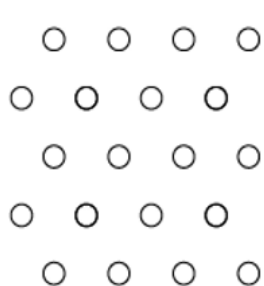


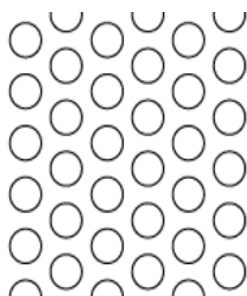
EcoScreen: Style-Rib Wall Panel Allowable Wind Loads (psf)

0.040" Aluminum - 10% Perforated						
Span Type	Span					
	1'-4"	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"
Single	250 *	250 *	144 b	81 b	52 b	36 b
Double	250 *	172 f	114 f	81 b	52 b	36 b
Triple	250 *	195 f	130 f	97 f	65 b	45 b

0.040" Aluminum - 40% Perforated						
Span Type	Span					
	1'-4"	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"
Single	243 b	108 b	48 b	27 b	17 b	12 b
Double	167 f	108 b	48 b	27 b	17 b	12 b
Triple	189 f	126 f	60 b	33 b	21 b	15 b



10% Perforated
1/8" diam. spaced 3/8" o.c.



40% Perforated
3/8" diam. spaced 9/16" o.c.



NOTES:

- Allowable loads are based on uniform span lengths.
- Panel material is ASTM B209 3003-H14 aluminum alloy.
- Failure modes represented are:
 - f = fastener pullout/pullover
 - b = bending
 - d = deflection
 - * = allowable load limited to 250 psf (contact Metl-Span if higher loads are required)
- Panel properties are calculated per the Aluminum Association *Specification for Aluminum Structures* - 2015 Edition and the provisions for Allowable Strength Design (ASD). For $\geq 20\%$ perforated, equivalent properties of the perforated material are used in place of the properties of the solid material.
- Fastening limitations are based on nominal 1/4" fasteners with 15mm-diameter combination washers; minimum five (5) fasteners per panel width; and minimum 16 Gauge (50 ksi) steel structural girts. Allowable pullover reactions are 258 lb for $< 20\%$ perforated and 167 lb for 40% perforated, based on fabricator test data with a safety factor of 2.5; allowable pullout reactions are based on fastener manufacturer test data with a safety factor of 2.5.
- Deflection is based on an effective moment of inertia per *Specification for Aluminum Structures* applied to the weaker orientation; a deflection ratio of $L/120$; and the 10-year mean return interval wind speed per IBC 2018 Table 1604.3.
- Panel coverage = 36" and weight = 0.40-0.60 psf.
- Contact Metl-Span for additional perforation patterns or conditions not conforming to these notes.