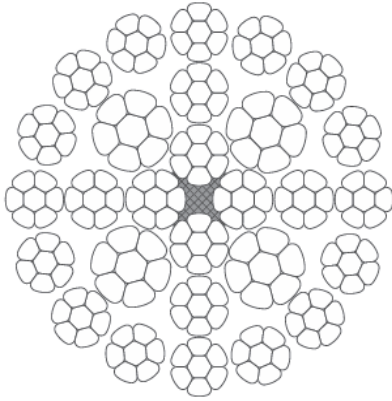


Mobile Lattice Boom / Crawler Crane Rope Specifications

KEY: RR = rotation resistance; C = compacted; PIR = Plastic Impregnation W = Warrington Core

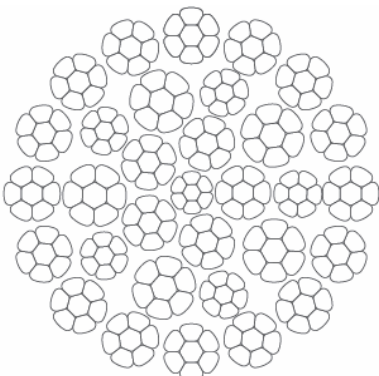
Hoist & Auxiliary Ropes

28x7 RR + C + W



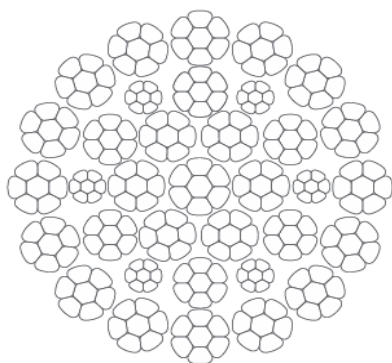
Diameter		Section	Mass	Minimum breaking load	
mm	inch	mm ²	kg/m	kN	kN
			1960 MPa 2160 MPa		
10	-	55.3	0.49	89.1	99
11	7/16	66.9	0.59	107.8	119.8
12	-	79.6	0.71	128.3	142.6
13	1/2	93.4	0.83	150	167.3
14	9/16	108.3	0.96	174.6	194.0
15	-	124.3	1.10	200	222.8
16	5/8	141.4	1.25	228.1	253.4
17	-	159.7	1.42	260	286.1
			f - Fill Factor	k - Spinning Loss Factor	
			0.700	0.823	0.830

32x7 RR + C + W

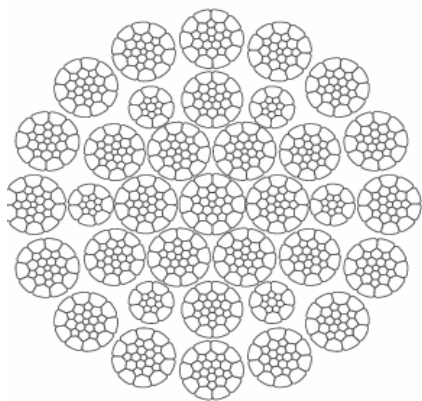


Diameter		Section	Mass	Minimum breaking load	
mm	inch	mm ²	kg/m	kN	kN
			1960 MPa 2160 MPa		
18	-	177.2	1.59	286	317.6
19	3/4	197.4	1.77	319	356
20	-	218.8	1.96	353	392.2
21	-	241.2	2.16	389	432.4
22	7/8	264.7	2.38	427	474.5
23	-	289.3	2.60	467	518.6
24	-	315.0	2.83	508	564.7
25	1	341.8	3.07	551	612.7
26	-	369.7	3.32	596	662.7
			f - Fill Factor	k - Spinning Loss Factor	
			0.700	0.823	0.830

