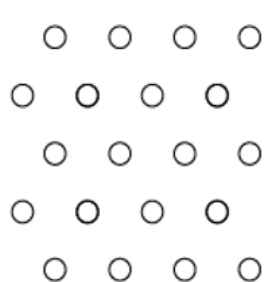


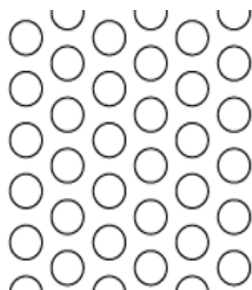
EcoScreen: Econolap 3/4" Wall Panel Allowable Wind Loads (psf)

0.040" Aluminum - 10% Perforated						
Span Type	Span					
	1'-4"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
Single	250 *	164 _b	105 _b	73 _b	53 _b	41 _b
Double	160 _f	107 _f	85 _f	71 _f	53 _b	41 _b
Triple	182 _f	121 _f	97 _f	81 _f	67 _b	51 _b

0.040" Aluminum - 40% Perforated						
Span Type	Span					
	1'-4"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
Single	123 _b	54 _b	35 _b	24 _b	17 _b	13 _b
Double	104 _f	54 _b	35 _b	24 _b	17 _b	13 _b
Triple	118 _f	68 _b	43 _b	30 _b	22 _b	17 _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 three (3) fasteners per panel width (plus stitch fastener); 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 = 34-2/3" and weight = 0.41-0.62 psf.
- Contact Metl-Span for additional perforation patterns or conditions not conforming to these notes.