



NEMO EVALUATION REPORT (NER)



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SUBJECT: SAGIREV

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. 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

NEMO CATEGORY: Siding

FBC CATEGORY: Panel Walls

FBC SUB-CATEGORY: Soffit

CSI DIVISION: 07 00 00 Thermal and Moisture Protection
07 42 93 Soffit Panels

METHOD: Method 1, Option C – Codified Material, Evaluation by Evaluation Entity

COMPLIANCE STATEMENT: SAGIREV, as produced by SAGIPER North America, has demonstrated compliance with 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,	1609.1, R301.9, R704.1	Wind Resistance	ASTM E330
2023 Florida Building Code, Residential, 8 th Edition	1709.10	Product Approval / Labeling	N/A

2. PRODUCTS:

TABLE 1: EVALUATED SOFFIT COMPONENTS			
TRADE NAME	NOMINAL DIMENSIONS	DESCRIPTION	LOCATION
SAGIREV Soffit Boards	~6-inch wide x 12 or 19-ft long	Extruded polyvinyl chloride (PVC), coated with a PVC film, soffit boards. The profile is tongue-and-groove and fastened to the building structure through pre-punched nailing slots located along one edge, which are concealed when the subsequent panel is installed.	Vagos, Portugal
SAGIREV Vent Strip (modified)	2.95-inch wide (coverage), 3.1-inch wide (overall) x 12-ft long	1-piece accessory, extruded polyvinyl chloride (PVC) coated with a PVC film and 1¾-inch wide perforated width. <i>Part shall be field-modified prior to installation, per Section 3.1.1 herein.</i> Published Net Free Ventilation Area ¹ : 21 in ² /lineal-ft.	
SAGIREV J-Mold Trim	0.65-inch x 0.5-inch deep x 1.05-inch flange x 12 or 19-ft long	1-piece accessory, extruded polyvinyl chloride (PVC) coated with a PVC film	

¹ Net Free Ventilation Area reported herein is as published by the manufacturer at the time of evaluation. The report user should verify current published data at the time of design and/or permitting to the satisfaction of the Authority Having Jurisdiction.



3. INSTALLATION:

- 3.1 **SAGIREV** shall be installed in accordance with **SAGIPER North America** published installation instructions, subject to the [Limitations of Use](#) noted herein.
- 3.1.1 **SAGIREV Vent Strip (modified):**
- The SAGIREV Vent Strip *shall be field-modified* such that the concealed fastening flange at floating side is reduced in width from 0.9-inch to 0.2-inch. This to facilitate engagement with the fastened flange of the SAGIREV Soffit Board. The opposite flange of the SAGIREV Vent Strip shall be fastened in a similar manner to the SAGIREV Soffit Board.
 - The fastening flange of the SAGIREV Soffit Board, which is to receive the SAGIREV Vent Strip, is fastened as normal, but the fastener head is left slightly elevated so as to allow the 0.2-inch wide modified flange of the SAGIREV Vent Strip to engage behind the fastened flange of the SAGIREV Soffit Board.
 - This is noted in SAGIPER North Americas published installation instructions as “High Wind Velocity Vent Installation”.
- 3.2 **Fasteners:**
- 3.2.1 Fasteners for SAGIREV J-Mold Trim, SAGIREV Soffit Board and SAGIREV Vent Strip (modified) shall be corrosion-resistant, min. #8 x 1¼-inch long screws with a nominal 7/16-inch diameter modified truss head.
- 3.2.2 Fasteners for aluminum fascia trim shall be corrosion-resistant, min. 15 ga. x 1½-inch long ring shank nails.
- 3.2.3 Fasteners shall engage stud framing members or min. 2x2-inch wood batten strip by others.
- 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 soffit cladding. Framing shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 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 The soffit boards are not intended for racking or shear resistance.
- 4.6 For existing substrates, the Authority Having Jurisdiction may require fasteners be tested in the existing substrate for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system.
- 4.7 Installations shall meet the minimum ventilation requirements of FBC 1203.2.
- 4.8 All components in the soffit 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 Allowable design pressures for the soffits in various attachment configurations are noted in [Table 2](#) below. Performance limitations apply to both solid and vented versions.
- 5.2 “MDP” = Maximum Allowable Design Pressure is the result of testing for wind load resistance based on allowable wind loads; the margin of safety set forth in **FBC R301.9** has already been applied. Refer to **FBC 1609** or **FBC Residential Chapter 3** 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.



