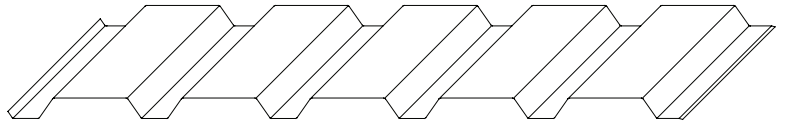


LOAD TABLES  
 20 ga. STEEL  
 ASTM A653  
 SS 50  
 39 3/8" COVERAGE

# PENUMWALL PANEL BWS391

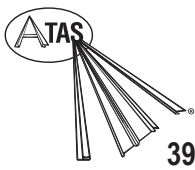


F <sub>y</sub> = 50 KSI		
20 Gauge		
	Top in Compression	Bottom in Compression
Y <sub>t</sub> =	0.4808 in	0.4808 in
Y <sub>b</sub> =	0.8073 in	0.8073 in
S <sub>t</sub> =	0.3461 in <sup>3</sup> /ft	0.3461 in <sup>3</sup> /ft
S <sub>b</sub> =	0.1929 in <sup>3</sup> /ft	0.1929 in <sup>3</sup> /ft
I=	0.1547 in <sup>4</sup> /ft	0.1547 in <sup>4</sup> /ft
M <sub>a</sub> =	249 ft-lb/ft	229 ft-lb/ft
P <sub>c,int</sub> =	1375 lb/ft	1375 lb/ft
P <sub>c,end</sub> =	865 lb/ft	865 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	*9'-11"	*13'-4"	*12'-4"	*10'-11"	13'-6"	*13'-7"	*12'-7"	13'-6"	15'-1"
15	*8'-8"	11'-0"	*10'-9"	*9'-7"	11'-0"	*11'-10"	*10'-11"	11'-0"	12'-4"
20	*7'-11"	9'-6"	*9'-9"	*8'-8"	9'-6"	10'-8"	9'-11"	9'-6"	10'-8"
25	*7'-4"	8'-6"	*9'-1"	*8'-1"	8'-6"	9'-6"	8'-11"	8'-6"	9'-6"
30	*6'-11"	7'-9"	*8'-6"	*7'-7"	7'-9"	8'-8"	8'-1"	7'-9"	8'-8"
35	*6'-6"	7'-2"	8'-0"	*7'-2"	7'-2"	8'-0"	7'-6"	7'-2"	8'-0"
40	*6'-3"	6'-9"	7'-6"	*6'-11"	6'-9"	7'-6"	7'-0"	6'-9"	7'-6"
45	*6'-0"	6'-4"	7'-1"	6'-7"	6'-4"	7'-1"	6'-7"	6'-4"	7'-1"
50	*5'-10"	6'-0"	6'-9"	6'-3"	6'-0"	6'-9"	6'-3"	6'-0"	6'-9"
55	*5'-7"	5'-9"	6'-5"	6'-0"	5'-9"	6'-5"	6'-0"	5'-9"	6'-5"
60	*5'-5"	5'-6"	6'-2"	5'-9"	5'-6"	5'-2"	5'-9"	5'-6"	5'-2"
65	*5'-4"	5'-3"	5'-11"	5'-6"	5'-3"	5'-11"	5'-6"	5'-3"	5'-11"
70	*5'-2"	5'-1"	5'-8"	5'-3"	5'-1"	5'-8"	5'-3"	5'-1"	5'-8"
75	*5'-1"	4'-11"	5'-6"	5'-1"	4'-11"	5'-6"	5'-1"	4'-11"	5'-6"
80	4'-11"	4'-9"	5'-4"	4'-11"	4'-9"	5'-4"	4'-11"	4'-9"	5'-4"
85	4'-10"	4'-7"	5'-2"	4'-10"	4'-7"	5'-2"	4'-10"	4'-7"	5'-2"
90	4'-8"	4'-6"	5'-0"	4'-8"	4'-6"	5'-0"	4'-8"	4'-6"	5'-0"
95	4'-6"	4'-4"	4'-10"	4'-6"	4'-4"	4'-10"	4'-6"	4'-4"	4'-10"
100	4'-2"	4'-3"	4'-9"	4'-2"	4'-3"	4'-9"	4'-2"	4'-3"	4'-9"

