

LOAD TABLES

ALUMINUM
ASTM B209
3003-H16

8" COVERAGE

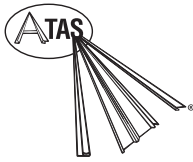
OPALINE PANEL OPF080



L/180 DEFLECTION CRITERIA GAUGE .032							L/240 DEFLECTION CRITERIA GAUGE .032						
SECTION PROPERTIES							SECTION PROPERTIES						
NEUTRAL AXIS			Yt = 0.049 IN.		Yb = 0.389 IN.		NEUTRAL AXIS			Yt = 0.049 IN.		Yb = 0.389 IN.	
MOMENT OF INERTIA			Ix = 0.007 IN. ^4/ft.				MOMENT OF INERTIA			Ix = 0.007 IN. ^4/ft.			
SECTION MODULUS			St = 0.152 IN. ^3/ft.		Sb = 0.018 IN. ^3/ft.		SECTION MODULUS			St = 0.152 IN. ^3/ft.		Sb = 0.018 IN. ^3/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	* 2'- 9"	* 3'- 8"	* 3'- 4"	* 2'- 9"	* 3'- 8"	* 3'- 4"	10	* 2'- 6"	* 3'- 4"	* 3'- 1"	* 2'- 6"	* 3'- 4"	* 3'- 1"
15	* 2'- 4"	* 3'- 2"	* 2'- 11"	* 2'- 4"	* 3'- 2"	* 2'- 11"	15	* 2'- 2"	* 2'- 11"	* 2'- 8"	* 2'- 2"	* 2'- 11"	* 2'- 8"
20	* 2'- 2"	* 2'- 11"	* 2'- 8"	* 2'- 2"	* 2'- 11"	* 2'- 8"	20	* 1'- 11"	* 2'- 7"	* 2'- 5"	* 1'- 11"	* 2'- 7"	* 2'- 5"
25	* 2'- 0"	2'- 8"	* 2'- 6"	* 2'- 0"	2'- 8"	* 2'- 6"	25	* 1'- 10"	* 2'- 5"	* 2'- 3"	* 1'- 10"	* 2'- 5"	* 2'- 3"
30	* 1'- 10"	2'- 5"	* 2'- 4"	* 1'- 10"	2'- 5"	* 2'- 4"	30	* 1'- 8"	* 2'- 3"	* 2'- 1"	* 1'- 8"	* 2'- 3"	* 2'- 1"
35	* 1'- 9"	2'- 3"	* 2'- 2"	* 1'- 9"	2'- 3"	* 2'- 2"	35	* 1'- 7"	* 2'- 2"	* 2'- 0"	* 1'- 7"	* 2'- 2"	* 2'- 0"
40	* 1'- 8"	2'- 1"	2'- 1"	* 1'- 8"	2'- 1"	2'- 1"	40	* 1'- 6"	* 2'- 1"	* 1'- 11"	* 1'- 6"	* 2'- 1"	* 1'- 11"
45	* 1'- 8"	2'- 0"	2'- 0"	* 1'- 8"	2'- 0"	2'- 0"	45	* 1'- 6"	2'- 0"	* 1'- 10"	* 1'- 6"	2'- 0"	* 1'- 10"
50	* 1'- 7"	1'- 10"	1'- 10"	* 1'- 7"	1'- 10"	1'- 10"	50	* 1'- 5"	1'- 10"	* 1'- 9"	* 1'- 5"	1'- 9"	* 1'- 9"
55	* 1'- 6"	1'- 9"	1'- 9"	* 1'- 6"	1'- 9"	1'- 9"	55	* 1'- 5"	1'- 9"	* 1'- 9"	* 1'- 5"	1'- 9"	* 1'- 9"
60	* 1'- 6"	1'- 8"	1'- 8"	* 1'- 6"	1'- 8"	1'- 8"	60	* 1'- 4"	1'- 8"	* 1'- 8"	* 1'- 4"	1'- 8"	* 1'- 8"
65	* 1'- 5"	1'- 8"	1'- 8"	* 1'- 5"	1'- 8"	1'- 8"	65	* 1'- 4"	1'- 8"	* 1'- 7"	* 1'- 4"	1'- 8"	* 1'- 7"

