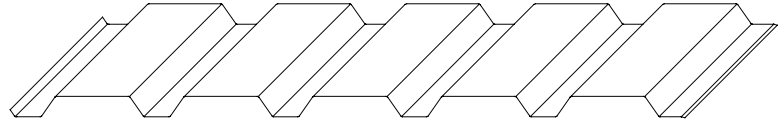


LOAD TABLES  
**0.032 ALUMINUM  
 ASTM B209  
 3003-H14  
 39 3/8" COVERAGE**

# PENUMWALL PANEL BWS391

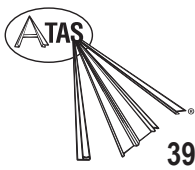


$F_{TY} = 17\text{KSI}$		
<b>0.032</b>		
	Top in Compression	Bottom in Compression
Yt=	0.4243 in	0.4243 in
Yb=	0.8257 in	0.8257 in
St=	0.2554 in <sup>3</sup> /ft	0.2554 in <sup>3</sup> /ft
Sb=	0.1313 in <sup>3</sup> /ft	0.1313 in <sup>3</sup> /ft
I=	0.1084 in <sup>4</sup> /ft	0.1084 in <sup>4</sup> /ft
Ma=	0.0823 ft-k/ft	0.0742 ft-k/ft
P <sub>c,int</sub> =	296 lb/ft	296 lb/ft
P <sub>c,end</sub> =	128 lb/ft	128 lb/ft

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

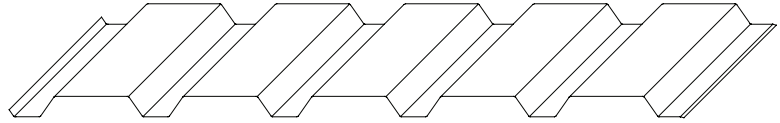
Load (psf)	$\Delta \leq L/240$ Deflection Criteria			$\Delta \leq L/180$ Deflection Criteria			$\Delta \leq L/120$ Deflection Criteria		
	Span Condition			Span Condition			Span Condition		
	Single	Double	Triple	Single	Double	Triple	Single	Double	Triple
10	*6'-2"	7'-7"	*7'-8"	*6'-10"	7'-7"	8'-5"	7'-8"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

- 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. These load tables conform to the 2005 edition of the "Aluminum Design Manual."
  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.
  7. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.



**LOAD TABLES**  
**.040 ALUMINUM**  
**ASTM B209**  
**3003-H14**  
**39 3/8" COVERAGE**

# PENUMWALL PANEL BWS391

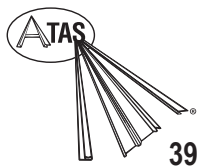


$F_{TY} = 17\text{KSI}$		
<b>0.040</b>		
	Top in Compression	Bottom in Compression
Yt=	0.4243 in	0.4243 in
Yb=	0.8257 in	0.8257 in
St=	0.3235 in <sup>3</sup> /ft	0.3235 in <sup>3</sup> /ft
Sb=	0.1662 in <sup>3</sup> /ft	0.1662 in <sup>3</sup> /ft
I=	0.1372 in <sup>4</sup> /ft	0.1372 in <sup>4</sup> /ft
Ma=	0.1167 ft-k/ft	0.1046 ft-k/ft
P <sub>c,int</sub> =	475 lb/ft	475 lb/ft
P <sub>c,end</sub> =	205 lb/ft	205 lb/ft

0.040" Aluminum PenumWall/BWS391 Inward (Positive) Pressure									
Load (psf)	$\Delta \leq L/240$ Deflection Criteria			$\Delta \leq L/180$ Deflection Criteria			$\Delta \leq L/120$ Deflection Criteria		
	Span Condition			Span Condition			Span Condition		
	Single	Double	Triple	Single	Double	Triple	Single	Double	Triple
10	*6'-9"	8'-9"	*8'-4"	*7'-5"	8'-9"	*9'-2"	*8'-6"	8'-9"	9'-10"
15	*5'-10"	7'-0"	*7'-3"	*6'-5"	7'-0"	7'-11"	*7'-5"	7'-0"	7'-11"
20	*5'-4"	6'-0"	*6'-7"	*5'-10"	6'-0"	6'-9"	*6'-9"	6'-0"	6'-9"
25	*4'-11"	5'-4"	5'-11"	*5'-5"	5'-4"	5'-11"	6'-1"	5'-4"	5'-11"
30	*4'-8"	4'-9"	5'-4"	*5'-1"	4'-9"	5'-4"	5'-6"	4'-9"	5'-4"
35	*4'-5"	4'-5"	4'-11"	*4'-10"	4'-5"	4'-11"	5'-1"	4'-5"	4'-11"
40	*4'-3"	4'-1"	4'-7"	*4'-8"	4'-1"	4'-7"	4'-9"	4'-1"	4'-7"
45	*4'-1"	4'-9"	4'-2"	*4'-6"	4'-9"	4'-2"	4'-6"	4'-9"	4'-2"
50	*3'-11"	3'-7"	4'-0"	4'-3"	3'-7"	4'-0"	4'-3"	3'-7"	4'-0"
55	*3'-9"	3'-4"	3'-9"	4'-1"	3'-4"	3'-9"	4'-1"	3'-4"	3'-9"
60	*3'-8"	3'-2"	3'-7"	3'-11"	3'-2"	3'-7"	3'-11"	3'-2"	3'-7"
65	*3'-7"	3'-0"	3'-5"	3'-9"	3'-0"	3'-5"	3'-9"	3'-0"	3'-5"
70	*3'-6"	2'-11"	3'-3"	3'-7"	2'-11"	3'-3"	3'-7"	2'-11"	3'-3"
75	*3'-5"	2'-9"	3'-1"	3'-6"	2'-9"	3'-1"	3'-6"	2'-9"	3'-1"
80	*3'-4"	2'-8"	3'-0"	3'-4"	2'-8"	3'-0"	3'-4"	2'-8"	3'-0"
85	3'-3"	2'-7"	2'-10"	3'-3"	2'-7"	2'-10"	3'-3"	2'-7"	2'-10"
90	3'-2"	2'-5"	2'-9"	3'-2"	2'-5"	2'-9"	3'-2"	2'-5"	2'-9"
95	3'-1"	2'-4"	2'-8"	3'-1"	2'-4"	2'-8"	3'-1"	2'-4"	2'-8"
100	3'-0"	2'-3"	2'-7"	3'-0"	2'-3"	2'-7"	3'-0"	2'-3"	2'-7"

