



Hyfil 18

Regular Lay	Lang's Lay	Compacted	Rotary Seaged	Pl
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• Benefits of Hyfil 18

- Hyfil 18 is most suitable rope for multi spooling systems with rotation resistant ropes are required especially in the marine environment.
- Hyfil 18 has a plastic layer between the inner strands and outer strands and all strands are compacted.
- The steel-plastic combination increases structural stability.
- Hyfil 18 has an extremely high breaking strength with good resistance to drum crushing.
- The rope is fully lubricated and made out of galvanized /ungalvanized wires.



• Discard criteria

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

Length	Lang's Lay	
	6xd	30xd
discard	6	11

• The basic designed data of hyfil 18

Size	16- 40
Total number of wire	259
Number of load-bearing wires in outer strands	126
The number of outer wire in outer strand	108
Average fill factor	0.73

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	mm	mm	kg/m	lb/ft	kN	t(metric)	kN	t(metric)	klb	t(short)	klb	t(short)
(15.9)	5/8	15.9	16.5		1.98					52.6	26.3	56.1	28.1
16		16.0	16.6	1.33		234.0	23.9	249.7	25.5				
18		18.0	18.7	1.68		296.2	30.2	316.0	32.2				
19		19.0	19.8	1.88		330.0	33.6	352.1	35.9				
(19.1)	3/4	19.1	19.9		2.79					74.2	37.1	79.2	39.6
20		20.0	20.8	2.08		365.3	37.2	389.8	39.7				
22		22.0	22.9	2.52		442.0	45.1	471.6	48.1				
(22.2)	7/8	22.2	23.1		3.81					101.2	50.6	108.0	54.0
24		24.0	25.0	2.99		526.0	53.6	561.3	57.2				
25		25.0	26.0	3.25		570.8	58.2	609.0	62.1				
(25.4)	1	25.4	26.4		4.99					132.4	66.2	141.3	70.7
26		26.0	27.0	3.51		617.3	62.9	658.7	67.2				
27		27.0	28.1	3.79		665.7	67.9	710.4	72.4				
28		28.0	29.1	4.07		716.0	73.0	764.0	77.9				
(28.6)	1-1/8	28.6	29.7		6.33					167.9	84.0	179.2	89.6
29		29.0	30.2	4.37		768.0	78.3	819.5	83.6				
30		30.0	31.2	4.68		821.1	83.7	876.1	89.3				
31		31.0	32.2	4.99		876.7	89.4	935.5	95.4				
(31.8)	1-1/4	31.8	33.1		7.92					210.0	105.0	224.1	112.0
32		32.0	33.3	5.32		934.2	95.3	996.8	101.6				
33		33.0	34.3	5.66		993.5	101.3	1,060.1	108.1				
34		34.0	35.4	6.01		1,054.6	107.5	1,125.3	114.7				
(34.9)	1-3/8	34.9	36.3		9.47					251.2	125.6	268.1	134.0
35		35.0	36.4	6.37		1,117.6	114.0	1,192.5	121.6				
36		36.0	37.4	6.74		1,182.3	120.6	1,261.6	128.6				
38		38.0	39.5	7.50		1,317.4	134.3	1,405.7	143.3				
(38.1)	1-1/2	38.1	39.6		11.17					148.1	74.0	316.0	158.0
40		40.0	41.6	8.32		1,459.7	148.8	1,557.6	158.8				

: Available upon request