TABLE 2: ALLOWABLE DESIGN PRESSURES SAGIREV								
PROFILE	MAX. SPAN (INCH)	J-MOLD TRIM FASTENING	SOFFIT BOARD AND VENT STRIP FASTENING			ALUMINUM FASCIA TRIM FASTENING (EAVE SIDE)	MDP (PSF)	
			WALL SIDE	CENTER	EAVE SIDE		NEGATIVE (AWAY)	POSITIVE (TOWARDS)
Nominal 6-inch width	16	12-inch o.c.	6-inch o.c.	N/A	6-inch o.c.	(optional) 12-inch o.c.	-120.0	+100.0
	24	12-inch o.c.	6-inch o.c.	6-inch o.c.	6-inch o.c.	12-inch o.c.	-67.5	+80.0

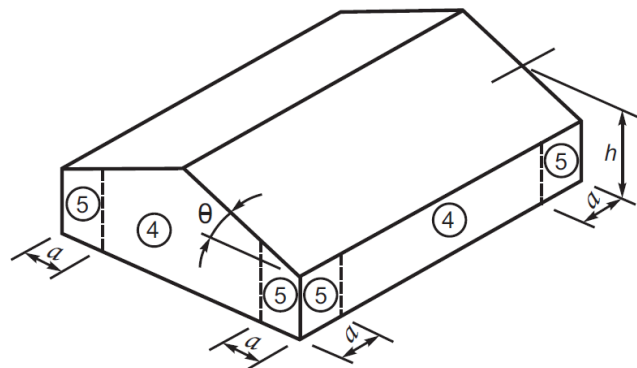
5.3 Windspeed Limitations:

- 5.3.1 Limitations relating to design wind pressure resistance are provided in [Table 5](#) and [Table 6](#). Limitations relate to critical ‘negative’ (away from the soffit) wind load performance. Refer to [Table 2](#) for all positive and negative allowable design pressures.
- 5.3.2 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.
- 5.3.3 Use is limited to soffit installations with 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 3: PARAMETERS FOR TABLES 5 AND 6			
PARAMETER	REFERENCE	SYMBOL	VALUE
Mean roof height (ft)*	N/A	h	≤ 30 ft
Design wind speed (mph)*	FBC 1609.3	V_{ult}	Various
Exposure Category*	FBC 1609.4.3	N/A	B, C or D
Topographical factor	ASCE 7	K_{zt}	1.0
Wind directionality factor	ASCE 7	K_d	0.85
Ground elevation factor	ASCE 7	K_e	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.

- 5.3.4 Reference to “OK” indicates the system performance exceeds project requirements for that particular zone. Reference to “NO” indicates additional testing is required.
- 5.3.5 The dimension of Zones 4 and 5 (interior and end zones) shall is 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.





5.3.6 Installation drawings depict as-tested conditions, using the following legend for component references.

REFERENCE NO.	DESCRIPTION	MATERIAL
1	SAGIREV Soffit Board	PVC
2	SAGIREV Vent Strip (modified), See 3.1.1	PVC
3	SAGIREV J-Mold Trim	PVC
4	Aluminum fascia trim	Aluminum
5	Min. 2x2-inch batten strip or stud framing members ($SG \geq 0.42$), by others	Wood
6	Corrosion-resistant, min. #8 x 1¼-inch long screws with a nominal 7/16-inch diameter modified truss head	Steel
7	Corrosion-resistant, min. 15 ga. x 1½-inch long ring shank nails	Steel

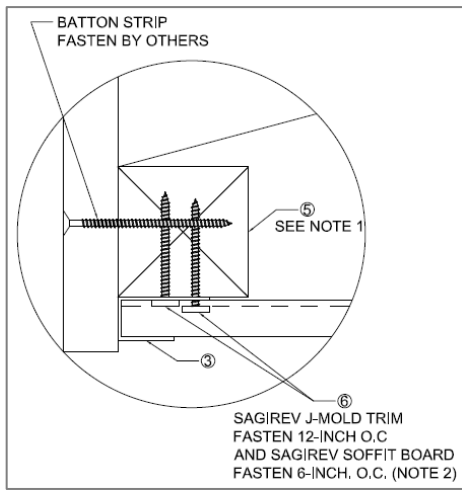
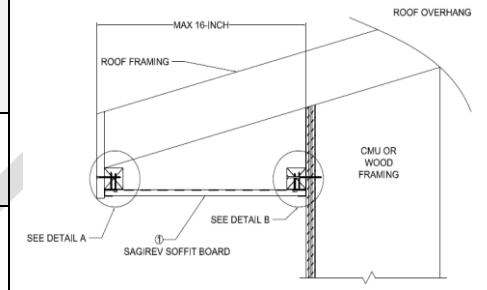
5.3.7 Note 1: Wood framing, wood fascia, battens and/or nailing strips and connections thereof shall be by others to the satisfaction of the Authority Having Jurisdiction.

