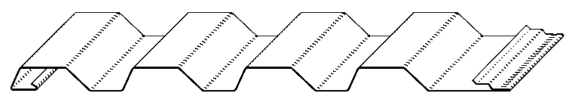
Engineering Technical Bulletin

May 2009

LOAD TABLES
STEEL
ASTM A653
SS 50
16" COVERAGE

RMP - RIGIDIZED



.032 POSITIVE BENDING	FTY=17KSI NEGATIVE BENDING
Yt= 0.39308 in Yb= 0.46492 in St= 0.128565 in^3/ft Sb= 0.108699 in^3/ft I= 0.050536 in^4/ft Ma^+= 0.121 ft-k/ft Ma^-= 0.071 ft-k/ft $P_{c, int}$= 499 lb/ft $P_{c, end}$= 243 lb/ft	Yt= 0.39308 in Yb= 0.46492 in St= 0.128565 in^3/ft Sb= 0.108699 in^3/ft I= 0.050536 in^4/ft Ma^+= 0.144 ft-k/ft Ma^-= 0.073 ft-k/ft $P_{c,int}$= 499 lb/ft $P_{c,end}$= 243 lb/ft

Inward and Outward Pressure									
	Δ ≤L/240			Δ≤L/180			Δ≤L/120		
Load (psf)	Single Span	Double Span	Three Span	Single Span	Double Span	Three Span	Single Span	Double Span	Three Span
10	*4'-10"	*6'-5"	*5'-11"	*5'-3"	*7'-1"	*6'-6"	*6'-1"	7'-3"	*7'-6"
15	*4'-2"	*5'-7"	*5'-2"	*4'-7"	5'-11"	*5'-9"	*5'-3"	5'-11"	*6'-6"
20	*3'-10"	5'-1"	*4'-8"	*4'-2"	5'-1"	*5'-2"	*4'-10"	5'-1"	5'-8"
25	*3'-6"	4'-6"	*4'-4"	*3'-11"	4'-6"	*4'-10"	*4'-5"	4'-6"	5'-0"
30	*3'-4"	4'-1"	*4'-1"	*3'-8"	4'-1"	*4'-6"	*4'-2"	4'-1"	4'-6"
35	*3'-2"	3'-9"	*3'-11"	*3'-6"	3'-9"	4'-2"	4'-0"	3'-9"	4'-2"
40	*3'-0"	3'-5"	*3'-9"	*3'-4"	3'-5"	3'-10"	3'-9"	3'-5"	3'-10"
45	*2'-11"	3'-3"	3'-7"	*3'-2"	3'-3"	3'-7"	3'-6"	3'-3"	3'-7"
50	*2'-9"	3'-0"	3'-5"	*3'-1"	3'-0"	3'-5"	3'-4"	3'-0"	3'-5"
55	*2'-8"	2'-10"	3'-3"	*3'-0"	2'-10"	3'-3"	3'-2"	2'-10"	3'-3"
60	*2'-7"	2'-9"	3'-1"	*2'-11"	2'-9"	3'-1"	3'-0"	2'-9"	3'-1"
65	*2'-7"	2'-7"	2'-11"	*2'-10"	2'-7"	2-11"	2'-11"	2'-7"	2'-11"
70	*2'-6"	2'-6"	2'-10"	*2'-9"	2'-6"	2'-10"	2'-10"	2'-6"	2'-10"
75	*2'-5"	2'-5"	2'-8"	*2'-8"	2'-5"	2'-8"	2'-9"	2'-5"	2'-8"
80	*2'-5"	2'-4"	2'-7"	2'-7"	2'-4"	2'-7"	2'-7"	2'-4"	2'-7"
85	*2'-4"	2'-2"	2'-6"	2'-7"	2'-3"	2'-6"	2'-7"	2'-3"	2'-6"
90	*2'-3"	2'-2"	2'-5"	2'-6"	2'-2"	2'-5"	2'-6"	2'-2"	2'-5"
95	*2'-3"	2'-1"	2'-4"	2'-5"	2'-1"	2'-4"	2'-5"	2'-1"	2'-4"
100	*2'-2"	2'-0"	2'-3"	2'-4"	2'-0"	2'-3"	2'-4"	2'-0"	2'-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. (+) 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 only by those qualified to assess these effects.