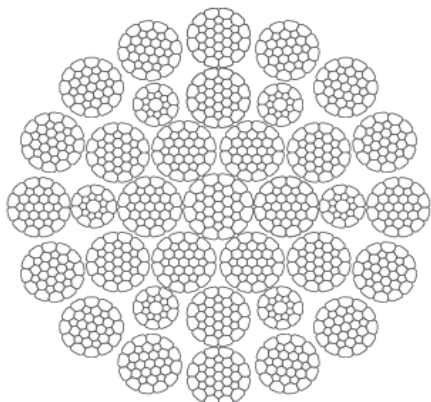
35x7 RR + C + W



Diameter		Section	Mass	Minimum breaking load	
mm	inch	mm ²	kg/m	kN	kN
			1960 MPa 2160 MPa		
28	1-1/8	433.1	3.87	698	760.8
29	-	464.6	4.15	749	816
30	-	497.2	4.44	801	873
32	-	565.7	5.05	912	994
34	1-3/8	638.6	5.71	1029	1122
36	-	715.9	6.40	1154	1258
38	1-1/2	797.7	7.13	1285	1401
40	-	883.8	7.90	1424	1553
42	1-5/8	974.4	8.71	1570	1712
44	-	1069.4	9.56	1723	1879
46	-	1168.9	10.45	1884	2053
48	1-7/8	1272.7	11.37	2051	2236
			f - Fill Factor	k - Spinning Loss Factor	
			0.700	0.823	0.813

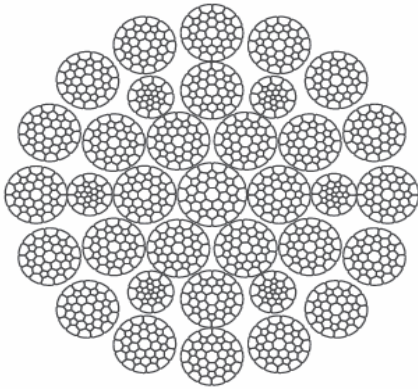
35x26 RR + C + W

Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				2160 MPa
68	-	2602.7	23.42	4352
70	-	2758.0	24.82	4611
72	-	2917.9	26.26	4879
			f - Fill Factor	k - Spinning Loss Factor
			0.717	0.774

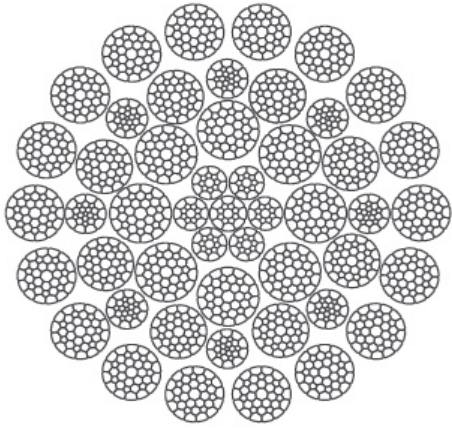
35x31 RR + C + W

Diameter		Section	Mass	Minimum breaking load	
mm	inch	mm ²	kg/m	kN	kN
			1960 MPa 2060 MPa		
74	-	3040.2	27.37	-	5046
76	3	3206.8	28.87	-	5322
78	-	3377.8	30.41	-	5606
80	-	3553.2	31.99	-	5897
82	-	3718.5	33.47	-	6172
84	-	3825.2	34.20	-	6410
86	-	4009.5	35.85	-	6719
89	3-1/2	4294.1	38.40	-	7196
			f - Fill Factor	k - Spinning Loss Factor	
			0.724	0.850	0.742

35x36 RR + C + W



Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
			2060 MPa	
93	-	4706.6	42.01	8043
97	-	5120.2	45.70	8750
100	-	5441.8	48.57	9299
102	-	5661.7	50.54	9675
109	-	6331.4	56.81	10800
			f - Fill Factor	k - Spinning Loss Factor
			0.690	0.870

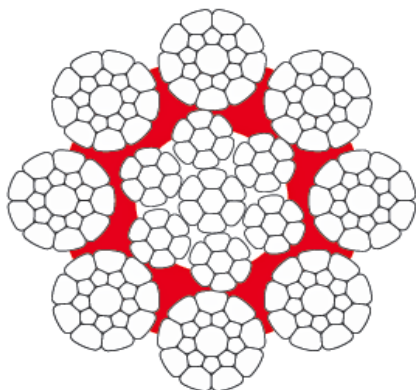


Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				2060 MPa
113	4-1/2	6804.7	61.05	11607
118	-	7420.2	66.57	12657
121	-	7802.3	70.00	13309
125	-	8326.6	74.71	14204
f - Fill Factor				k - Spinning Loss Factor
0.680				0.870

