

LOAD TABLES

ALUMINUM
3003-H16

L/120 DEFLECTION

CRITERIA

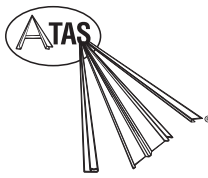
MULTI-PURPOSE PANEL
MPV125 & MPV165

12" COVERAGE MPV125 GAUGE .032							16" COVERAGE MPV165 GAUGE .032						
AREA= 0.43170 in. ² /ft			St= 0.12961 cubic in./ft. (bend.)				AREA= 0.41527 in. ² /ft			St= 0.10457 cubic in./ft. (bend.)			
Yt= 0.73843 in.			Sb= 0.19895 cubic in./ft. (bend.)				Yt= 0.84443 in.			Sb= 0.23542 cubic in./ft. (bend.)			
Yb= 0.48107 in.			I= 0.09571 in. ⁴ /ft. (defl.)				Yb= 0.37507 in.			I= 0.08830 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	* 6'- 1"	* 5'- 1"	* 5'- 8"	* 5'- 1"	* 6'- 1"	* 6'- 4"	10	* 5'- 6"	* 4'- 3"	* 4'- 9"	* 4'- 3"	* 5'- 6"	* 5'- 4"
15	* 5'- 0"	* 4'- 2"	* 4'- 7"	* 4'- 2"	* 5'- 0"	* 5'- 2"	15	* 4'- 6"	* 3'- 6"	* 3'- 10"	* 3'- 6"	* 4'- 6"	* 4'- 4"
20	* 4'- 4"	* 3'- 7"	* 4'- 0"	* 3'- 7"	* 4'- 4"	* 4'- 6"	20	* 3'- 10"	* 3'- 0"	* 3'- 4"	* 3'- 0"	* 3'- 10"	* 3'- 9"
25	* 3'- 10"	* 3'- 2"	* 3'- 7"	* 3'- 2"	* 3'- 10"	* 4'- 0"	25	* 3'- 5"	* 2'- 8"	* 3'- 0"	* 2'- 8"	* 3'- 5"	* 3'- 4"
30	* 3'- 6"	* 2'- 11"	* 3'- 3"	* 2'- 11"	* 3'- 6"	* 3'- 8"	30	* 3'- 2"	* 2'- 5"	* 2'- 9"	* 2'- 5"	* 3'- 2"	* 3'- 1"
35	* 3'- 3"	* 2'- 8"	* 3'- 0"	* 2'- 8"	* 3'- 3"	* 3'- 4"	35	* 2'- 11"	* 2'- 3"	* 2'- 6"	* 2'- 3"	* 2'- 11"	* 2'- 10"
40	* 3'- 0"	* 2'- 6"	* 2'- 10"	* 2'- 6"	* 3'- 0"	* 3'- 2"	40	* 2'- 9"	* 2'- 1"	* 2'- 4"	* 2'- 1"	* 2'- 9"	* 2'- 8"
45	* 2'- 10"	* 2'- 4"	* 2'- 8"	* 2'- 4"	* 2'- 10"	* 3'- 0"	45	* 2'- 7"	* 2'- 0"	* 2'- 3"	* 2'- 0"	* 2'- 7"	* 2'- 6"
50	* 2'- 8"	* 2'- 3"	* 2'- 6"	* 2'- 3"	* 2'- 8"	* 2'- 10"	50	* 2'- 5"	* 1'- 11"	* 2'- 1"	* 1'- 11"	* 2'- 5"	* 2'- 4"
55	* 2'- 7"	* 2'- 2"	* 2'- 5"	* 2'- 2"	* 2'- 7"	* 2'- 8"	55	* 2'- 4"	* 1'- 9"	* 2'- 0"	* 1'- 9"	* 2'- 4"	* 2'- 3"
60	* 2'- 6"	* 2'- 1"	* 2'- 3"	* 2'- 1"	* 2'- 6"	* 2'- 7"	60	* 2'- 3"	* 1'- 9"	* 1'- 11"	* 1'- 9"	* 2'- 3"	* 2'- 2"
65	* 2'- 4"	* 2'- 0"	* 2'- 2"	* 2'- 0"	* 2'- 4"	* 2'- 6"	65	* 2'- 1"	* 1'- 8"	* 1'- 10"	* 1'- 8"	* 2'- 1"	* 2'- 1"
70	* 2'- 3"	* 1'- 11"	* 2'- 1"	* 1'- 11"	* 2'- 3"	* 2'- 4"	70	* 2'- 1"	* 1'- 7"	* 1'- 9"	* 1'- 7"	* 2'- 1"	* 2'- 0"

