

LOAD TABLES

ALUMINUM
ASTM B209
3003-H16

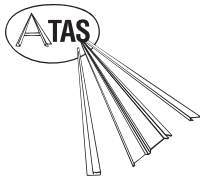
L/120 MAXIMUM
DEFLECTION CRITERIA

MULTI-PURPOSE PANEL MPH125 & MPH165

12" COVERAGE MPH125 GAUGE .032							16" COVERAGE MPH165 GAUGE .032						
AREA: 0.42880 in ² /ft.				Sb: 0.24017 in ³ /ft.			AREA: 0.41310 in ² /ft.				Sb: 0.28360 in ³ /ft.		
Yb: 0.57058 in.				St: 0.21118 in ³ /ft.			Yb: 0.44420 in.				St: 0.16249 in ³ /ft.		
Yt: 0.64892 in.				l: 0.13704 in ⁴ /ft.			Yt: 0.77530 in.				l: 0.12597 in ⁴ /ft.		
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'- 7"	* 6'- 3"	* 5'- 7"	* 5'- 7"	* 6'- 3"	10	* 4'- 10"	* 4'- 8"	* 5'- 3"	* 4'- 8"	* 4'- 10"	* 5'- 5"
15	* 4'- 6"	* 4'- 6"	* 5'- 1"	* 4'- 6"	* 4'- 6"	* 5'- 1"	15	* 4'- 0"	* 3'- 10"	* 4'- 3"	* 3'- 10"	* 4'- 0"	* 4'- 5"
20	* 3'- 11"	* 3'- 11"	* 4'- 5"	* 3'- 11"	* 3'- 11"	* 4'- 5"	20	* 3'- 5"	* 3'- 3"	* 3'- 8"	* 3'- 3"	* 3'- 5"	* 3'- 10"
25	* 3'- 6"	* 3'- 6"	* 3'- 11"	* 3'- 6"	* 3'- 6"	* 3'- 11"	25	* 3'- 1"	* 2'- 11"	* 3'- 3"	* 2'- 11"	* 3'- 1"	* 3'- 5"
30	* 3'- 2"	* 3'- 2"	* 3'- 7"	* 3'- 2"	* 3'- 2"	* 3'- 7"	30	* 2'- 9"	* 2'- 8"	* 3'- 0"	* 2'- 8"	* 2'- 9"	* 3'- 1"
35	* 2'- 11"	* 2'- 11"	* 3'- 4"	* 2'- 11"	* 2'- 11"	* 3'- 4"	35	* 2'- 7"	* 2'- 6"	* 2'- 9"	* 2'- 6"	* 2'- 7"	* 2'- 11"
40	* 2'- 9"	* 2'- 9"	* 3'- 1"	* 2'- 9"	* 2'- 9"	* 3'- 1"	40	* 2'- 5"	* 2'- 4"	* 2'- 7"	* 2'- 4"	* 2'- 5"	* 2'- 8"
45	* 2'- 7"	* 2'- 7"	* 2'- 11"	* 2'- 7"	* 2'- 7"	* 2'- 11"	45	* 2'- 3"	* 2'- 2"	* 2'- 5"	* 2'- 2"	* 2'- 3"	* 2'- 7"
50	* 2'- 6"	* 2'- 6"	* 2'- 9"	* 2'- 6"	* 2'- 6"	* 2'- 9"	50	* 2'- 2"	* 2'- 1"	* 2'- 4"	* 2'- 1"	* 2'- 2"	* 2'- 5"
55	* 2'- 4"	* 2'- 4"	* 2'- 8"	* 2'- 4"	* 2'- 4"	* 2'- 8"	55	* 2'- 1"	* 2'- 0"	* 2'- 2"	* 2'- 0"	* 2'- 1"	* 2'- 4"
60	* 2'- 3"	* 2'- 3"	* 2'- 6"	* 2'- 3"	* 2'- 3"	* 2'- 6"	60	* 2'- 0"	* 1'- 11"	* 2'- 1"	* 1'- 11"	* 2'- 0"	* 2'- 2"
65	* 2'- 2"	* 2'- 2"	* 2'- 5"	* 2'- 2"	* 2'- 2"	* 2'- 5"	65	* 1'- 11"	* 1'- 10"	* 2'- 0"	* 1'- 10"	* 1'- 11"	* 2'- 1"
70	* 2'- 1"	* 2'- 1"	* 2'- 4"	* 2'- 1"	* 2'- 1"	* 2'- 4"	70	* 1'- 10"	* 1'- 9"	* 1'- 11"	* 1'- 9"	* 1'- 10"	* 2'- 0"

