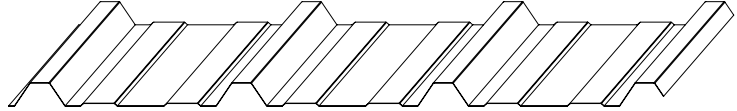


LOAD TABLES
ALUMINUM
ASTM B209
3003-H14
36" COVERAGE

BELVEDERE GRAND R PANEL BWG390



| .032 | | | FTY=17KSI | | |
|-------------------------------|----------------------------|--|-------------------------------|----------------------------|--|
| POSITIVE BENDING | | | NEGATIVE BENDING | | |
| Yt= | 1.07712 in | | Yt= | 1.07712 in | |
| Yb= | 0.3364 in | | Yb= | 0.3364 in | |
| St= | 0.0836 in ³ /ft | | St= | 0.0836 in ³ /ft | |
| Sb= | 0.2678 in ³ /ft | | Sb= | 0.2678 in ³ /ft | |
| l= | 0.0901 in ⁴ /ft | | l= | 0.0901 in ⁴ /ft | |
| M _a ⁺ = | 0.276 ft-k/ft | | M _a ⁺ = | 0.086 ft-k/ft | |
| M _a ⁻ = | 0.112 ft-k/ft | | M _a ⁻ = | 0.104 ft-k/ft | |
| P _{c,int} = | 187 lb/ft | | P _{c,int} = | 187 lb/ft | |
| P _{c,end} = | 91 lb/ft | | P _{c,end} = | 91 lb/ft | |

| 0.040 | | | FTY=17KSI | | |
|-------------------------------|----------------------------|--|-------------------------------|----------------------------|--|
| POSITIVE BENDING | | | NEGATIVE BENDING | | |
| Yt= | 1.07712 in | | Yt= | 1.07712 in | |
| Yb= | 0.3364 in | | Yb= | 0.3364 in | |
| St= | 0.1060 in ³ /ft | | St= | 0.1060 in ³ /ft | |
| Sb= | 0.3392 in ³ /ft | | Sb= | 0.3392 in ³ /ft | |
| l= | 0.1141 in ⁴ /ft | | l= | 0.1141 in ⁴ /ft | |
| M _a ⁺ = | 0.350 ft-k/ft | | M _a ⁺ = | 0.109 ft-k/ft | |
| M _a ⁻ = | 0.157 ft-k/ft | | M _a ⁻ = | 0.139 ft-k/ft | |
| P _{c,int} = | 299 lb/ft | | P _{c,int} = | 299 lb/ft | |
| P _{c,end} = | 146 lb/ft | | P _{c,end} = | 146 lb/ft | |

| L/120 DEFLECTION CRITERIA .032 | | | | | | |
|--------------------------------|---------------|-------------|------------|-------------|-------------|------------|
| LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 10 | 7'-4" | 7'-2" | 8'-1" | 7'-4" | 8'-0" | 8'-11" |
| 15 | 6'-15" | 5'-7" | 6'-3" | 6'-5" | 6'-2" | 6'-11" |
| 20 | 5'-10" | 4'-8" | 5'-3" | 5'-10" | 5'-1" | 5'-8" |
| 25 | 5'-15" | 4'-0" | 4'-6" | 5'-2" | 4'-4" | 4'-10" |
| 30 | 5'-11" | 3'-6" | 3'-11" | 4'-9" | 3'-9" | 4'-3" |
| 35 | 4'-10" | 3'-1" | 3'-6" | 4'-5" | 3'-4" | 3'-9" |
| 40 | 4'-6" | 2'-10" | 3'-2" | 4'-1" | 3'-0" | 3'-5" |
| 45 | 4'-0" | 2'-4" | 2'-11" | 3'-10" | 2'-9" | 3'-1" |
| 50 | 3'-7" | 2'-4" | 2'-8" | 3'-7" | 2'-6" | 2'-10" |
| 55 | 3'-3" | 2'-2" | 2'-6" | 3'-3" | 2'-4" | 2'-7" |
| 60 | 3'-0" | 2'-1" | 2'-4" | 3'-0" | 2'-2" | 2'-5" |
| 65 | 2'-9" | 1'-11" | 2'-2" | 2'-9" | 2'-0" | 2'-3" |
| 70 | 2'-7" | 1'-10" | 2'-0" | 2'-7" | 1'-10" | 2'-1" |
| 75 | 2'-5" | 1'-8" | 1'-11" | 2'-5" | 1'-9" | 2'-0" |
| 80 | 2'-3" | 1'-7" | 1'-10" | 2'-3" | 1'-8" | 1'-11" |
| 85 | 2'-1" | 1'-6" | 1'-9" | 2'-1" | 1'-7" | 1'-9" |
| 90 | 2'-0" | 1'-5" | 1'-8" | 2'-0" | 1'-6" | 1'-8" |
| 95 | 1'-10" | 1'-5" | 1'-7" | 1'-10" | 1'-5" | 1'-7" |
| 100 | 1'-9" | 1'-4" | 1'-6" | 1'-9" | 1'-4" | 1'-6" |

