

MAKLADA PC STRAND TECHNICAL DATA

ASTM A416M-2010 Low Relaxation

GRADE	Nominal Diameter,d		Tolerance on Diameter	Steel area of strand		Weight of strand		Tensile Strength	Minimum Breaking Load KN	Minimum Load at 1% Extension KN	Rp 0.1% KN	Min. Elong. Lo=610 mm %	Curvative of strand	Lay Length mm
	mm	in.		mm	mm ²	in. ²	kg/1000m							
250	7,90	5/16	+/- 0,40	37,40	0,058	294	197	1725	64,50	58,10	NA	3,5	Not specified	(12-16)xd
	9,50	3/8	+/- 0,40	51,60	0,08	405	272	1725	89,00	80,10	NA	3,5		
	11,10	7/16	+/- 0,40	69,70	1,108	548	367	1725	120,10	108,09	NA	3,5		
	12,70	1/2	+/- 0,40	92,90	0,144	730	490	1725	160,10	144,09	NA	3,5		
	15,20	6/10	+/- 0,40	139,40	0,216	1 094	737	1725	240,20	216,18	NA	3,5		
270	9,53	3/8	+0,65/-0,15	54,80	0,085	432	290	1860	102,30	92,10	NA	3,5		
	11,11	7/16	+0,65/-0,15	74,20	0,115	582	390	1860	137,90	124,10	NA	3,5		
	12,70	1/2	+0,65/-0,15	98,70	0,153	775	520	1860	183,70	165,30	NA	3,5		
	15,24	6/10	+0,65/-0,15	140	0,217	1 102	740	1860	260,70	234,60	NA	3,5		
	17,78	7/10	+0,65/-0,15	189,7	0,294	1 487	1000	1860	353,20	318,00	NA	3,5		

Max. relaxation loss after 1000 Hrs ≤ 2,5% when initial load at 70% of specified breaking Load

BS 5896 -2012 Relaxation Class 2

Steel name	Steel number	Diameter,d	Tensile Strength	Cross sectional area	Mass per meter	Deviation on mass per meter %	Characteristic value of max.force Fm	Maximum value of maximum force Fm	Fp 0.1%	Rt. 1.0%	Min. Elong. Lo=500 mm	Curvative of strand	Lay Length
		mm	N/mm ²	mm ²	g/m		KN	KN	KN	KN	%		mm
Y1670S7	1.136 4	15,20	1670	139	1086	± 2	232	267	204	NA	3,5	max.bow height = 25mm / 1meter	(14-18)xd
Y1700S7G*	1.137 0	18,00	1700	223	1742	± 2	379	436	334	NA	3,5		
Y1770S7	1.136 5	9,30	1770	52	406,1	± 2	92	106	81	NA	3,5		
Y1770S7	1.136 5	11,00	1770	70	546,7	± 2	124	143	109	NA	3,5		
Y1170S7	1.136 5	12,50	1770	93	726,3	± 2	165	190	145	NA	3,5		
Y1770S7	1.136 5	15,70	1770	150	1172	± 2	266	306	234	NA	3,5		
Y1820S7G*	1.137 1	15,20	1820	165	1289	± 2	300	345	264	NA	3,5		
Y1860S7	1.136 6	8,00	1860	38	296	± 2	70,7	81,3	62,2	NA	3,5		
Y1860S7	1.136 6	9,30	1860	52	406,1	± 2	96,7	111	85,1	NA	3,5		
Y1860S7	1.136 6	9,60	1860	55	429,6	± 2	102	117	89,8	NA	3,5		
Y1860S7	1.136 6	11,30	1860	75	585,8	± 2	140	161	123,0	NA	3,5		
Y1860S7	1.136 6	12,50	1860	93	726,3	± 2	173	199	152,0	NA	3,5		
Y1860S7	1.136 6	12,90	1860	100	781	± 2	186	214	164,0	NA	3,5		
Y1860S7	1.136 6	15,20	1860	139	1086	± 2	259	298	228,0	NA	3,5		
Y1860S7	1.136 6	15,70	1860	150	1172	± 2	279	321	246,0	NA	3,5		
Y1860S7G*	1,137 2	12,70	1860	112	874,7	± 2	208	239	183,0	NA	3,5		

Max. relaxation loss after 1000 Hrs ≤ 2,5% when initial load at 70% of specified breaking Load

The diameter of the central wire shall be at least 3,0% greater than the diameter of the outer helical wires

* : Compacted strand

Uncoated Strand 7-Steel Wire for Prestressed concrete EN 10138 - 3: March 2011

Steel name	Steel number	Diameter,d	Tensile Strength	Cross sectional area	Mass per meter	Deviation on mass per meter %	Characteristic value of max.force Fm	Maximum value of maximum force Fm	Fp 0.1%	Rt. 1.0%	Min. Elong. Lo=500 mm	Curvative of strand	Lay Length
		mm	N/mm ²	mm ²	g/m		KN	KN	KN	KN	%		mm
Y1770S7	1.1365	9,30	1770	52	406,1	± 2	92	106	81	NA	3,5	max.bow height = 25mm / 1meter	(14-18)xd
Y1170S7	1.1365	12,50	1770	93	726,3	± 2	165	190	145	NA	3,5		
Y1860S7	1.1366	9,30	1860	52	406,1	± 2	96,7	111	85,1	NA	3,5		
Y1860S7	1.1366	12,50	1860	93	726,3	± 2	173	199	152,0	NA	3,5		
Y1860S7	1.1366	15,20	1860	139	1086	± 2	259	298	228,0	NA	3,5		
Y1860S7	1.1366	15,70	1860	150	1172	± 2	279	321	246,0	NA	3,5		
Y1960S7	1.1367	9,30	1960	52	406,1	± 2	102	117	91	NA	3,5		
Y1960S7	1.1367	12,50	1960	93	726,3	± 2	182	209	162	NA	3,5		
Y2060S7	1.1368	12,50	2060	93	726,3	± 2	192	221	171	NA	3,5		
Y2060S7	1.1368	12,90	2060	100	781	± 2	206	237	183,0	NA	3,5		
Y1860S7G*	1.1372	12,70	1860	112	874,7	± 2	208	239	183,0	NA	3,5		
Y1860S7G*	1.1372	15,20	1860	165	1289	± 2	307	353	270	NA	3,5		
Y1700S7G*	1.1370	18,00	1700	223	1742	± 2	379	436	334	NA	3,5		

Max. relaxation loss after 1000 Hrs ≤ 2,5% when initial load at 70% of specified breaking Load

The diameter of the central wire shall be at least 3,0% greater than the diameter of the outer helical wires

* : Compacted strand