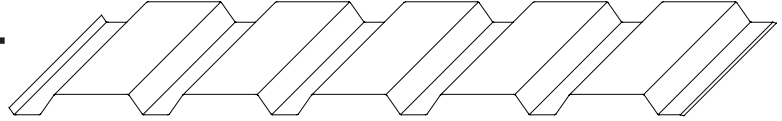


LOAD TABLES  
**ALUMINUM**  
**ASTM B209**  
**3003-H14**  
**39 3/8" COVERAGE**

# INSPIRE WALL PANEL BWS390



FTY=17KSI		
	0.032	
	Positive Bending	Negative Bending
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
M <sub>a</sub> <sup>+</sup> =	0.1268 ft-k/ft	0.2506 ft-k/ft
M <sub>a</sub> <sup>-</sup> =	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

0.032" Aluminum Inward (Positive) Pressure									
Load (psf)	Δ ≤ L/240			Δ ≤ L/180			Δ ≤ L/120		
	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"

0.032" Aluminum Outward (Negative) Pressure									
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	*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. (+) 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 by those qualified to assess these effects.