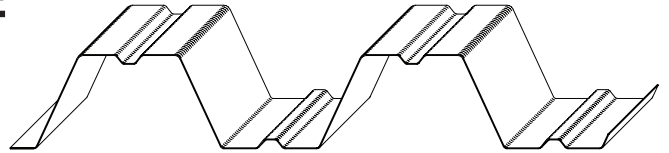


LOAD TABLES
ALUMINUM
ASTM B209
3003-H14
24" COVERAGE

BELVEDERE SPAN WALL BWS240

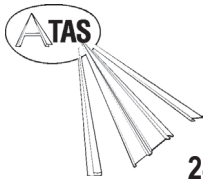


| L/180 DEFLECTION CRITERIA .032 FY=17KSI | | | | | | | L/240 DEFLECTION CRITERIA .032 FY=17KSI | | | | | | |
|---|---------------|-------------|------------|--|-------------|------------|---|---------------|-------------|------------|--|-------------|------------|
| POSITIVE BENDING | | | | NEGATIVE BENDING | | | POSITIVE BENDING | | | | NEGATIVE BENDING | | |
| Yt= 2.000 in. | | | | Yt= 2.000 in. | | | Yt= 2.000 in. | | | | Yt= 2.000 in. | | |
| St= 0.691 cubic in/ft. (bend.) | | | | St= 0.691 cubic in/ft. (bend.) | | | St= 0.691 cubic in/ft. (bend.) | | | | St= 0.691 cubic in/ft. (bend.) | | |
| I= 1.382 in. ⁴ /ft. (defl.) | | | | I= 1.382 in. ⁴ /ft. (defl.) | | | I= 1.382 in. ⁴ /ft. (defl.) | | | | I= 1.382 in. ⁴ /ft. (defl.) | | |
| LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | | LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 10 | 16'- 0" | 17'- 4" | 17'- 11" | 16'- 0" | 17'- 4" | 17'- 11" | 10 | 14'- 7" | 16'- 6" | 16'- 4" | 14'- 7" | 16'- 6" | 16'- 4" |
| 15 | 14'- 1" | 14'- 1" | 14'- 7" | 14'- 1" | 14'- 1" | 14'- 7" | 15 | 12'- 8" | 14'- 1" | 14'- 3" | 12'- 8" | 14'- 1" | 14'- 3" |
| 20 | 12'- 3" | 12'- 3" | 12'- 8" | 12'- 3" | 12'- 3" | 12'- 8" | 20 | 11'- 6" | 12'- 3" | 12'- 8" | 11'- 6" | 12'- 3" | 12'- 8" |
| 25 | 10'- 11" | 10'- 11" | 11'- 4" | 10'- 11" | 10'- 11" | 11'- 4" | 25 | 10'- 8" | 10'- 11" | 11'- 4" | 10'- 8" | 10'- 11" | 11'- 4" |
| 30 | 10'- 0" | 10'- 4" | 10'- 4" | 10'- 0" | 10'- 0" | 10'- 4" | 30 | 10'- 0" | 10'- 10" | 10'- 4" | 10'- 0" | 10'- 0" | 10'- 4" |
| 35 | 9'- 3" | 9'- 3" | 9'- 7" | 9'- 3" | 9'- 3" | 9'- 7" | 35 | 9'- 3" | 9'- 3" | 9'- 7" | 9'- 3" | 9'- 3" | 9'- 7" |
| 40 | 8'- 8" | 8'- 8" | 8'- 11" | 8'- 8" | 8'- 8" | 8'- 11" | 40 | 8'- 8" | 8'- 8" | 8'- 11" | 8'- 8" | 8'- 8" | 8'- 11" |
| 45 | 8'- 2" | 8'- 2" | 8'- 5" | 8'- 2" | 8'- 2" | 8'- 5" | 45 | 8'- 2" | 8'- 2" | 8'- 5" | 8'- 2" | 8'- 2" | 8'- 5" |
| 50 | 7'- 9" | 7'- 9" | 8'- 0" | 7'- 9" | 7'- 9" | 8'- 0" | 50 | 7'- 9" | 7'- 9" | 8'- 0" | 7'- 9" | 7'- 9" | 8'- 0" |
| 55 | 7'- 4" | 7'- 4" | 7'- 7" | 7'- 4" | 7'- 4" | 7'- 7" | 55 | 7'- 4" | 7'- 4" | 7'- 7" | 7'- 4" | 7'- 4" | 7'- 7" |
| 60 | 7'- 0" | 7'- 0" | 7'- 3" | 7'- 0" | 7'- 0" | 7'- 3" | 60 | 7'- 0" | 7'- 0" | 7'- 3" | 7'- 0" | 7'- 0" | 7'- 3" |
| 65 | 6'- 9" | 6'- 9" | 7'- 0" | 6'- 9" | 6'- 9" | 7'- 0" | 65 | 6'- 9" | 6'- 9" | 7'- 0" | 6'- 9" | 6'- 9" | 7'- 0" |
| 70 | 6'- 6" | 6'- 6" | 6'- 9" | 6'- 6" | 6'- 6" | 6'- 9" | 70 | 6'- 6" | 6'- 6" | 6'- 9" | 6'- 6" | 6'- 6" | 6'- 9" |

