

Code Compliance Research Report CCRR-0201

TABLE 1 - EVERLAST® COMPOSITE SIDING ALLOWABLE DESIGN PRESSURES⁽¹⁾

Product	Profile		Fastener		Substrate	Allowable Design Pressure ⁽²⁾	MPH**
	Exposure Width	Nominal Thickness	Description	Spacing			
Horizontal Lap Siding	6.875"	0.225"	#10 by 2-1/2" stainless steel flat head screws	16" O/C	Every screw penetrating into stud (Minimum $G \geq 0.42$)	68 psf	≥ 180
					Every screw penetrating into minimum 7/16" wood sheathing & hitting studs when possible (Minimum $G \geq 0.50$)	67 psf	≥ 180
			2in-long roofing nail, 1/8" smooth shank diameter, 7/16" diameter head.	16" O/C	Every screw penetrating into stud (Minimum $G \geq 0.42$)	51 psf	≥ 180
					Every nail penetrating into minimum 7/16" Wood sheathing & hitting studs when possible (Minimum $G \geq 0.50$)	27 psf	100
					Every nail penetrating into minimum 7/16" OSB sheathing & hitting studs when possible (Minimum $G \geq 0.50$)	39 psf	150
	4.5"	0.215"	#9 by 2-1/2" stainless steel flat head screws	16" O/C	Every screw penetrating into stud (Minimum $G \geq 0.42$)	98 psf	≥ 180
					Every screw penetrating into 7/16" wood sheathing (Minimum $G \geq 0.50$)	98 psf	≥ 180
			2in-long roofing nail, 1/8" smooth shank diameter, 7/16" diameter head.	16" O/C	Every nail penetrating into stud (Minimum $G \geq 0.42$)	77 psf	≥ 180
					Every screw penetrating into 7/16" wood sheathing (Minimum $G \geq 0.50$)	42 psf	160
					Every screw penetrating into 7/16" wood sheathing (Minimum $G \geq 0.42$)	77 psf	≥ 180
Vertical Board & Batten Siding	11"	0.325"	#8 by 1-5/8" stainless steel flat head screws	7.5" O/C	Every screw penetrating into 1/2" wood sheathing (Minimum $G \geq 0.50$)	80 psf	≥ 180
			#8 by 1-5/8" stainless steel flat head screws	12" O/C	Every screw penetrating into 7/16" wood sheathing (Minimum $G \geq 0.50$)	51 psf	≥ 180
			11-Gauge by 2" ring-shank nail	12" O/C	Every screw penetrating into 7/16" wood sheathing (Minimum $G \geq 0.50$)	36 psf	140
			#8 by 1" stainless steel flat-head screw	12" O/C	1" x 3" Furring Strip (Minimum $G \geq 0.42$)	69 psf	≥ 180
			#8 by 1" stainless steel flat-head screw	16" O/C		59 psf	≥ 180
			11-Gauge by 1" ring-shank nail	12" O/C		32 psf	125
			11-Gauge by 1" ring-shank nail	16" O/C		27 psf	100

**** MPH is an estimated calculation based off "Basic Wind Pressure" utilizing the "Allowable Design Pressures"^{2h} ASTM test data.**

Note: The above posted MPH is a reference only, please refer to the International Residential Code for more details and wind reference maps.

⁽¹⁾ A pressure equalization factor (PEF) was not applied to reduce the required test pressure.

⁽²⁾ Allowable loads are applicable to wind design pressure derived from allowable stress design (also known as nominal) wind speed (V_{asd}) per IBC Section 1609.3.1.

⁽³⁾ Wood studs and Furring Strips shall have a specific gravity of $G = 0.42$ or greater.

⁽⁴⁾ Wood Sheathing shall have specific gravity of $G = 0.050$ or greater