L/180 DEFLECTION CRITERIA GAUGE .040							L/240 DEFLECTION CRITERIA GAUGE .040						
SECTION PROPERTIES							SECTION PROPERTIES						
NEUTRAL AXIS			Yt = 0.049 IN.		Yb = 0.389 IN.		NEUTRAL AXIS			Yt = 0.049 IN.		Yb = 0.389 IN.	
MOMENT OF INERTIA			Ix = 0.009 IN. ^4/ft.				MOMENT OF INERTIA			Ix = 0.009 IN. ^4/ft.			
SECTION MODULUS			St = 0.180 IN. ^3/ft.		Sb = 0.023 IN. ^3/ft.		SECTION MODULUS			St = 0.180 IN. ^3/ft.		Sb = 0.023 IN. ^3/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	* 2'- 11"	* 4'- 0"	* 3'- 8"	* 2'- 11"	* 4'- 0"	* 3'- 8"	10	* 2'- 8"	* 3'- 7"	* 3'- 4"	* 2'- 8"	* 3'- 7"	* 3'- 4"
15	* 2'- 7"	* 3'- 6"	* 3'- 2"	* 2'- 7"	* 3'- 6"	* 3'- 2"	15	* 2'- 4"	* 3'- 2"	* 2'- 11"	* 2'- 4"	* 3'- 2"	* 2'- 11"
20	* 2'- 4"	* 3'- 2"	* 2'- 11"	* 2'- 4"	* 3'- 2"	* 2'- 11"	20	* 2'- 1"	* 2'- 10"	* 2'- 8"	* 2'- 1"	* 2'- 10"	* 2'- 8"
25	* 2'- 2"	* 2'- 11"	* 2'- 8"	* 2'- 2"	* 2'- 11"	* 2'- 8"	25	* 2'- 0"	* 2'- 8"	* 2'- 5"	* 2'- 0"	* 2'- 8"	* 2'- 5"
30	* 2'- 0"	2'- 9"	* 2'- 6"	* 2'- 0"	2'- 9"	* 2'- 6"	30	* 1'- 10"	* 2'- 6"	* 2'- 4"	* 1'- 10"	* 2'- 6"	* 2'- 4"
35	* 1'- 11"	2'- 6"	* 2'- 5"	* 1'- 11"	2'- 6"	* 2'- 5"	35	* 1'- 9"	* 2'- 4"	* 2'- 2"	* 1'- 9"	* 2'- 4"	* 2'- 2"
40	* 1'- 10"	2'- 4"	* 2'- 4"	* 1'- 10"	2'- 4"	* 2'- 4"	40	* 1'- 8"	* 2'- 3"	* 2'- 1"	* 1'- 8"	* 2'- 3"	* 2'- 1"
45	* 1'- 9"	2'- 3"	* 2'- 2"	* 1'- 9"	2'- 3"	* 2'- 2"	45	* 1'- 7"	* 2'- 2"	* 2'- 0"	* 1'- 7"	* 2'- 2"	* 2'- 0"
50	* 1'- 9"	2'- 1"	2'- 1"	* 1'- 9"	2'- 1"	2'- 1"	50	* 1'- 7"	* 2'- 1"	* 1'- 11"	* 1'- 7"	* 2'- 1"	* 1'- 11"
55	* 1'- 8"	2'- 0"	2'- 0"	* 1'- 8"	2'- 0"	2'- 0"	55	* 1'- 6"	2'- 0"	* 1'- 10"	* 1'- 6"	2'- 0"	* 1'- 10"
60	* 1'- 7"	1'- 11"	1'- 11"	* 1'- 7"	1'- 11"	1'- 11"	60	* 1'- 5"	1'- 11"	* 1'- 10"	* 1'- 5"	1'- 11"	* 1'- 10"
65	* 1'- 7"	1'- 10"	1'- 10"	* 1'- 7"	1'- 10"	1'- 10"	65	* 1'- 5"	1'- 10"	* 1'- 9"	* 1'- 5"	1'- 10"	* 1'- 9"
70	* 1'- 6"	1'- 9"	1'- 9"	* 1'- 6"	1'- 9"	1'- 9"	70	* 1'- 5"	1'- 9"	* 1'- 9"	* 1'- 5"	1'- 9"	* 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. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.



LOAD TABLES

STEEL
ASTM A653
SS 33

8" COVERAGE

OPALINE PANEL OPF080



L/180 DEFLECTION CRITERIA GAUGE 24							L/240 DEFLECTION CRITERIA GAUGE 24						
FY=33KSI							FY=33KSI						
SECTION PROPERTIES							SECTION PROPERTIES						
NEUTRAL AXIS Yt = 0.100 IN. Yb = 0.337 IN.							NEUTRAL AXIS Yt = 0.100 IN. Yb = 0.337 IN.						
MOMENT OF INERTIA Ix = 0.004754 IN. ^4/ft.							MOMENT OF INERTIA Ix = 0.004754 IN. ^4/ft.						
SECTION MODULUS St = 0.0475 IN. ^3/ft. Sb = 0.014 IN. ^3/ft.							SECTION MODULUS St = 0.0475 IN. ^3/ft. Sb = 0.014 IN. ^3/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	* 3'- 5"	4'- 3"	* 4'- 3"	* 3'- 5"	4'- 3"	* 4'- 3"	10	* 3'- 1"	* 4'- 2"	* 3'- 10"	* 3'- 1"	* 4'- 2"	* 3'- 10"
15	* 3'- 0"	3'- 6"	* 3'- 8"	* 3'- 0"	3'- 6"	* 3'- 8"	15	* 2'- 8"	3'- 6"	* 3'- 4"	* 2'- 8"	3'- 6"	* 3'- 4"
20	* 2'- 8"	3'- 0"	* 3'- 4"	* 2'- 8"	3'- 0"	* 3'- 4"	20	* 2'- 5"	3'- 0"	* 3'- 1"	* 2'- 5"	3'- 0"	* 3'- 1"
25	* 2'- 6"	2'- 8"	3'- 0"	* 2'- 6"	2'- 8"	3'- 0"	25	* 2'- 3"	2'- 8"	* 2'- 10"	* 2'- 3"	2'- 8"	* 2'- 10"
30	* 2'- 4"	2'- 5"	2'- 9"	* 2'- 4"	2'- 5"	2'- 9"	30	* 2'- 2"	2'- 5"	* 2'- 8"	* 2'- 2"	2'- 5"	* 2'- 8"
35	* 2'- 3"	2'- 3"	2'- 6"	* 2'- 3"	2'- 3"	2'- 6"	35	* 2'- 0"	2'- 3"	* 2'- 6"	* 2'- 0"	2'- 3"	* 2'- 6"
40	2'- 1"	2'- 1"	2'- 4"	2'- 1"	2'- 1"	2'- 4"	40	* 1'- 11"	2'- 1"	2'- 4"	* 1'- 11"	2'- 1"	2'- 4"

- Notes:
- *Indicates maximum span controlled by deflection.
 - All loads are applied perpendicular to surface of panel.
 - No increase for wind loading has been assumed.
 - 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.