

Synthesis Span Table

Allowable Loads (psf)



Panel Size	Aluminum						Stainless Steel						Weathering Steel					
	1/8"		3/16"		1/4"		1/8"		3/16"		1/4"		1/8"		3/16"		1/4"	
	Edge	Perimeter	Edge	Perimeter	Edge	Perimeter	Edge	Perimeter	Edge	Perimeter	Edge	Perimeter	Edge	Perimeter	Edge	Perimeter	Edge	Perimeter
30 x 48	52	63	173	209	*215	*299	147	174	*215	*299	*215	*299	152	180	*215	*299	*215	*299
30 x 60	51	56	167	181	*268	*344	144	155	*268	*344	*268	*344	150	160	*268	*344	*268	*344
30 x 72	51	55	168	181	*284	*344	143	151	*284	*344	*284	*344	148	157	*284	*344	*284	*344
30 x 84	51	54	167	175	*268	*319	143	149	*268	*319	*268	*319	149	154	*268	*319	*268	*319
30 x 96	51	55	168	180	*278	*322	142	149	*278	*322	*278	*322	150	158	*278	*322	*278	*322
30 x 108	50	53	169	177	*267	*305	142	148	*267	*305	*267	*305	147	153	*267	*305	*267	*305
30 x 120	50	52	169	177	*273	*309	141	148	*273	*309	*273	*309	147	153	*273	*309	*273	*309
48 x 48	11	27	37	87	86	203	32	74	104	241	*188	*322	33	76	104	241	*188	*322
48 x 60	11	17	36	58	84	136	30	49	101	161	*172	*279	31	51	104	167	*172	*279
48 x 72	11	14	36	48	84	113	30	40	101	134	*179	*268	31	41	103	134	*179	*268
48 x 84	10	12	34	41	79	95	29	34	96	114	*168	*245	30	35	100	118	*168	*245
48 x 96	10	12	34	41	79	95	29	34	96	113	*161	*228	30	35	100	117	*161	*228
48 x 108	10	12	34	38	79	92	29	33	96	109	*155	*215	30	34	100	113	*155	*215
48 x 120	10	12	34	38	79	92	29	33	96	106	*172	*225	30	34	100	113	*172	*225
60 x 60	6	12	20	46	46	108	17	38	56	128	130	299	17	40	58	133	134	*310
60 x 72	6	10	20	34	46	79	17	28	56	94	130	220	17	29	58	97	134	228
60 x 84	6	9	19	27	46	63	16	23	55	75	128	174	17	23	57	78	133	180
60 x 96	6	9	19	25	46	58	16	21	55	69	128	162	17	22	57	72	133	168
60 x 108	6	8	19	23	45	57	16	18	55	64	128	151	17	20	57	66	133	156
60 x 120	6	7	19	22	45	53	16	18	55	62	128	151	17	19	57	65	133	152

NOTES

- ▶ Load values are limited by deflection equal to L/60. For other deflection limits, multiply the Live Load values by the appropriate factor.
- ▶ Fastener capacity is based on GeoMetal™ standard fastener type into 14ga steel substrate.
- ▶ Results are based on the standard GeoMetal™ fastener spacing of 8" on center.
- ▶ Deflection limits are based on the short panel dimension, and the panel orientations shown in the product documentation.
- ▶ Tabulated values apply to either fasteners applied to long sides of panels only (Edge) or full perimeter fasteners (Perimeter).
- ▶ Tabulated values marked with an *asterisk indicate load limited by fastener capacity.
- ▶ This table was designed to apply to "standard" GeoMetal™ installation methods. It may be possible to exceed the loads of this table by analyzing a specific application.
- ▶ This table is not intended to replace project-specific engineering calculations performed for your decorative metal project.
- ▶ Red values indicate pressure below 16 psf threshold.