



## SPECIFICATIONS FOR PRESTRESSING STRAND – TECHNICAL DATA

ASTM A416 – SEVEN-WIRE UNCOATED LOW RELAXATION STRAND							
Grade	Nominal Strand Diameter in [mm]	Strand Tolerance in [mm]	Minimum Breaking Strength Lbs [kgs]	Min. Yield Strength at 1% Extension Lbs [kgs]	Minimum Elongation at 24" Gauge	Nominal Area In <sup>2</sup> [mm <sup>2</sup> ]	Nominal Weight Lbs/1000 ft Kg/1000 m
250K	3/8" [9.5]	0.3910/0.3590 [9.93/9.13]	20,000 [9,072]	18,000 [8,165]	3.5%	0.080 [51.61]	272 [405]
	7/16" [11.1]	0.4535/0.4215 [11.51/10.71]	27,000 [12,247]	24,300 [11,022]		0.108 [69.68]	367 [548]
	1/2" [12.7]	0.5160/0.4840 [13.1/12.3]	36,000 [16,329]	32,400 [14,696]		0.144 [92.9]	490 [730]
270K	3/8" [9.5]	0.4010/0.3690 [10.18/9.38]	23,000 [10,433]	20,700 [9,389]	3.5%	0.085 [55.03]	290 [432]
	7/16" [11.1]	0.4635/0.4315 [11.76/10.96]	31,000 [14,061]	27,900 [12,655]		0.115 [74.19]	390 [582]
	1/2" [12.7]	0.5260/0.4940 [13.35/12.55]	41,300 [18,733]	37,170 [16,860]		0.153 [98.71]	520 [775]
	0.52" (1/2" HBS) [13.2]	0.5460/0.5140 [13.86/13.06]	45,000 [20,412]	40,500 [18,368]		0.165 [106.45]	563 [874]
	9/16" [14.3]	0.5885/0.5565 [14.94/14.14]	51,700 [23,451]	46,530 [21,102]		0.192 [123.87]	650 [967]
	0.6" [15.2]	0.6260/0.5940 [15.89/15.09]	58,600 [26,581]	52,740 [23,922]		0.217 [140.00]	740 [1,102]

RELAXATION PROPERTIES	
Initial Stress	Maximum Relaxation after 1000 Hours
70% G.U.T.S.	2.5%
80% G.U.T.S.	3.5%