Mobile Lattice Boom / Crawler Crane Boom Ropes

Plastic Impregnated Boom Ropes (PIR) For Guided Systems Only

8x19 PIR

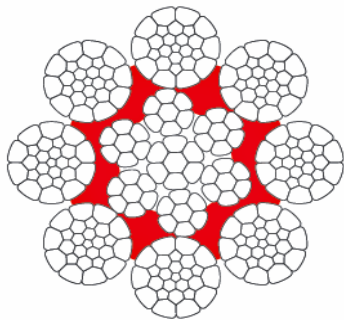


Diameter		Section	Mass	Minimum breaking load		
mm	inch			mm ²	kg/m	kN
					1960 MPa	2160 MPa
6.5	-	23.5	0.20	-	41.8	
7	-	27.3	0.24	-	48.5	
7.2	-	28.9	0.26	-	51.6	
8	5/16	35.8	0.32	-	65.6	
9	-	45.6	0.41	-	83.5	
10	-	56.9	0.51	-	104	
11	7/16	69.9	0.63	-	128	
12	-	82.0	0.73	-	150.5	
13	1/2	95.8	0.86	-	175.5	
14	9/16	110.4	0.99	-	202	
15	-	127.5	1.14	-	233.4	

f - Fill Factor	k - Spinning Loss Factor	
0.720	-	0.845

⚠ Never use with swivel

8x26 PIR

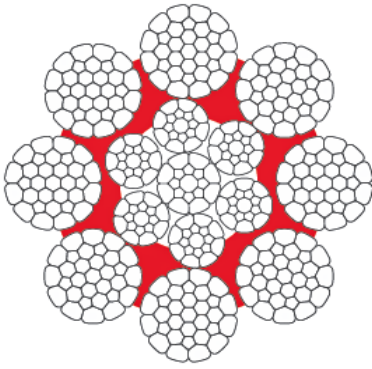


Diameter		Section	Mass	Minimum breaking load		
mm	inch			mm ²	kg/m	kN
					1960 MPa	2160 MPa
16	5/8	140.1	1.26	231	245	
18	-	177.3	1.59	292	310	
19	3/4	197.5	1.77	326	345	
20	-	218.9	1.96	361	382	
22	7/8	264.8	2.37	437	463	
23	-	291.2	2.60	481	503	
24	-	317.1	2.83	523	548	
25.4	1	355.2	3.17	586	614	
26	-	372.1	3.32	614	643	
27	-	401.3	3.58	655	685	
28	1-1/8	420.8	3.72	705	737	
29	-	451.4	3.99	756	790	
30	-	483.1	4.27	809	846	
32	1-1/4	549.6	4.86	920	962	

f - Fill Factor	k - Spinning Loss Factor	
0.695	0.845	0.810

⚠ Never use with swivel

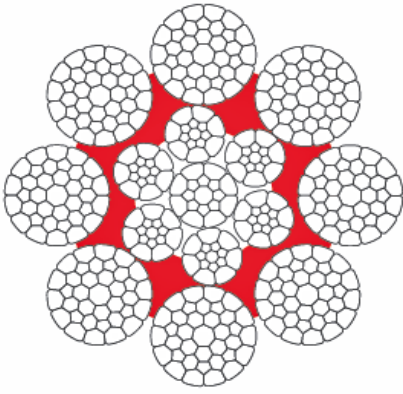
8x31 PIR



Diameter		Section	Mass	Minimum breaking load		
mm	inch			mm ²	kg/m	kN
				1960 MPa	2160 MPa	
34	1-3/8	619.4	5.56	1030	1051	
35	-	669.3	6.09	1091	1114	
36	-	708.1	6.44	1161	1186	
38	1-1/2	789.0	7.18	1294	1321	
40	-	874.2	7.96	1434	1464	
41.3	-	932.0	8.48	1529	1561	
42	1-5/8	960.2	8.74	1578	1611	
44	1-3/4	1053.8	9.60	1728	1765	
44.5	-	1077.9	9.82	1768	1805	
46	-	1151.8	10.49	1889	1929	
48	1-7/8	1254.1	11.42	2057	2100	
50	2	1342.3	12.15	2223	2269	
51	-	1396.5	12.64	2303	2351	
52	-	1451.8	13.14	2394	2444	
54	2-1/8	1565.6	14.17	2582	-	
56	-	1683.7	15.24	2776	-	
58	2-1/4	1806.2	16.35	2978	-	
				f - Fill Factor	k - Spinning Loss Factor	
				0.695	0.839	0.777

