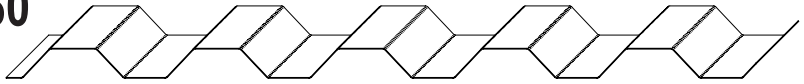


LOAD TABLES  
ALUMINUM  
ASTM B209  
3105-H14

# RIB PANELS BWR360



36" COVERAGE

L/180 DEFLECTION CRITERIA .032 FTY=18KSI							L/240 DEFLECTION CRITERIA .032 FTY=18KSI						
POSITIVE BENDING				NEGATIVE BENDING			POSITIVE BENDING				NEGATIVE BENDING		
Yt= 0.7322 in.				Yt= 0.7322 in.			Yt= 0.7322 in.				Yt= 0.7322 in.		
St= 0.8037 cubic in/ft. (bend.)				St= 0.8037 cubic in/ft. (bend.)			St= 0.8037 cubic in/ft. (bend.)				St= 0.8037 cubic in/ft. (bend.)		
Sb= 0.7832 cubic in/ft. (bend.)				Sb= 0.7832 cubic in/ft. (bend.)			Sb= 0.7832 cubic in/ft. (bend.)				Sb= 0.7832 cubic in/ft. (bend.)		
I= 0.6013 in. <sup>4</sup> /ft. (defl.)				I= 0.6013 in. <sup>4</sup> /ft. (defl.)			I= 0.6013 in. <sup>4</sup> /ft. (defl.)				I= 0.6013 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	* 12'- 1"	* 16'- 3"	* 14'- 11"	* 12'- 4"	* 16'- 3"	* 14'- 11"	10	* 11'- 0"	* 14'- 9"	* 13'- 7"	* 11'- 0"	* 14'- 9"	* 13'- 7"
15	* 10'- 7"	* 14'- 2"	* 13'- 1"	* 10'- 7"	* 14'- 2"	* 13'- 1"	15	* 9'- 7"	* 12'- 10"	* 11'- 10"	* 9'- 7"	* 12'- 10"	* 11'- 10"
20	* 9'- 7"	* 12'- 10"	* 11'- 10"	* 9'- 7"	* 12'- 10"	* 11'- 10"	20	* 8'- 8"	* 11'- 8"	* 10'- 9"	* 8'- 8"	* 11'- 8"	* 10'- 9"
25	* 8'- 11"	* 11'- 11"	* 11'- 0"	* 8'- 11"	* 11'- 11"	* 11'- 0"	25	* 8'- 1"	* 10'- 10"	* 10'- 0"	* 8'- 1"	* 10'- 10"	* 10'- 0"
30	* 8'- 4"	* 11'- 2"	* 10'- 4"	* 8'- 4"	* 11'- 2"	* 10'- 4"	30	* 7'- 7"	* 10'- 2"	* 9'- 5"	* 7'- 7"	* 10'- 2"	* 9'- 5"
35	* 7'- 11"	10'- 4"	* 9'- 10"	* 7'- 11"	10'- 4"	* 9'- 10"	35	* 7'- 3"	* 9'- 8"	* 8'- 11"	* 7'- 3"	* 9'- 8"	* 8'- 11"
40	* 7'- 7"	9'- 8"	* 9'- 5"	* 7'- 7"	9'- 8"	* 9'- 5"	40	* 6'- 11"	* 9'- 3"	* 8'- 6"	* 6'- 11"	* 9'- 3"	* 8'- 6"
45	* 7'- 4"	9'- 1"	* 9'- 0"	* 7'- 4"	9'- 1"	* 9'- 0"	45	* 6'- 8"	* 8'- 11"	* 8'- 2"	* 6'- 8"	* 8'- 11"	* 8'- 2"
50	* 7'- 1"	8'- 7"	* 8'- 9"	* 7'- 1"	8'- 8"	* 8'- 9"	50	* 6'- 5"	* 8'- 7"	* 7'- 11"	* 6'- 5"	* 8'- 7"	* 7'- 11"
55	* 6'- 10"	8'- 2"	* 8'- 5"	* 6'- 10"	8'- 3"	* 8'- 5"	55	* 6'- 2"	8'- 2"	* 7'- 8"	* 6'- 2"	8'- 3"	* 7'- 8"
60	* 6'- 8"	7'- 10"	* 8'- 2"	* 6'- 8"	7'- 11"	* 8'- 2"	60	* 6'- 0"	7'- 10"	* 7'- 5"	* 6'- 0"	7'- 11"	* 7'- 5"
65	* 6'- 5"	7'- 7"	* 8'- 0"	* 6'- 5"	7'- 7"	* 8'- 0"	65	* 5'- 10"	7'- 7"	* 7'- 3"	* 5'- 10"	7'- 7"	* 7'- 3"
70	* 6'- 4"	7'- 3"	* 7'- 9"	* 6'- 4"	7'- 4"	* 7'- 9"	70	* 5'- 9"	7'- 3"	* 7'- 1"	* 5'- 9"	7'- 4"	* 7'- 1"