12" COVERAGE MPV125 GAUGE .040							16" COVERAGE MPV165 GAUGE .040						
AREA= 0.54422 in. ² /ft			St= 0.16178 cubic in./ft. (bend.)				AREA= 0.52367 in. ² /ft			St= 0.13052 cubic in./ft. (bend.)			
Yt= 0.73479 in.			Sb= 0.24936 cubic in./ft. (bend.)				Yt= 0.83993 in.			Sb= 0.29504 cubic in./ft. (bend.)			
Yb= 0.47671 in.			I= 0.11887 in. ⁴ /ft. (defl.)				Yb= 0.37157 in.			I= 0.10963 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'- 8"	* 6'- 5"	* 7'- 2"	* 6'- 5"	* 7'- 8"	* 8'- 0"	10	* 6'- 11"	* 5'- 4"	* 6'- 0"	* 5'- 4"	* 6'- 11"	* 6'- 8"
15	* 6'- 3"	* 5'- 2"	* 5'- 10"	* 5'- 2"	* 6'- 3"	* 6'- 6"	15	* 5'- 7"	* 4'- 4"	* 4'- 11"	* 4'- 4"	* 5'- 7"	* 5'- 6"
20	* 5'- 5"	* 4'- 6"	* 5'- 0"	* 4'- 6"	* 5'- 5"	* 5'- 8"	20	* 4'- 10"	* 3'- 9"	* 4'- 3"	* 3'- 9"	* 4'- 10"	* 4'- 9"
25	* 4'- 10"	* 4'- 0"	* 4'- 6"	* 4'- 0"	* 4'- 10"	* 5'- 0"	25	* 4'- 4"	* 3'- 4"	* 3'- 9"	* 3'- 4"	* 4'- 4"	* 4'- 3"
30	* 4'- 5"	* 3'- 8"	* 4'- 1"	* 3'- 8"	* 4'- 5"	* 4'- 7"	30	* 3'- 11"	* 3'- 1"	* 3'- 5"	* 3'- 1"	* 3'- 11"	* 3'- 10"
35	* 4'- 1"	* 3'- 5"	* 3'- 10"	* 3'- 5"	* 4'- 1"	* 4'- 3"	35	* 3'- 8"	* 2'- 10"	* 3'- 2"	* 2'- 10"	* 3'- 8"	* 3'- 7"
40	* 3'- 10"	* 3'- 2"	* 3'- 7"	* 3'- 2"	* 3'- 10"	* 4'- 0"	40	* 3'- 5"	* 2'- 8"	* 3'- 0"	* 2'- 8"	* 3'- 5"	* 3'- 4"
45	* 3'- 7"	* 3'- 0"	* 3'- 4"	* 3'- 0"	* 3'- 7"	* 3'- 9"	45	* 3'- 3"	* 2'- 6"	* 2'- 10"	* 2'- 6"	* 3'- 3"	* 3'- 2"
50	* 3'- 5"	* 2'- 10"	* 3'- 2"	* 2'- 10"	* 3'- 5"	* 3'- 7"	50	* 3'- 1"	* 2'- 4"	* 2'- 8"	* 2'- 4"	* 3'- 1"	* 3'- 0"
55	* 3'- 3"	* 2'- 8"	* 3'- 0"	* 2'- 8"	* 3'- 3"	* 3'- 5"	55	* 2'- 11"	* 2'- 3"	* 2'- 6"	* 2'- 3"	* 2'- 11"	* 2'- 10"
60	* 3'- 1"	* 2'- 7"	* 2'- 11"	* 2'- 7"	* 3'- 1"	* 3'- 3"	60	* 2'- 9"	* 2'- 2"	* 2'- 5"	* 2'- 2"	* 2'- 9"	* 2'- 9"
65	* 3'- 0"	* 2'- 6"	* 2'- 9"	* 2'- 6"	* 3'- 0"	* 3'- 1"	65	* 2'- 8"	* 2'- 1"	* 2'- 4"	* 2'- 1"	* 2'- 8"	* 2'- 7"
70	* 2'- 10"	* 2'- 5"	* 2'- 8"	* 2'- 5"	* 2'- 10"	* 3'- 0"	70	* 2'- 7"	* 2'- 0"	* 2'- 3"	* 2'- 0"	* 2'- 7"	* 2'- 6"

Notes:

1. * Indicates maximum span controlled by stress.
2. All loads are applied perpendicular to surface of panel.
3. All computations have been made in accordance with the Aluminum Association's *Specifications for Aluminum Structures*.
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.



