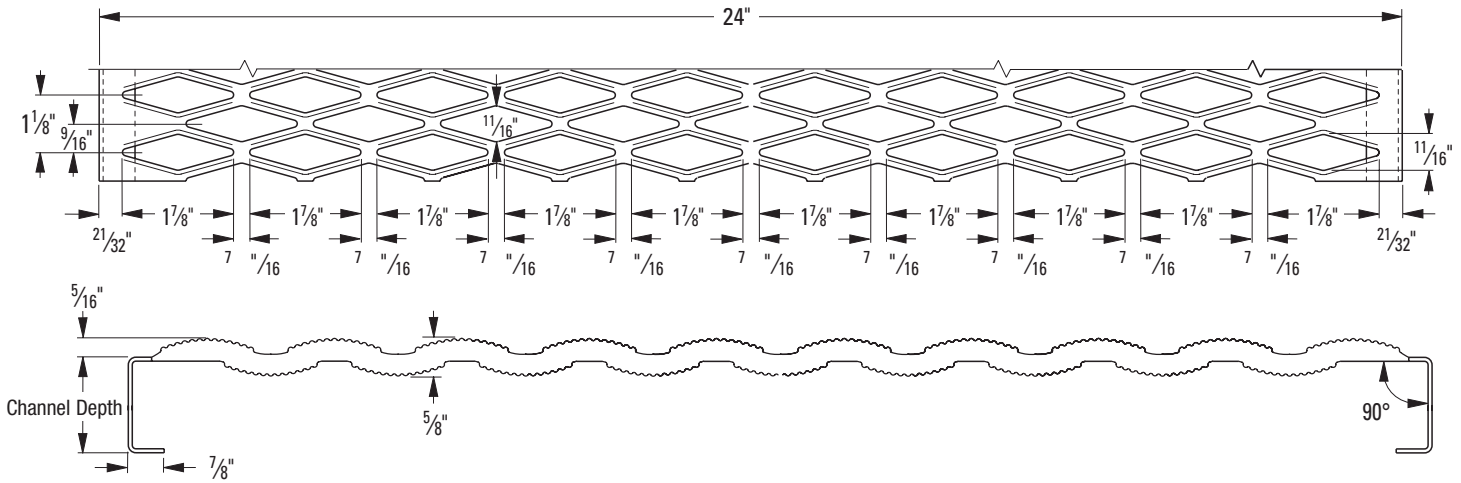




# GRATING PACIFIC

## GRIP STRUT® SAFETY GRATING LOAD TABLES 10-DIAMOND PLANK — 24" WIDTH



### Grip Strut 10-Diamond Plank — 24" Width

Allowable loads and deflections: U=Uniform load (lb./ft.<sup>2</sup>) C= Concentrated load (lb.) D=Deflection (in.)  
Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

Material Gauge	Channel Depth in.	Weight lb./lin. ft.	Catalog Number	Load/Defl. Code	Span												
					2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
Steel 14 ga.	2"	7.4	102014	U	300	300	228	168	128	102	82	68	57	49	42		
				D	.46	.48	.42	.38	.38	.41	.44	.49	.55	.62	.70		
				C	400	400	343	294	257	229	206	187	172	158	147		
				D	.34	.35	.32	.30	.29	.29	.30	.31	.33	.35	.37		
	3"	7.9	103014	U	300	300	300	264	202	160	130	107	90	77	66	58	51
				D	.42	.43	.46	.44	.39	.36	.35	.36	.39	.44	.45	.49	.54
				C	400	400	400	400	400	360	324	295	270	249	232	216	203
				D	.33	.33	.34	.35	.37	.35	.33	.33	.32	.32	.33	.34	.35
Steel 12 ga.	2"	10.4	102012	U	475	416	289	212	162	128	104	86	72	62	53	46	
				D	.40	.39	.33	.31	.31	.34	.38	.44	.48	.56	.63	.71	
				C	650	520	434	372	325	289	260	237	217	200	186	174	
				D	.26	.22	.19	.20	.20	.21	.22	.23	.25	.28	.31	.34	
	3"	11.1	103012	U	475	475	475	392	300	237	192	159	133	114	98	85	75
				D	.38	.39	.42	.38	.36	.34	.35	.37	.39	.43	.47	.52	.58
				C	900	900	800	686	600	534	480	437	400	369	343	320	300
				D	.34	.35	.33	.29	.27	.26	.26	.26	.26	.26	.27	.29	.30

### Engineering Data (for both channels)

Material Gauge	Channel Depth in.	Sx in. <sup>3</sup>	Ix in. <sup>4</sup>	EI lb. x in. <sup>2</sup>
Steel 14 ga.	2"	.303	.232	6.73 x 10 <sup>6</sup>
Steel 14 ga.	3"	.484	.713	20.68 x 10 <sup>6</sup>
Steel 12 ga.	2"	.387	.346	10.03 x 10 <sup>6</sup>
Steel 12 ga.	3"	.715	.959	27.81 x 10 <sup>6</sup>

### Strut Loading

Material Gauge	Type Loading**	Load	Deflection in.
Steel 14 ga.	U	300	.49
Steel 14 ga.	Cs	300	.40
Steel 12 ga.	U	475	.45
Steel 12 ga.	Cs	475	.36

\*\* U = Allowable uniform load (lb./ft.<sup>2</sup>)

Cs = Allowable concentrated load per ft. of length at mid-width (lb./ft.)