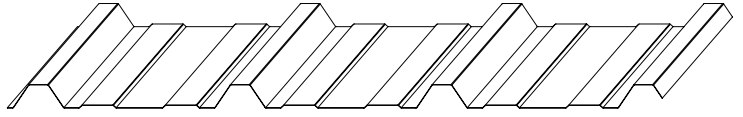


LOAD TABLES  
ALUMINUM  
ASTM B209  
3003-H14  
36" COVERAGE

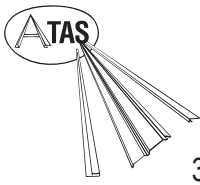
# BELVEDERE GRAND R PANEL BWG390



.032							.040						
FTY=17KSI							FTY=17KSI						
POSITIVE BENDING				NEGATIVE BENDING			POSITIVE BENDING				NEGATIVE BENDING		
Yt= 1.07712 in				Yt= 1.07712 in			Yt= 1.07712 in				Yt= 1.07712 in		
Yb= 0.3364 in				Yb= 0.3364 in			Yb= 0.3364 in				Yb= 0.3364 in		
St= 0.0836 in <sup>3</sup> /ft				St= 0.0836 in <sup>3</sup> /ft			St= 0.1060 in <sup>3</sup> /ft				St= 0.1060 in <sup>3</sup> /ft		
Sb= 0.2678 in <sup>3</sup> /ft				Sb= 0.2678 in <sup>3</sup> /ft			Sb= 0.3392 in <sup>3</sup> /ft				Sb= 0.3392 in <sup>3</sup> /ft		
I= 0.0901 in <sup>4</sup> /ft				I= 0.0901 in <sup>4</sup> /ft			I= 0.1141 in <sup>4</sup> /ft				I= 0.1141 in <sup>4</sup> /ft		
M <sub>a</sub> <sup>+</sup> = 0.276 ft-k/ft				M <sub>a</sub> <sup>+</sup> = 0.086 ft-k/ft			M <sub>a</sub> <sup>+</sup> = 0.350 ft-k/ft				M <sub>a</sub> <sup>+</sup> = 0.109 ft-k/ft		
M <sub>a</sub> <sup>-</sup> = 0.112 ft-k/ft				M <sub>a</sub> <sup>-</sup> = 0.104 ft-k/ft			M <sub>a</sub> <sup>-</sup> = 0.157 ft-k/ft				M <sub>a</sub> <sup>-</sup> = 0.139 ft-k/ft		
P <sub>c,int</sub> = 187 lb/ft				P <sub>c,int</sub> = 187 lb/ft			P <sub>c,int</sub> = 299 lb/ft				P <sub>c,int</sub> = 299 lb/ft		
P <sub>c,end</sub> = 91 lb/ft				P <sub>c,end</sub> = 91 lb/ft			P <sub>c,end</sub> = 146 lb/ft				P <sub>c,end</sub> = 146 lb/ft		
L/120 DEFLECTION CRITERIA .032							L/120 DEFLECTION CRITERIA .040						
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	7'-4"	7'-2"	8'-1"	7'-4"	8'-0"	8'-11"	10	8'-0"	8'-7"	9'-7"	8'-0"	10'-0"	9'-10"
15	6'-5"	5'-7"	6'-3"	6'-5"	6'-2"	6'-11"	15	6'-11"	6'-9"	7'-7"	6'-11"	7'-11"	8'-7"
20	5'-10"	4'-8"	5'-3"	5'-10"	5'-1"	5'-8"	20	6'-4"	5'-9"	6'-5"	6'-4"	6'-7"	7'-5"
25	5'-5"	4'-0"	4'-6"	5'-2"	4'-4"	4'-10"	25	5'-10"	5'-0"	5'-7"	5'-10"	5'-8"	6'-5"
30	5'-1"	3'-6"	3'-11"	4'-9"	3'-9"	4'-3"	30	5'-6"	4'-5"	5'-0"	5'-1"	5'-8"	6'-5"
35	4'-10"	3'-1"	3'-6"	4'-5"	3'-4"	3'-9"	35	5'-3"	4'-0"	4'-6"	4'-11"	4'-7"	5'-1"
40	4'-6"	2'-10"	3'-2"	4'-1"	3'-0"	3'-5"	40	5'-0"	3'-8"	4'-2"	4'-8"	4'-2"	4'-8"
45	4'-0"	2'-7"	2'-11"	3'-10"	2'-9"	3'-1"	45	4'-10"	3'-5"	3'-10"	4'-4"	3'-10"	4'-3"
