

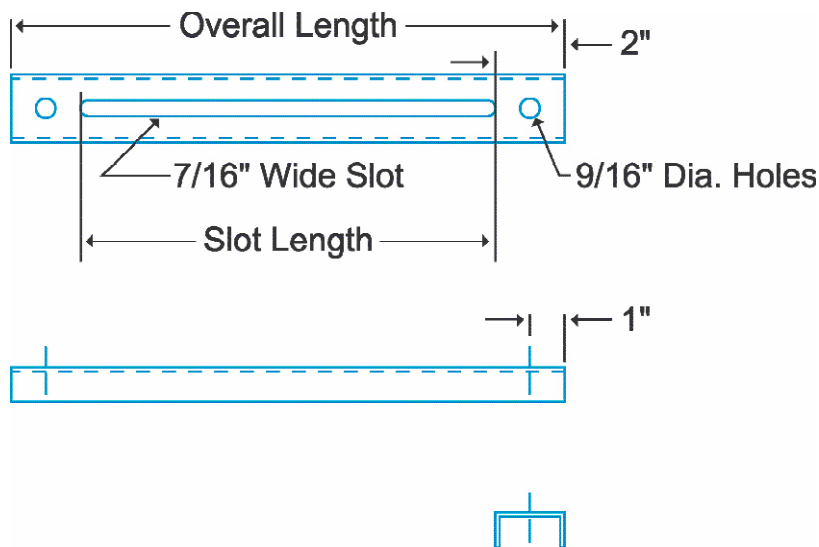
GENERAL INFORMATION

The channel flanges point down. 7/16" slot is centered in the channel web. Channel lengths that include '*' use the double slot details. Load ratings are listed for three materials having the following properties:

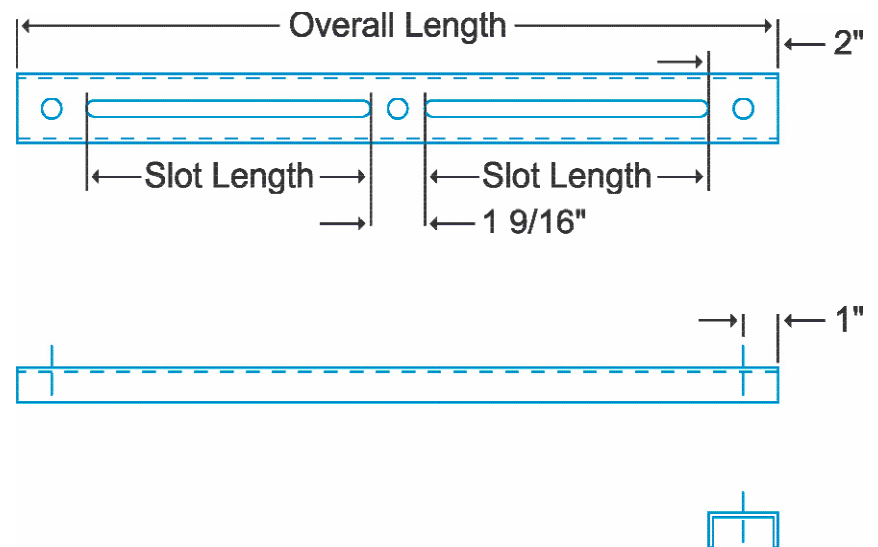
Material	Yield Stress (KSI)	Mod. of Elasticity (KSI)
A-36 Carbon Steel	36	29000
304 Stainless Steel	30	28100
6061-T6 Aluminum	37	10000

Load ratings are based on ASD, 9TH Edition, Section F1, however it is suggested that the loads in the tables be reduced by a Factor of Safety of 2 for safe performance.

