

MR3-36 Wall Panel Allowable Wind Loads (psf)

24 Gauge						
Span Type	Span					
	3'-0"	4'-0"	5'-0"	6'-0"	8'-0"	10'-0"
Single	226 _f	170 _f	113 _b	78 _b	44 _b	28 _b
Double	90 _f	68 _f	54 _f	45 _f	34 _f	27 _f
Triple	103 _f	77 _f	61 _f	51 _f	38 _f	30 _f

22 Gauge						
Span Type	Span					
	3'-0"	4'-0"	5'-0"	6'-0"	8'-0"	10'-0"
Single	226 _f	170 _f	136 _f	113 _f	64 _b	40 _b
Double	90 _f	68 _f	54 _f	45 _f	34 _f	27 _f
Triple	103 _f	77 _f	61 _f	51 _f	38 _f	30 _f

20 Gauge						
Span Type	Span					
	3'-0"	4'-0"	5'-0"	6'-0"	8'-0"	10'-0"
Single	226 _f	170 _f	136 _f	113 _f	82 _b	52 _b
Double	90 _f	68 _f	54 _f	45 _f	34 _f	27 _f
Triple	103 _f	77 _f	61 _f	51 _f	38 _f	30 _f

18 Gauge						
Span Type	Span					
	3'-0"	4'-0"	5'-0"	6'-0"	8'-0"	10'-0"
Single	226 _f	170 _f	136 _f	113 _f	85 _f	68 _f
Double	90 _f	68 _f	54 _f	45 _f	34 _f	27 _f
Triple	103 _f	77 _f	61 _f	51 _f	38 _f	30 _f



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 three (3) fasteners per panel width; 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 = 1.3-2.65 psf.
- Contact Metl-Span for conditions not conforming to these notes.