



LOAD TABLES
STEEL
ASTM A653
SS 40
0.021" GAUGE

MULTI-PURPOSE PANEL MPV127 & MPV167

L/180 DEFLECTION CRITERIA MPV127 12" COVERAGE FY=40KSI							L/240 DEFLECTION CRITERIA MPV127 12" COVERAGE FY=40KSI						
POSITIVE BENDING Yt= 0.827 in. S= 0.047 cubic in./ft. (bend.) I= 0.043 in. ⁴ /ft. (defl.)				NEGATIVE BENDING Yt= 0.379 in. S= 0.021 cubic in./ft. (bend.) I= 0.020 in. ⁴ /ft. (defl.)			POSITIVE BENDING Yt= 0.827 in. S= 0.047 cubic in./ft. (bend.) I= 0.043 in. ⁴ /ft. (defl.)				NEGATIVE BENDING Yt= 0.379 in. S= 0.021 cubic in./ft. (bend.) I= 0.020 in. ⁴ /ft. (defl.)		
LOAD (PSF)	DOWNWARD LOAD			UPWARD LOAD			LOAD (PSF)	DOWNWARD LOAD			UPWARD LOAD		
	SINGLE SPAN	DOUBLE SPAN	THREE SPAN	SINGLE SPAN	DOUBLE SPAN	THREE SPAN		SINGLE SPAN	DOUBLE SPAN	THREE SPAN	SINGLE SPAN	DOUBLE SPAN	THREE SPAN
10	* 7'- 2"	5'- 9"	6'- 5"	* 5'- 7"	* 7'- 5"	* 6'- 10"	10	* 6'- 6"	5'- 9"	6'- 5"	* 5'- 0"	* 6'- 9"	* 6'- 3"
15	* 6'- 3"	4'- 8"	5'- 3"	4'- 8"	6'- 3"	5'- 9"	15	* 5'- 8"	4'- 8"	5'- 3"	* 4'- 5"	* 5'- 11"	* 5'- 5"
20	* 5'- 8"	4'- 1"	4'- 6"	4'- 1"	5'- 5"	5'- 0"	20	* 5'- 2"	4'- 1"	4'- 6"	* 4'- 0"	* 5'- 4"	* 4'- 11"
25	* 5'- 3"	3'- 7"	4'- 1"	3'- 7"	4'- 10"	4'- 5"	25	* 4'- 9"	3'- 7"	4'- 1"	3'- 7"	4'- 10"	4'- 5"
30	* 5'- 0"	3'- 4"	3'- 8"	3'- 4"	4'- 5"	4'- 1"	30	* 4'- 6"	3'- 4"	3'- 8"	3'- 4"	4'- 5"	4'- 1"
35	4'- 7"	3'- 1"	3'- 5"	3'- 1"	4'- 1"	3'- 9"	35	* 4'- 3"	3'- 1"	3'- 5"	3'- 1"	4'- 1"	3'- 9"
40	4'- 4"	2'- 10"	3'- 2"	2'- 10"	3'- 10"	3'- 6"	40	* 4'- 1"	2'- 10"	3'- 2"	2'- 10"	3'- 10"	3'- 6"
45	4'- 1"	2'- 8"	3'- 0"	2'- 8"	3'- 7"	3'- 4"	45	* 3'- 11"	2'- 8"	3'- 0"	2'- 8"	3'- 7"	3'- 4"
50	3'- 10"	2'- 7"	2'- 10"	2'- 7"	3'- 5"	3'- 2"	50	* 3'- 10"	2'- 7"	2'- 10"	2'- 7"	3'- 5"	3'- 2"
55	3'- 8"	2'- 5"	2'- 9"	2'- 5"	3'- 3"	3'- 0"	55	3'- 8"	2'- 5"	2'- 9"	2'- 5"	3'- 3"	3'- 0"
60	3'- 6"	2'- 4"	2'- 7"	2'- 4"	3'- 1"	2'- 10"	60	3'- 6"	2'- 4"	2'- 7"	2'- 4"	3'- 1"	2'- 10"
65	3'- 4"	2'- 3"	2'- 6"	2'- 3"	3'- 0"	2'- 9"	65	3'- 4"	2'- 3"	2'- 6"	2'- 3"	3'- 0"	2'- 9"
70	3'- 3"	2'- 2"	2'- 5"	2'- 2"	2'- 11"	2'- 8"	70	3'- 3"	2'- 2"	2'- 5"	2'- 2"	2'- 11"	2'- 8"
L/180 DEFLECTION CRITERIA MPV167 16" COVERAGE FY=40KSI							L/240 DEFLECTION CRITERIA MPV167 16" COVERAGE FY=40KSI						