⚠ Never use with swivel

8x36 PIR

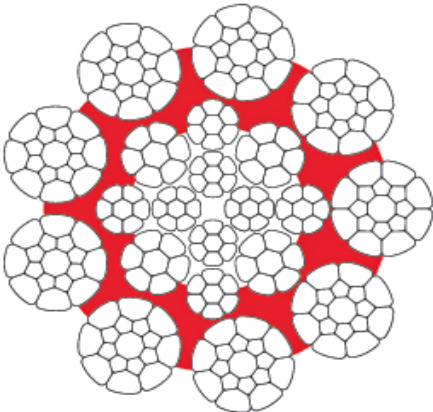


Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				1960 MPa
60	2-3/8	1946.1	17.72	3192
62	-	2078.0	18.92	3408
64	-	2214.3	20.16	3632
65	-	2284.0	20.80	3746
			f - Fill Factor	k - Spinning Loss Factor
			0.695	0.837

⚠ Never use with swivel

High Performance Plastic Impregnated Rope – Compacted with Warrington Core.

9X17 PIR High Performance

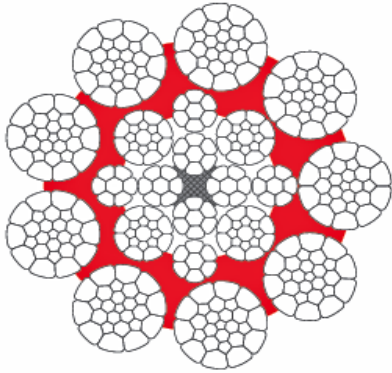


Diameter		Section	Mass	Minimum breaking load	
mm	inch	mm ²	kg/m	kN	kN
			1960 MPa 2160 MPa		
16	5/8	135.4	1.20	219	239
18	-	171.7	1.54	277	302
19	3/4	191.4	1.72	308	336

⚠ Never use with swivel

f - Fill Factor	k - Spinning Loss Factor	
0.675	0.830	0.815

9x26 PIR High Performance

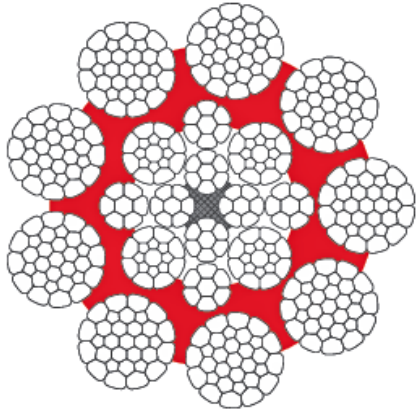


Diameter		Section	Mass	Minimum breaking load	
mm	inch	mm ²	kg/m	kN	kN
			1960 MPa 2160 MPa		
20	-	213.5	1.92	346	375
22	7/8	255.2	2.31	416	450
24	-	303.1	2.74	493	534
25	-	334.1	3.02	545	586
25.4	-	350.3	3.17	569	611
26	-	362.7	3.28	592	631
28	1-1/8	415.6	3.75	677	721
28.6	-	430.3	3.89	700	746
30	-	469.9	4.25	763	814
32	1-1/4	534.6	4.84	868	926

⚠ Never use with swivel

f - Fill Factor	k - Spinning Loss Factor	
0.675	0.830	0.815

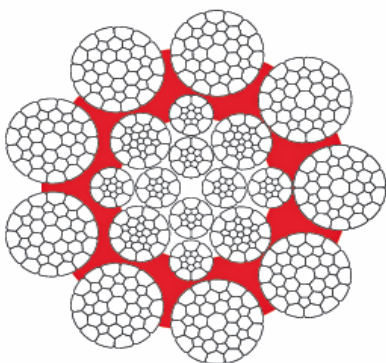
9x31 PIR High Performance



Diameter		Section mm ²	Mass kg/m	Minimum breaking load	
mm	inch			kN	kN
				1960 MPa	2160 MPa
34	1-3/8	617.5	5.56	1015	1075
35	-	652.9	5.88	1104	1155
36	-	689.2	6.21	1168	1222
38	1-1/2	763.9	6.90	1290	1362
40	-	857.6	7.76	1401	1487
41	-	918.4	8.24	1482	1558
42	-	953.8	8.73	1563	1631
44	-	1051.3	9.51	1716	1785
46	-	1142	10.31	1870	1945
48	-	1235.3	11.18	2030	2106
50	-	1343.2	12.17	2198	2272
			f - Fill Factor	k - Spinning Loss Factor	
			0.675	0.830	0.815