Note 2: Fastener penetration into supports shall be minimum 1 1/8-inch.

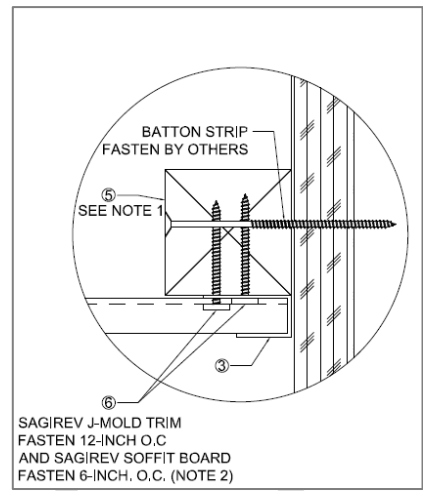


**TABLE 5: WIND ZONE COMPLIANCE SUMMARY, HEIGHT (H) ≤ 30 FT
SAGIREV, NOMINAL 6-INCH WIDE BOARDS AT MAX. 16-INCH SPAN**

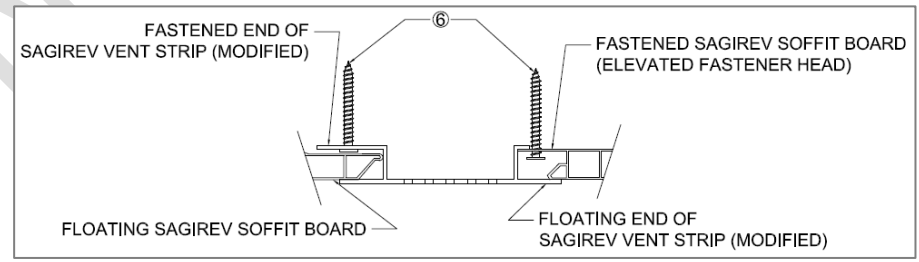
J-MOLD TRIM	FASTENING (INCH O.C.)			ALUM. FASCIA	MDP (PSF)	ULTIMATE DESIGN WIND SPEED - V _{ULT} (MPH) – FBC FIGURES 1609.3(1) THROUGH 1609.3(4)											EXPOSURE	ZONE		
	SAGIREV SOFFIT BOARD AND SAGIREV VENT STRIP (MODIFIED)	WALL	CENTER			EAVE	110	120	130	140	150	160	170	180	190	200				
							OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			OK	OK
12	6	N/A	6	(optional) 12	-120	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4	
						OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C		
						OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	D		
							OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
							OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	C		
							OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	D		



