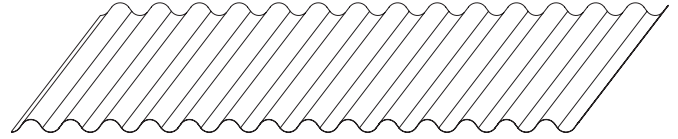




LOAD TABLES
ALUMINUM
ASTM B209
3003-H14
40-7/8" COVERAGE

BELVEDERE CORRUGATED PANEL BWC374



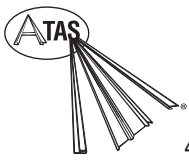
FTY=17KSI			
Positive and Negative Bending			
	0.032	0.040	0.050
Y=	0.438 in	0.438 in	0.438 in
S=	0.092 in ³ /ft	0.117 in ³ /ft	0.147 in ³ /ft
I=	0.040 in ⁴ /ft	0.051 in ⁴ /ft	0.065 in ⁴ /ft
M _a =	0.074 ft-k/ft	0.096 ft-k/ft	0.123 ft-k/ft
P _{c,int} =	0.528 k/ft	0.847 k/ft	1.351 k/ft
P _{c,end} =	0.257 k/ft	0.412 k/ft	0.658 k/ft

0.032" Aluminum									
Load (psf)	L/240 Deflection Criteria			L/180 Deflection Criteria			L/120 Deflection Criteria		
	Span Condition			Span Condition			Span Condition		
	Single	Double	Triple	Single	Double	Triple	Single	Double	Triple
10	*4'-5"	*6'-0"	*5'-6"	*4'-11"	*6'-7"	*6'-1"	*5'-7"	7'-5"	*6'-11"
15	*3'-11"	*5'-3"	*4'-10"	*4'-3"	*5'-9"	*5'-4"	*4'-11"	6'-0"	*6'-1"
20	*3'-6"	*4'-9"	*4'-4"	*3'-11"	5'-2"	*4'-10"	*4'-5"	5'-2"	*5'-6"
25	*3'-3"	*4'-5"	*4'-1"	*3'-7"	4'-7"	*4'-5"	*4'-2"	4'-7"	*5'-1"
30	*3'-1"	*4'-2"	*3'-10"	*3'-5"	4'-2"	*4'-2"	*3'-11"	4'-2"	4'-8"
35	*2'-11"	3'-10"	*3'-7"	*3'-3"	3'-10"	*4'-0"	*3'-8"	3'-10"	4'-3"
40	*2'-9"	3'-6"	*3'-5"	*3'-1"	3'-6"	*3'-10"	*3'-6"	3'-6"	4'-0"
45	*2'-8"	3'-4"	*3'-4"	*2'-11"	3'-4"	*3'-8"	*3'-5"	3'-4"	3'-9"
50	*2'-7"	3'-1"	*3'-2"	*2'-10"	3'-1"	3'-6"	*3'-3"	3'-1"	3'-6"
55	*2'-6"	2'-11"	*3'-1"	*2'-9"	2'-11"	3'-4"	*3'-2"	2'-11"	3'-4"
60	*2'-5"	2'-10"	*3'-0"	*2'-8"	2'-10"	3'-2"	3'-1"	2'-10"	3'-2"
65	*2'-4"	2'-8"	*2'-11"	*2'-7"	2'-8"	3'-0"	3'-0"	2'-8"	3'-0"
70	*2'-4"	2'-7"	*2'-10"	*2'-6"	2'-7"	2'-10"	2'-10"	2'-7"	2'-10"
75	*2'-3"	2'-5"	2'-9"	*2'-6"	2'-5"	2'-9"	2'-9"	2'-5"	2'-9"
80	*2'-2"	2'-4"	2'-8"	*2'-5"	2'-4"	2'-8"	2'-8"	2'-4"	2'-8"
85	*2'-2"	2'-3"	2'-7"	*2'-5"	2'-3"	2'-7"	2'-7"	2'-3"	2'-7"
90	*2'-1"	2'-2"	2'-6"	*2'-4"	2'-2"	2'-6"	2'-6"	2'-2"	2'-6"
95	*2'-1"	2'-2"	2'-5"	*2'-3"	2'-2"	2'-5"	2'-5"	2'-2"	2'-5"
100	*2'-1"	2'-1"	2'-4"	*2'-3"	2'-1"	2'-4"	2'-5"	2'-1"	2'-4"

