



NEMO EVALUATION REPORT (NER)



SAGIPER North America

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SUBJECT: SAGIWALL

SCOPE: This NEMO Evaluation Report (henceforth 'NER') is issued under F.A.C. [Rule 61G20-3](#) and the applicable rules and regulations governing Product Approval of construction materials in the State of Florida and ISO/IEC 17065 via [NEMO|cert](#). NEMO Evaluations has evaluated the product described herein for compliance with the Code [sections noted herein](#).

CODE: 2023 Florida Building Code, 8th Edition
2023 Florida Building Code, Residential, 8th Edition

JURISDICTION: Non-HVHZ and HVHZ

NEMO CATEGORY: Cladding

FBC CATEGORY: Panel Walls

FBC SUB-CATEGORY: Siding

CSI DIVISION: 07 00 00 Thermal and Moisture Protection
07 46 33 Plastic Siding

METHOD: Method 2, Option A – Non-Codified Material, Evaluation by Evaluation Entity

COMPLIANCE STATEMENT: SAGIWALL, as produced by SAGIPER North America, has demonstrated compliance with the intent of the Code sections noted herein through testing in accordance with the referenced Standards, rational analysis and an ongoing quality assurance program. Compliance is subject to the Installation Requirements and [Limitations of Use](#) set forth herein.

QUALITY ASSURANCE: Evidence of current quality assurance shall be listing and labeling in accordance with the requirements of [NEMO|cert](#).

CONTINUED COMPLIANCE: This NER is valid until such time the named product(s) change, the referenced Quality Assurance changes, or the evaluated Code provisions change. NEMO Evaluations requires, at minimum, a complete review of this NER with each 3-year Code Cycle.

BUILDING PERMIT REQUIREMENTS: As required by the Building Official or Authority Having Jurisdiction to evaluate the installation of this product.

ADVERTISEMENT: "NEMO Evaluated" may be displayed in advertising literature. If any portion of the NER is displayed, it shall be displayed in its entirety.

CERTIFICATION OF INDEPENDENCE:
✓ NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
✓ NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
✓ This is a building code evaluation. NEMO ETC, LLC is not, in any way, the Designer of Record for any project on which this NER, or previous versions thereof, is/was used for permitting or design guidance.



1. CODES, PROPERTIES AND STANDARDS:

Code	Section	Property	Standard
2023 Florida Building Code, 8 th Edition,	1405.1	Wind resistance – Uniform	TAS 202
2023 Florida Building Code, Residential, 8 th Edition	1405.1	Wind resistance – Cyclic	TAS 203
	1404.9, 1405.14, R703.11	Material Standard	ASTM D3679 (partial)
	2606.4	Ignition Temperature	ASTM D1929
	2606.4	Rate of Burn	ASTM D635
	2606.4	FSI / SDI	ASTM E84
	2615.2	Accelerated Weathering	ASTM G155

2. PRODUCTS:

TABLE 1A: EVALUATED CLADDING				
TRADE NAME	NOMINAL DIMENSIONS	DESCRIPTION	MATERIAL STANDARD	LOCATION
SAGIWALL	7-inch wide x 12 or 19-ft long	The wall cladding profiles are made of heavy gauge, extruded polyvinyl chloride (PVC) and coated with a PVC film, designed for exterior applications. The profiles, available in Channeled Profile and V-groove Profile, are tongue-and-groove and fastened to the building structure through pre-punched slots located along the top edge of the profiles, which are concealed after the upper profile is installed. All accessories are made of aluminum covered with the PVC film.	ASTM D3679 (partial)	Vagos, Portugal

TABLE 1B: ADDITIONAL PROPERTIES ¹		
PROPERTY	STANDARD	RESULTS
Self-ignition temperature	ASTM D1929	850°F
Rate of burn	ASTM D635	Class CC2
Flame spread index (FSI)	ASTM E84	25
Smoke developed index (SDI)		315



¹ Numerical ratings as determined by these standards are not intended to reflect hazards presented by these materials under actual fire conditions.



3. INSTALLATION:

- 3.1 SAGIWALL shall be installed in accordance with SAGIPER North America published installation instructions, subject to the [Limitations of Use](#) noted herein.
- 3.2 Refer to FBC 1403.2 or R703.2 for requirements concerning a water-resistive barrier.
- 3.3 Minimum attachment requirements set forth in [Section 5](#) shall not be exceeded.

