

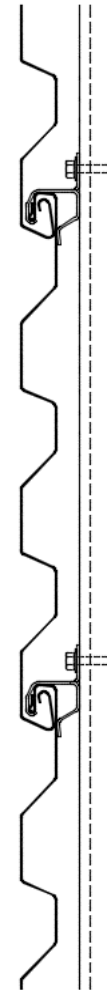
## CS-260 Wall Panel Allowable Wind Loads (psf)

| 24 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> | 78 <sub>b</sub> | 50 <sub>b</sub> | 34 <sub>b</sub> |
| Double    | 100 <sub>g</sub> | 100 <sub>g</sub> | 90 <sub>f</sub>  | 68 <sub>f</sub> | 50 <sub>b</sub> | 34 <sub>b</sub> |
| Triple    | 100 <sub>g</sub> | 100 <sub>g</sub> | 100 <sub>g</sub> | 77 <sub>f</sub> | 61 <sub>f</sub> | 43 <sub>b</sub> |

| 22 Gauge  |                  |                  |                  |                  |                 |                 |
|-----------|------------------|------------------|------------------|------------------|-----------------|-----------------|
| Span Type | Span             |                  |                  |                  |                 |                 |
|           | 1'-4"            | 2'-0"            | 3'-0"            | 4'-0"            | 5'-0"           | 6'-0"           |
| Single    | 125 <sub>g</sub> | 125 <sub>g</sub> | 125 <sub>g</sub> | 110 <sub>b</sub> | 70 <sub>b</sub> | 48 <sub>b</sub> |
| Double    | 125 <sub>g</sub> | 125 <sub>g</sub> | 90 <sub>f</sub>  | 68 <sub>f</sub>  | 54 <sub>f</sub> | 45 <sub>f</sub> |
| Triple    | 125 <sub>g</sub> | 125 <sub>g</sub> | 103 <sub>f</sub> | 77 <sub>f</sub>  | 61 <sub>f</sub> | 51 <sub>f</sub> |

| 20 Gauge  |                  |                  |                  |                  |                 |                 |
|-----------|------------------|------------------|------------------|------------------|-----------------|-----------------|
| Span Type | Span             |                  |                  |                  |                 |                 |
|           | 1'-4"            | 2'-0"            | 3'-0"            | 4'-0"            | 5'-0"           | 6'-0"           |
| Single    | 150 <sub>g</sub> | 150 <sub>g</sub> | 150 <sub>g</sub> | 141 <sub>b</sub> | 90 <sub>b</sub> | 62 <sub>b</sub> |
| Double    | 150 <sub>g</sub> | 136 <sub>f</sub> | 90 <sub>f</sub>  | 68 <sub>f</sub>  | 54 <sub>f</sub> | 45 <sub>f</sub> |
| Triple    | 150 <sub>g</sub> | 150 <sub>g</sub> | 103 <sub>f</sub> | 77 <sub>f</sub>  | 61 <sub>f</sub> | 51 <sub>f</sub> |

| 18 Gauge  |                  |                  |                  |                  |                  |                 |
|-----------|------------------|------------------|------------------|------------------|------------------|-----------------|
| Span Type | Span             |                  |                  |                  |                  |                 |
|           | 1'-4"            | 2'-0"            | 3'-0"            | 4'-0"            | 5'-0"            | 6'-0"           |
| Single    | 150 <sub>g</sub> | 150 <sub>g</sub> | 150 <sub>g</sub> | 150 <sub>g</sub> | 121 <sub>b</sub> | 84 <sub>b</sub> |
| Double    | 150 <sub>g</sub> | 136 <sub>f</sub> | 90 <sub>f</sub>  | 68 <sub>f</sub>  | 54 <sub>f</sub>  | 45 <sub>f</sub> |
| Triple    | 150 <sub>g</sub> | 150 <sub>g</sub> | 103 <sub>f</sub> | 77 <sub>f</sub>  | 61 <sub>f</sub>  | 51 <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 = 12" and weight = 1.5-3.0 psf.
- Contact Metl-Span for conditions not conforming to these notes.