| L/180 DEFLECTION CRITERIA .040 FY=17KSI | | | | | | | L/240 DEFLECTION CRITERIA .040 FY=17KSI | | | | | | |
|---|---------------|-------------|------------|--|-------------|------------|---|---------------|-------------|------------|--|-------------|------------|
| POSITIVE BENDING | | | | NEGATIVE BENDING | | | POSITIVE BENDING | | | | NEGATIVE BENDING | | |
| Yt= 2.000 in. | | | | Yt= 2.000 in. | | | Yt= 2.000 in. | | | | Yt= 2.000 in. | | |
| St= 0.864 cubic in/ft. (bend.) | | | | St= 0.864 cubic in/ft. (bend.) | | | St= 0.864 cubic in/ft. (bend.) | | | | St= 0.864 cubic in/ft. (bend.) | | |
| I= 1.727 in. ⁴ /ft. (defl.) | | | | I= 1.727 in. ⁴ /ft. (defl.) | | | I= 1.727 in. ⁴ /ft. (defl.) | | | | I= 1.727 in. ⁴ /ft. (defl.) | | |
| LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | | LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 10 | 17'- 3" | 19'- 4" | 19'- 3" | 17'- 3" | 19'- 4" | 19'- 3" | 10 | 15'- 8" | 17'- 9" | 17'- 7" | 15'- 8" | 17'- 9" | 17'- 7" |
| 15 | 15'- 1" | 16'- 11" | 16'- 9" | 15'- 1" | 16'- 11" | 16'- 9" | 15 | 13'- 8" | 15'- 6" | 15'- 4" | 13'- 8" | 15'- 6" | 15'- 4" |
| 20 | 13'- 8" | 15'- 2" | 15'- 3" | 13'- 8" | 15'- 2" | 15'- 3" | 20 | 12'- 5" | 14'- 1" | 13'- 11" | 12'- 5" | 14'- 1" | 13'- 11" |
| 25 | 12'- 8" | 13'- 7" | 14'- 0" | 12'- 8" | 13'- 7" | 14'- 0" | 25 | 11'- 6" | 13'- 1" | 12'- 11" | 11'- 6" | 13'- 1" | 12'- 11" |
| 30 | 11'- 11" | 12'- 4" | 12'- 10" | 11'- 11" | 12'- 4" | 12'- 10" | 30 | 10'- 10" | 12'- 3" | 12'- 2" | 10'- 10" | 12'- 3" | 12'- 2" |
| 35 | 11'- 4" | 11'- 5" | 11'- 10" | 11'- 4" | 11'- 5" | 11'- 10" | 35 | 10'- 4" | 11'- 5" | 11'- 7" | 10'- 4" | 11'- 5" | 11'- 7" |
| 40 | 10'- 9" | 10'- 9" | 11'- 1" | 10'- 9" | 10'- 9" | 11'- 1" | 40 | 9'- 10" | 10'- 9" | 11'- 1" | 9'- 10" | 10'- 9" | 11'- 1" |
| 45 | 10'- 1" | 10'- 1" | 10'- 6" | 10'- 1" | 10'- 1" | 10'- 6" | 45 | 9'- 6" | 10'- 1" | 10'- 6" | 9'- 6" | 10'- 1" | 10'- 6" |
| 50 | 9'- 7" | 9'- 7" | 9'- 11" | 9'- 7" | 9'- 7" | 9'- 11" | 50 | 9'- 2" | 9'- 11" | 9'- 11" | 9'- 2" | 9'- 7" | 9'- 11" |
| 55 | 9'- 2" | 9'- 2" | 9'- 6" | 9'- 2" | 9'- 2" | 9'- 6" | 55 | 8'- 10" | 9'- 2" | 9'- 6" | 8'- 10" | 9'- 2" | 9'- 6" |
| 60 | 8'- 9" | 8'- 9" | 9'- 1" | 8'- 9" | 8'- 9" | 9'- 1" | 60 | 8'- 7" | 8'- 9" | 9'- 1" | 8'- 7" | 8'- 9" | 9'- 1" |
| 65 | 8'- 5" | 8'- 5" | 8'- 8" | 8'- 5" | 8'- 5" | 8'- 8" | 65 | 8'- 4" | 8'- 5" | 8'- 8" | 8'- 4" | 8'- 5" | 8'- 8" |
| 70 | 8'- 1" | 8'- 1" | 8'- 5" | 8'- 1" | 8'- 1" | 8'- 5" | 70 | 8'- 1" | 8'- 1" | 8'- 4" | 8'- 1" | 8'- 1" | 8'- 4" |