SINGLE SLOT CHANNEL



DOUBLE SLOT CHANNEL



CHANNEL SIZE: C 3 X 5

Section Properties of Reduced Section for Load and Deflection Rating			
Area	Moment of Inertia	Min. Section Mod.	Radius of Gyration
(lbs.)	(in.^4)	(in.^3)	(in.)
1.355	0.234	0.227	0.416

Material: A-36 (Carbon Steel) Hot-Dipped Galvanized

Overall Length	Max Point Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)	Max. Dist. Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)
16"	1400	0.0118	1400	1400	2800	0.0147	2800	2800
18"	1225	0.0154	1225	1225	2450	0.0192	2450	2450
20"	1089	0.0195	1089	1089	2177	0.0244	2177	2177
22"	980	0.0241	980	980	1960	0.0301	1960	1960
24"	891	0.0291	891	891	1782	0.0364	1782	1782
26"	817	0.0346	817	817	1633	0.0433	1633	1633
28"	754	0.0407	754	754	1507	0.0508	1507	1507
30"	700	0.0471	700	700	1400	0.0589	1400	1400
32"	653	0.0541	653	653	1306	0.0677	1306	1306
34"	612	0.0616	612	612	1225	0.0770	1225	1225
36"	576	0.0695	576	576	1153	0.0869	1153	1153
38"	544	0.0779	544	544	1089	0.0974	1089	1089
40"	516	0.0868	516	516	1031	0.1085	1031	1003
42"	490	0.0962	490	490	980	0.1203	980	905
44"	467	0.1061	467	467	933	0.1326	933	821
46"	445	0.1164	445	445	891	0.1455	891	748
*48"	426	0.1272	426	426	852	0.1591	852	684
*50"	408	0.1385	408	393	817	0.1732	817	629
*52"	392	0.1503	392	362	784	0.1879	784	579
*54"	377	0.1626	377	335	754	0.2033	754	536
*56"	363	0.1754	363	310	726	0.2192	726	497
*58"	350	0.1886	350	289	700	0.2357	693	462
*60"	338	0.2023	338	269	676	0.2529	646	431

CHANNEL SIZE: C 3 X 5

Section Properties of Reduced Section for Load and Deflection Rating			
Area	Moment of Inertia	Min. Section Mod.	Radius of Gyration
(lbs.)	(in.^4)	(in.^3)	(in.)
1.355	0.234	0.227	0.416

Material: A-479 304 (304 Stainless Steel)

Overall Length	Max Point Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)	Max. Dist. Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)
16"	1166	0.0101	1166	1166	2333	0.0127	2333	2333
18"	1021	0.0132	1021	1021	2041	0.0165	2041	2041
20"	907	0.0168	907	907	1815	0.0209	1815	1815
22"	817	0.0207	817	817	1633	0.0259	1633	1633
24"	742	0.0250	742	742	1485	0.0313	1485	1485
26"	680	0.0298	680	680	1361	0.0372	1361	1361
28"	628	0.0350	628	628	1256	0.0437	1256	1256
30"	583	0.0405	583	583	1166	0.0507	1166	1166
32"	544	0.0465	544	544	1089	0.0582	1089	1089
34"	510	0.0530	510	510	1021	0.0662	1021	1021
36"	480	0.0598	480	480	961	0.0747	961	961
38"	454	0.0670	454	454	907	0.0838	907	907
40"	430	0.0747	430	430	860	0.0933	860	860
42"	408	0.0827	408	408	817	0.1034	817	817
44"	389	0.0912	389	389	778	0.1140	778	778
46"	371	0.1001	371	371	742	0.1252	742	725
*48"	355	0.1094	355	355	710	0.1368	710	663
*50"	340	0.1192	340	340	680	0.1489	680	609
*52"	327	0.1293	327	327	653	0.1616	653	561
*54"	314	0.1398	314	314	628	0.1748	628	519
*56"	302	0.1508	302	301	605	0.1885	605	481
*58"	292	0.1622	292	280	583	0.2027	583	448
*60"	282	0.1740	282	261	563	0.2175	563	417