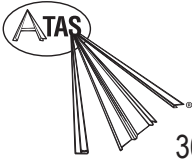
  

L/180 DEFLECTION CRITERIA .040 FTY=18KSI							L/240 DEFLECTION CRITERIA .040 FTY=18KSI						
POSITIVE BENDING				NEGATIVE BENDING			POSITIVE BENDING				NEGATIVE BENDING		
Yt= 0.7322 in.				Yt= 0.7322 in.			Yt= 0.7322 in.				Yt= 0.7322 in.		
St= 0.9992 cubic in/ft. (bend.)				St= 0.9992 cubic in/ft. (bend.)			St= 0.9992 cubic in/ft. (bend.)				St= 0.9992 cubic in/ft. (bend.)		
Sb= 0.9790 cubic in/ft. (bend.)				Sb= 0.9790 cubic in/ft. (bend.)			Sb= 0.9790 cubic in/ft. (bend.)				Sb= 0.9790 cubic in/ft. (bend.)		
I= 0.7517 in. <sup>4</sup> /ft. (defl.)				I= 0.7517 in. <sup>4</sup> /ft. (defl.)			I= 0.7517 in. <sup>4</sup> /ft. (defl.)				I= 0.7517 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	* 13'- 0"	* 17'- 6"	* 16'- 1"	* 13'- 0"	* 17'- 6"	* 16'- 1"	10	* 11'- 10"	* 15'- 10"	* 14'- 7"	* 11'- 10"	* 15'- 10"	* 14'- 7"
15	* 11'- 4"	* 15'- 3"	* 14'- 1"	* 11'- 4"	* 15'- 3"	* 14'- 1"	15	* 10'- 4"	* 13'- 10"	* 12'- 9"	* 10'- 4"	* 13'- 10"	* 12'- 9"
20	* 10'- 4"	* 13'- 10"	* 12'- 9"	* 10'- 4"	* 13'- 10"	* 12'- 9"	20	* 9'- 5"	* 12'- 7"	* 11'- 7"	* 9'- 5"	* 12'- 7"	* 11'- 7"
25	* 9'- 7"	* 12'- 10"	* 11'- 10"	* 9'- 7"	* 12'- 10"	* 11'- 10"	25	* 8'- 8"	* 11'- 8"	* 10'- 9"	* 8'- 8"	* 11'- 8"	* 10'- 9"
30	* 9'- 0"	* 12'- 1"	* 11'- 2"	* 9'- 0"	* 12'- 1"	* 11'- 2"	30	* 8'- 2"	* 11'- 0"	* 10'- 1"	* 8'- 2"	* 11'- 0"	* 10'- 1"
35	* 8'- 7"	* 11'- 6"	* 10'- 7"	* 8'- 7"	* 11'- 6"	* 10'- 7"	35	* 7'- 9"	* 10'- 5"	* 9'- 7"	* 7'- 9"	* 10'- 5"	* 9'- 7"
40	* 8'- 2"	* 11'- 0"	* 10'- 1"	* 8'- 2"	* 11'- 0"	* 10'- 1"	40	* 7'- 5"	* 10'- 0"	* 9'- 2"	* 7'- 5"	* 10'- 0"	* 9'- 2"
45	* 7'- 10"	* 10'- 7"	* 9'- 9"	* 7'- 10"	* 10'- 7"	* 9'- 9"	45	* 7'- 2"	* 9'- 7"	* 8'- 10"	* 7'- 2"	* 9'- 7"	* 8'- 10"
50	* 7'- 7"	* 10'- 2"	* 9'- 5"	* 7'- 7"	* 10'- 2"	* 9'- 5"	50	* 6'- 11"	* 9'- 3"	* 8'- 6"	* 6'- 11"	* 9'- 3"	* 8'- 6"
55	* 7'- 4"	9'- 10"	* 9'- 1"	* 7'- 4"	9'- 10"	* 9'- 1"	55	* 6'- 8"	* 9'- 0"	* 8'- 3"	* 6'- 8"	* 9'- 0"	* 8'- 3"
60	* 7'- 2"	9'- 5"	* 8'- 10"	* 7'- 2"	9'- 5"	* 8'- 10"	60	* 6'- 6"	* 8'- 9"	* 8'- 0"	* 6'- 6"	* 8'- 9"	* 8'- 0"
65	* 6'- 11"	9'- 1"	* 8'- 7"	* 6'- 11"	9'- 1"	* 8'- 7"	65	* 6'- 4"	* 8'- 6"	* 7'- 10"	* 6'- 4"	* 8'- 6"	* 7'- 10"
70	* 6'- 9"	8'- 9"	* 8'- 5"	* 6'- 9"	8'- 9"	* 8'- 5"	70	* 6'- 2"	* 8'- 3"	* 7'- 7"	* 6'- 2"	* 8'- 3"	* 7'- 7"