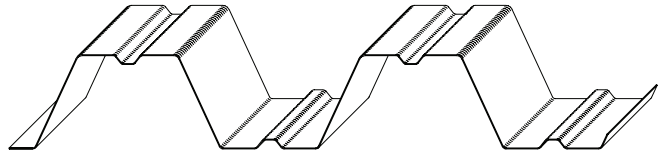
| L/180 DEFLECTION CRITERIA .050 FY=17KSI | | | | | | | L/240 DEFLECTION CRITERIA .050 FY=17KSI | | | | | | |
|---|---------------|-------------|------------|--|-------------|------------|---|---------------|-------------|------------|--|-------------|------------|
| POSITIVE BENDING | | | | NEGATIVE BENDING | | | POSITIVE BENDING | | | | NEGATIVE BENDING | | |
| Yt= 2.000 in. | | | | Yt= 2.000 in. | | | Yt= 2.000 in. | | | | Yt= 2.000 in. | | |
| St= 1.075 cubic in/ft. (bend.) | | | | St= 1.075 cubic in/ft. (bend.) | | | St= 1.075 cubic in/ft. (bend.) | | | | St= 1.075 cubic in/ft. (bend.) | | |
| I= 2.150 in. ⁴ /ft. (defl.) | | | | I= 2.150 in. ⁴ /ft. (defl.) | | | I= 2.150 in. ⁴ /ft. (defl.) | | | | I= 2.150 in. ⁴ /ft. (defl.) | | |
| LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | | LOAD (PSF) | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 10 | 18'- 6" | 20'- 10" | 20'- 4" | 18'- 6" | 20'- 10" | 20'- 4" | 10 | 16'- 10" | 18'- 11" | 18'- 6" | 16'- 10" | 18'- 11" | 18'- 6" |
| 15 | 16'- 3" | 18'- 2" | 17'- 9" | 16'- 3" | 18'- 2" | 17'- 9" | 15 | 14'- 9" | 16'- 6" | 16'- 2" | 14'- 9" | 16'- 6" | 16'- 2" |
| 20 | 14'- 9" | 16'- 6" | 16'- 2" | 14'- 9" | 16'- 6" | 16'- 2" | 20 | 13'- 4" | 15'- 0" | 14'- 8" | 13'- 4" | 15'- 0" | 14'- 8" |
| 25 | 13'- 8" | 15'- 4" | 15'- 0" | 13'- 8" | 15'- 4" | 15'- 0" | 25 | 12'- 5" | 13'- 11" | 13'- 7" | 12'- 5" | 13'- 11" | 13'- 7" |
| 30 | 12'- 10" | 14'- 4" | 14'- 1" | 12'- 10" | 14'- 4" | 14'- 1" | 30 | 11'- 8" | 13'- 1" | 12'- 10" | 11'- 8" | 13'- 1" | 12'- 10" |
| 35 | 12'- 3" | 13'- 9" | 13'- 5" | 12'- 3" | 13'- 9" | 13'- 5" | 35 | 11'- 1" | 12'- 6" | 12'- 2" | 11'- 1" | 12'- 6" | 12'- 2" |
| 40 | 11'- 8" | 13'- 1" | 12'- 10" | 11'- 8" | 13'- 1" | 12'- 10" | 40 | 10'- 7" | 11'- 11" | 11'- 7" | 10'- 7" | 11'- 11" | 11'- 7" |
| 45 | 11'- 3" | 12'- 7" | 12'- 4" | 11'- 3" | 12'- 7" | 12'- 4" | 45 | 10'- 2" | 11'- 6" | 11'- 2" | 10'- 2" | 11'- 6" | 11'- 2" |
| 50 | 10'- 10" | 12'- 2" | 11'- 11" | 10'- 10" | 12'- 2" | 11'- 11" | 50 | 9'- 10" | 11'- 1" | 10'- 9" | 9'- 10" | 11'- 1" | 10'- 9" |
| 55 | 10'- 6" | 11'- 10" | 11'- 5" | 10'- 6" | 11'- 10" | 11'- 5" | 55 | 9'- 6" | 10'- 8" | 10'- 5" | 9'- 6" | 10'- 8" | 10'- 5" |
| 60 | 10'- 3" | 11'- 5" | 10'- 11" | 10'- 3" | 11'- 5" | 10'- 11" | 60 | 9'- 3" | 10'- 5" | 10'- 2" | 9'- 3" | 10'- 5" | 10'- 2" |
| 65 | 9'- 11" | 11'- 2" | 10'- 6" | 9'- 11" | 11'- 2" | 10'- 6" | 65 | 9'- 0" | 10'- 2" | 9'- 11" | 9'- 0" | 10'- 2" | 9'- 11" |
| 70 | 9'- 8" | 10'- 11" | 10'- 1" | 9'- 8" | 10'- 11" | 10'- 1" | 70 | 8'- 9" | 9'- 10" | 9'- 8" | 8'- 9" | 9'- 10" | 9'- 8" |