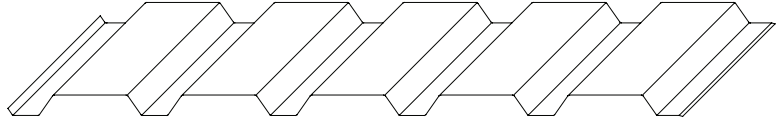
Load (psf)	Δ ≤ L/240 Deflection Criteria			Δ ≤ L/180 Deflection Criteria			Δ ≤ L/120 Deflection Criteria		
	Span Condition			Span Condition			Span Condition		
	Single	Double	Triple	Single	Double	Triple	Single	Double	Triple
10	*9'-11"	*13'-4"	*12'-4"	*10'-11"	14'-1"	*13'-7"	*12'-7"	14'-1"	*15'-6"
15	*8'-8"	11'-6"	*10'-9"	*9'-7"	11'-6"	*11'-10"	*10'-11"	11'-6"	12'-10"
20	*7'-11"	9'-11"	*9'-9"	*8'-8"	9'-11"	*10'-9"	9'-6"	9'-11"	11'-1"
25	*7'-4"	8'-11"	*9'-1"	*8'-1"	8'-11"	9'-11"	8'-6"	8'-11"	9'-11"
30	*6'-11"	8'-1"	*8'-6"	*7'-7"	8'-1"	9'-1"	7'-9"	8'-1"	9'-1"
35	*6'-6"	7'-6"	*8'-1"	7'-2"	7'-6"	8'-5"	7'-2"	7'-6"	8'-5"
40	*6'-3"	7'-0"	*7'-9"	6'-9"	7'-0"	7'-10"	6'-9"	7'-0"	7'-10"
45	*6'-0"	6'-7"	7'-5"	6'-4"	6'-7"	7'-5"	6'-4"	6'-7"	7'-5"
50	*5'-10"	6'-3"	7'-0"	6'-0"	6'-3"	7'-0"	6'-0"	6'-3"	7'-0"
55	*5'-7"	6'-0"	6'-8"	5'-9"	6'-0"	6'-8"	5'-9"	6'-0"	6'-8"
60	*5'-5"	5'-9"	6'-5"	5'-6"	5'-9"	6'-5"	5'-6"	5'-9"	6'-5"
65	5'-3"	5'-6"	6'-2"	5'-3"	5'-6"	6'-2"	5'-3"	5'-6"	6'-2"
70	5'-1"	5'-3"	5'-11"	5'-1"	5'-3"	5'-11"	5'-1"	5'-3"	5'-11"
75	4'-11"	5'-1"	5'-8"	4'-11"	5'-1"	5'-8"	4'-11"	5'-1"	5'-8"
80	4'-9"	4'-11"	5'-6"	4'-9"	4'-11"	5'-6"	4'-9"	4'-11"	5'-6"
85	4'-7"	4'-9"	5'-4"	4'-7"	4'-9"	5'-4"	4'-7"	4'-9"	5'-4"
90	4'-6"	4'-8"	5'-2"	4'-6"	4'-8"	5'-2"	4'-6"	4'-8"	5'-2"
95	4'-4"	4'-6"	5'-1"	4'-4"	4'-6"	5'-1"	4'-4"	4'-6"	5'-1"
100	4'-3"	4'-5"	4'-11"	4'-3"	4'-5"	4'-11"	4'-3"	4'-5"	4'-11"

- Notes:
1. Minimum 1.5" bearing assumed.
  2. Connection of panel to supporting structure not investigated.
  3. Minimum delivered thickness assumed to be 95% of design thickness.
  4. Span lengths indicated by \* are controlled by deflection.
  5. These Load tables conform to the 2007 edition of the AISI "North American Specification for the Design of Cold-Formed Steel Structural Members."
  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**  
**22 ga. STEEL**  
**ASTM A653**  
**SS 50**  
**39 3/8" COVERAGE**