L/180 DEFLECTION CRITERIA .050 FTY=18KSI							L/240 DEFLECTION CRITERIA .050 FTY=18KSI						
POSITIVE BENDING				NEGATIVE BENDING			POSITIVE BENDING				NEGATIVE BENDING		
Yt= 0.7322 in.				Yt= 0.7322 in.			Yt= 0.7322 in.				Yt= 0.7322 in.		
St= 1.2407 cubic in/ft. (bend.)				St= 1.2407 cubic in/ft. (bend.)			St= 1.2407 cubic in/ft. (bend.)				St= 1.2407 cubic in/ft. (bend.)		
Sb= 1.2237 cubic in/ft. (bend.)				Sb= 1.2237 cubic in/ft. (bend.)			Sb= 1.2237 cubic in/ft. (bend.)				Sb= 1.2237 cubic in/ft. (bend.)		
I= 0.9395 in. <sup>4</sup> /ft. (defl.)				I= 0.9395 in. <sup>4</sup> /ft. (defl.)			I= 0.9395 in. <sup>4</sup> /ft. (defl.)				I= 0.9395 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	* 14'- 0"	* 18'- 10"	* 17'- 4"	* 14'- 0"	* 18'- 10"	* 17'- 4"	10	* 12'- 9"	* 17'- 1"	* 15'- 9"	* 12'- 9"	* 17'- 1"	* 15'- 9"
15	* 12'- 3"	* 16'- 5"	* 15'- 2"	* 12'- 3"	* 16'- 5"	* 15'- 2"	15	* 11'- 1"	* 14'- 11"	* 13'- 9"	* 11'- 1"	* 14'- 11"	* 13'- 9"
20	* 11'- 1"	* 14'- 11"	* 13'- 9"	* 11'- 1"	* 14'- 11"	* 13'- 9"	20	* 10'- 1"	* 13'- 7"	* 12'- 6"	* 10'- 1"	* 13'- 7"	* 12'- 6"
25	* 10'- 4"	* 13'- 10"	* 12'- 9"	* 10'- 4"	* 13'- 10"	* 12'- 9"	25	* 9'- 5"	* 12'- 7"	* 11'- 7"	* 9'- 5"	* 12'- 7"	* 11'- 7"
30	* 9'- 9"	* 13'- 0"	* 12'- 0"	* 9'- 9"	* 13'- 0"	* 12'- 0"	30	* 8'- 10"	* 11'- 10"	* 10'- 11"	* 8'- 10"	* 11'- 10"	* 10'- 11"
35	* 9'- 3"	* 12'- 5"	* 11'- 5"	* 9'- 3"	* 12'- 5"	* 11'- 5"	35	* 8'- 5"	* 11'- 3"	* 10'- 4"	* 8'- 5"	* 11'- 3"	* 10'- 4"
40	* 8'- 10"	* 11'- 10"	* 10'- 11"	* 8'- 10"	* 11'- 10"	* 10'- 11"	40	* 8'- 0"	* 10'- 9"	* 9'- 11"	* 8'- 0"	* 10'- 9"	* 9'- 11"
45	* 8'- 6"	* 11'- 5"	* 10'- 6"	* 8'- 6"	* 11'- 5"	* 10'- 6"	45	* 7'- 8"	* 10'- 4"	* 9'- 6"	* 7'- 8"	* 10'- 4"	* 9'- 6"
50	* 8'- 2"	* 11'- 0"	* 10'- 1"	* 8'- 2"	* 11'- 0"	* 10'- 1"	50	* 7'- 5"	* 10'- 0"	* 9'- 2"	* 7'- 5"	* 10'- 0"	* 9'- 2"
55	* 7'- 11"	* 10'- 8"	* 9'- 10"	* 7'- 11"	* 10'- 8"	* 9'- 10"	55	* 7'- 2"	* 9'- 8"	* 8'- 11"	* 7'- 2"	* 9'- 8"	* 8'- 11"
60	* 7'- 8"	* 10'- 4"	* 9'- 6"	* 7'- 8"	* 10'- 4"	* 9'- 6"	60	* 7'- 0"	* 9'- 5"	* 8'- 8"	* 7'- 0"	* 9'- 5"	* 8'- 8"
65	* 7'- 6"	* 10'- 1"	* 9'- 3"	* 7'- 6"	* 10'- 1"	* 9'- 3"	65	* 6'- 10"	* 9'- 2"	* 8'- 5"	* 6'- 10"	* 9'- 2"	* 8'- 5"
70	* 7'- 4"	* 9'- 10"	* 9'- 1"	* 7'- 4"	* 9'- 10"	* 9'- 1"	70	* 6'- 8"	* 8'- 11"	* 8'- 3"	* 6'- 8"	* 8'- 11"	* 8'- 3"