LOAD TABLES

ALUMINUM
3003-H16

L/120 DEFLECTION

CRITERIA

MULTI-PURPOSE PANEL
MPV127 & MPV167

12" COVERAGE MPV127							16" COVERAGE MPV167						
GAUGE .032							GAUGE .032						
AREA= 0.43091 in. ² /ft			St= 0.14815 cubic in./ft. (bend.)				AREA= 0.41468 in. ² /ft			St= 0.12744 cubic in./ft. (bend.)			
Yt= 0.60209 in.			Sb= 0.14448 cubic in./ft. (bend.)				Yt= 0.73832 in.			Sb= 0.19554 cubic in./ft. (bend.)			
Yb= 0.61741 in.			I= 0.08920 in. ⁴ /ft. (defl.)				Yb= 0.48118 in.			I= 0.09409 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	* 5'- 7"	* 5'- 4"	* 5'- 11"	* 5'- 4"	* 5'- 7"	* 6'- 3"	10	* 5'- 2"	* 4'- 4"	* 4'- 10"	* 4'- 4"	* 5'- 2"	* 5'- 5"
15	* 4'- 6"	* 4'- 4"	* 4'- 10"	* 4'- 4"	* 4'- 6"	* 5'- 1"	15	* 4'- 2"	* 3'- 6"	* 3'- 11"	* 3'- 6"	* 4'- 2"	* 4'- 5"
20	* 3'- 11"	* 3'- 9"	* 4'- 2"	* 3'- 9"	* 3'- 11"	* 4'- 5"	20	* 3'- 8"	* 3'- 1"	* 3'- 5"	* 3'- 1"	* 3'- 8"	* 3'- 10"
25	* 3'- 6"	* 3'- 4"	* 3'- 9"	* 3'- 4"	* 3'- 6"	* 3'- 11"	25	* 3'- 3"	* 2'- 9"	* 3'- 1"	* 2'- 9"	* 3'- 3"	* 3'- 5"
30	* 3'- 2"	* 3'- 1"	* 3'- 5"	* 3'- 1"	* 3'- 2"	* 3'- 7"	30	* 3'- 0"	* 2'- 6"	* 2'- 9"	* 2'- 6"	* 3'- 0"	* 3'- 1"
35	* 2'- 11"	* 2'- 10"	* 3'- 2"	* 2'- 10"	* 2'- 11"	* 3'- 4"	35	* 2'- 9"	* 2'- 4"	* 2'- 7"	* 2'- 4"	* 2'- 9"	* 2'- 11"
40	* 2'- 9"	* 2'- 8"	* 2'- 11"	* 2'- 8"	* 2'- 9"	* 3'- 1"	40	* 2'- 7"	* 2'- 2"	* 2'- 5"	* 2'- 2"	* 2'- 7"	* 2'- 8"
45	* 2'- 7"	* 2'- 6"	* 2'- 9"	* 2'- 6"	* 2'- 7"	* 2'- 11"	45	* 2'- 5"	* 2'- 0"	* 2'- 3"	* 2'- 0"	* 2'- 5"	* 2'- 6"
50	* 2'- 6"	* 2'- 4"	* 2'- 8"	* 2'- 4"	* 2'- 6"	* 2'- 9"	50	* 2'- 3"	* 1'- 11"	* 2'- 2"	* 1'- 11"	* 2'- 3"	* 2'- 5"
55	* 2'- 4"	* 2'- 3"	* 2'- 6"	* 2'- 3"	* 2'- 4"	* 2'- 8"	55	* 2'- 2"	* 1'- 10"	* 2'- 1"	* 1'- 10"	* 2'- 2"	* 2'- 3"
60	* 2'- 3"	* 2'- 2"	* 2'- 5"	* 2'- 2"	* 2'- 3"	* 2'- 6"	60	* 2'- 1"	* 1'- 9"	* 1'- 11"	* 1'- 9"	* 2'- 1"	* 2'- 2"
65	* 2'- 2"	* 2'- 1"	* 2'- 4"	* 2'- 1"	* 2'- 2"	* 2'- 5"	65	* 2'- 0"	* 1'- 8"	* 1'- 11"	* 1'- 8"	* 2'- 0"	* 2'- 1"
70	* 2'- 1"	* 2'- 0"	* 2'- 3"	* 2'- 0"	* 2'- 1"	* 2'- 4"	70	* 1'- 11"	* 1'- 7"	* 1'- 10"	* 1'- 7"	* 1'- 11"	* 2'- 0"
12" COVERAGE MPV127							16" COVERAGE MPV167						
GAUGE .040							GAUGE .040						