| L/120 DEFLECTION CRITERIA .040 | | | | | | |
|--------------------------------|---------------|-------------|------------|-------------|-------------|------------|
| LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 10 | 8'-0" | 8'-7" | 9'-7" | 8'-0" | 10'-0" | 9'-10" |
| 15 | 6'-11" | 6'-9" | 7'-7" | 6'-11" | 7'-11" | 7'-5" |
| 20 | 6'-4" | 5'-9" | 6'-5" | 6'-4" | 6'-7" | 6'-5" |
| 25 | 5'-10" | 5'-0" | 5'-7" | 5'-10" | 5'-8" | 5'-5" |
| 30 | 5'-6" | 4'-5" | 5'-0" | 5'-4" | 5'-1" | 5'-8" |
| 35 | 5'-3" | 4'-0" | 4'-6" | 4'-11" | 4'-7" | 5'-1" |
| 40 | 5'-0" | 3'-5" | 4'-2" | 4'-8" | 4'-2" | 4'-8" |
| 45 | 4'-10" | 3'-5" | 3'-10" | 4'-4" | 3'-10" | 4'-3" |
| 50 | 4'-8" | 3'-2" | 3'-7" | 4'-2" | 3'-6" | 4'-0" |
| 55 | 4'-6" | 3'-2" | 3'-4" | 3'-11" | 3'-4" | 3'-8" |
| 60 | 4'-4" | 2'-9" | 3'-2" | 3'-9" | 3'-1" | 3'-6" |
| 65 | 4'-3" | 2'-7" | 2'-11" | 3'-7" | 2'-11" | 3'-3" |
| 70 | 4'-2" | 2'-6" | 2'-10" | 3'-6" | 2'-9" | 3'-1" |
| 75 | 3'-10" | 2'-4" | 2'-8" | 3'-4" | 2'-7" | 2'-11" |
| 80 | 3'-7" | 2'-3" | 2'-6" | 3'-2" | 2'-5" | 2'-9" |
| 85 | 3'-5" | 2'-2" | 2'-5" | 3'-2" | 2'-4" | 2'-7" |
| 90 | 3'-2" | 2'-1" | 2'-4" | 3'-1" | 2'-3" | 2'-6" |
| 95 | 3'-0" | 2'-0" | 2'-3" | 3'-0" | 2'-1" | 2'-5" |
| 100 | 2'-11" | 1'-11" | 2'-2" | 2'-11" | 2'-0" | 2'-3" |