# PENUMWALL PANEL BWS391

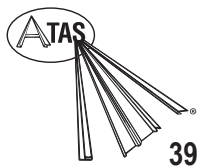


F <sub>y</sub> = 50 KSI		
22 Gauge		
	Top in Compression	Bottom in Compression
Y <sub>t</sub> =	0.4765 in	0.4765 in
Y <sub>b</sub> =	0.8031 in	0.8031 in
S <sub>t</sub> =	0.2696 in <sup>3</sup> /ft	0.2696 in <sup>3</sup> /ft
S <sub>b</sub> =	0.1500 in <sup>3</sup> /ft	0.1500 in <sup>3</sup> /ft
I=	0.1205 in <sup>4</sup> /ft	0.1205 in <sup>4</sup> /ft
M <sub>a</sub> =	162 ft-lb/ft	155 ft-lb/ft
P <sub>c,int</sub> =	863 lb/ft	863 lb/ft
P <sub>c,end</sub> =	547 lb/ft	547 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	*9'-2"	11'-1"	12'-5"	*10'-1"	11'-1"	12'-5"	11'-4"	11'-1"	12'-5"
15	*8'-0"	9'-1"	10'-1"	*8'-10"	9'-1"	10'-1"	9'-3"	9'-1"	10'-1"
20	*7'-3"	7'-10"	8'-9"	8'-0"	7'-10"	8'-9"	8'-0"	7'-10"	8'-9"
25	*6'-9"	7'-0"	7'-10"	7'-2"	7'-0"	7'-10"	7'-2"	7'-0"	7'-10"
30	*6'-4"	6'-5"	7'-2"	6'-6"	6'-5"	7'-2"	6'-6"	6'-5"	7'-2"
35	6'-0"	5'-11"	6'-7"	6'-0"	5'-11"	6'-7"	6'-0"	5'-11"	6'-7"
40	5'-8"	5'-6"	6'-2"	5'-8"	5'-6"	6'-2"	5'-8"	5'-6"	6'-2"
45	5'-4"	5'-2"	5'-10"	5'-4"	5'-2"	5'-10"	5'-4"	5'-2"	5'-10"
50	5'-1"	4'-11"	5'-6"	5'-1"	4'-11"	5'-6"	5'-1"	4'-11"	5'-6"
55	4'-10"	4'-8"	5'-3"	4'-10"	4'-8"	5'-3"	4'-10"	4'-8"	5'-3"
60	4'-7"	4'-6"	5'-0"	4'-7"	4'-6"	5'-0"	4'-7"	4'-6"	5'-0"
65	4'-5"	4'-4"	4'-10"	4'-5"	4'-4"	4'-10"	4'-5"	4'-4"	4'-10"
70	4'-3"	4'-2"	4'-8"	4'-3"	4'-2"	4'-8"	4'-3"	4'-2"	4'-8"
75	4'-1"	4'-0"	4'-6"	4'-1"	4'-0"	4'-6"	4'-1"	4'-0"	4'-6"
80	4'-0"	3'-11"	4'-4"	4'-0"	3'-11"	4'-4"	4'-0"	3'-11"	4'-4"
85	3'-10"	3'-9"	4'-3"	3'-10"	3'-9"	4'-3"	3'-10"	3'-9"	4'-3"
90	3'-9"	3'-8"	4'-1"	3'-9"	3'-8"	4'-1"	3'-9"	3'-8"	4'-1"
95	3'-8"	3'-7"	4'-0"	3'-8"	3'-7"	4'-0"	3'-8"	3'-7"	4'-0"
100	3'-7"	3'-6"	3'-11"	3'-7"	3'-6"	3'-11"	3'-7"	3'-6"	3'-11"