50	3'-7"	2'-4"	2'-8"	3'-7"	2'-6"	2'-10"	50	4'-8"	3'-2"	3'-10"	4'-2"	3'-6"	4'-0"
55	3'-3"	2'-2"	2'-6"	3'-3"	2'-4"	2'-7"	55	4'-6"	2'-11"	3'-4"	3'-11"	3'-3"	3'-8"
60	3'-0"	2'-1"	2'-4"	3'-0"	2'-2"	2'-5"	60	4'-4"	2'-9"	3'-2"	3'-11"	3'-1"	3'-6"
65	2'-9"	1'-11"	2'-2"	2'-9"	2'-0"	2'-3"	65	4'-3"	2'-7"	2'-11"	3'-7"	3'-11"	3'-3"
70	2'-7"	1'-10"	2'-0"	2'-7"	1'-10"	2'-1"	70	4'-2"	2'-6"	2'-10"	3'-6"	2'-9"	3'-1"
75	2'-5"	1'-8"	1'-11"	2'-5"	1'-9"	2'-0"	75	3'-10"	2'-4"	2'-8"	3'-4"	2'-7"	2'-11"
80	2'-3"	1'-7"	1'-10"	2'-3"	1'-8"	1'-11"	80	3'-7"	2'-3"	2'-6"	3'-2"	2'-5"	2'-9"
85	2'-1"	1'-6"	1'-9"	2'-1"	1'-7"	1'-9"	85	3'-5"	2'-2"	2'-5"	3'-2"	2'-4"	2'-7"
90	2'-0"	1'-5"	1'-8"	2'-0"	1'-6"	1'-8"	90	3'-2"	2'-1"	2'-4"	3'-1"	2'-3"	2'-6"
95	1'-10"	1'-5"	1'-7"	1'-10"	1'-5"	1'-7"	95	3'-0"	2'-0"	2'-3"	3'-0"	2'-1"	2'-5"
100	1'-9"	1'-4"	1'-6"	1'-9"	1'-4"	1'-6"	100	2'-11"	1'-11"	2'-2"	2'-11"	2'-0"	2'-3"
L/180 DEFLECTION CRITERIA .032							L/180 DEFLECTION CRITERIA .040						
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	6'-5"	7'-2"	7'-11"	6'-5"	8'-0"	7'-11"	10	6'-11"	8'-7"	8'-7"	6'-11"	9'-4"	8'-7"
15	5'-7"	5'-7"	6'-3"	5'-7"	6'-2"	6'-11"	15	6'-1"	6'-9"	7'-6"	6'-1"	7'-11"	7'-6"
20	5'-1"	4'-8"	5'-3"	5'-1"	5'-1"	5'-8"	20	5'-6"	5'-9"	6'-5"	5'-6"	6'-7"	6'-10"
25	4'-9"	4'-0"	4'-6"	4'-9"	4'-4"	4'-10"	25	5'-1"	5'-0"	5'-7"	5'-1"	5'-8"	6'-4"
30	4'-5"	3'-6"	3'-11"	4'-5"	3'-9"	4'-3"	30	4'-10"	4'-5"	5'-0"	4'-10"	5'-1"	5'-8"
35	4'-3"	3'-1"	3'-6"	4'-3"	3'-4"	3'-9"	35	4'-7"	4'-0"	4'-6"	4'-7"	4'-7"	5'-1"
40	4'-0"	2'-10"	3'-2"	4'-0"	3'-0"	3'-5"	40	4'-4"	3'-8"	4'-2"	4'-4"	4'-2"	4'-8"
45	3'-10"	2'-7"	2'-11"	3'-10"	2'-9"	3'-1"	45	4'-2"	3'-5"	3'-10"	4'-2"	3'-10"	4'-3"
50	3'-7"	2'-4"	2'-8"	3'-7"	2'-6"	2'-10"	50	4'-1"	3'-2"	3'-7"	4'-1"	3'-6"	4'-0"
55	3'-3"	2'-2"	2'-6"	3'-3"	2'-4"	2'-7"	55	3'-11"	2'-11"	3'-4"	3'-11"	3'-3"	3'-8"
60	3'-0"	2'-1"	2'-4"	3'-0"	2'-2"	2'-5"	60	3'-10"	2'-9"	3'-2"	3'-9"	3'-1"	3'-6"
65	2'-9"	1'-11"	2'-2"	2'-9"	2'-0"	2'-3"	65	3'-8"	2'-7"	2'-11"	3'-7"	2'-11"	3'-3"
70	2'-7"	1'-10"	2'-0"	2'-7"	1'-10"	2'-1"	70	3'-7"	2'-6"	2'-10"	3'-6"	2'-9"	3'-1"
75	2'-5"	1'-8"	1'-11"	2'-5"	1'-9"	2'-0"	75	3'-6"	2'-4"	2'-8"	3'-4"	2'-7"	2'-11"
80	2'-3"	1'-7"	1'-10"	2'-3"	1'-8"	1'-11"	80	3'-5"	2'-3"	2'-6"	3'-2"	2'-5"	2'-9"
85	2'-1"	1'-6"	1'-9"	2'-1"	1'-7"	1'-9"	85	3'-5"	2'-2"	2'-5"	3'-2"	2'-4"	2'-7"
