

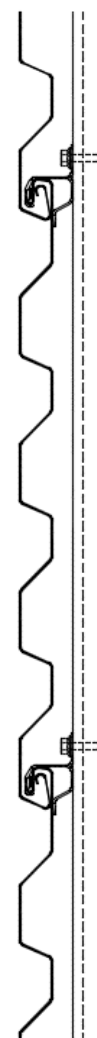
## CS-660 Wall Panel Allowable Wind Loads (psf)

24 Gauge						
Span Type	Span					
	1'-4"	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"
Single	50 <sub>g</sub>	50 <sub>g</sub>	50 <sub>g</sub>	50 <sub>g</sub>	49 <sub>b</sub>	34 <sub>b</sub>
Double	50 <sub>g</sub>	50 <sub>g</sub>	50 <sub>g</sub>	50 <sub>g</sub>	40 <sub>f</sub>	34 <sub>f</sub>
Triple	50 <sub>g</sub>	50 <sub>g</sub>	50 <sub>g</sub>	50 <sub>g</sub>	46 <sub>f</sub>	38 <sub>f</sub>

22 Gauge						
Span Type	Span					
	1'-4"	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"
Single	75 <sub>g</sub>	75 <sub>g</sub>	75 <sub>g</sub>	75 <sub>g</sub>	68 <sub>b</sub>	47 <sub>b</sub>
Double	75 <sub>g</sub>	75 <sub>g</sub>	68 <sub>f</sub>	51 <sub>f</sub>	40 <sub>f</sub>	34 <sub>f</sub>
Triple	75 <sub>g</sub>	75 <sub>g</sub>	75 <sub>g</sub>	57 <sub>f</sub>	46 <sub>f</sub>	38 <sub>f</sub>

20 Gauge						
Span Type	Span					
	1'-4"	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"
Single	100 <sub>g</sub>	100 <sub>g</sub>	100 <sub>g</sub>	100 <sub>g</sub>	86 <sub>b</sub>	60 <sub>b</sub>
Double	100 <sub>g</sub>	100 <sub>g</sub>	68 <sub>f</sub>	51 <sub>f</sub>	40 <sub>f</sub>	34 <sub>f</sub>
Triple	100 <sub>g</sub>	100 <sub>g</sub>	77 <sub>f</sub>	57 <sub>f</sub>	46 <sub>f</sub>	38 <sub>f</sub>

18 Gauge						
Span Type	Span					
	1'-4"	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"
Single	100 <sub>g</sub>	100 <sub>g</sub>	100 <sub>g</sub>	100 <sub>g</sub>	100 <sub>g</sub>	80 <sub>b</sub>
Double	100 <sub>g</sub>	100 <sub>g</sub>	68 <sub>f</sub>	51 <sub>f</sub>	40 <sub>f</sub>	34 <sub>f</sub>
Triple	100 <sub>g</sub>	100 <sub>g</sub>	77 <sub>f</sub>	57 <sub>f</sub>	46 <sub>f</sub>	38 <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
  - c = clip failure
  - g = panel disengagement
- 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 one (1) fastener per clip; 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.
- Allowable loads due to clip failure and panel disengagement are based on large-scale testing with safety factors of 2.5 and 2.0, respectively.
- Panel coverage = 16" and weight = 1.4-2.8 psf.
- Contact Metl-Span for conditions not conforming to these notes.