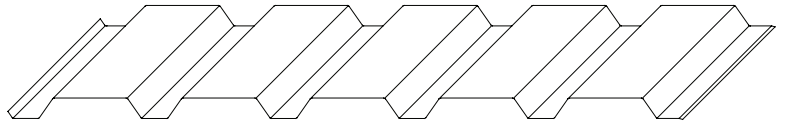
Load (psf)	Δ ≤ L/240 Deflection Criteria			Δ ≤ L/180 Deflection Criteria			Δ ≤ L/120 Deflection Criteria		
	Span Condition			Span Condition			Span Condition		
	Single	Double	Triple	Single	Double	Triple	Single	Double	Triple
10	*9'-2"	11'-4"	*11'-4"	*10'-1"	11'-4"	*12'-6"	11'-1"	11'-4"	12'-7"
15	*8'-0"	9'-3"	*9'-11"	*8'-10"	9'-3"	10'-4"	9'-1"	9'-3"	10'-4"
20	*7'-3"	8'-0"	8'-11"	7'-10"	8'-0"	8'-11"	7'-10"	8'-0"	8'-11"
25	*6'-9"	7'-2"	8'-0"	7'-0"	7'-2"	8'-0"	7'-0"	7'-2"	8'-0"
30	*6'-4"	6'-6"	7'-4"	6'-5"	6'-6"	7'-4"	6'-5"	6'-6"	7'-4"
35	5'-11"	6'-0"	6'-9"	5'-11"	6'-0"	6'-9"	5'-11"	6'-0"	6'-9"
40	5'-6"	5'-8"	6'-4"	5'-6"	5'-8"	6'-4"	5'-6"	5'-8"	6'-4"
45	5'-2"	5'-4"	5'-11"	5'-2"	5'-4"	5'-11"	5'-2"	5'-4"	5'-11"
50	4'-11"	5'-0"	5'-8"	4'-11"	5'-0"	5'-8"	4'-11"	5'-0"	5'-8"
55	4'-8"	4'-10"	5'-5"	4'-8"	4'-10"	5'-5"	4'-8"	4'-10"	5'-5"
60	4'-6"	4'-7"	5'-2"	4'-6"	4'-7"	5'-2"	4'-6"	4'-7"	5'-2"
65	4'-4"	4'-5"	4'-11"	4'-4"	4'-5"	4'-11"	4'-4"	4'-5"	4'-11"
70	4'-2"	4'-3"	4'-9"	4'-2"	4'-3"	4'-9"	4'-2"	4'-3"	4'-9"
75	4'-0"	4'-1"	4'-7"	4'-0"	4'-1"	4'-7"	4'-0"	4'-1"	4'-7"
80	3'-11"	4'-0"	4'-5"	3'-11"	4'-0"	4'-5"	3'-11"	4'-0"	4'-5"
85	3'-9"	3'-10"	4'-4"	3'-9"	3'-10"	4'-4"	3'-9"	3'-10"	4'-4"
90	3'-8"	3'-9"	4'-2"	3'-8"	3'-9"	4'-2"	3'-8"	3'-9"	4'-2"
95	3'-7"	3'-8"	4'-1"	3'-7"	3'-8"	4'-1"	3'-7"	3'-8"	4'-1"
100	3'-6"	3'-7"	4'-0"	3'-6"	3'-7"	4'-0"	3'-6"	3'-7"	4'-0"

- Notes:
1. Minimum 1.5" bearing assumed.
  2. Connection of panel to supporting structure not investigated.
  3. Minimum delivered thickness assumed to be 95% of design thickness.
  4. Span lengths indicated by \* are controlled by deflection.
  5. These Load tables conform to the 2007 edition of the AISI "North American Specification for the Design of Cold-Formed Steel Structural Members."
  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  
 24 ga. STEEL  
 ASTM A653  
 SS 50  
 39 3/8" COVERAGE

# PENUMWALL PANEL BWS391



F <sub>y</sub> = 50 KSI		
24 Gauge		
	Top in Compression	Bottom in Compression
Y <sub>t</sub> =	0.4734 in	0.4734 in
Y <sub>b</sub> =	0.7999 in	0.7999 in
S <sub>t</sub> =	0.2107 in <sup>3</sup> /ft	0.2107 in <sup>3</sup> /ft
S <sub>b</sub> =	0.1186 in <sup>3</sup> /ft	0.1186 in <sup>3</sup> /ft
I=	0.0949 in <sup>4</sup> /ft	0.0949 in <sup>4</sup> /ft
M <sub>a</sub> =	107 ft-lb/ft	102 ft-lb/ft
P <sub>c,int</sub> =	555 lb/ft	555 lb/ft
P <sub>c,end</sub> =	353 lb/ft	353 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	*8'-5"	9'-0"	10'-1"	9'-2"	9'-0"	10'-1"	9'-2"	9'-0"	10'-1"
15	*7'-4"	7'-3"	8'-2"	7'-6"	7'-3"	8'-2"	7'-6"	7'-3"	8'-2"
20	6'-6"	6'-4"	7'-1"	6'-6"	6'-4"	7'-1"	6'-6"	6'-4"	7'-1"
25	5'-10"	5'-8"	6'-4"	5'-10"	5'-8"	6'-4"	5'-10"	5'-8"	6'-4"
30	5'-4"	5'-2"	5'-9"	5'-4"	5'-2"	5'-9"	5'-4"	5'-2"	5'-9"
35	4'-11"	4'-9"	5'-4"	4'-11"	4'-9"	5'-4"	4'-11"	4'-9"	5'-4"
40	4'-7"	4'-6"	5'-0"	4'-7"	4'-6"	5'-0"	4'-7"	4'-6"	5'-0"
45	4'-4"	4'-3"	4'-9"	4'-4"	4'-3"	4'-9"	4'-4"	4'-3"	4'-9"
50	4'-1"	4'-0"	4'-6"	4'-1"	4'-0"	4'-6"	4'-1"	4'-0"	4'-6"
55	3'-11"	3'-10"	4'-3"	3'-11"	3'-10"	4'-3"	3'-11"	3'-10"	4'-3"
60	3'-9"	3'-8"	4'-1"	3'-9"	3'-8"	4'-1"	3'-9"	3'-8"	4'-1"
65	3'-7"	3'-6"	3'-11"	3'-7"	3'-6"	3'-11"	3'-7"	3'-6"	3'-11"
70	3'-5"	3'-4"	3'-9"	3'-5"	3'-4"	3'-9"	3'-5"	3'-4"	3'-9"
75	3'-4"	3'-3"	3'-8"	3'-4"	3'-3"	3'-8"	3'-4"	3'-3"	3'-8"
80	3'-3"	3'-2"	3'-6"	3'-3"	3'-2"	3'-6"	3'-3"	3'-2"	3'-6"
85	3'-2"	3'-1"	3'-5"	3'-2"	3'-1"	3'-5"	3'-2"	3'-1"	3'-5"
90	3'-0"	3'-0"	3'-4"	3'-0"	3'-0"	3'-4"	3'-0"	3'-0"	3'-4"
95	3'-0"	2'-11"	3'-3"	3'-0"	2'-11"	3'-3"	3'-0"	2'-11"	3'-3"
100	2'-11"	2'-10"	3'-2"	2'-11"	2'-10"	3'-2"	2'-11"	2'-10"	3'-2"

