



Hyfil 6

Regular Lay	Lang's Lay	Compacted	Rotary Seaged	Pl
•	•	•		•

• Benefits of Hyfil 6

- Hyfil 6 has a plastic layer between the core and the compacted outer strands.
- Hyfil 6 has a high breaking load and good structural stability.
- Hyfil 6 is fully lubricated and made out of galvanized/ungalvanized wires.
- Hyfil 6 is suitable for multy layer spooling
- Hyfil 6 has a good resistance against drum crushing. - Hyfil 6 must not be used with a swivel.



• Discard criteria

(The number of break in the load bearing wires in outer strands)

Length	Regular Lay		Lang's Lay	
	6xd	30xd	6xd	30xd
discard	14	29	7	14

• The basic designed data of hyfil 6

Size	12~ 34	12~ 38	12~ 45
Total number of wire	205	235	265
Number of load-bearing wires in outer strands	156	186	216
The number of outer wire in outer strand	60	72	84
Average fill factor	0.68		

Nominal rope diameter		Diameter tolerance		Approximate unit Wt.		Minimum breaking force (Fmin, MBF)								
						Metric unit				Imperial unit				
						1960 Grade		2160 Grade		1960 Grade		2160 Grade		
mm	inch	min. mm	max. mm	kg/m	lb/ft	kN	t(metric)	kN	t(metric)	klb	t(short)	klb	t(short)	
12		12.0	12.5	0.680		120.7	12.3	128.0	13.0					
(12.7)	1/2	12.7	13.2		1.13					30.4	15.2	32.2	16.1	
13		13.0	13.5	0.798		141.6	14.4	150.2	15.3					
14		14.0	14.6	0.926		164.2	16.7	174.2	17.8					
(14.3)	9/16	14.3	14.9		1.44					38.5	19.3	40.9	20.4	
15		15.0	15.6	1.06		188.5	19.2	200.0	20.4					
(15.9)	5/8	15.9	16.5		1.80					48.2	24.1	51.1	25.6	
16		16.0	16.6	1.21		214.5	21.9	227.5	23.2					
18		18.0	18.7	1.53		271.5	27.7	288.0	29.4					
19		19.0	19.8	1.71		302.5	30.8	320.8	32.7					
(19.1)	3/4	19.1	19.9		2.54					68.0	34.0	72.1	36.1	
20		20.0	20.8	1.89		335.2	34.2	355.5	36.2					
22		22.0	22.9	2.29		405.5	41.4	430.2	43.9					
(22.2)	7/8	22.2	23.1		3.46					92.8	46.4	98.5	49.2	
24		24.0	25.0	2.72		482.6	49.2	511.9	52.2					
25		25.0	26.0	2.95		523.7	53.4	555.5	56.6					
(25.4)	1	25.4	26.4		4.54					121.5	60.8	128.9	64.4	
26		26.0	27.0	3.19		566.4	57.8	600.8	61.3					
27		27.0	28.1	3.44		610.8	62.3	647.9	66.1					
28		28.0	29.1	3.70		656.9	67.0	696.8	71.0					
(28.6)	1-1/8	28.6	29.7		5.75					154.1	77.0	163.4	81.7	
29		29.0	30.2	3.97		704.7	71.9	747.4	76.2					
30		30.0	31.2	4.25		754.1	76.9	799.9	81.6					
31		31.0	32.2	4.54		805.2	82.1	854.1	87.1					
(31.8)	1-1/4	31.8	33.1		7.20					192.9	96.4	204.6	102.3	
32		32.0	33.3	4.84		858.0	87.5	910.1	92.8					
33		33.0	34.3	5.14		912.5	93.0	967.9	98.7					
34		34.0	35.4	5.46		968.6	98.8	1,027.4	104.8					
(34.9)	1-3/8	34.9	36.3		8.61					230.7	115.4	244.7	122.4	
35		35.0	36.4	5.79		1,026.4	104.7	1,088.7	111.0					
36		36.0	37.4	6.12		1,085.9	110.7	1,151.8	117.4					
38		38.0	39.5	6.82		1,209.9	123.4	1,283.4	130.9					
(38.1)	1-1/2	38.1	39.6		10.15					272.0	136.0	288.5	144.2	
40		40.0	41.6	7.56		1,340.6	136.7	1,422.0	145.0					
(41.3)	1-5/8	41.3	43.0		11.41					305.8	152.9	324.4	162.2	
42		42.0	43.7	8.33		1,478.0	150.7	1,567.8	159.9					
44		44.0	45.8	9.14		1,622.1	165.4	1,720.6	175.4					
(44.5)	1-3/4	44.5	46.3		13.92					373.0	186.5	395.6	197.8	
45		45.0	46.8	9.57		1,696.7	173.0	1,799.7	183.5					

: Available upon request