

Grade 300 Steel																								
Designation		ø N	Design Load Capacities for Axial Compression ø N (kN) for Effective Length (L) in metres																				Percent holes to affect net Area, A _n	
	kg/m	0	0.5	1	1.5	2	2.25	2.5	2.75	3	3.25	3.5	3.75	4	4.25	4.5	4.75	5	6	7	8	9		10
310UC	137	4410	4410	4410	4310	4210	4150	4100	4040	3980	3920	3850	3780	3700	3630	3540	3460	3370	2960	2540	2150	1810	1540	25%
310UC	96.8	3320	3320	3310	3230	3150	3110	3060	3020	2970	2910	2860	2800	2740	2670	2600	2530	2460	2130	1800	1500	1260	1060	20%
250UC	89.5	2870	2870	2850	2770	2680	2640	2590	2540	2490	2430	2370	2310	2240	2170	2090	2020	1930	1610	1310	1070	884	738	25%
250UC	72.9	2510	2510	2480	2410	2330	2290	2250	2200	2150	2100	2040	1980	1910	1840	1770	1700	1620	1330	1070	871	715	595	20%
200UC	59.5	2060	2060	2010	1930	1850	1800	1750	1690	1630	1560	1490	1410	1330	1260	1180	1110	1040	794	617	489	396	327	20%
200UC	52.2	1810	1810	1760	1690	1620	1570	1530	1480	1420	1360	1300	1230	1160	1100	1030	965	903	691	537	426	345	284	20%
200UC	46.2	1600	1600	1560	1500	1430	1390	1350	1300	1250	1200	1140	1080	1020	960	900	842	787	601	466	370	299	246	20%
150UC	37.2	1290	1280	1220	1150	1060	1010	951	889	824	759	696	637	582	532	487	447	411	300	227	177	142	117	20%
150UC	30.0	1110	1110	1050	986	904	855	801	744	685	627	572	521	474	432	395	361	331	241	182	142	114	93.2	14%
150UC	23.4	867	861	815	760	691	650	605	558	511	465	422	382	347	315	287	263	241	174	131	102	82.1	67.2	14%
100UC	14.8	544	527	478	410	323	280	242	210	182	160	140	124	111	99.3	89.4	80.9	73.5	52.2	38.9	30.1	24.0	19.6	14%

GRADE 350 STEEL																								
Designation		ø N	Design Load Capacities for Axial Compression ø N, (kN) for Effective Length (L) in metres																				Percent holes to affect net Area, A _n	
	kg/m	0	0.5	1	1.5	2	2.25	2.5	2.75	3	3.25	3.5	3.75	4	4.25	4.5	4.75	5	6	7	8	9		10
310UC	283	10700	10700	10700	10500	10200	10100	9920	9780	9620	9460	9290	9110	8920	8720	8510	8290	8050	7040	5990	5030	4230	3570	19%
310UC	198	7740	7740	7710	7520	7330	7220	7120	7000	6880	6760	6630	6490	6340	6180	6010	5830	5650	4870	4090	3400	2840	2390	17%
310UC	137	5360	5350	5330	5200	5050	4980	4900	4820	4740	4650	4550	4450	4340	4230	4100	3980	3850	3290	2740	2270	1890	1590	17%
310UC	96.8	3760	3760	3740	3650	3550	3490	3440	3380	3320	3250	3180	3110	3030	2940	2860	2760	2670	2270	1880	1550	1290	1080	17%
250UC	89.5	3490	3490	3440	3330	3220	3150	3090	3020	2940	2860	2770	2680	2580	2470	2370	2260	2150	1730	1380	1110	909	754	17%
250UC	72.9	2850	2850	2800	2710	2620	2570	2510	2450	2390	2320	2250	2170	2090	2000	1910	1820	1730	1390	1110	890	728	604	17%
200UC	59.5	2340	2340	2270	2170	2060	2000	1940	1860	1780	1700	1610	1520	1420	1330	1240	1160	1080	814	628	496	401	330	17%
200UC	52.2	2050	2050	1980	1900	1810	1750	1690	1630	1560	1480	1400	1320	1240	1160	1080	1010	938	709	546	432	348	287	17%
200UC	46.2	1920	1920	1860	1770	1680	1620	1570	1500	1430	1350	1270	1190	1110	1040	963	894	830	622	478	377	304	250	12%
150UC	37.2	1460	1450	1370	1280	1170	1110	1030	955	877	801	728	662	602	548	499	457	419	304	229	179	143	117	17%
150UC	30.0	1250	1240	1180	1090	991	930	863	793	723	656	594	538	488	443	403	368	337	244	184	143	115	93.7	12%
150UC	23.4	975	966	910	842	756	704	649	592	536	484	437	394	356	322	293	267	244	176	133	103	82.5	67.5	12%
100UC	14.8	612	590	530	444	340	291	250	215	186	162	142	126	112	100	90.2	81.6	74.1	52.5	39.1	30.2	24.1	19.6	12%