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	*8'-5"	9'-2"	10'-4"	8'-6"	9'-2"	10'-4"	8'-6"	9'-2"	10'-4"
15	7'-4"	7'-6"	8'-5"	7'-4"	7'-6"	8'-5"	7'-4"	7'-6"	8'-5"
20	6'-4"	6'-6"	7'-3"	6'-4"	6'-6"	7'-3"	6'-4"	6'-6"	7'-3"
25	5'-8"	5'-10"	6'-6"	5'-8"	5'-10"	6'-6"	5'-8"	5'-10"	6'-6"
30	5'-2"	5'-4"	5'-11"	5'-2"	5'-4"	5'-11"	5'-2"	5'-4"	5'-11"
35	4'-9"	4'-11"	5'-6"	4'-9"	4'-11"	5'-6"	4'-9"	4'-11"	5'-6"
40	4'-6"	4'-7"	5'-1"	4'-6"	4'-7"	5'-1"	4'-6"	4'-7"	5'-1"
45	4'-3"	4'-4"	4'-10"	4'-3"	4'-4"	4'-10"	4'-3"	4'-4"	4'-10"
50	4'-0"	4'-1"	4'-7"	4'-0"	4'-1"	4'-7"	4'-0"	4'-1"	4'-7"
55	3'-10"	3'-11"	4'-4"	3'-10"	3'-11"	4'-4"	3'-10"	3'-11"	4'-4"
60	3'-8"	3'-9"	4'-2"	3'-8"	3'-9"	4'-2"	3'-8"	3'-9"	4'-2"
65	3'-6"	3'-7"	4'-0"	3'-6"	3'-7"	4'-0"	3'-6"	3'-7"	4'-0"
70	3'-4"	3'-5"	3'-10"	3'-4"	3'-5"	3'-10"	3'-4"	3'-5"	3'-10"
75	3'-3"	3'-4"	3'-9"	3'-3"	3'-4"	3'-9"	3'-3"	3'-4"	3'-9"
80	3'-2"	3'-3"	3'-7"	3'-2"	3'-3"	3'-7"	3'-2"	3'-3"	3'-7"
85	3'-1"	3'-1"	3'-6"	3'-1"	3'-1"	3'-6"	3'-1"	3'-1"	3'-6"
90	3'-0"	3'-0"	3'-5"	3'-0"	3'-0"	3'-5"	3'-0"	3'-0"	3'-5"
95	2'-11"	2'-11"	3'-4"	2'-11"	2'-11"	3'-4"	2'-11"	2'-11"	3'-4"
100	2'-10"	2'-10"	3'-3"	2'-10"	2'-10"	3'-3"	2'-10"	2'-10"	3'-3"

- Notes:
1. Minimum 1.5" bearing assumed.
  2. Connection of panel to supporting structure not investigated.
  3. Minimum delivered thickness assumed to be 95% of design thickness.
  4. Span lengths indicated by \* are controlled by deflection.
  5. These Load tables conform to the 2007 edition of the AISI "North American Specification for the Design of Cold-Formed Steel Structural Members."
  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.