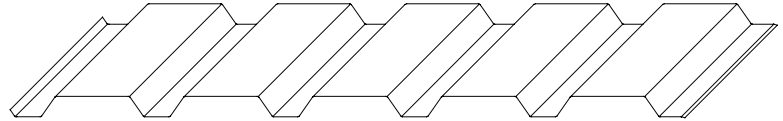
0.040" Aluminum PenumWall/BWS391 Outward (Negative) Pressure									
Load (psf)	$\Delta \leq L/240$ Deflection Criteria			$\Delta \leq L/180$ Deflection Criteria			$\Delta \leq L/120$ Deflection Criteria		
	Span Condition			Span Condition			Span Condition		
	Single	Double	Triple	Single	Double	Triple	Single	Double	Triple
10	*6'-9"	*9'-0"	*8'-4"	*7'-5"	9'-3"	*9'-2"	*8'-6"	9'-3"	10'-4"
15	*5'-10"	7'-5"	*7'-3"	*6'-5"	7'-5"	*8'-0"	7'-5"	7'-5"	8'-4"
20	*5'-4"	6'-4"	*6'-7"	*5'-10"	6'-4"	7'-1"	6'-5"	6'-4"	7'-1"
25	*4'-11"	5'-7"	*6'-1"	*5'-5"	5'-7"	6'-3"	5'-9"	5'-7"	6'-3"
30	*4'-8"	5'-0"	5'-8"	*5'-1"	5'-0"	5'-8"	5'-3"	5'-0"	5'-8"
35	*4'-5"	4'-7"	5'-2"	4'-10"	4'-7"	5'-2"	4'-10"	4'-7"	5'-2"
40	*4'-3"	4'-2"	4'-9"	4'-6"	4'-2"	4'-9"	4'-6"	4'-2"	4'-9"
45	*4'-1"	3'-11"	4'-5"	4'-3"	3'-11"	4'-5"	4'-3"	3'-11"	4'-5"
50	*3'-11"	3'-8"	4'-2"	4'-1"	3'-8"	4'-2"	4'-1"	3'-8"	4'-2"
55	*3'-9"	3'-6"	3'-11"	3'-10"	3'-6"	3'-11"	3'-10"	3'-6"	3'-11"
60	3'-8"	3'-4"	3'-9"	3'-8"	3'-4"	3'-9"	3'-8"	3'-4"	3'-9"
65	3'-7"	3'-2"	3'-6"	3'-7"	3'-2"	3'-6"	3'-7"	3'-2"	3'-6"
70	3'-5"	3'-0"	3'-5"	3'-5"	3'-0"	3'-5"	3'-5"	3'-0"	3'-5"
75	3'-4"	2'-10"	3'-3"	3'-4"	2'-10"	3'-3"	3'-4"	2'-10"	3'-3"
80	3'-2"	2'-9"	3'-1"	3'-2"	2'-9"	3'-1"	3'-2"	2'-9"	3'-1"
85	3'-1"	2'-8"	3'-0"	3'-1"	2'-8"	3'-0"	3'-1"	2'-8"	3'-0"
90	3'-0"	2'-7"	2'-10"	3'-0"	2'-7"	2'-10"	3'-0"	2'-7"	2'-10"
95	2'-11"	2'-5"	2'-9"	2'-11"	2'-5"	2'-9"	2'-11"	2'-5"	2'-9"
100	2'-10"	2'-4"	2'-8"	2'-10"	2'-4"	2'-8"	2'-10"	2'-4"	2'-8"

- 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. These load tables conform to the 2005 edition of the "Aluminum Design Manual."
  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.
  7. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.



**LOAD TABLES**  
**0.050 ALUMINUM**  
**ASTM B209**  
**3003-H14**  
**39 3/8" COVERAGE**

# PENUMWALL PANEL BWS391



F <sub>TY</sub> = 17KSI		
0.050		
	Top in Compression	Bottom in Compression
Y <sub>t</sub> =	0.4243 in	0.4243 in
Y <sub>b</sub> =	0.8257 in	0.8257 in
St=	0.4086 in <sup>3</sup> /ft	0.4086 in <sup>3</sup> /ft
S <sub>b</sub> =	0.2100 in <sup>3</sup> /ft	0.2100 in <sup>3</sup> /ft
I=	0.1734 in <sup>4</sup> /ft	0.1734 in <sup>4</sup> /ft
M <sub>a</sub> =	0.1677 ft-k/ft	0.1428 ft-k/ft
P <sub>c,int</sub> =	759 lb/ft	759 lb/ft
P <sub>c,end</sub> =	328 lb/ft	328 lb/ft

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

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

- 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. These load tables conform to the 2005 edition of the "Aluminum Design Manual."
  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.
  7. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.