Notes: 1. Since allowable loads and spans can be affected by actual conditions of use, information in these tables is intended for the use only by those qualified to assess these effects.



LOAD TABLES
STEEL
ASTM A653
SS 33
24" COVERAGE

BELVEDERE SPAN WALL BWS240



L/180 DEFLECTION CRITERIA 24 GAUGE FY=33KSI

| LOAD (PSF) | POSITIVE BENDING | | | NEGATIVE BENDING | | |
|------------|------------------|-------------|------------|------------------|-------------|------------|
| | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 20 | 16'- 5" | 20'- 7" | 20'- 3" | 16'- 5" | 20'- 7" | 20'- 3" |
| 25 | 15'- 3" | 18'- 5" | 18'- 10" | 15'- 3" | 18'- 5" | 18'- 10" |
| 30 | 14'- 4" | 16'- 9" | 17'- 8" | 14'- 4" | 16'- 9" | 17'- 8" |
| 35 | 13'- 7" | 15'- 6" | 16'- 10" | 13'- 7" | 15'- 6" | 16'- 10" |
| 40 | 13'- 0" | 14'- 6" | 16'- 1" | 13'- 0" | 14'- 6" | 16'- 1" |
| 45 | 12'- 6" | 13'- 8" | 15'- 4" | 12'- 6" | 13'- 8" | 15'- 4" |
| 50 | 12'- 1" | 13'- 0" | 14'- 6" | 12'- 1" | 13'- 0" | 14'- 6" |

