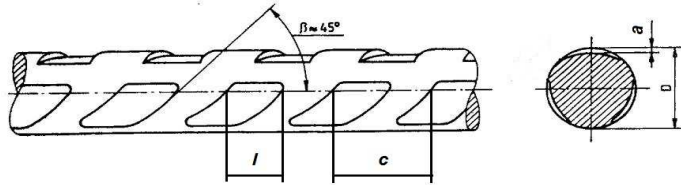


### Netherlands homologations Prestressing strands

certificate number	Diameter [mm]	Nominal tensile strength [Nmm <sup>2</sup> ]	number of wires	Nominal cross section [mm <sup>2</sup> ]	Nominal unit weight [g/m]	Tolerance of unit weight [g/m]	Breaking force (F <sub>pu</sub> )		Elasticity modulus [Gpa]	Proof force (F <sub>p0,1</sub> ) [kN]	Total elongation at maximum force (ε <sub>pu</sub> ) [%]	Lay length [mm]		Straight-ness in 1 m length [mm]	Construction of strand	Diameter ratio	Deflected tensile test [%]	Stress corrosion resistance [hours]	fatigue resistance at 0,8 F <sub>pu</sub> [cycles]	Relaxation at 0,8 F <sub>pu</sub> [%]
							min.	max												
K40817/04	7,5	1860	3	29	227,7	4,6	54	62	195 ± 10	46	min. 3,5	135	180	max. 25	3x3,50 mm	1,03	-	min. 1,5 hours, 50% of samples > 4 hours	with 200 Mpa range min. 2x10 <sup>6</sup>	max. 4,5
K7517/08	6,9		7	29	227,7	4,6	54	62		46		83	110		2,36+6x2,28 mm					
	9,3		7	52	408,2	8,0	97	112		83		112	149		3,16+6x3,05 mm					
	12,5		7	93	730,1	15,0	173	199		149		150	200		4,25+6x4,08 mm					
	12,9		7	100	785,0	16,0	186	214		160		155	206		4,40+6x4,25 mm					
	15,2		7	139	1091,2	22,0	259	298		223		182	243		5,25+6x5,00 mm					
	15,7		7	150	1177,5	24,0	279	321		240		188	251		5,40+6x5,17 mm					
K40695/04	6,4	2060	7	25	195,3	4,0	51,5	59,2		44,3		77	102	2,20+6x2,13 mm						

### Prestressing indented wires

certificate number	Diameter [mm]	Nominal tensile strength [Nmm <sup>2</sup> ]	Nominal cross section [mm <sup>2</sup> ]	Nominal unit weight [g/m]	Tolerance of unit weight [g/m]	Breaking force (F <sub>pu</sub> )		Elasticity modulus [Gpa]	Proof force (F <sub>p0,1</sub> ) [kN]	Total elongation at maximum force (ε <sub>pu</sub> ) [%]	Indentation			Number of reverse bends on cylinder diameter 30 mm [n]	Straightness in 1 m length [mm]	Stress corrosion resistance [hours]	fatigue resistance at 0,8 F <sub>pu</sub> [cycles]	Relaxation at 0,8 F <sub>pu</sub> [%]
						min.	max				depth (a) [mm]	Width (l) [mm]	Spacing © [mm]					
						[kN]	[kN]											
K11113/09	4	1770	12,6	98,9	2	22,3	25,6	205 ± 10	19,2	min. 3,5	0,12±0,05	3,5	5,5	3,0	max. 25	min. 1,5 hours, 50% of samples > 4 hours	with 200 Mpa range min. 2x10 <sup>6</sup>	max. 4,5
	5		19,6	153,9	3,1	34,7	39,9		29,8									
	6	1670	28,3	222,2	3,7	47,3	54,4		40,7									
	7		38,5	302,2	4,3	64,3	73,9		56,3									



Coil dimensions - strands

Outer diameter D (mm)	Inner diameter d (mm)	Wide W (mm)	Weight (kg)
Max. 1600	800	500	Max. 4300
	900	710	
	965	750	

Coil dimensions - wires

max. 2400	1350-1800	max. 300	max. 2000
max. 1430	965-1030	500-530	max. 2000

