



Project Number: U5263.014.231
January 3, 2024

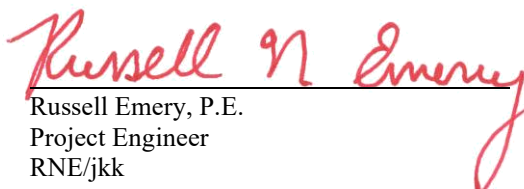
Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

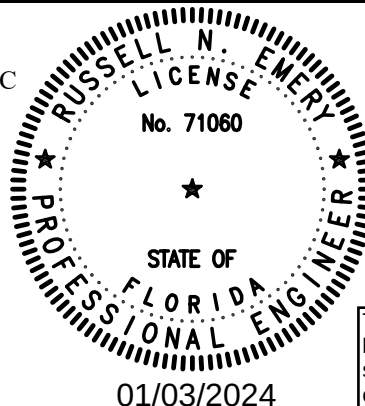
REFERENCE: **Florida Product Approval of ATAS Soffit Panel: Opaline [FL 16083]**
Product Approval Evaluation

Manufacturer: ATAS International, Inc.
Manufacturer Address: 6612 Snowdrift Rd., Allentown, PA 18106
Model Name: ATAS Soffit Panel: Opaline [FL 16083]
Maximum Design Load: See Calculations Attached per Configuration

Testing Summary					
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	TEST SEALED BY
ASTM E330-02	Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference	Architectural Testing, Inc.	10/08/2012	C2520.01-109-40	Michael D. Stremmel, P.E.
For maximum sizes, spans, loads and anchor types, refer to the installation drawings.					
Referenced test reports were reviewed against the most recent version and have been found to be compliant and having no impact on the performance report.					
To the best of my knowledge, the above product conforms to the requirements of the 2023 Florida Building Code when installed in accordance with the instructions and limitations outlined in the attached installation drawings.					

Sincerely,
VECTOR STRUCTURAL ENGINEERING, LLC


Russell Emery, P.E.
Project Engineer
RNE/jkk



Russell N Emery
2024.01.04
10:10:26-07'00'

Russell N. Emery
No. 71060

This item has been digitally signed and sealed by Russell N. Emery on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



JOB NO.: U5263.014.231

PROJECT: ATAS FBC PRODUCT APPROVAL

PRODUCT: OPALINE

Design Assumptions

OPW045, OPW065, OPF040, OPF060, OPM045 panels

0.030" Aluminum

Effective wind area < 10 sq. ft.

3/4" thick wood strip substrate (0.48 minimum SG)

(1) #10 x 1" screw in soffit flange into wood (3/4" minimum penetration)

Panels tested in accordance with ASTM E330-02

Panels evaluated in accordance with AAMA 1402-09

No stress increase for wind applied

OPW and OPM panel material conforms to 3003-H14 aluminum sheet ($F_y = 17$ ksi, $F_u = 20$ ksi)

Factor of Safety on panel = 1.5 (AAMA 1402-09 Appendix)

Test Results

OPW065										
Panel	Nominal Thick. (in.)	Width (ft)	Test	Report No.	Decking	Positive Pressure (psf)	Negative Pressure (psf)	Screw	Span (ft)	Failure Mode
OPW065	0.032	0.541667	E330	C2520.01-109-40	3/4" wood	160	175	#10	1	test frame failure
						160	160			no failure
						160	270			disengagement for negative pressure only
Average Pressure						160	201.7			

Allowable Panel Pressure							
Panel	Avg. Positive Pressure (psf)	Avg. Negative Pressure (psf)	Span (ft)	Screw	F.S.	Allow Positive Pressure (psf)	Allow Negative Pressure (psf)
OPW065*	160	202	1	#10	1.5	107	134

Minimum allowable fastener pull-out/pull-over values

OPW065: 73 lbs

*The OPW065 allowable pressures also apply to:

OPW045

OPF040

OPF060

OPM045

The seam construction and panel depth of the five additional panels are identical to the tested 0.032" OPW065 panel. The additional panels are narrower than the OPW065, so the flat element critical buckling stresses will be greater than that of the OPW065 panel. Likewise, the stresses on the seam and loads on the screw will be less than the OPW065 panel. For these reasons, it follows that the ultimate load of the additional panels will be at least as great as the ultimate load of the OPW065 panel.

Test Report References

Panel	Standard	Report Number	Laboratory	Location
OPW065	ASTM E330-02	C2520.01-109-40	Architectural Testing, Inc.	York, PA