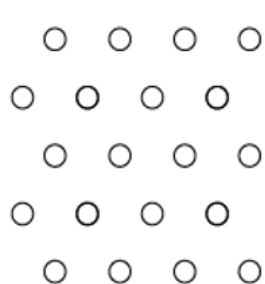


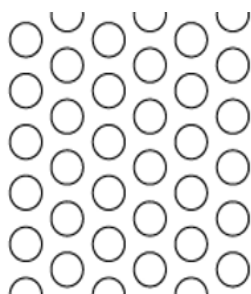
EcoScreen: Econolap 3/4" Wall Panel Allowable Wind Loads (psf)

20 Gauge Stainless Steel - 10% Perforated						
Span Type	Span					
	1'-4"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
Single	250 *	250 *	212 b	147 b	108 b	83 b
Double	211 f	141 f	112 f	94 f	80 f	70 f
Triple	240 f	160 f	128 f	106 f	91 f	80 f

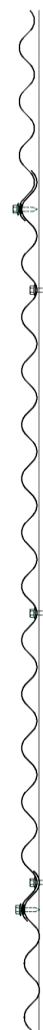
20 Gauge Stainless Steel - 40% Perforated						
Span Type	Span					
	1'-4"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
Single	249 b	110 b	70 b	49 b	36 b	27 b
Double	211 f	110 b	70 b	49 b	36 b	27 b
Triple	240 f	138 b	88 b	61 b	45 b	34 b



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 A666 Type 304 annealed stainless steel.
- 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 ASCE *Specification for the Design of Cold-Formed Stainless Steel Structural Members* - 2002 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 708 lb for $< 20\%$ perforated and 586 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 at $M_s = 0.541 * M_n$ 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 = 1.11-1.67 psf.
- Contact Metl-Span for additional perforation patterns or conditions not conforming to these notes.