

## TR4-36 Wall Panel Allowable Wind Loads (psf)

24 Gauge						
Span Type	Span					
	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"
Single	250 *	148 <sub>b</sub>	83 <sub>b</sub>	53 <sub>b</sub>	37 <sub>b</sub>	27 <sub>b</sub>
Double	181 <sub>f</sub>	120 <sub>f</sub>	83 <sub>b</sub>	53 <sub>b</sub>	37 <sub>b</sub>	27 <sub>b</sub>
Triple	206 <sub>f</sub>	137 <sub>f</sub>	103 <sub>f</sub>	66 <sub>b</sub>	46 <sub>b</sub>	33 <sub>b</sub>

22 Gauge						
Span Type	Span					
	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"
Single	250 *	190 <sub>b</sub>	107 <sub>b</sub>	68 <sub>b</sub>	47 <sub>b</sub>	35 <sub>b</sub>
Double	181 <sub>f</sub>	120 <sub>f</sub>	90 <sub>f</sub>	68 <sub>b</sub>	47 <sub>b</sub>	35 <sub>b</sub>
Triple	206 <sub>f</sub>	137 <sub>f</sub>	103 <sub>f</sub>	82 <sub>f</sub>	59 <sub>b</sub>	43 <sub>b</sub>

20 Gauge						
Span Type	Span					
	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"
Single	250 *	235 <sub>b</sub>	132 <sub>b</sub>	84 <sub>b</sub>	58 <sub>b</sub>	43 <sub>b</sub>
Double	181 <sub>f</sub>	120 <sub>f</sub>	90 <sub>f</sub>	72 <sub>f</sub>	58 <sub>b</sub>	43 <sub>b</sub>
Triple	206 <sub>f</sub>	137 <sub>f</sub>	103 <sub>f</sub>	82 <sub>f</sub>	68 <sub>f</sub>	53 <sub>b</sub>

18 Gauge						
Span Type	Span					
	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"
Single	250 *	250 *	183 <sub>b</sub>	117 <sub>b</sub>	81 <sub>b</sub>	59 <sub>b</sub>
Double	181 <sub>f</sub>	120 <sub>f</sub>	90 <sub>f</sub>	72 <sub>f</sub>	60 <sub>f</sub>	51 <sub>f</sub>
Triple	206 <sub>f</sub>	137 <sub>f</sub>	103 <sub>f</sub>	82 <sub>f</sub>	68 <sub>f</sub>	58 <sub>f</sub>



### NOTES:

- Allowable loads are based on uniform span lengths.
- Panel material is ASTM A653 structural steel (SS) Grade 37.
- 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 AISI Standard *North American Specification for the Design of Cold-Formed Steel Structural Members* - 2016 Edition and the provisions for Allowable Strength Design (ASD).
- Fastening limitations are based on nominal 1/4" fasteners with 15mm-diameter combination washers; minimum four (4) fasteners per panel width (plus stitch fastener); and minimum 16 Gauge (50 ksi) steel structural girts. Allowable pullout/pullover 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  $M_s = 0.6 \cdot M_n$  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 = 36" and weight = 1.2-2.5 psf.
- Contact Metl-Span for conditions not conforming to these notes.