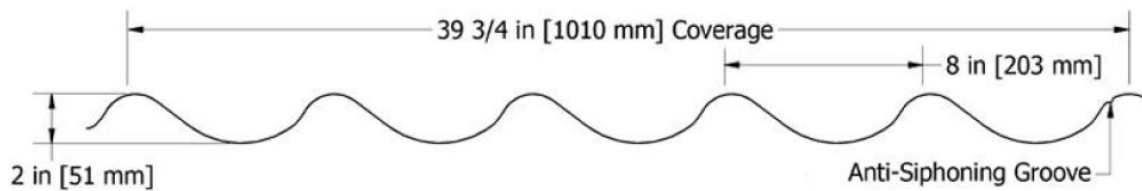
Orientation: Vertical or Horizontal

Install the Wave panel assembly in compliance with the installation method listed in this report and applicable code sections of FBC 8th Edition (2023). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation instructions as a supplemental guide for attachment.

Referenced Data:

1. ASTM E330-14
By Farabaugh Engineering and Testing, Inc. (FBC Organization #TST ID:1654)
 - Report # T120-21, Report Date: 2/1/2021
2. Engineering Analysis
By CBUCK Engineering
3. Equivalency of Test Standard Certification
By James L. Buckner, P.E. @ CBUCK Engineering
4. Quality Assurance
Architectural Testing, Incan Intertek Company, #: QUA 1844)
5. Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering

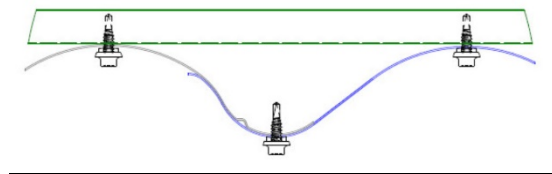
Installation Method ATAS International, Inc. Wave Panel - Aluminum Soffit Panel attached to Steel Supports



Supports Framing - Steel 18 ga min. - Design of Support Not Included in this evaluation



Lap Screws at 2'-0" O.C. Along Lap Joints and at Supports



FASTENING PATTERN AT SUPPORTS

(ALL FASTENERS: 1/4- 14 X 7/8" LONG, S.S HEX HEAD FASTENERS W/SEALING WASHERS)

WAVE PANEL

REV	DATE	DESCRIPTION OF REVISION	BY	APP

ATAS INTERNATIONAL, INC. Allentown, PA 610-399-4845 Harris, AZ 480-558-7222	
Wave Panel Profile Detail	
DATE	12/29/2023
BY	KXX
CHECKED	
APP	
SCALE	1:1