CHANNEL SIZE: C 3 X 5

Section Properties of Reduced Section for Load and Deflection Rating			
Area	Moment of Inertia	Min. Section Mod.	Radius of Gyration
(lbs.)	(in.^4)	(in.^3)	(in.)
1.355	0.234	0.227	0.416

Material: 6061-T6 (Aluminum)

Overall Length	Max Point Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)	Max. Dist. Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)
16"	1439	0.0351	1439	1439	2877	0.0439	2877	2548
18"	1259	0.0459	1259	1219	2518	0.0574	2518	1951
20"	1119	0.0581	1119	963	2238	0.0726	2238	1541
22"	1007	0.0717	1007	780	2014	0.0896	1873	1249
24"	916	0.0867	916	645	1831	0.1084	1548	1032
26"	839	0.1032	813	542	1678	0.1290	1301	867
28"	775	0.1212	693	462	1549	0.1515	1108	739
30"	719	0.1405	597	398	1439	0.1756	956	637
32"	671	0.1613	520	347	1343	0.2016	832	555
34"	629	0.1835	457	305	1259	0.2294	732	488
36"	592	0.2072	405	270	1185	0.2590	648	432
38"	559	0.2323	361	241	1119	0.2904	578	385
40"	530	0.2588	324	216	1060	0.3235	519	346
42"	504	0.2868	293	195	1007	0.3585	468	312
44"	480	0.3162	265	177	959	0.3952	425	283
46"	458	0.3470	242	161	916	0.4337	387	258
*48"	438	0.3793	221	148	876	0.4741	354	236
*50"	420	0.4130	203	135	839	0.5162	325	217
*52"	403	0.4481	187	125	806	0.5601	300	200
*54"	387	0.4846	173	115	775	0.6058	277	185
*56"	373	0.5226	161	107	746	0.6533	257	171
*58"	360	0.5621	149	100	719	0.7026	239	159
*60"	347	0.6029	139	93	695	0.7537	223	148

CHANNEL SIZE: C 4 X 5.4

Section Properties of Reduced Section for Load and Deflection Rating			
Area	Moment of Inertia	Min. Section Mod.	Radius of Gyration
(lbs.)	(in.^4)	(in.^3)	(in.)
1.509	0.308	0.278	0.452

Material: A-36 (Carbon Steel) Hot-Dipped Galvanized

Overall Length	Max Point Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)	Max. Dist. Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)
16"	1713	0.0110	1713	1713	3426	0.0137	3426	3426
18"	1499	0.0143	1499	1499	2997	0.0179	2997	2997
20"	1332	0.0181	1332	1332	2664	0.0227	2664	2664
22"	1199	0.0224	1199	1199	2398	0.0280	2398	2398
24"	1090	0.0271	1090	1090	2180	0.0338	2180	2180
26"	999	0.0322	999	999	1998	0.0403	1998	1998
28"	922	0.0378	922	922	1845	0.0473	1845	1845
30"	856	0.0438	856	856	1713	0.0548	1713	1713
32"	799	0.0503	799	799	1599	0.0629	1599	1599
34"	749	0.0573	749	749	1499	0.0716	1499	1499
36"	705	0.0647	705	705	1411	0.0808	1411	1411
38"	666	0.0725	666	666	1332	0.0906	1332	1332
40"	631	0.0808	631	631	1262	0.1010	1262	1262
42"	599	0.0895	599	599	1199	0.1119	1199	1191
44"	571	0.0987	571	571	1142	0.1233	1142	1080
46"	545	0.1083	545	545	1090	0.1354	1090	984
48"	521	0.1183	521	521	1043	0.1479	1043	900
50"	500	0.1289	500	500	999	0.1611	999	827
52"	480	0.1398	480	476	959	0.1748	959	762
54"	461	0.1512	461	440	922	0.1890	922	705
56"	444	0.1631	444	408	888	0.2039	888	653
58"	428	0.1754	428	380	856	0.2192	856	608
60"	413	0.1882	413	354	827	0.2352	827	566

