

Safety Grating

LOAD & DEFLECTION TABLES

Explanation of Load Type

- U = uniform load (lb/ft²)
- D = corresponding deflection (in) resulting from uniform load
- C = concentrated load (lb)
- D = corresponding deflection (in) resulting from concentrated load

Note:

- All uniform and concentrated loads include a safety factor of 1.67.
- Spans and loads to the right of the bold line, based on loads indicated, may exceed deflections of L/120.

5 Inch Wide - 2 Hole

PRODUCT DETAILS

Type	Depth Weight	Catalog Number	Ix IN.4 Sx IN.3		CLEAR SPAN ^{FT}																
					24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 13 GA	1-1/2"	S2153	.228	U	1947	1248	868	639	490	388	315	261	220	188	163	142	126				
				D	0.06	0.10	0.14	0.19	0.25	0.32	0.39	0.48	0.57	0.67	0.78	0.90	1.03				
	2.6 lb/ft	S2203	.449	U	2943	1885	1311	964	739	585	475	393	331	283	245	214	188	150	122	102	86
				D	0.05	0.08	0.11	0.16	0.20	0.26	0.32	0.39	0.46	0.54	0.63	0.73	0.83	1.05	1.31	1.60	1.92
		2.8 lb/ft	.372	C	973	973	819	703	616	549	495	451	414	383	357	334	314	281	255	233	216
				D	0.03	0.06	0.09	0.12	0.16	0.21	0.25	0.31	0.37	0.43	0.50	0.58	0.66	0.84	1.05	1.28	1.54
Alum .125"	2"	S2208A	.603	U	2479	1587	1102	809	620	490	397	328	275					Type 5052H32			
				D	0.08	0.12	0.17	0.24	0.31	0.39	0.49	0.59	0.70								
	1.3 lb/ft	.449	C	1033	826	689	590	516	459	413	379	344									
Stainless Steel 14 GA	2"	S2204S	.377	U	3295	2109	1464	1076	824	651	527	436	366	312	269	234		Type 316			
				D	0.05	0.07	0.11	0.15	0.19	0.24	0.30	0.36	0.43	0.50	0.58	0.67					
	2.5 lb/ft	.312	C	1373	1098	915	784	686	610	549	499	458	422	392	366	0.40	0.47				
				D	0.04	0.06	0.09	0.12	0.15	0.19	0.24	0.29	0.34	0.40	0.47	0.53					

7 Inch Wide - 3 Hole

PRODUCT DETAILS

Type	Depth Weight	Catalog Number	Ix IN.4 Sx IN.3		CLEAR SPAN ^{FT}																
					24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	108"	120"	132"	144"
Steel 13 GA	1-1/2"	S3153	.260	U	1489	954	664	489	375	297	241	200	169	144	125	109	97				
				D	0.06	0.09	0.14	0.19	0.24	0.31	0.38	0.46	0.55	0.65	0.76	0.88	1.00				
	3 lb/ft	S3203	.509	U	2229	1428	993	731	560	444	360	298	251	215	186	162	143	114	93		
				D	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.37	0.45	0.52	0.61	0.70	0.80	1.02	1.27		
		3.3 lb/ft	.415	C	793	793	793	746	654	582	525	479	440	407	379	355	334	299	271		
				D	0.02	0.05	0.08	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.82	1.02		
Steel 11 GA	1-1/2"	S3151	.330	U	1921	1231	856	630	483	382	310	257	217	185	160	140	124				
				D	0.06	0.10	0.14	0.19	0.24	0.31	0.38	0.47	0.56	0.65	0.76	0.88	1.00				
	4.2 lb/ft	S3201	.655	U	2995	1918	1333	981	752	595	483	399	336	293	253	221	195	155	126	105	89
				D	0.05	0.08	0.12	0.16	0.21	0.27	0.34	0.41	0.49	0.56	0.62	0.71	0.81	1.03	1.28	1.56	1.87
		4.5 lb/ft	.534	C	1098	1098	1098	1001	877	781	704	641	586	556	517	484	455	407	368	337	311
				D	0.03	0.05	0.09	0.13	0.17	0.22	0.27	0.33	0.39	0.44	0.49	0.57	0.65	0.82	1.02	1.25	1.50
3"	S3301	1.726	U	3765	3602	2503	1840	1410	1115	904	748	629	537	464	404	356	282	229	190	161	
			D	0.02	0.05	0.08	0.11	0.14	0.18	0.22	0.26	0.31	0.37	0.43	0.49	0.56	0.71	0.88	1.07	1.28	
	4.8 lb/ft	.966	C	1098	1098	1098	1098	1098	1098	1098	1098	1098	1098	1018	946	885	831	741	669	611	563
				D	0.01	0.02	0.03	0.05	0.07	0.11	0.14	0.19	0.25	0.29	0.34	0.39	0.45	0.57	0.70	0.85	1.02
Alum .125"	2"	S3208A	.686	U	1984	1270	882	648	496	392	317	262	220				Type 5052H32				
				D	0.08	0.13	0.19	0.25	0.33	0.42	0.52	0.63	0.75								
	1.5 lb/ft	.559	C	1157	926	771	661	579	514	463	421	386									
Stainless Steel 14 GA	2"	S3204S	.426	U	2148	1375	955	701	537	424	344	284	239	203	175		Type 316				
				D	0.04	0.06	0.09	0.12	0.15	0.19	0.24	0.29	0.35	0.41	0.47						
	2.8 lb/ft	.348	C	1253	1002	835	716	626	557	501	456	418	385	358	0.32	0.38					
				D	0.03	0.05	0.07	0.09	0.12	0.16	0.19	0.23	0.28	0.32	0.38						