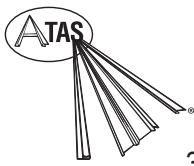
| L/180 DEFLECTION CRITERIA .032 | | | | | | |
|--------------------------------|---------------|-------------|------------|-------------|-------------|------------|
| LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 10 | 6'-5" | 7'-2" | 7'-11" | 6'-5" | 8'-0" | 7'-11" |
| 15 | 5'-7" | 5'-7" | 6'-3" | 5'-7" | 6'-2" | 6'-11" |
| 20 | 5'-1" | 4'-8" | 5'-3" | 5'-1" | 5'-8" | 6'-10" |
| 25 | 4'-9" | 4'-0" | 4'-6" | 4'-9" | 4'-4" | 4'-10" |
| 30 | 4'-5" | 3'-6" | 3'-11" | 4'-5" | 3'-9" | 4'-3" |
| 35 | 4'-3" | 3'-1" | 3'-6" | 4'-3" | 3'-4" | 3'-9" |
| 40 | 4'-0" | 2'-10" | 3'-2" | 4'-0" | 3'-0" | 3'-5" |
| 45 | 3'-10" | 2'-7" | 2'-11" | 3'-10" | 2'-9" | 3'-1" |
| 50 | 3'-7" | 2'-4" | 2'-8" | 3'-7" | 2'-6" | 2'-10" |
| 55 | 3'-3" | 2'-2" | 2'-6" | 3'-3" | 2'-4" | 2'-7" |
| 60 | 3'-0" | 2'-1" | 2'-4" | 3'-0" | 2'-2" | 2'-5" |
| 65 | 2'-9" | 1'-11" | 2'-2" | 2'-9" | 2'-0" | 2'-3" |
| 70 | 2'-7" | 1'-10" | 2'-0" | 2'-7" | 1'-10" | 2'-1" |
| 75 | 2'-5" | 1'-8" | 1'-11" | 2'-5" | 1'-9" | 2'-0" |
| 80 | 2'-3" | 1'-7" | 1'-10" | 2'-3" | 1'-8" | 1'-11" |
| 85 | 2'-1" | 1'-6" | 1'-9" | 2'-1" | 1'-7" | 1'-9" |
| 90 | 2'-0" | 1'-5" | 1'-8" | 2'-0" | 1'-6" | 1'-8" |
| 95 | 1'-10" | 1'-5" | 1'-7" | 1'-10" | 1'-5" | 1'-7" |
| 100 | 1'-9" | 1'-4" | 1'-6" | 1'-9" | 1'-4" | 1'-6" |

| L/180 DEFLECTION CRITERIA .040 | | | | | | |
|--------------------------------|---------------|-------------|------------|-------------|-------------|------------|
| LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 10 | 6'-11" | 8'-7" | 8'-7" | 6'-11" | 9'-4" | 8'-7" |
| 15 | 6'-1" | 6'-9" | 7'-6" | 6'-1" | 7'-11" | 7'-6" |
| 20 | 5'-6" | 5'-9" | 6'-5" | 5'-6" | 6'-7" | 6'-10" |
| 25 | 5'-1" | 5'-0" | 5'-7" | 5'-1" | 5'-8" | 6'-4" |
| 30 | 4'-10" | 4'-5" | 5'-0" | 4'-10" | 5'-1" | 5'-8" |
| 35 | 4'-7" | 4'-0" | 4'-6" | 4'-7" | 4'-7" | 5'-1" |
| 40 | 4'-4" | 3'-8" | 4'-2" | 4'-4" | 4'-2" | 4'-8" |
| 45 | 4'-2" | 3'-5" | 3'-10" | 4'-2" | 3'-10" | 4'-0" |
| 50 | 4'-1" | 3'-2" | 3'-7" | 4'-1" | 3'-6" | 4'-0" |
| 55 | 3'-11" | 2'-11" | 3'-4" | 3'-11" | 3'-3" | 3'-8" |
| 60 | 3'-10" | 2'-9" | 3'-2" | 3'-9" | 3'-1" | 3'-6" |
| 65 | 3'-8" | 2'-7" | 2'-11" | 3'-7" | 2'-11" | 3'-3" |
| 70 | 3'-7" | 2'-6" | 2'-10" | 3'-6" | 2'-9" | 3'-1" |
| 75 | 3'-6" | 2'-4" | 2'-8" | 3'-4" | 2'-7" | 2'-11" |
| 80 | 3'-5" | 2'-3" | 2'-6" | 3'-2" | 2'-5" | 2'-9" |
| 85 | 3'-5" | 2'-2" | 2'-5" | 3'-2" | 2'-4" | 2'-7" |
| 90 | 3'-2" | 2'-1" | 2'-4" | 3'-1" | 2'-3" | 2'-6" |
| 95 | 3'-0" | 2'-0" | 2'-3" | 3'-0" | 2'-1" | 2'-5" |
| 100 | 2'-11" | 1'-11" | 2'-2" | 2'-11" | 2'-0" | 2'-3" |

