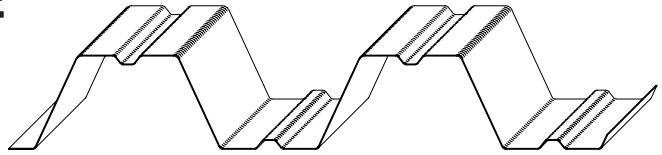


LOAD TABLES  
ALUMINUM  
ASTM B209  
3003-H14  
24" COVERAGE

# 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. <sup>4</sup> /ft. (defl.)				I= 1.382 in. <sup>4</sup> /ft. (defl.)			I= 1.382 in. <sup>4</sup> /ft. (defl.)				I= 1.382 in. <sup>4</sup> /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"

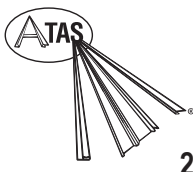
  

L/180 DEFLECTION CRITERIA .040 FY=17KSI							L/240 DEFLECTION CRITERIA .040 FY=17KSI						
POSITIVE BENDING				NEGATIVE BENDING			POSITIVE BENDING				NEGATIVE BENDING		
Yt= 2.000 in.				Yt= 2.000 in.			Yt= 2.000 in.				Yt= 2.000 in.		
St= 0.864 cubic in./ft. (bend.)				St= 0.864 cubic in./ft. (bend.)			St= 0.864 cubic in./ft. (bend.)				St= 0.864 cubic in./ft. (bend.)		
I= 1.727 in. <sup>4</sup> /ft. (defl.)				I= 1.727 in. <sup>4</sup> /ft. (defl.)			I= 1.727 in. <sup>4</sup> /ft. (defl.)				I= 1.727 in. <sup>4</sup> /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'- 7"	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"

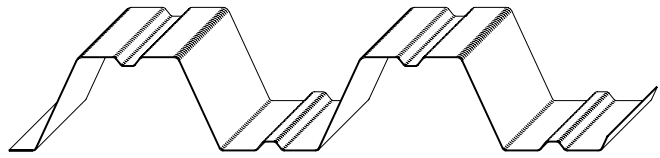
L/180 DEFLECTION CRITERIA .050 FY=17KSI							L/240 DEFLECTION CRITERIA .050 FY=17KSI						
POSITIVE BENDING				NEGATIVE BENDING			POSITIVE BENDING				NEGATIVE BENDING		
Yt= 2.000 in.				Yt= 2.000 in.			Yt= 2.000 in.				Yt= 2.000 in.		
St= 1.075 cubic in./ft. (bend.)				St= 1.075 cubic in./ft. (bend.)			St= 1.075 cubic in./ft. (bend.)				St= 1.075 cubic in./ft. (bend.)		
I= 2.150 in. <sup>4</sup> /ft. (defl.)				I= 2.150 in. <sup>4</sup> /ft. (defl.)			I= 2.150 in. <sup>4</sup> /ft. (defl.)				I= 2.150 in. <sup>4</sup> /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.  
2. 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 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.
  4. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.