⚠ Never use with swivel

9x36 PIR High Performance

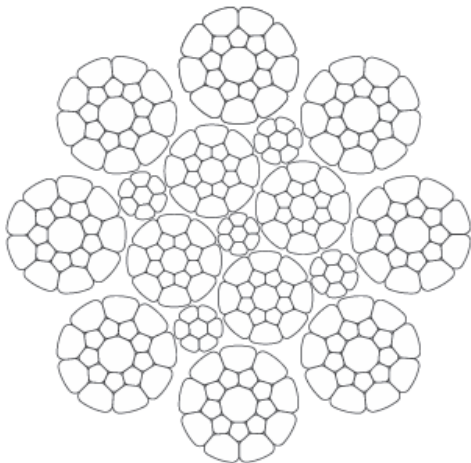


Diameter		Section	Mass	Minimum breaking load	
mm	inch			1960 MPa	2160 MPa
52	-	1443.4	12.99	2343	2405
54	-	1556.6	14.01	2527	2594
56	2-1/8	1674.0	15.07	2716	2789
58	-	1784.2	16.03	2934	3012
60	-	1914.6	17.24	3160	3244
62	2-3/8	2080.0	18.75	3402	3492
64	-	2186.4	19.98	3625	3721
⚠ Never use with swivel			f - Fill Factor	k - Spinning Loss Factor	
			0.675	0.830	0.790

Parallel Closed Ropes (boom)

Must be anchored at both ends under tension

8x19 Parallel Closed Boom Rope



Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				2160 MPa
6.4	-	23.7	0.20	43
7	-	28.3	0.25	51
7.2	-	29.9	0.26	54
8	5/16	36.8	0.32	67
9	-	46.6	0.40	85
10	-	57.1	0.50	105
11	7/16	69.1	0.60	126.4
12	-	82.1	0.71	150
13	1/2	95.9	0.83	175
14	9/16	112.2	0.97	205
15	-	130.0	1.13	238.6

f - Fill Factor

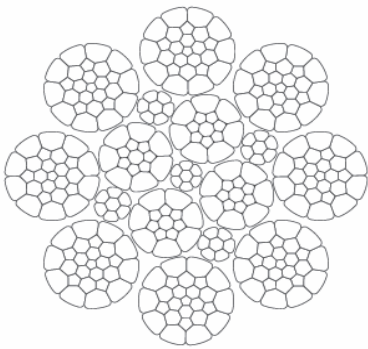
k - Spinning Loss Factor

0.733

0.845

⚠ Never use with swivel

8x26 Parallel Closed Boom Rope



Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				2160 MPa
16	5/8	149.1	1.31	273
18	-	187.4	1.64	343
19	3/4	208.8	1.83	382
20	-	231.3	2.02	423
22	7/8	279.9	2.45	512
24	-	333.2	2.92	609
25	-	361.5	3.16	661
26	-	379.9	3.32	703
28	1-1/8	454.0	3.96	821
28.6	-	473.7	4.13	856

f - Fill Factor

k - Spinning Loss Factor

0.733

0.845

⚠ Never use with swivel

8x31 Parallel Closed Boom Rope

Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				2160 MPa
30	-	521.2	4.55	942
32	1-1/4	602.8	5.29	1086
34	1-3/8	680.5	5.97	1226
36	-	762.9	6.69	1375
38	1-1/2	842.2	7.38	1495
40	-	943.3	8.27	1658
42	1-5/8	1040.0	9.12	1828
44.5	-	1117.1	9.74	2003
46	-	1193.7	10.41	2140
48	1-7/8	1296.6	11.35	2309
50	2	1406.9	12.32	2505
50.8	-	1452.3	12.71	2586
52	-	1521.7	13.32	2710
			f - Fill Factor	k - Spinning Loss Factor
			0.733	0.830

⚠ Never use with swivel