0.040" Aluminum									
Load (psf)	L/240 Deflection Criteria			L/180 Deflection Criteria			L/120 Deflection Criteria		
	Span Condition			Span Condition			Span Condition		
	Single	Double	Triple	Single	Double	Triple	Single	Double	Triple
10	*4'-10"	*6'-6"	*6'-0"	*5'-4"	*7'-1"	*6'-7"	*6'-1"	*8'-2"	*7'-6"
15	*4'-2"	*5'-8"	*5'-2"	*4'-8"	*6'-3"	*5'-9"	*5'-4"	6'-11"	*6'-7"
20	*3'-10"	*5'-1"	*4'-9"	*4'-2"	*5'-8"	*5'-2"	*4'-10"	6'-0"	*6'-0"
25	*3'-6"	*4'-9"	*4'-5"	*3'-11"	*5'-3"	*4'-10"	*4'-6"	5'-4"	*5'-6"
30	*3'-4"	*4'-6"	*4'-1"	*3'-8"	4'-10"	*4'-6"	*4'-2"	4'-10"	*5'-2"
35	*3'-2"	*4'-3"	*3'-11"	*3'-6"	4'-5"	*4'-4"	*4'-0"	4'-5"	*4'-11"
40	*3'-0"	*4'-1"	*3'-9"	*3'-4"	4'-2"	*4'-1"	*3'-10"	4'-2"	4'-8"
45	*2'-11"	3'-11"	*3'-7"	*3'-2"	3'-11"	*4'-0"	*3'-8"	3'-11"	4'-4"
50	*2'-10"	3'-8"	*3'-6"	*3'-1"	3'-8"	*3'-10"	*3'-6"	3'-8"	4'-1"
55	*2'-9"	3'-6"	*3'-4"	*3'-0"	3'-6"	*3'-8"	*3'-5"	3'-6"	3'-11"
60	*2'-8"	3'-4"	*3'-3"	*2'-11"	3'-4"	*3'-7"	*3'-4"	3'-4"	3'-9"
65	*2'-7"	3'-2"	*3'-2"	*2'-10"	3'-2"	*3'-6"	*3'-3"	3'-2"	3'-7"
70	*2'-6"	3'-1"	*3'-1"	*2'-9"	3'-1"	*3'-5"	*3'-2"	3'-1"	3'-5"
75	*2'-5"	2'-11"	*3'-0"	*2'-8"	2'-11"	3'-3"	*3'-1"	2'-11"	3'-3"
80	*2'-5"	2'-10"	*3'-0"	*2'-8"	2'-10"	3'-2"	*3'-0"	2'-10"	3'-2"
85	*2'-4"	2'-9"	*2'-11"	*2'-7"	2'-9"	3'-1"	2'-11"	2'-9"	3'-1"
90	*2'-4"	2'-8"	*2'-10"	*2'-6"	2'-8"	3'-0"	2'-10"	2'-8"	3'-0"
95	*2'-3"	2'-7"	*2'-10"	*2'-6"	2'-7"	2'-11"	2'-9"	2'-7"	2'-11"
100	*2'-3"	2'-6"	*2'-9"	*2'-5"	2'-6"	2'-9"	2'-9"	2'-6"	2'-9"