CHANNEL SIZE: C 4 X 5.4

Section Properties of Reduced Section for Load and Deflection Rating			
Area	Moment of Inertia	Min. Section Mod.	Radius of Gyration
(lbs.)	(in.^4)	(in.^3)	(in.)
1.509	0.308	0.278	0.452

A-479 304 (304 Stainless Steel)

Overall Length	Max Point Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)	Max. Dist. Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)
16"	1427	0.0094	1427	1427	2855	0.0118	2855	2855
18"	1249	0.0123	1249	1249	2498	0.0154	2498	2498
20"	1110	0.0156	1110	1110	2220	0.0195	2220	2220
22"	999	0.0192	999	999	1998	0.0241	1998	1998
24"	908	0.0233	908	908	1817	0.0291	1817	1817
26"	833	0.0277	833	833	1665	0.0346	1665	1665
28"	769	0.0325	769	769	1537	0.0406	1537	1537
30"	714	0.0377	714	714	1427	0.0471	1427	1427
32"	666	0.0433	666	666	1332	0.0541	1332	1332
34"	624	0.0493	624	624	1249	0.0616	1249	1249
36"	588	0.0556	588	588	1175	0.0695	1175	1175
38"	555	0.0623	555	555	1110	0.0779	1110	1110
40"	526	0.0695	526	526	1052	0.0868	1052	1052
42"	500	0.0770	500	500	999	0.0962	999	999
44"	476	0.0849	476	476	952	0.1061	952	952
46"	454	0.0931	454	454	908	0.1164	908	908
48"	434	0.1018	434	434	869	0.1272	869	869
50"	416	0.1108	416	416	833	0.1385	833	801
52"	400	0.1203	400	400	799	0.1503	799	739
54"	384	0.1301	384	384	769	0.1626	769	683
56"	370	0.1403	370	370	740	0.1753	740	633
58"	357	0.1508	357	357	714	0.1886	714	589
60"	345	0.1618	345	343	689	0.2023	689	549

CHANNEL SIZE: C 4 X 5.4

Section Properties of Reduced Section for Load and Deflection Rating			
Area	Moment of Inertia	Min. Section Mod.	Radius of Gyration
(lbs.)	(in.^4)	(in.^3)	(in.)
1.509	0.308	0.278	0.452

Material: 6061-T6 (Aluminum)

Overall Length	Max Point Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)	Max. Dist. Load (LB)	Deflection (IN)	L/240 (LB)	L/360 (LB)
16"	1760	0.0327	1760	1760	3521	0.0408	3521	3352
18"	1540	0.0427	1540	1540	3081	0.0533	3081	2567
20"	1369	0.0540	1369	1267	2738	0.0675	2738	2028
22"	1232	0.0667	1232	1027	2464	0.0834	2464	1643
24"	1120	0.0807	1120	848	2240	0.1009	2036	1358
26"	1027	0.0960	1027	713	2054	0.1200	1711	1141
28"	948	0.1127	911	607	1896	0.1409	1458	972
30"	880	0.1307	786	524	1760	0.1634	1257	838
32"	821	0.1500	684	456	1643	0.1875	1095	730
34"	770	0.1707	602	401	1540	0.2134	962	642
36"	725	0.1927	533	355	1450	0.2409	853	568
38"	685	0.2160	475	317	1369	0.2701	760	507
40"	649	0.2407	427	284	1297	0.3009	683	455
42"	616	0.2667	385	257	1232	0.3334	616	411
44"	587	0.2941	349	233	1174	0.3676	559	372
46"	560	0.3227	318	212	1120	0.4034	509	339
48"	536	0.3527	291	194	1072	0.4409	466	311
50"	513	0.3841	267	178	1027	0.4801	428	285
52"	493	0.4168	246	164	986	0.5210	394	263
54"	474	0.4508	228	152	948	0.5635	364	243
56"	456	0.4861	211	141	913	0.6076	338	225
58"	440	0.5228	196	131	880	0.6535	314	210
60"	425	0.5608	183	122	850	0.7010	293	195