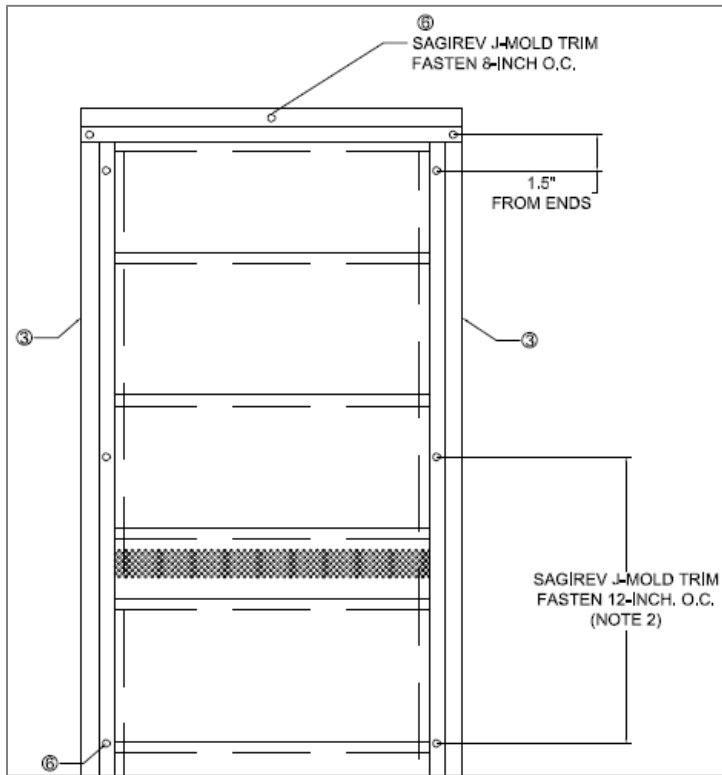
DETAIL A



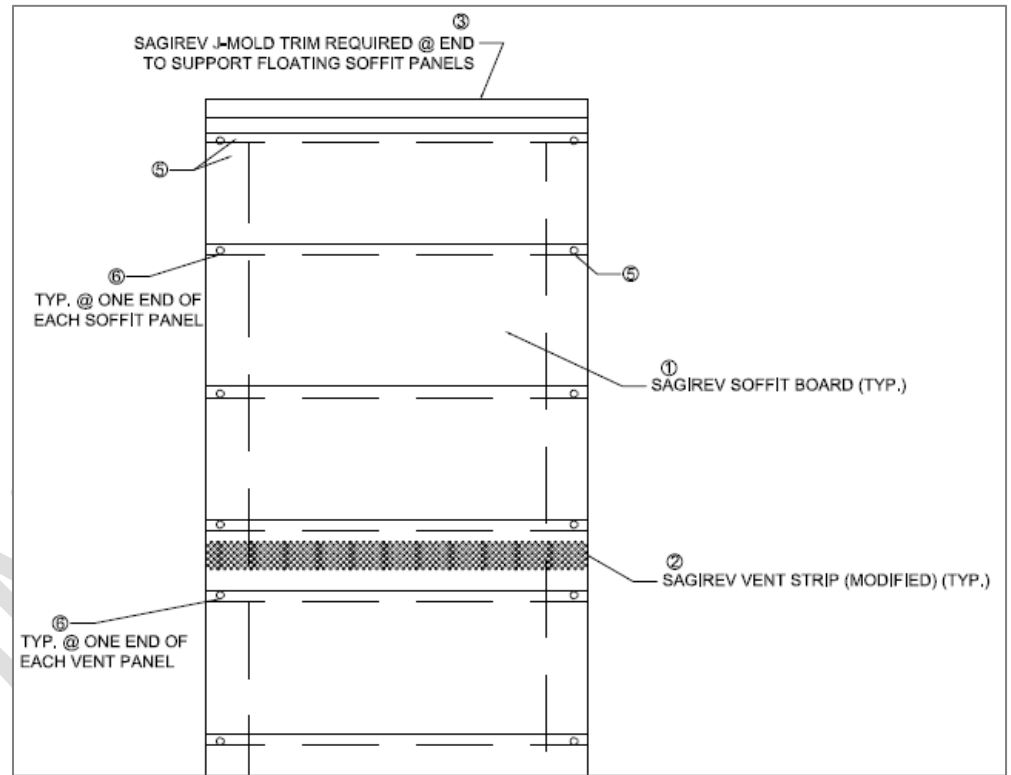
DETAIL B



SAGIREV Vent Strip (modified)
"High Wind Velocity Vent Installation"