12" COVERAGE MPH125 GAUGE .040							16" COVERAGE MPH165 GAUGE .040						
AREA: 0.54056 in ² /ft.				Sb: 0.30130 in ³ /ft.			AREA: 0.52092 in ² /ft.				Sb: 0.35578 in ³ /ft.		
Yb: 0.56622 in.				St: 0.26438 in ³ /ft.			Yb: 0.44068 in.				St: 0.20340 in ³ /ft.		
Yt: 0.64528 in.				l: 0.17060 in ⁴ /ft.			Yt: 0.77082 in.				l: 0.15679 in ⁴ /ft.		
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"	* 7'- 0"	* 7'- 10"	* 7'- 0"	* 7'- 0"	* 7'- 10"	10	* 6'- 2"	* 5'- 11"	* 6'- 7"	* 5'- 11"	* 6'- 2"	* 6'- 10"
15	* 5'- 8"	* 5'- 9"	* 6'- 5"	* 5'- 9"	* 5'- 8"	* 6'- 5"	15	* 5'- 0"	* 4'- 9"	* 5'- 4"	* 4'- 9"	* 5'- 0"	* 5'- 7"
20	* 4'- 11"	* 4'- 11"	* 5'- 6"	* 4'- 11"	* 4'- 11"	* 5'- 6"	20	* 4'- 4"	* 4'- 2"	* 4'- 8"	* 4'- 2"	* 4'- 4"	* 4'- 10"
25	* 4'- 5"	* 4'- 5"	* 4'- 11"	* 4'- 5"	* 4'- 5"	* 4'- 11"	25	* 3'- 10"	* 3'- 8"	* 4'- 2"	* 3'- 8"	* 3'- 10"	* 4'- 4"
30	* 4'- 0"	* 4'- 0"	* 4'- 6"	* 4'- 0"	* 4'- 0"	* 4'- 6"	30	* 3'- 6"	* 3'- 5"	* 3'- 9"	* 3'- 5"	* 3'- 6"	* 3'- 11"
35	* 3'- 9"	* 3'- 9"	* 4'- 2"	* 3'- 9"	* 3'- 9"	* 4'- 2"	35	* 3'- 3"	* 3'- 1"	* 3'- 6"	* 3'- 1"	* 3'- 3"	* 3'- 8"
40	* 3'- 6"	* 3'- 6"	* 3'- 11"	* 3'- 6"	* 3'- 6"	* 3'- 11"	40	* 3'- 1"	* 2'- 11"	* 3'- 3"	* 2'- 11"	* 3'- 1"	* 3'- 5"
45	* 3'- 3"	* 3'- 3"	* 3'- 8"	* 3'- 3"	* 3'- 3"	* 3'- 8"	45	* 2'- 10"	* 2'- 9"	* 3'- 1"	* 2'- 9"	* 2'- 10"	* 3'- 3"
50	* 3'- 1"	* 3'- 1"	* 3'- 6"	* 3'- 1"	* 3'- 1"	* 3'- 6"	50	* 2'- 9"	* 2'- 7"	* 2'- 11"	* 2'- 7"	* 2'- 9"	* 3'- 1"
55	* 2'- 11"	* 3'- 0"	* 3'- 4"	* 3'- 0"	* 2'- 11"	* 3'- 4"	55	* 2'- 7"	* 2'- 6"	* 2'- 9"	* 2'- 6"	* 2'- 7"	* 2'- 11"
60	* 2'- 10"	* 2'- 10"	* 3'- 2"	* 2'- 10"	* 2'- 10"	* 3'- 2"	60	* 2'- 6"	* 2'- 4"	* 2'- 8"	* 2'- 4"	* 2'- 6"	* 2'- 9"
65	* 2'- 9"	* 2'- 9"	* 3'- 1"	* 2'- 9"	* 2'- 9"	* 3'- 1"	65	* 2'- 5"	* 2'- 3"	* 2'- 7"	* 2'- 3"	* 2'- 5"	* 2'- 8"
70	* 2'- 7"	* 2'- 7"	* 2'- 11"	* 2'- 7"	* 2'- 7"	* 2'- 11"	70	* 2'- 3"	* 2'- 2"	* 2'- 6"	* 2'- 2"	* 2'- 3"	* 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.
 - Spans for nominal 0.032" and 0.040" aluminum were determined at an actual thickness of 0.0305" and 0.0385", respectively.



LOAD TABLES

ALUMINUM
ASTM B209
3003-H16

L/120 MAXIMUM
DEFLECTION CRITERIA

MULTI-PURPOSE PANEL MPH127 & MPH167

12" COVERAGE MPH127
GAUGE .032

AREA: 0.42880 in²/ft. Sb: 0.17466 in³/ft.
Yb: 0.74407 in. St: 0.27334 in³/ft.
Yt: 0.47543 in. l: 0.12996 in⁴/ft.