L/180 DEFLECTION CRITERIA 22 GAUGE FY=33KSI

| LOAD (PSF) | POSITIVE BENDING | | | NEGATIVE BENDING | | |
|------------|------------------|-------------|------------|------------------|-------------|------------|
| | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 20 | 17'- 8" | 23'- 6" | 21'- 10" | 17'- 8" | 23'- 6" | 21'- 10" |
| 25 | 16'- 5" | 21'- 0" | 20'- 3" | 16'- 5" | 21'- 0" | 20'- 3" |
| 30 | 15'- 5" | 19'- 2" | 19'- 1" | 15'- 5" | 19'- 2" | 19'- 1" |
| 35 | 14'- 8" | 17'- 9" | 18'- 1" | 14'- 8" | 17'- 9" | 18'- 1" |
| 40 | 14'- 0" | 16'- 7" | 17'- 4" | 14'- 0" | 16'- 7" | 17'- 4" |
| 45 | 13'- 6" | 15'- 8" | 16'- 8" | 13'- 6" | 15'- 8" | 16'- 8" |
| 50 | 13'- 0" | 14'- 10" | 16'- 1" | 13'- 0" | 14'- 10" | 16'- 1" |

L/180 DEFLECTION CRITERIA 20 GAUGE FY=33KSI

| LOAD (PSF) | POSITIVE BENDING | | | NEGATIVE BENDING | | |
|------------|------------------|-------------|------------|------------------|-------------|------------|
| | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 20 | 18'- 9" | 25'- 2" | 23'- 2" | 18'- 9" | 25'- 2" | 23'- 2" |
| 25 | 17'- 5" | 23'- 1" | 21'- 6" | 17'- 5" | 23'- 1" | 21'- 6" |
| 30 | 16'- 5" | 21'- 1" | 20'- 3" | 16'- 5" | 21'- 1" | 20'- 3" |
| 35 | 15'- 7" | 19'- 6" | 19'- 3" | 15'- 7" | 19'- 6" | 19'- 3" |
| 40 | 14'- 11" | 18'- 3" | 18'- 5" | 14'- 11" | 18'- 3" | 18'- 5" |
| 45 | 14'- 4" | 17'- 3" | 17'- 8" | 14'- 4" | 17'- 3" | 17'- 8" |
| 50 | 13'- 10" | 16'- 4" | 17'- 1" | 13'- 10" | 16'- 4" | 17'- 1" |

L/180 DEFLECTION CRITERIA 18 GAUGE FY=33KSI

| LOAD (PSF) | POSITIVE BENDING | | | NEGATIVE BENDING | | |
|------------|------------------|-------------|------------|------------------|-------------|------------|
| | DOWNWARD LOAD | | | UPWARD LOAD | | |
| | SINGLE SPAN | DOUBLE SPAN | THREE SPAN | SINGLE SPAN | DOUBLE SPAN | THREE SPAN |
| 20 | 20'- 8" | 27'- 8" | 25'- 6" | 20'- 8" | 27'- 8" | 25'- 6" |
| 25 | 19'- 2" | 25'- 8" | 23'- 8" | 19'- 2" | 25'- 8" | 23'- 8" |
| 30 | 18'- 0" | 24'- 2" | 22'- 3" | 18'- 0" | 24'- 2" | 22'- 3" |
| 35 | 17'- 2" | 22'- 6" | 21'- 2" | 17'- 2" | 22'- 6" | 21'- 2" |
| 40 | 16'- 5" | 21'- 0" | 20'- 3" | 16'- 5" | 21'- 0" | 20'- 3" |
| 45 | 15'- 9" | 19'- 10" | 19'- 6" | 15'- 9" | 19'- 10" | 19'- 6" |
| 50 | 15'- 2" | 18'- 10" | 18'- 9" | 15'- 2" | 18'- 10" | 18'- 9" |

Notes:

1. All loads are applied perpendicular to surface of panel.
2. No increase for wind loading has been assumed.
3. Since allowable loads and spans can be affected by actual conditions of use, information in these tables is intended for the use only by those qualified to assess these effects.