POSITIVE BENDING Yt= 0.961 in. S= 0.038 cubic in./ft. (bend.) I= 0.042 in. ⁴ /ft. (defl.)				NEGATIVE BENDING Yt= 0.379 in. S= 0.037 cubic in./ft. (bend.) I= 0.014 in. ⁴ /ft. (defl.)			POSITIVE BENDING Yt= 0.961 in. S= 0.038 cubic in./ft. (bend.) I= 0.042 in. ⁴ /ft. (defl.)				NEGATIVE BENDING Yt= 0.379 in. S= 0.037 cubic in./ft. (bend.) I= 0.014 in. ⁴ /ft. (defl.)		
LOAD (PSF)	DOWNWARD LOAD			UPWARD LOAD			LOAD (PSF)	DOWNWARD LOAD			UPWARD LOAD		
	SINGLE SPAN	DOUBLE SPAN	THREE SPAN	SINGLE SPAN	DOUBLE SPAN	THREE SPAN		SINGLE SPAN	DOUBLE SPAN	THREE SPAN	SINGLE SPAN	DOUBLE SPAN	THREE SPAN
10	* 7'- 1"	7'- 8"	8'- 6"	* 4'- 11"	* 6'- 8"	* 6'- 2"	10	* 6'- 6"	7'- 8"	* 8'- 0"	* 4'- 6"	* 6'- 0"	* 5'- 7"
15	* 6'- 3"	6'- 3"	7'- 0"	* 4'- 4"	* 5'- 10"	* 5'- 4"	15	* 5'- 8"	6'- 3"	7'- 0"	* 3'- 11"	* 5'- 3"	* 4'- 10"
20	5'- 6"	5'- 5"	6'- 0"	* 3'- 11"	* 5'- 3"	* 4'- 10"	20	* 5'- 1"	5'- 5"	6'- 0"	* 3'- 7"	* 4'- 9"	* 4'- 5"
25	4'- 11"	4'- 10"	5'- 5"	* 3'- 8"	* 4'- 11"	* 4'- 6"	25	* 4'- 9"	4'- 10"	5'- 5"	* 3'- 4"	* 4'- 5"	* 4'- 1"
30	4'- 6"	4'- 5"	4'- 11"	* 3'- 5"	4'- 6"	* 4'- 3"	30	* 4'- 6"	4'- 5"	4'- 11"	* 3'- 1"	* 4'- 2"	* 3'- 10"
35	4'- 2"	4'- 1"	4'- 6"	* 3'- 3"	4'- 2"	* 4'- 0"	35	4'- 2"	4'- 1"	4'- 6"	* 2'- 11"	* 4'- 0"	* 3'- 8"
40	3'- 10"	3'- 10"	4'- 3"	* 3'- 1"	3'- 10"	* 3'- 10"	40	3'- 10"	3'- 10"	4'- 3"	* 2'- 10"	* 3'- 9"	* 3'- 6"
45	3'- 8"	3'- 7"	4'- 0"	* 3'- 0"	3'- 8"	* 3'- 8"	45	3'- 8"	3'- 7"	4'- 0"	* 2'- 8"	* 3'- 8"	* 3'- 4"
50	3'- 5"	3'- 5"	3'- 10"	* 2'- 11"	3'- 5"	* 3'- 7"	50	3'- 5"	3'- 5"	3'- 10"	* 2'- 7"	3'- 5"	* 3'- 3"
55	3'- 4"	3'- 3"	3'- 7"	* 2'- 9"	3'- 4"	* 3'- 5"	55	3'- 4"	3'- 3"	3'- 7"	* 2'- 6"	3'- 4"	* 3'- 2"
60	3'- 2"	3'- 1"	3'- 6"	* 2'- 8"	3'- 2"	* 3'- 4"	60	3'- 2"	3'- 1"	3'- 6"	* 2'- 5"	3'- 2"	* 3'- 1"
65	3'- 0"	3'- 0"	3'- 4"	* 2'- 8"	3'- 0"	* 3'- 3"	65	3'- 0"	3'- 0"	3'- 4"	* 2'- 5"	3'- 0"	* 3'- 0"
70	2'- 11"	2'- 10"	3'- 2"	* 2'- 7"	2'- 11"	* 3'- 2"	70	2'- 11"	2'- 10"	3'- 2"	* 2'- 4"	2'- 11"	* 2'- 11"

- Notes:
1. * Indicates maximum span controlled by deflection.
 2. All loads are applied perpendicular to surface of panel.
 3. No increase for wind loading has been assumed.
 4. 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.
 5. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.