LOAD (PSF)	DOWNWARD LOAD			UPWARD LOAD		
	SINGLE SPAN	DOUBLE SPAN	THREE SPAN	SINGLE SPAN	DOUBLE SPAN	THREE SPAN
10	* 5'- 4"	* 5'- 10"	* 6'- 6"	* 5'- 10"	* 5'- 4"	* 6'- 0"
15	* 4'- 4"	* 4'- 9"	* 5'- 4"	* 4'- 9"	* 4'- 4"	* 4'- 11"
20	* 3'- 9"	* 4'- 1"	* 4'- 7"	* 4'- 1"	* 3'- 9"	* 4'- 3"
25	* 3'- 5"	* 3'- 8"	* 4'- 1"	* 3'- 8"	* 3'- 5"	* 3'- 9"
30	* 3'- 1"	* 3'- 4"	* 3'- 9"	* 3'- 4"	* 3'- 1"	* 3'- 5"
35	* 2'- 10"	* 3'- 1"	* 3'- 6"	* 3'- 1"	* 2'- 10"	* 3'- 2"
40	* 2'- 8"	* 2'- 11"	* 3'- 3"	* 2'- 11"	* 2'- 8"	* 3'- 0"
45	* 2'- 6"	* 2'- 9"	* 3'- 1"	* 2'- 9"	* 2'- 6"	* 2'- 10"
50	* 2'- 5"	* 2'- 7"	* 2'- 11"	* 2'- 7"	* 2'- 5"	* 2'- 8"
55	* 2'- 3"	* 2'- 6"	* 2'- 9"	* 2'- 6"	* 2'- 3"	* 2'- 6"
60	* 2'- 2"	* 2'- 4"	* 2'- 8"	* 2'- 4"	* 2'- 2"	* 2'- 5"
65	* 2'- 1"	* 2'- 3"	* 2'- 6"	* 2'- 3"	* 2'- 1"	* 2'- 4"
70	* 2'- 0"	* 2'- 2"	* 2'- 5"	* 2'- 2"	* 2'- 0"	* 2'- 3"

16" COVERAGE MPH167
GAUGE .032

AREA: 0.41310 in²/ft. Sb: 0.23636 in³/ft.
Yb: 0.57926 in. St: 0.21384 in³/ft.
Yt: 0.64024 in. l: 0.13691 in⁴/ft.

LOAD (PSF)	DOWNWARD LOAD			UPWARD LOAD		
	SINGLE SPAN	DOUBLE SPAN	THREE SPAN	SINGLE SPAN	DOUBLE SPAN	THREE SPAN
10	* 4'- 9"	* 4'- 9"	* 5'- 4"	* 4'- 9"	* 4'- 9"	* 5'- 4"
15	* 3'- 10"	* 3'- 11"	* 4'- 4"	* 3'- 11"	* 3'- 10"	* 4'- 4"
20	* 3'- 4"	* 3'- 4"	* 3'- 9"	* 3'- 4"	* 3'- 4"	* 3'- 9"
25	* 3'- 0"	* 3'- 0"	* 3'- 4"	* 3'- 0"	* 3'- 0"	* 3'- 4"
30	* 2'- 9"	* 2'- 9"	* 3'- 1"	* 2'- 9"	* 2'- 9"	* 3'- 1"
35	* 2'- 6"	* 2'- 6"	* 2'- 10"	* 2'- 6"	* 2'- 6"	* 2'- 10"
40	* 2'- 4"	* 2'- 4"	* 2'- 8"	* 2'- 4"	* 2'- 4"	* 2'- 8"
45	* 2'- 3"	* 2'- 3"	* 2'- 6"	* 2'- 3"	* 2'- 3"	* 2'- 6"
50	* 2'- 1"	* 2'- 1"	* 2'- 4"	* 2'- 1"	* 2'- 1"	* 2'- 4"
55	* 2'- 0"	* 2'- 0"	* 2'- 3"	* 2'- 0"	* 2'- 0"	* 2'- 3"
60	* 1'- 11"	* 1'- 11"	* 2'- 2"	* 1'- 11"	* 1'- 11"	* 2'- 2"
65	* 1'- 10"	* 1'- 10"	* 2'- 1"	* 1'- 10"	* 1'- 10"	* 2'- 1"
70	* 1'- 9"	* 1'- 9"	* 2'- 0"	* 1'- 9"	* 1'- 9"	* 2'- 0"

12" COVERAGE MPH127
GAUGE .040

AREA: 0.54056 in²/ft. Sb: 0.21911 in³/ft.
Yb: 0.73879 in. St: 0.34245 in³/ft.
Yt: 0.47271 in. l: 0.16188 in⁴/ft.

