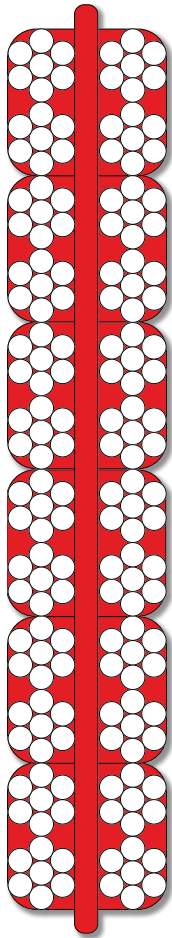


# Flat Balance Ropes



**Flat Balance**

CASAR Flat Balance Rope Strength and Weights								
Nominal values width w x thickness s mm		Nominal diameter of load-bearing wires	Sum of nominal cross sectional area of load- bearing wires	Nominal rope length mass of lubricated rope			Minimum Aggregate Breaking Force $f_{e,min}$	
				double stitched	single stitched	riveted/ clamped	Rope Grade	
double stitched	single stitched or riveted			double stitched	single stitched	riveted/ clamped	1370	1570
mm	mm	mm	mm <sup>2</sup>	kg/100 m	kg/100 m	kg/100 m	kN	kN
Rope class: 6 x 4 x 7 = 6 unit ropes each of 4 strands each of 1+6 wires = 168 wires								
70x17	70x15	1.6	338	342	328	322	463	531
74x18	74x16	1.7	381	385	370	362	522	598
78x19	78x17	1.8	428	433	416	407	586	672
82x20	82x18	1.9	476	481	462	453	652	747
87x21	87x19	2.0	526	534	513	502	723	829
91x22	91x20	2.1	582	588	565	553	797	914
95x23	95x21	2.2	639	646	620	607	875	1003
Rope class: 8 x 4 x 7 = 8 unit ropes each of 4 strands each of 1+6 wires = 224 wires								
110x20	110x18	1.9	635	642	616	604	870	997
113x20	113x18	1.95	669	676	649	636	917	1050
116x21	116x19	2.0	704	711	683	669	964	1105
119x21	119x19	2.05	739	747	717	702	1010	1160
122x22	122x20	2.1	776	784	753	738	1060	1220
125x22	125x20	2.15	813	822	789	773	1110	1280
128x23	128x21	2.2	851	860	826	809	1170	1340
Rope class: 6 x 4 x 12 = 6 unit ropes each of 4 strands each of 3+9 wires = 288 wires								
112x26	112x23	1.9	817	826	793	768	1120	1280
115x26	115x23	1.95	860	869	835	809	1180	1350
118x27	118x24	2.0	905	914	878	851	1240	1420
121x27	121x24	2.05	951	961	923	894	1300	1490
124x28	124x25	2.1	998	1010	968	939	1370	1570
127x28	127x25	2.15	1046	1060	1020	984	1430	1640
130x29	130x26	2.2	1095	1110	1070	1030	1500	1720
Rope class: 8 x 4 x 12 M = 8 unit ropes each of 4 strands each of 3+9 wires = 384 wires								
146x25	146x23	1.9	1089	1100	1060	1030	1490	1710
149x26	149x23	1.95	1147	1160	1120	1080	1570	1800
154x27	154x24	2.0	1206	1220	1170	1140	1650	1890
157x27	157x24	2.05	1267	1280	1230	1190	1740	1990
160x28	160x25	2.1	1330	1350	1290	1250	1820	2090
165x28	165x25	2.15	1394	1410	1360	1310	1910	2190
168x29	168x26	2.2	1460	1480	1420	1380	2000	2290
Rope class: 8 x 4 x 14 M = 8 unit ropes each of 4 strands each of 4+10 wires = 448 wires								
168x28	168x25	2.0	1407	1430	1370	1330	1930	2210
172x29	172x26	2.05	1479	1500	1440	1390	2030	2320
176x29	176x26	2.1	1552	1570	1510	1460	2130	2440
180x30	180x27	2.15	1626	1650	1580	1530	2230	2550
184x30	184x27	2.2	1703	1720	1660	1600	2330	2670
Rope class: 8 x 4 x 19 M = 8 unit ropes each of 4 strands each of 1+6+12 wires = 608 wires								
186x31	186x28	1.9	1724	1750	1680	1620	2360	2710
190x32	190x29	1.95	1816	1840	1780	1700	2490	2850
194x33	194x30	2.0	1910	1930	1860	1800	2620	3000
200x34	200x31	2.05	2007	2030	1950	1890	2750	3150
204x34	204x31	2.1	2106	2130	2040	1980	2890	3310
210x36	210x32	2.15	2207	2230	2140	2080	3020	3460
216x37	216x33	2.2	2311	2330	2240	2180	3170	3630

Values according to EN 12385-6:2004. Product specifications are subject to change without notice or obligation. The shown drawings or cross sections are only for illustrative purposes; the images can vary depending on requested diameter and current status of technical development. This table is for reference only. Additional sizes available upon request.