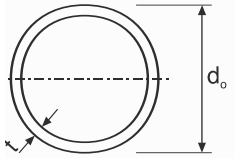
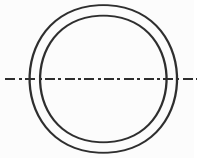
TABLE 6-2(1)

CIRCULAR HOLLOW SECTIONS
GRADE C350

CHS C350





DESIGN MEMBER CAPACITIES IN AXIAL COMPRESSION
buckling about any axis

Designation d_o t	Mass per m	Design Member Capacities in Axial Compression ϕN_c (kN) Effective Length (L_e) in metres													
mm mm	kg/m	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	12.0	14.0	16.0
457.0 x 12.7 CHS	139	5580	5580	5570	5490	5400	5290	5150	4990	4810	4590	4340	3750	3130	2570
9.5 CHS	105	4210	4210	4200	4140	4070	3990	3890	3770	3630	3470	3280	2850	2380	1960
6.4 CHS	71.1	2580	2580	2580	2550	2510	2460	2410	2340	2270	2180	2080	1840	1570	1310
406.4 x 12.7 CHS	123	4950	4950	4920	4840	4740	4610	4460	4280	4060	3810	3520	2900	2320	1860
9.5 CHS	93.0	3730	3730	3710	3650	3580	3480	3370	3230	3070	2890	2670	2210	1770	1420
6.4 CHS	63.1	2430	2430	2420	2380	2340	2280	2210	2130	2030	1910	1780	1490	1210	973
355.6 x 12.7 CHS	107	4310	4310	4270	4180	4070	3920	3750	3530	3270	2980	2670	2080	1610	1270
9.5 CHS	81.1	3250	3250	3220	3160	3070	2970	2840	2680	2490	2270	2030	1590	1230	973
6.4 CHS	55.1	2210	2210	2190	2150	2090	2020	1930	1830	1700	1550	1400	1090	852	672
4.0 CHS	34.7	1130	1130	1120	1100	1080	1050	1010	972	921	863	796	654	523	418
323.9 x 12.7 CHS	97.5	3910	3910	3860	3760	3640	3480	3280	3040	2750	2440	2140	1610	1230	961
9.5 CHS	73.7	2960	2960	2920	2850	2750	2640	2490	2310	2100	1870	1640	1240	946	740
6.4 CHS	50.1	2010	2010	1980	1940	1880	1800	1700	1580	1440	1280	1130	856	655	512
4.8 CHS	37.8	1410	1410	1390	1360	1320	1270	1210	1130	1040	941	835	642	494	388
4.0 CHS	31.6	1070	1070	1060	1040	1020	980	937	885	822	751	674	527	410	323
273.1 x 12.7 CHS	81.6	3270	3270	3200	3090	2950	2750	2510	2210	1900	1610	1360	985	740	574
9.3 CHS	60.5	2430	2430	2380	2300	2190	2050	1870	1660	1430	1220	1030	748	562	436
6.4 CHS	42.1	1690	1690	1650	1600	1530	1430	1310	1170	1010	859	728	530	399	310
4.8 CHS	31.8	1270	1270	1250	1210	1150	1080	994	885	767	654	555	404	304	236
219.1 x 12.7 CHS	64.6	2590	2580	2500	2360	2170	1920	1610	1310	1060	864	713	506	377	291
8.2 CHS	42.6	1710	1700	1650	1570	1450	1290	1090	893	724	591	489	347	259	200
6.4 CHS	33.6	1350	1340	1300	1230	1140	1020	865	711	578	472	391	278	207	160
4.8 CHS	25.4	1020	1010	982	934	865	773	659	543	442	362	299	213	158	122
4.0 CHS	21.2	851	849	822	781	725	648	553	457	372	304	252	179	133	103
193.7 x 8.0 CHS	36.6	1470	1460	1400	1310	1170	992	797	629	500	403	331	234	174	134
6.0 CHS	27.8	1110	1110	1060	993	893	759	613	485	386	312	256	181	134	104
178.0 x 6.0 CHS	25.5	1020	1010	964	888	777	634	494	383	302	243	199	140	104	80.2
168.3 x 11.0 CHS	42.7	1710	1690	1600	1440	1220	952	720	551	431	345	282	198	147	113
7.1 CHS	28.2	1130	1120	1060	964	822	649	495	380	297	238	195	137	102	78.4
6.4 CHS	25.6	1030	1010	960	874	746	591	451	346	271	217	178	125	92.8	71.6
4.8 CHS	19.4	777	767	728	664	570	453	347	267	209	168	137	96.6	71.6	55.2
3.2 CHS	13.0	523	517	491	449	386	309	237	183	143	115	94.1	66.2	49.1	37.9

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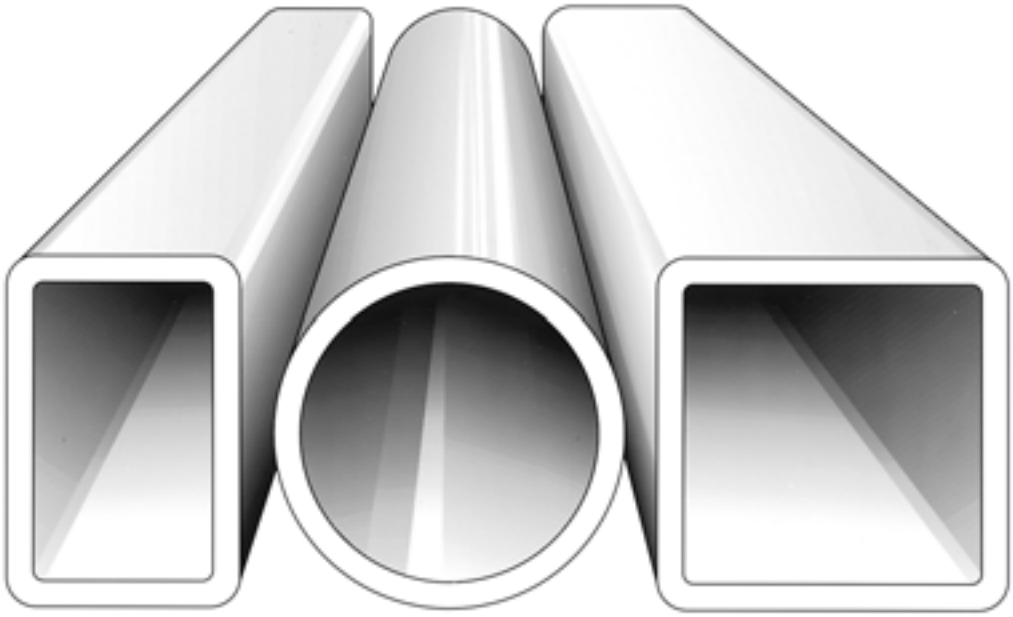
design capacity tables for structural steel



Volume 2: Hollow Sections

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CHS - Grade C250/C350 (to AS 1163)

RHS - Grade C350/C450 (to AS 1163)

SHS - Grade C350/C450 (to AS 1163)

LIMIT STATES EDITION TO AS 4100-1998

$S^* \leq \phi R_u$

design capacity tables for structural steel

Volume 2: Hollow Sections

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TABLE OF CONTENTS

PART 6 MEMBERS SUBJECT TO AXIAL COMPRESSION

TABLES

NOTE: SEE SECTION 2.1 FOR THE SPECIFIC MATERAL STANDARD (AS 1163) REFERRED TO BY THE SECTION TYPE AND STEEL GRADE IN THESE TABLES