LOAD (PSF)	DOWNWARD LOAD			UPWARD LOAD		
	SINGLE SPAN	DOUBLE SPAN	THREE SPAN	SINGLE SPAN	DOUBLE SPAN	THREE SPAN
10	* 6'- 9"	* 7'- 4"	* 8'- 3"	* 7'- 4"	* 6'- 9"	* 7'- 7"
15	* 5'- 6"	* 6'- 0"	* 6'- 9"	* 6'- 0"	* 5'- 6"	* 6'- 2"
20	* 4'- 9"	* 5'- 2"	* 5'- 10"	* 5'- 2"	* 4'- 9"	* 5'- 4"
25	* 4'- 3"	* 4'- 8"	* 5'- 2"	* 4'- 8"	* 4'- 3"	* 4'- 9"
30	* 3'- 11"	* 4'- 3"	* 4'- 9"	* 4'- 3"	* 3'- 11"	* 4'- 4"
35	* 3'- 7"	* 3'- 11"	* 4'- 5"	* 3'- 11"	* 3'- 7"	* 4'- 0"
40	* 3'- 4"	* 3'- 8"	* 4'- 1"	* 3'- 8"	* 3'- 4"	* 3'- 9"
45	* 3'- 2"	* 3'- 5"	* 3'- 10"	* 3'- 5"	* 3'- 2"	* 3'- 7"
50	* 3'- 0"	* 3'- 3"	* 3'- 8"	* 3'- 3"	* 3'- 0"	* 3'- 4"
55	* 2'- 10"	* 3'- 1"	* 3'- 6"	* 3'- 1"	* 2'- 10"	* 3'- 2"
60	* 2'- 9"	* 3'- 0"	* 3'- 4"	* 3'- 0"	* 2'- 9"	* 3'- 1"
65	* 2'- 8"	* 2'- 10"	* 3'- 2"	* 2'- 10"	* 2'- 8"	* 2'- 11"
70	* 2'- 6"	* 2'- 9"	* 3'- 1"	* 2'- 9"	* 2'- 6"	* 2'- 10"

16" COVERAGE MPH167
GAUGE .040

AREA: 0.52092 in²/ft. Sb: 0.29650 in³/ft.
Yb: 0.57499 in. St: 0.26784 in³/ft.
Yt: 0.63651 in. l: 0.17049 in⁴/ft.

LOAD (PSF)	DOWNWARD LOAD			UPWARD LOAD		
	SINGLE SPAN	DOUBLE SPAN	THREE SPAN	SINGLE SPAN	DOUBLE SPAN	THREE SPAN
10	* 6'- 0"	* 6'- 0"	* 6'- 9"	* 6'- 0"	* 6'- 0"	* 6'- 8"
15	* 4'- 10"	* 4'- 11"	* 5'- 6"	* 4'- 11"	* 4'- 10"	* 5'- 5"
20	* 4'- 3"	* 4'- 3"	* 4'- 9"	* 4'- 3"	* 4'- 3"	* 4'- 9"
25	* 3'- 9"	* 3'- 9"	* 4'- 3"	* 3'- 9"	* 3'- 9"	* 4'- 3"
30	* 3'- 5"	* 3'- 5"	* 3'- 10"	* 3'- 5"	* 3'- 5"	* 3'- 10"
35	* 3'- 2"	* 3'- 2"	* 3'- 7"	* 3'- 2"	* 3'- 2"	* 3'- 7"
40	* 3'- 0"	* 3'- 0"	* 3'- 4"	* 3'- 0"	* 3'- 0"	* 3'- 4"
45	* 2'- 10"	* 2'- 10"	* 3'- 2"	* 2'- 10"	* 2'- 10"	* 3'- 2"
50	* 2'- 8"	* 2'- 8"	* 3'- 0"	* 2'- 8"	* 2'- 8"	* 3'- 0"
55	* 2'- 6"	* 2'- 6"	* 2'- 10"	* 2'- 6"	* 2'- 6"	* 2'- 10"
60	* 2'- 5"	* 2'- 5"	* 2'- 9"	* 2'- 5"	* 2'- 5"	* 2'- 8"
65	* 2'- 4"	* 2'- 4"	* 2'- 7"	* 2'- 4"	* 2'- 4"	* 2'- 7"
70	* 2'- 3"	* 2'- 3"	* 2'- 6"	* 2'- 3"	* 2'- 3"	* 2'- 6"

- Notes:
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