| L/240 DEFLECTION CRITERIA .032 | | | | | | |
|--------------------------------|---------------|-------------|------------|-------------|-------------|------------|
| LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 10 | 5'-10" | 7'-2" | 7'-3" | 5'-10" | 7'-10" | 7'-3" |
| 15 | 5'-1" | 5'-7" | 6'-3" | 5'-1" | 6'-2" | 6'-4" |
| 20 | 4'-7" | 4'-8" | 5'-3" | 4'-7" | 5'-1" | 5'-8" |
| 25 | 4'-3" | 4'-0" | 4'-6" | 4'-3" | 4'-4" | 4'-10" |
| 30 | 4'-0" | 3'-6" | 3'-11" | 4'-0" | 3'-9" | 4'-3" |
| 35 | 3'-10" | 3'-1" | 3'-6" | 3'-10" | 3'-4" | 3'-9" |
| 40 | 3'-8" | 2'-10" | 3'-2" | 3'-8" | 3'-0" | 3'-5" |
| 45 | 3'-6" | 2'-7" | 2'-11" | 3'-6" | 2'-9" | 3'-1" |
| 50 | 3'-5" | 2'-4" | 2'-8" | 3'-5" | 2'-6" | 2'-10" |
| 55 | 3'-3" | 2'-2" | 2'-6" | 3'-3" | 2'-4" | 2'-7" |
| 60 | 3'-0" | 2'-1" | 2'-4" | 3'-0" | 2'-2" | 2'-5" |
| 65 | 2'-9" | 1'-11" | 2'-2" | 2'-9" | 2'-0" | 2'-3" |
| 70 | 2'-7" | 1'-10" | 2'-0" | 2'-7" | 1'-10" | 2'-1" |
| 75 | 2'-5" | 1'-8" | 1'-11" | 2'-5" | 1'-9" | 2'-0" |
| 80 | 2'-3" | 1'-7" | 1'-10" | 2'-3" | 1'-8" | 1'-11" |
| 85 | 2'-1" | 1'-6" | 1'-9" | 2'-1" | 1'-7" | 1'-9" |
| 90 | 2'-0" | 1'-5" | 1'-8" | 2'-0" | 1'-6" | 1'-8" |
| 95 | 1'-10" | 1'-4" | 1'-7" | 1'-10" | 1'-5" | 1'-7" |
| 100 | 1'-9" | 1'-4" | 1'-6" | 1'-9" | 1'-4" | 1'-6" |

| L/240 DEFLECTION CRITERIA .040 | | | | | | |
|--------------------------------|---------------|-------------|------------|-------------|-------------|------------|
| LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 10 | 6'-4" | 8'-6" | 7'-10" | 6'-4" | 8'-6" | 7'-10" |
| 15 | 5'-6" | 6'-9" | 6'-10" | 5'-6" | 7'-5" | 6'-10" |
| 20 | 5'-0" | 5'-9" | 6'-2" | 5'-0" | 6'-7" | 6'-2" |
| 25 | 4'-8" | 5'-0" | 5'-7" | 4'-8" | 5'-8" | 5'-9" |
| 30 | 4'-4" | 4'-5" | 5'-0" | 4'-4" | 5'-1" | 5'-5" |
| 35 | 4'-2" | 4'-0" | 4'-6" | 4'-2" | 4'-7" | 5'-1" |
| 40 | 4'-0" | 3'-8" | 4'-2" | 4'-0" | 4'-2" | 4'-8" |
| 45 | 3'-10" | 3'-5" | 3'-10" | 3'-10" | 3'-10" | 4'-3" |
| 50 | 3'-8" | 3'-2" | 3'-7" | 3'-8" | 3'-6" | 4'-0" |
| 55 | 3'-7" | 2'-11" | 3'-4" | 3'-7" | 3'-3" | 3'-8" |
| 60 | 3'-5" | 2'-9" | 3'-2" | 3'-5" | 3'-1" | 3'-6" |
| 65 | 3'-4" | 2'-7" | 2'-11" | 3'-4" | 2'-11" | 3'-3" |
| 70 | 3'-3" | 2'-6" | 2'-10" | 3'-3" | 2'-9" | 3'-1" |
| 75 | 3'-2" | 2'-4" | 2'-8" | 3'-2" | 2'-7" | 2'-11" |
| 80 | 3'-2" | 2'-3" | 2'-6" | 3'-2" | 2'-5" | 2'-9" |
| 85 | 3'-1" | 2'-2" | 2'-5" | 3'-1" | 2'-4" | 2'-7" |
| 90 | 3'-0" | 2'-1" | 2'-4" | 3'-0" | 2'-3" | 2'-6" |
| 95 | 2'-11" | 2'-0" | 2'-3" | 2'-11" | 2'-1" | 2'-5" |
| 100 | 2'-11" | 1'-11" | 2'-2" | 2'-11" | 2'-0" | 2'-3" |