AREA= 0.54322 in. ² /ft			St= 0.18496 cubic in./ft. (bend.)				AREA= 0.52291 in. ² /ft			St= 0.15910 cubic in./ft. (bend.)			
Yt= 0.59939 in.			Sb= 0.18111 cubic in./ft. (bend.)				Yt= 0.73459 in.			Sb= 0.24507 cubic in./ft. (bend.)			
Yb= 0.61211 in.			I= 0.11086 in. ⁴ /ft. (defl.)				Yb= 0.47691 in.			I= 0.11688 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'- 0"	* 6'- 8"	* 7'- 6"	* 6'- 8"	* 7'- 0"	* 7'- 10"	10	* 6'- 6"	* 5'- 5"	* 6'- 1"	* 5'- 5"	* 6'- 6"	* 6'- 10"
15	* 5'- 8"	* 5'- 5"	* 6'- 1"	* 5'- 5"	* 5'- 8"	* 6'- 5"	15	* 5'- 3"	* 4'- 5"	* 5'- 0"	* 4'- 5"	* 5'- 3"	* 5'- 7"
20	* 4'- 11"	* 4'- 9"	* 5'- 3"	* 4'- 9"	* 4'- 11"	* 5'- 6"	20	* 4'- 7"	* 3'- 10"	* 4'- 4"	* 3'- 10"	* 4'- 7"	* 4'- 10"
25	* 4'- 5"	* 4'- 3"	* 4'- 9"	* 4'- 3"	* 4'- 5"	* 4'- 11"	25	* 4'- 1"	* 3'- 5"	* 3'- 10"	* 3'- 5"	* 4'- 1"	* 4'- 4"
30	* 4'- 0"	* 3'- 10"	* 4'- 4"	* 3'- 10"	* 4'- 0"	* 4'- 6"	30	* 3'- 9"	* 3'- 2"	* 3'- 6"	* 3'- 2"	* 3'- 9"	* 3'- 11"
35	* 3'- 9"	* 3'- 7"	* 4'- 0"	* 3'- 7"	* 3'- 9"	* 4'- 2"	35	* 3'- 5"	* 2'- 11"	* 3'- 3"	* 2'- 11"	* 3'- 5"	* 3'- 8"
40	* 3'- 6"	* 3'- 4"	* 3'- 9"	* 3'- 4"	* 3'- 6"	* 3'- 11"	40	* 3'- 3"	* 2'- 8"	* 3'- 0"	* 2'- 8"	* 3'- 3"	* 3'- 5"
45	* 3'- 3"	* 3'- 2"	* 3'- 6"	* 3'- 2"	* 3'- 3"	* 3'- 8"	45	* 3'- 0"	* 2'- 7"	* 2'- 10"	* 2'- 7"	* 3'- 0"	* 3'- 2"
50	* 3'- 1"	* 3'- 0"	* 3'- 4"	* 3'- 0"	* 3'- 1"	* 3'- 6"	50	* 2'- 11"	* 2'- 5"	* 2'- 8"	* 2'- 5"	* 2'- 11"	* 3'- 0"
55	* 3'- 0"	* 2'- 10"	* 3'- 2"	* 2'- 10"	* 3'- 0"	* 3'- 4"	55	* 2'- 9"	* 2'- 4"	* 2'- 7"	* 2'- 4"	* 2'- 9"	* 2'- 11"
60	* 2'- 10"	* 2'- 8"	* 3'- 0"	* 2'- 8"	* 2'- 10"	* 3'- 2"	60	* 2'- 7"	* 2'- 2"	* 2'- 6"	* 2'- 2"	* 2'- 7"	* 2'- 9"
65	* 2'- 9"	* 2'- 7"	* 2'- 11"	* 2'- 7"	* 2'- 9"	* 3'- 1"	65	* 2'- 6"	* 2'- 1"	* 2'- 4"	* 2'- 1"	* 2'- 6"	* 2'- 8"
70	* 2'- 7"	* 2'- 6"	* 2'- 10"	* 2'- 6"	* 2'- 7"	* 2'- 11"	70	* 2'- 5"	* 2'- 0"	* 2'- 3"	* 2'- 0"	* 2'- 5"	* 2'- 7"

- Notes:
- * Indicates maximum span controlled by stress.
 - All loads are applied perpendicular to surface of panel.
 - All computations have been made in accordance with the Aluminum Association's *Specifications for Aluminum Structures*.
 - 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.
 - Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.