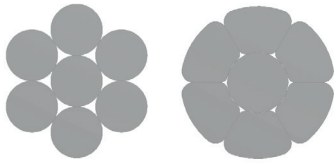


Prestressing 7 wire strand prEN 10138-3

DATASHEET



COMPLIANT PRODUCT

The characteristics of Bekaert's high strength, low relaxation 7 wire PC strand comply with the prEN 10138-3 standard. All wire strands can be coated with Zinc, Bezinal® or Bezinal® 3000. Higher tensile strengths are available upon request.

Technical specifications

Steel designation		Nominal ^a				Specified			
Steel name	Steel number	Diameter ^b	Tensile strength	Cross-sectional area ^c	Mass per meter ^c	Mass tolerance per meter	Minimum breaking strength	Maximum breaking strength	Yield strength at 0.1 % elongation
		d mm	Rm MPa	Sn mm ²	M g/m	%	Fm kN	Fm, max kN	Fp0.1 kN
Y1670S7	1.1364	15,2	1 670	139,0	1086,0	± 2	232,0	267,0	204,0
Y1700S7G	1.1370	18,0	1 700	223,0	1742,0	± 2	379,0	436,0	334,0
Y1770S7	1.1365	6,9	1 770	29,0	226,5	± 2	51,3	59,0	45,1
		9,0		50,0	390,5		88,5	102,0	77,9
		9,3		52,0	406,1		92,0	106,0	81,0
		9,6		55,0	429,6		97,4	112,0	85,7
		11,0		70,0	546,7		124,0	143,0	109,0
		12,5		93,0	726,3		165,0	190,0	145,0
		12,9		100,0	781,0		177,0	204,0	156,0
		15,2		139,0	1086,0		246,0	283,0	216,0
		15,3		140,0	1093,0		248,0	285,0	218,0
		15,7		150,0	1172,0		266,0	306,0	234,0
18,0	200,0	1562,0	354,0	407,0	312,0				
Y1820S7G	1.1371	15,2	1 820	165,0	1289,0	± 2	300,0	345,0	264,0
Y1860S7	1.1366	6,9	1 860	29,0	226,5	± 2	53,9	62,0	47,4
		7,0		30,0	234,3		55,8	64,2	49,1
		8,0		38,0	296,8		70,7	81,3	62,2
		9,3		52,0	406,1		96,7	111,0	85,1
		9,6		55,0	429,6		102,0	117,0	89,8
		11,0		70,0	546,7		130,0	150,0	114,0
		11,3		75,0	585,8		140,0	161,0	123,0
		12,5		93,0	726,3		173,0	199,0	152,0
		12,9		100,0	781,0		186,0	214,0	164,0
		13,0		102,0	796,6		190,0	219,0	167,0
		15,2		139,0	1086,0		259,0	298,0	228,0
		15,3		140,0	1093,0		260,0	299,0	229,0
		15,7		150,0	1172,0		279,0	321,0	246,0
Y1860S7G	1.1372	12,7	1 860	112,0	874,7	± 2	208,0	239,0	183,0
		15,2		165,0	1289,0		307,0	353,0	270,0

a The modulus of elasticity (E) may be taken to be 195 GPa (kN/mm²).

b The nominal mass per metre is calculated from the nominal cross-sectional area and a density of 7,81 kg/dm³.

c Please note that for grades Y1670S7, Y1700S7G, Y1770S7, Y1820S7G, Y1860S7 and Y1860S7G, the minimum load at 1% extension force applies to 88% of the grades. For grades Y1960S7, Y2060S7 and Y2160S7 89% applies.

Steel designation		Nominal ^a				Specified			
Steel name	Steel number	Diameter ^b	Tensile strength	Cross-sectional area	Mass per meter ^c	Mass tolerance per meter	Minimum breaking strength	Maximum breaking strength	Yield strength at 0.1 % elongation
		d	Rm	Sn	M		Fm	Fm, max	Fp0.1
		mm	MPa	mm ²	g/m	%	kN	kN	kN
Y1960S7	1.1367	9,0	1 960	50,0	390,5	±2	98,0	113,0	87,2
		9,3		52,0	406,1		102,0	117,0	90,8
		9,6		55,0	429,6		108,0	124,0	96,1
		11,0		70,0	546,7		137,0	158,0	122,0
		11,3		75,0	585,8		147,0	169,0	131,0
		12,5		93,0	726,3		182,0	209,0	162,0
		12,9		100,0	781,0		196,0	225,0	174,0
		13,0		102,0	796,6		200,0	230,0	178,0
		15,2		139,0	1086,0		272,0	313,0	242,0
		15,3		140,0	1093,0		274,0	315,0	244,0
		15,7		150,0	1172,0		294,0	338,0	262,0
Y2060S7	1.1368	6,4	2 060	25,0	195,3	± 2	51,5	59,2	45,8
		6,85	2 060	28,2	220,2		58,1	66,8	51,7
		7,0	2 060	30,0	234,3		61,8	71,1	55,0
		8,6	2 060	45,0	351,5		92,7	107,0	82,5
		11,3	2 060	75,0	585,8		155,0	178,0	138,0
		12,5	2 060	93,0	726,3		192,0	221,0	171,0
		12,9	2 060	100,0	781,0		206,0	237,0	183,0
Y2160S7	1.1369	6,85	2 160	28,2	220,2	± 2	60,9	70,0	54,2

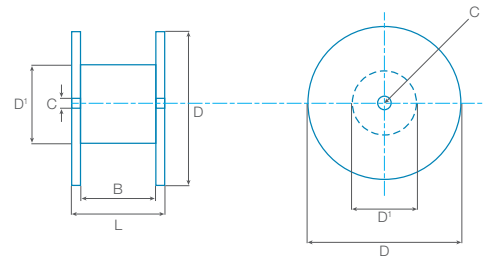
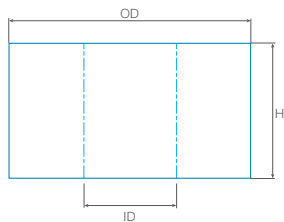
a The modulus of elasticity (E) may be taken to be 195 GPa (kN/mm²).

b The nominal mass per metre is calculated from the nominal cross-sectional area and a density of 7,81 kg/dm³.

c Please note that for grades Y1670S7, Y1700S7G, Y1770S7, Y1820S7G, Y1860S7 and Y1860S7G, the minimum load at 1% extension force applies to 88% of the grades. For grades Y1960S7, Y2060S7 and Y2160S7 89% applies.

Pack specifications

Customized packing dimensions available upon request.



Coil dimensions

ID	750 mm	900 mm	900 mm
OD	1650 mm (max.)		
H	750 mm	610 mm	750 mm
Weight	4500 kg (max.)		

Drum dimensions

D	1600 mm
D'	710 mm
C	105 mm
B	800 mm
L	1020 mm
Weight	3500 kg (max.)

Quality



ISO
14001:2015
certified

ISO
9001:2015
certified

Contact us

More
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