90	2'-0"	1'-5"	1'-8"	2'-0"	1'-6"	1'-8"	90	3'-2"	2'-1"	2'-4"	3'-1"	2'-3"	2'-6"
95	1'-10"	1'-5"	1'-7"	1'-10"	1'-5"	1'-7"	95	3'-0"	2'-0"	2'-3"	3'-0"	2'-1"	2'-5"
100	1'-9"	1'-4"	1'-6"	1'-9"	1'-4"	1'-6"	100	2'-11"	1'-11"	2'-2"	2'-11"	2'-0"	2'-3"
L/240 DEFLECTION CRITERIA .032							L/240 DEFLECTION CRITERIA .040						
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	5'-10"	7'-2"	7'-3"	5'-10"	7'-10"	7'-3"	10	6'-4"	8'-6"	7'-10"	6'-4"	8'-6"	7'-10"
15	5'-1"	5'-7"	6'-3"	5'-1"	6'-2"	6'-4"	15	5'-6"	6'-9"	6'-10"	5'-6"	7'-5"	6'-10"
20	4'-7"	4'-8"	5'-3"	4'-7"	5'-1"	5'-8"	20	5'-0"	5'-9"	6'-2"	5'-0"	6'-7"	6'-2"
25	4'-3"	4'-0"	4'-6"	4'-3"	4'-4"	4'-10"	25	4'-8"	5'-0"	5'-7"	4'-8"	5'-8"	5'-9"
30	4'-0"	3'-6"	3'-11"	4'-0"	3'-9"	4'-3"	30	4'-4"	4'-5"	5'-0"	4'-4"	5'-1"	5'-5"
35	3'-10"	3'-1"	3'-6"	3'-10"	3'-4"	3'-9"	35	4'-2"	4'-0"	4'-6"	4'-2"	4'-7"	5'-1"
40	3'-8"	2'-10"	3'-2"	3'-8"	3'-0"	3'-5"	40	4'-0"	3'-8"	4'-2"	4'-0"	4'-7"	4'-8"
45	3'-6"	2'-7"	2'-11"	3'-6"	2'-9"	3'-1"	45	3'-10"	3'-5"	3'-10"	3'-10"	3'-10"	4'-3"
50	3'-5"	2'-4"	2'-8"	3'-5"	2'-6"	2'-10"	50	3'-8"	3'-2"	3'-7"	3'-8"	3'-10"	4'-0"
55	3'-3"	2'-2"	2'-6"	3'-3"	2'-4"	2'-7"	55	3'-7"	2'-11"	3'-4"	3'-7"	3'-3"	3'-8"
60	3'-0"	2'-1"	2'-4"	3'-0"	2'-2"	2'-5"	60	3'-5"	2'-9"	3'-2"	3'-5"	3'-3"	3'-6"
65	2'-9"	1'-11"	2'-2"	2'-9"	2'-0"	2'-3"	65	3'-4"	2'-7"	2'-11"	3'-4"	2'-11"	3'-3"
70	2'-7"	1'-10"	2'-0"	2'-7"	1'-10"	2'-1"	70	3'-3"	2'-6"	2'-10"	3'-3"	2'-11"	3'-1"
75	2'-5"	1'-8"	1'-11"	2'-5"	1'-9"	2'-0"	75	3'-2"	2'-4"	2'-8"	3'-2"	2'-7"	2'-11"
80	2'-3"	1'-7"	1'-10"	2'-3"	1'-8"	1'-11"	80	3'-2"	2'-3"	2'-6"	3'-2"	2'-5"	2'-9"
85	2'-1"	1'-6"	1'-9"	2'-1"	1'-7"	1'-9"	85	3'-1"	2'-2"	2'-5"	3'-1"	2'-4"	2'-7"
90	2'-0"	1'-5"	1'-8"	2'-0"	1'-6"	1'-8"	90	3'-0"	2'-1"	2'-4"	3'-0"	2'-3"	2'-6"
95	1'-10"	1'-4"	1'-7"	1'-10"	1'-5"	1'-7"	95	2'-11"	2'-0"	2'-3"	2'-11"	2'-1"	2'-5"
100	1'-9"	1'-4"	1'-6"	1'-9"	1'-4"	1'-6"	100	2'-11"	1'-11"	2'-2"	2'-11"	2'-0"	2'-3"

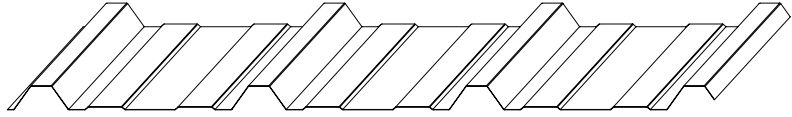
Notes:

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.



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. <sup>4</sup>	0.075 IN. <sup>3</sup>	0.052 IN. <sup>4</sup>	0.064 IN. <sup>3</sup>
22 ga.	0.116 IN. <sup>4</sup>	0.100 IN. <sup>3</sup>	0.069 IN. <sup>4</sup>	0.089 IN. <sup>3</sup>

(+/-) 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.