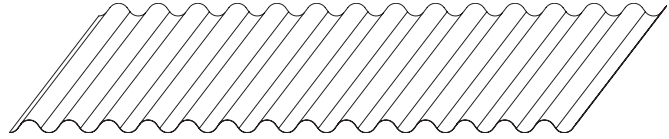
0.050" Aluminum									
Load (psf)	L/240 Deflection Criteria			L/180 Deflection Criteria			L/120 Deflection Criteria		
	Span Condition			Span Condition			Span Condition		
	Single	Double	Triple	Single	Double	Triple	Single	Double	Triple
10	*5'-3"	*7'-0"	*6'-5"	*5'-9"	*7'-8"	*7'-1"	*6'-7"	*8'-10"	*8'-2"
15	*4'-7"	*6'-1"	*5'-8"	*5'-0"	*6'-9"	*6'-2"	*5'-9"	*7'-8"	*7'-1"
20	*4'-2"	*5'-6"	*5'-1"	*4'-7"	*6'-1"	*5'-8"	*5'-3"	6'-10"	*6'-5"
25	*3'-10"	*5'-2"	*4'-9"	*4'-3"	*5'-8"	*5'-3"	*4'-10"	6'-1"	*6'-0"
30	*3'-7"	*4'-10"	*4'-5"	*4'-0"	*5'-4"	*4'-11"	*4'-7"	5'-7"	*5'-8"
35	*3'-5"	*4'-7"	*4'-3"	*3'-9"	*5'-1"	*4'-8"	*4'-4"	5'-2"	*5'-4"
40	*3'-3"	*4'-5"	*4'-1"	*3'-7"	4'-9"	*4'-5"	*4'-2"	4'-9"	*5'-1"
45	*3'-2"	*4'-3"	*3'-11"	*3'-6"	4'-6"	*4'-3"	*4'-0"	4'-6"	*4'-11"
50	*3'-0"	*4'-1"	*3'-9"	*3'-4"	4'-3"	*4'-2"	*3'-10"	4'-3"	*4'-9"
55	*2'-11"	*3'-11"	*3'-8"	*3'-3"	4'-1"	*4'-0"	*3'-8"	4'-1"	4'-6"
60	*2'-10"	*3'-10"	*3'-6"	*3'-2"	3'-10"	*3'-11"	*3'-7"	3'-10"	4'-4"
65	*2'-9"	3'-8"	*3'-5"	*3'-1"	3'-8"	*3'-9"	*3'-6"	3'-8"	4'-2"
70	*2'-8"	3'-7"	*3'-4"	*3'-0"	3'-7"	*3'-8"	*3'-5"	3'-7"	4'-0"
75	*2'-8"	3'-5"	*3'-3"	*2'-11"	3'-5"	*3'-7"	*3'-4"	3'-5"	3'-10"
80	*2'-7"	3'-4"	*3'-2"	*2'-10"	3'-4"	*3'-6"	*3'-3"	3'-4"	3'-9"
85	*2'-6"	3'-2"	*3'-2"	*2'-9"	3'-2"	*3'-5"	*3'-2"	3'-2"	3'-7"
90	*2'-6"	3'-1"	*3'-1"	*2'-9"	3'-1"	*3'-5"	*3'-2"	3'-1"	3'-6"
95	*2'-5"	3'-0"	*3'-0"	*2'-8"	3'-0"	*3'-4"	*3'-1"	3'-0"	3'-5"
100	*2'-5"	2'-11"	*3'-0"	*2'-8"	2'-11"	*3'-3"	*3'-0"	2'-11"	3'-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. 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.
 6. 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
40-7/8" COVERAGE

BELVEDERE CORRUGATED PANEL BWC374



L/180 Deflection Criteria

FY=50 KSI

20, 22, 24 GAUGE

AISI Section Properties (per foot of width)				
BWC374	(+) I	(+) S	(-) I	(-) S
24 ga.	0.031 IN. ⁴	0.071 IN. ³	0.031 IN. ⁴	0.071 IN. ³
22 ga.	0.039 IN. ⁴	0.088 IN. ³	0.039 IN. ⁴	0.088 IN. ³
20 ga.	0.046 IN. ⁴	0.106 IN. ³	0.046 IN. ⁴	0.106 IN. ³

(+/-) Allowable Wind Pressure- PSF										
PANEL GAUGE	No. of Spans	Span in Feet								
		3	3.5	4	4.5	5	5.5	6	6.5	7
24	1	100	63	42	29	21				
	2	210	152	101	71	52	39	30	23	
	3	201	126	85	59	43	32	25		
22	1	126	79	53	37	27	20			
	2	260	191	128	90	65	49	38	29	
	3	253	159	106	75	54	41	31	24	
20	1	148	93	62	44	32	24			
	2	314	225	151	106	77	58	44	35	28
	3	299	188	126	88	64	48	37	29	23

- Notes:
1. BWC374 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).
 2. The section properties listed for BWC374 panel are to be used for the analysis of live loads acting perpendicular to the plane of the product.
 3. The Charted Load/ Span values account for the following:
 - A. Panel buckling strength
 - B. Deflection limit of L/180
 - C. Positive and negative wind considerations
 4. Load/ Span values do not include consideration of fastener capacity.
 5. Values include a 1/3 increase in "Allowable Wind Pressure".
 6. 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.
 7. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.