- Notes:
1. Minimum 1.5" bearing assumed.
 2. Connection of panel to supporting structure not investigated.
 3. Design thickness assumed 0.002" less than nominal thickness.
 4. Span lengths indicated by * are controlled by deflection.
 5. (+) signifies allowable moment based on tension.
(-) signifies allowable moment based on compression.
 6. Since allowable loads and spans can be affected by actual conditions of use, information in these tables is intended for use only by those qualified to assess these effects.
 7. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.

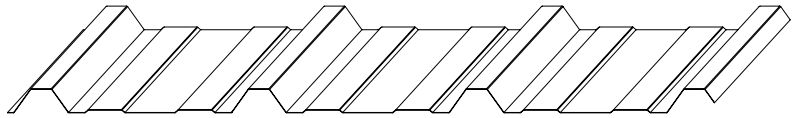


LOAD TABLES
STEEL
ASTM A653
SS 50
39" COVERAGE

BELVEDERE GRAND R

PANEL

BWG390



L/180 Deflection Criteria

FY=50KSI

22 and 24 GAUGE

| AISI Section Properties (per foot of width) | | | | |
|---|------------------------|------------------------|------------------------|------------------------|
| BWG390 | (+) I | (+) S | (-) I | (-) S |
| 24 ga. | 0.088 IN. ⁴ | 0.075 IN. ³ | 0.052 IN. ⁴ | 0.064 IN. ³ |
| 22 ga. | 0.116 IN. ⁴ | 0.100 IN. ³ | 0.069 IN. ⁴ | 0.089 IN. ³ |

| (+/-) Allowable Wind Pressure- PSF | | | | | | | | | | |
|------------------------------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| PANEL GAUGE | No. of Spans | Span in Feet | | | | | | | | |
| | | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 |
| 24 | 1 | 95 | 67 | 48 | 36 | 28 | 22 | | | |
| | 2 | 106 | 84 | 68 | 56 | 47 | 40 | 34 | 30 | 26 |
| | 3 | 133 | 105 | 85 | 70 | 56 | 44 | 35 | 29 | 20 |
| 22 | 1 | 125 | 88 | 64 | 48 | 37 | 29 | 23 | | |
| | 2 | 148 | 117 | 94 | 78 | 65 | 56 | 48 | 42 | 37 |
| | 3 | 185 | 146 | 118 | 97 | 74 | 58 | 47 | 38 | 31 |

- Notes:
- BWG390 section properties have been determined in accordance with the latest edition of the Cold Formed Steel Design Manual as published by the American Iron & Steel Industry (AISI).
 - The section properties listed for BWG390 panel are to be used for the analysis of live loads acting perpendicular to the plane of the product.
 - The Charted Load/ Span values account for the following:
 - Panel buckling strength
 - Deflection limit of L/180
 - Positive and negative wind considerations
 - Load/ Span values do not include consideration of fastener capacity.
 - Values include a 1/3 increase in "Allowable Wind Pressure".
 - Since allowable loads and spans can be affected by actual conditions of use, information in these tables is intended for use by those qualified to assess these effects.
 - Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.