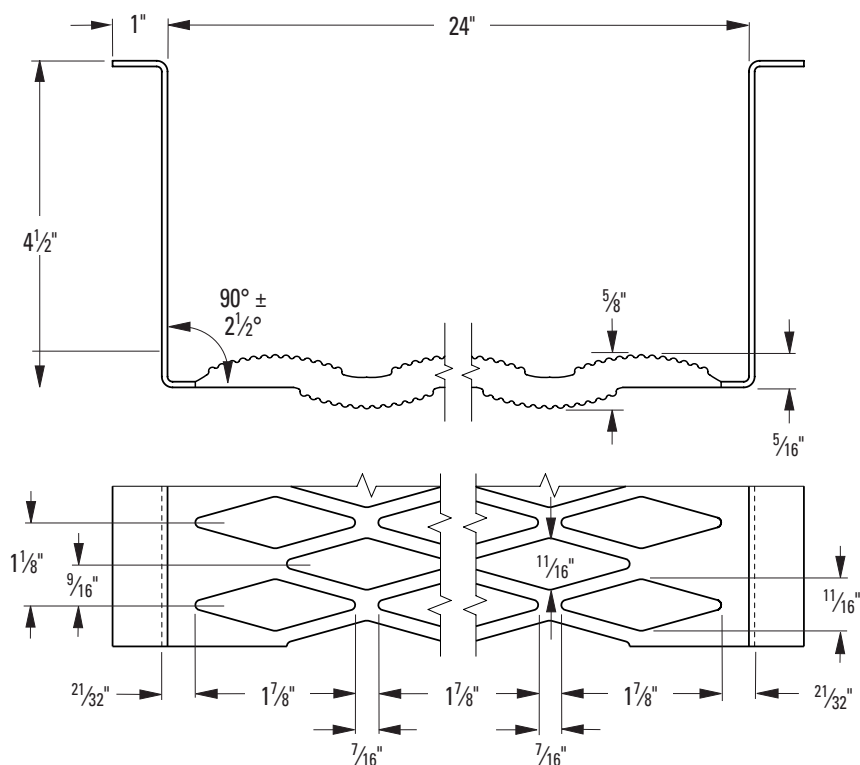


GRIP STRUT® SAFETY GRATING LOAD TABLES 10-DIAMOND WALKWAY CHANNEL — 24" WIDTH



Grip Strut 10-Diamond Walkway Channel — 24" Width

Allowable loads and deflections: U=Uniform load (lb./ft.²) 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.²

Material Gauge	Weight lb./lin. ft.	Catalog Number	Load/Defl. Code	Span														
				3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
Steel 14 ga.	8.9	104514-U	U	300	300	300	263	213	176	148	126	109	95	83	66	53	43	
			D	.42	.45	.48	.47	.42	.40	.40	.41	.43	.45	.47	.55	.64	.75	
			C	400	400	400	400	400	400	400	400	380	355	333	296	266	242	
			D	.33	.33	.34	.35	.36	.38	.39	.41	.42	.41	.41	.42	.44	.47	
Steel 12 ga.	12.5	104512-U	U	475	475	475	420	340	281	236	201	173	151	133	105	85	70	59
			D	.38	.40	.43	.43	.39	.37	.37	.37	.39	.41	.44	.51	.59	.69	.80
			C	900	900	900	900	850	773	709	654	607	567	531	472	425	387	354
			D	.35	.35	.36	.37	.37	.35	.34	.33	.33	.33	.33	.35	.37	.40	.44

Engineering Data (for both channels)

Material Gauge	Channel Depth in.	Sx in. ³	Ix in. ⁴	EI lb. x in. ²
Steel 14 ga.	4-1/2"	.806	1.43	41.47 x 10 ⁶
Steel 12 ga.	4-1/2"	1.290	2.42	10.03 x 10 ⁶

Strut Loading

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

** U = Allowable uniform load (lb./ft.²)

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