SAGIRV J-MOLD TRIM INSTALL
MAX. 16-INCH SPAN

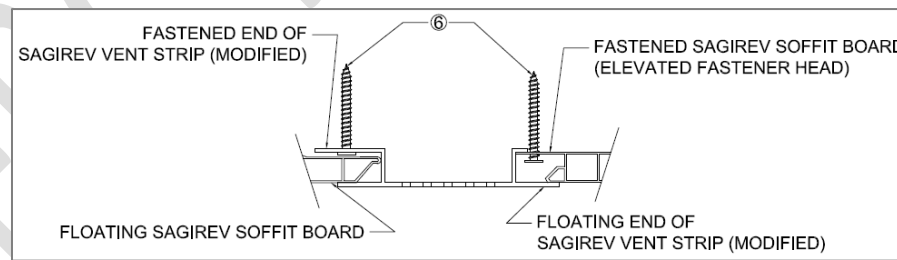
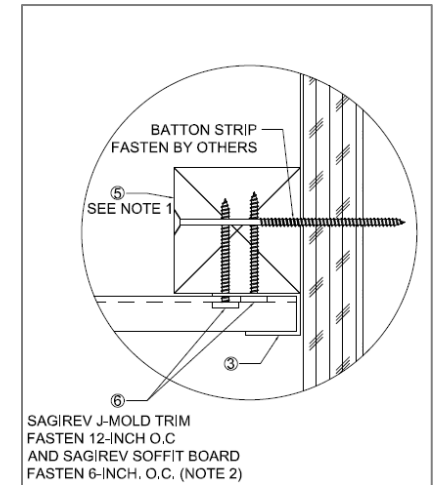
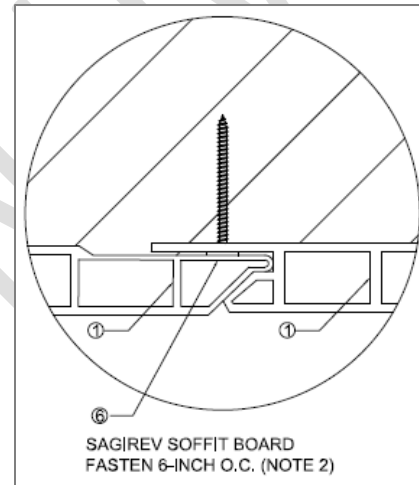
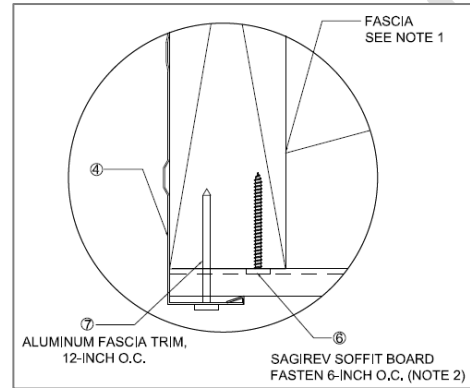
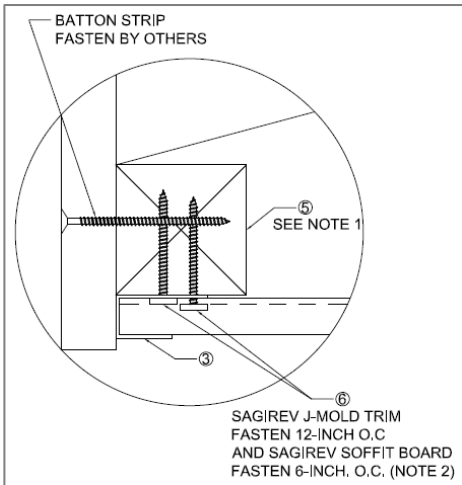
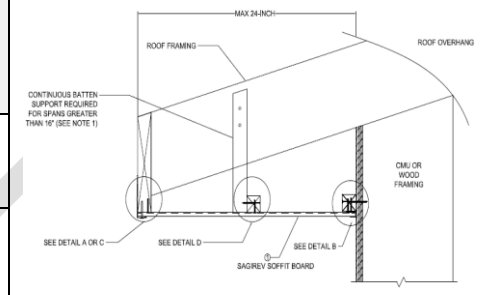


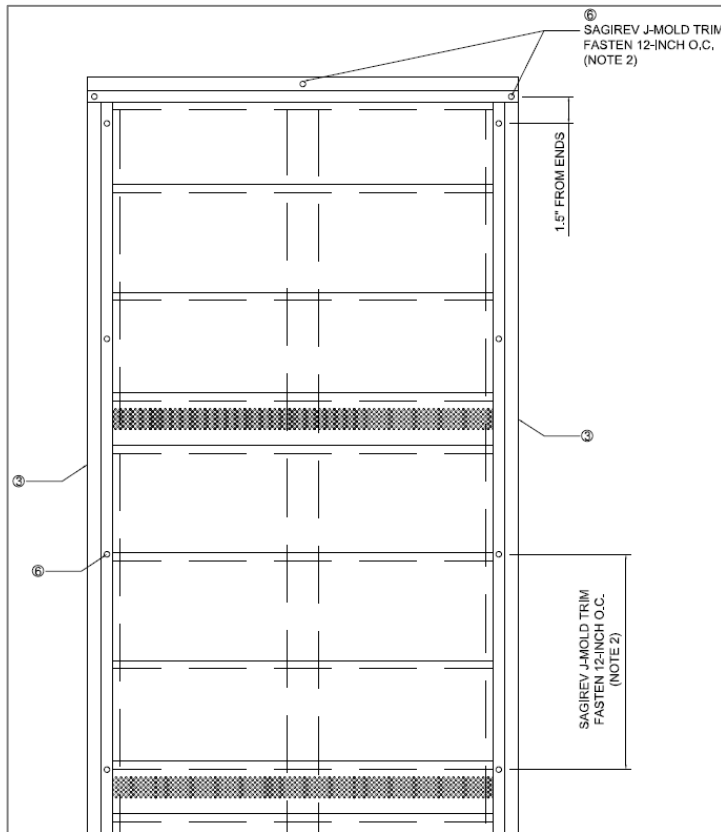
SAGIREV SOFFIT BOARD AND SAGIREV VENT STRIP (modified) INSTALL
MAX. 16-INCH SPAN