- Notes:
- \* Indicates maximum span controlled by deflection.
  - All loads are applied perpendicular to surface of panel.
  - No increase for wind loading has been assumed.
  - 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 are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.



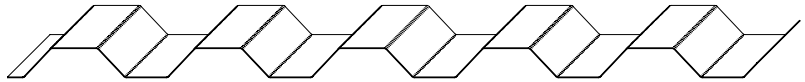
LOAD TABLES

STEEL  
ASTM A653  
SS 33

36" COVERAGE

# RIB PANELS

## BWR360



L/180 Deflection Criteria

FY=33 KSI

20, 22, 24 GAUGE

AISI Section Properties (per foot of width)				
Steel Gauge	(+) I	(+) S	(-) I	(-) S
24 ga.	0.103 IN. <sup>4</sup>	0.118 IN. <sup>3</sup>	0.107 IN. <sup>4</sup>	0.139 IN. <sup>3</sup>
22 ga.	0.137 IN. <sup>4</sup>	0.160 IN. <sup>3</sup>	0.139 IN. <sup>4</sup>	0.184 IN. <sup>3</sup>
20 ga.	0.171 IN. <sup>4</sup>	0.205 IN. <sup>3</sup>	0.173 IN. <sup>4</sup>	0.223 IN. <sup>3</sup>

(+/-) Allowable Wind Pressure- PSF										
PANEL GAUGE	No. of Spans	Span in Feet								
		5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
24	1	73	55	42	33	26	21			
	2	83	69	58	49	42	37	32	29	25
	3	104	86	72	62	53	43	36	30	25
22	1	96	72	55	43	35	28	23		
	2	113	94	79	67	58	50	44	39	35
	3	142	117	98	84	70	57	47	39	33
20	1	120	90	69	54	43	35	29	24	20
	2	145	120	101	86	74	64	56	50	44
	3	182	150	126	107	88	71	58	49	41

- Notes:
1. Section properties were determined in accordance with the Cold Formed Steel Design Manual as published by the American Iron & Steel Industry (AISI).
  2. All loads are applied perpendicular to surface of panel.
  3. Load/ Span values account for the following:
    - A. Panel buckling strength
    - B. Deflection limit of L/180
    - C. Positive and negative wind considerations
  4. Values include a 1/3 increase in "Allowable Wind Pressure".
  5. 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.
  6. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.