4. LIMITATIONS OF USE:

- 4.1 This is a building code evaluation. NEMO ETC, LLC is not, in any way, the Designer of Record for any project on which this NER, or previous versions thereof, is/was used for permitting or design guidance. NERs are not to be construed as representing any attributes not specifically listed, nor are NERs to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by NEMO ETC, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.
- 4.2 This NER pertains to non-structural wall cladding.
 - 4.2.1 Wall-framing and sheathing shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
 - 4.2.2 Limited to installation over solidly sheathed walls. The cladding panels are not intended for racking or shear resistance.
- 4.3 This NER does not address fire-resistance-rating performance of the completed wall assemblies.
- 4.4 Limitations relating to design wind pressure resistance are outlined in [Section 5](#).
- 4.5 For existing substrates, the Authority Having Jurisdiction may require fasteners be tested in the existing substrate for withdrawal resistance. In this case, a qualified design professional shall review the data for comparison to the minimum requirements for the system.
- 4.6 All components in the wall assembly shall have quality assurance surveillance in accordance with F.A.C. [Rule 61G20-3](#). For components listed herein that are produced by a manufacturer other than the report holder on Page 1 of this NER, refer to the Product Approval of the component manufacturer.

5. WIND-RESISTANCE:

- 5.1 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to **FBC 1609** for determination of project-specific design wind pressures. The MDP for the selected installation shall meet or exceed the design wind pressure requirement for the project for each pressure zone.
- 5.2 Tabulated limitations are based on wall cladding design wind pressure requirements in accordance with **ASCE 7-22**, multiplied by 0.6 (P_{asd}) for **allowable loads**.
- 5.3 Tables are limited to siding installations over solid-sheathing, and the following design parameters. Analysis for buildings falling outside these constraints shall be on a project-by-project basis by a Florida Registered P.E.

TABLE 2: PARAMETERS FOR TABLE 3 USAGE			
PARAMETER	REFERENCE	SYMBOL	VALUE
Mean roof height (ft)*	N/A	<i>h</i>	≤ 30 ft
Design wind speed (mph)*	FBC 1609.3	<i>Vult</i>	Various
Exposure Category*	FBC 1609.4.3	<i>N/A</i>	B, C or D
Topographical factor	ASCE 7	<i>Kzt</i>	1.0
Wind directionality factor	ASCE 7	<i>Kd</i>	0.85
Ground elevation factor	ASCE 7	<i>Ke</i>	1.0

*Selection of the appropriate height, design wind speed and exposure category is the responsibility of the user, subject to acceptance by the Authority Having Jurisdiction.

- 5.4 Reference to "OK" indicates the system performance exceeds project requirements for that particular zone. Reference to "NO" indicates additional testing is required.



5.5 The dimension of Zones 4 and 5 (interior and end zones) shall be defined as 10% of the least horizontal plan-view dimension or 40% of the mean roof height, whichever is smaller, but not less than either 4% of the least horizontal plan-view dimension or 3 feet, as outlined **ASCE 7-22**.

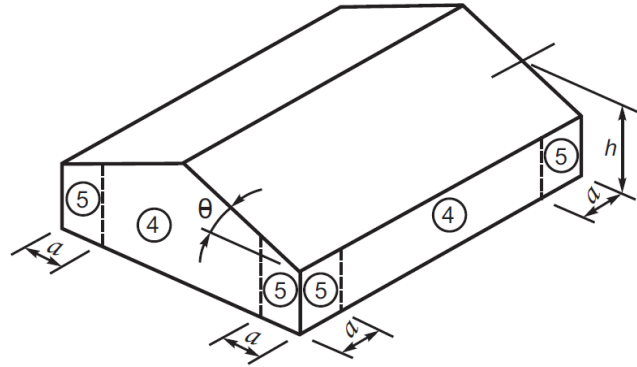


TABLE 3: WIND ZONE COMPLIANCE SUMMARY, HEIGHT (H) ≤ 30 FT																
SAGIWALL																
PROFILE	FASTENERS	MAX. FASTENER SPACING	FASTENER ENGAGE	MDP (PSF)	ULTIMATE DESIGN WIND SPEED - V _{ULT} (MPH) – FBC FIGURES 1609.3(1) THROUGH 1609.3(4)										EXPOSURE	ZONE
					110	120	130	140	150	160	170	180	190	200		
Channeled or V-Groove	#8 corrosion-resistant, pan-head screws	16" o.c.	Studs	86	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	D	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
					OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C	
					OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	

- END OF EVALUATION -