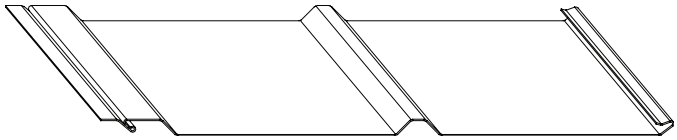
LOAD TABLES

ALUMINUM
3105-H14

12” COVERAGE

MULTI-PURPOSE PANEL MPS120



L/120 DEFLECTION CRITERIA .032 FTY=18KSI

POSITIVE BENDING	NEGATIVE BENDING
Yt= 0.3164 in.	Yt= 0.3164 in.
St= 0.0253 cubic in/ft. (bend.)	St= 0.0253 cubic in/ft. (bend.)
Sb= 0.1419 cubic in/ft. (bend.)	Sb= 0.1419 cubic in/ft. (bend.)
I= 0.0083 in.^4/ft. (defl.)	I= 0.0081 in.^4/ft. (defl.)

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

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. Due to shallow depth of profile and related section properties .024 thickness values are used conservatively for .032 thickness.
6. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.