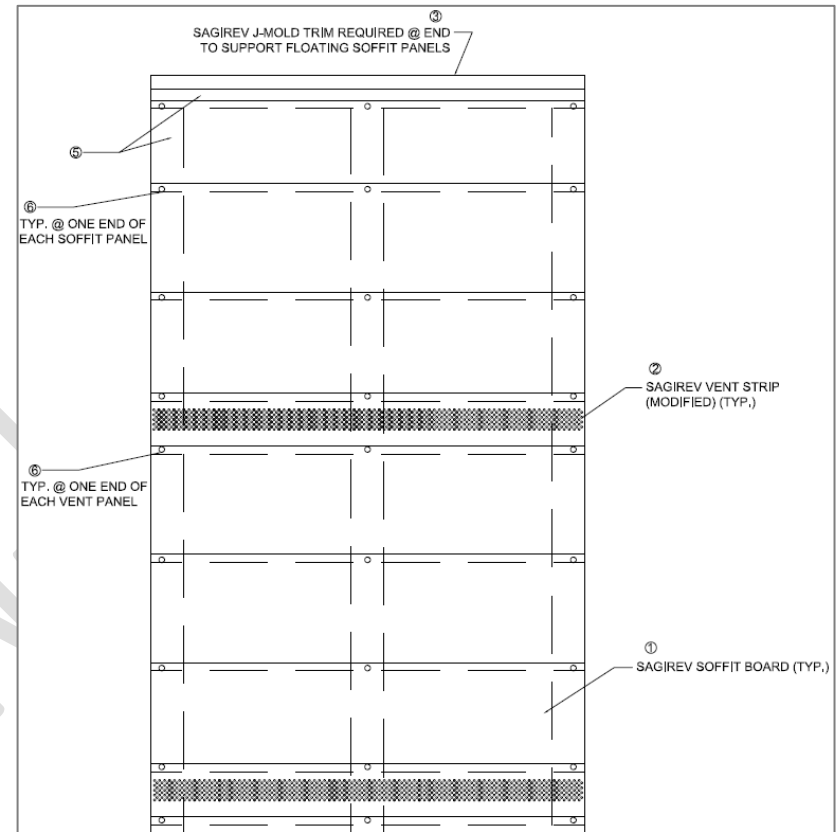
TABLE 6: WIND ZONE COMPLIANCE SUMMARY, HEIGHT (H) ≤ 30 FT
SAGIREV, NOMINAL 6-INCH WIDE BOARDS AT MAX. 24-INCH SPAN

J-MOLD TRIM	FASTENING (INCH O.C.)			ALUM. FASCIA	MDP (PSF)	ULTIMATE DESIGN WIND SPEED - V _{ULT} (MPH) – FBC FIGURES 1609.3(1) THROUGH 1609.3(4)								EXPOSURE	ZONE				
	SAGIREV SOFFIT BOARD AND SAGIREV VENT STRIP (MODIFIED)					110	120	130	140	150	160	170	180			190	200		
	WALL	CENTER	EAVE			OK	OK	OK	OK	OK	OK	OK	OK			OK	OK		
12	6	6	6	12	-67.5	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	Interior Zone 4		
						OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK		C	
						OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	NO		D	
						OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	B	End Zone 5
						OK	OK	OK	OK	OK	OK	OK	OK	OK	NO	NO	C		
						OK	OK	OK	OK	OK	OK	OK	NO	NO	NO	NO	D		





SAGIRV J-MOLD TRIM INSTALL
MAX. 24-INCH SPAN



SAGIREV SOFFIT BOARD AND SAGIREV VENT STRIP (modified) INSTALL
MAX. 24-INCH SPAN

- END OF EVALUATION -