

GRS7: Grip-Strut Bridge Channel



Features:

- Serrated diamond pattern allows flexibility in attaching hardware
- 7" wide by 10' channel with 2" side rails

Construction:

- 14 gauge hot-dip galvanized steel

Related Products:

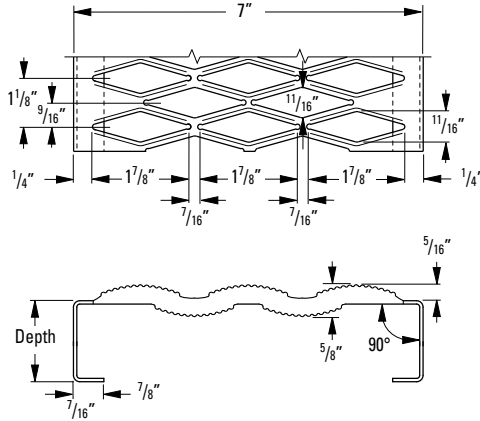
- GRS12, GRS12-10, GRS24, and GRS24-10 Grip-Strut Bridge Channels; B501 Solid Bridge Channel

Part #	Size	Gauge	Depth
GRS7	7" x 10'	14	2"

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Safe Loading Tables

3-Diamond Plank – 7” Width



Product Selection/Design Tables

Allowable Loads and Deflections: U=Uniform Load (lb./ft.) 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	Channel Depth in. (mm)	Weight lb./in. ft. (kg/m)	Catalog Number	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"	9'-0"	10'-0"	11'-0"	12'-0"			
Steel 14 ga.	1 1/2" (38.1)	3.0 (4.46)	31514	U	899	577	402	269	227	180	147	122	103										
				D	.06	.10	.14	.20	.26	.33	.40	.49	.59										
				C	524	421	351	302	265	237	214	196	180										
	2"	3.2 (4.76)	32014	U	1492	957	665	490	376	298	242	201	169	145	125	110	97	77	63				
				D	.06	.09	.13	.17	.23	.29	.35	.43	.51	.61	.71	.81	.93	1.19	1.49				
				C	871	697	582	500	439	391	353	322	296	275	256	240	226	203	185				
	2 1/2" (63.5)	3.5 (5.21)	32514	U	1712	1097	763	562	431	342	277	230	194	166	144	126	111	89	73	61	52		
				D	.04	.06	.08	.11	.14	.18	.23	.27	.33	.39	.45	.52	.59	.76	.94	1.16	1.40		
				C	999	800	668	574	503	448	405	369	340	315	293	275	259	233	212	195	181		
	Steel 12 ga.	1 1/2" (38.1)	4.1 (6.10)	31512	U	1189	763	532	392	301	239	195	162	137	118	102	90	79					
					D	.07	.11	.15	.21	.27	.35	.43	.52	.63	.74	.87	1.00	1.15					
					C	694	556	465	400	352	314	284	260	240	223	208	196	185					
2"		4.5 (6.70)	32012	U	1896	1216	846	623	478	379	308	256	216	185	160	140	124	99	82	68	58		
				D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.55	.64	.74	.85	1.08	1.36	1.67	2.01		
				C	1106	886	740	636	558	498	450	410	378	350	327	307	289	260	238	219	203		
2 1/2" (63.5)		4.9 (7.29)	32512	U	2836	1817	1263	929	712	564	457	379	319	272	235	206	181	144	118	98	83		
				D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.44	.52	.59	.68	.86	1.07	1.31	1.57		
				C	1654	1325	1105	948	831	740	667	608	558	516	481	450	423	378	343	314	290		
3"		5.2 (7.74)	33012	U	3587	2298	1597	1174	900	712	578	478	403	344	297	259	228	181	148	123	104		
				D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.44	.51	.59	.67	.86	1.07	1.30	1.55		
				C	1868	1675	1397	1199	1050	935	843	767	705	652	606	567	533	476	431	395	364		
			D	.03	.04	.06	.09	.11	.14	.18	.22	.26	.30	.35	.41	.46	.59	.73	.89	1.07			