

Product characteristics



Teleenergetyczne Konstrukcje Wsporcze Sp. z o.o. ul. Górnicza 2, 58-303 Wałbrzych

tel.: +48 74 843 40 57

WOODEN TREATED POLE 6-10 M LIGHT AND MEDIUM GRADE

Dimensions

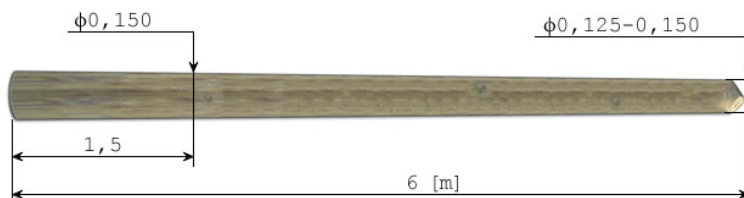
Perch parameters which ensure the required strength:

Nominal length*	Light poles					Medium poles				
	Diameter at top		Minimum diameter at 1,5 m from butt end	Ultimate loads at 0,6m from top of pole	Load per mm of deflection at point of application of load	Diameter at top		Minimum diameter at 1,5 m from butt end	Ultimate loads at 0,6m from top of pole	Load per mm of deflection at point of application of load
	min.	max.				min.	max.			
m	mm	mm	mm	kN	N	mm	mm	mm	kN	N
6	125	150	150	4,39	9,3	-	-	-	-	-
7	125	150	160	4,31	6,0	140	170	200	8,53	13,5
8	125	150	170	4,40	4,8	145	180	210	8,29	10,5
8.5	125	150	180	4,81	4,5	150	180	215	8,20	9,1
9	125	150	180	4,46	3,6	150	180	220	8,15	7,8
9.5	125	160	185	4,52	3,1	150	180	225	8,13	6,8
10	125	160	185	4,23	2,6	150	185	230	8,13	5,9

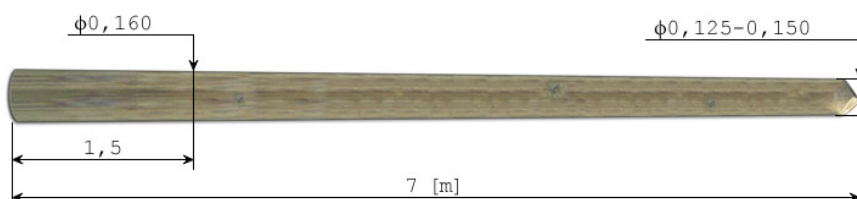
NOTE: - Maximum top diameters are given only to indicate the range of taper to be expected

* Tolerance of length +/- 1%

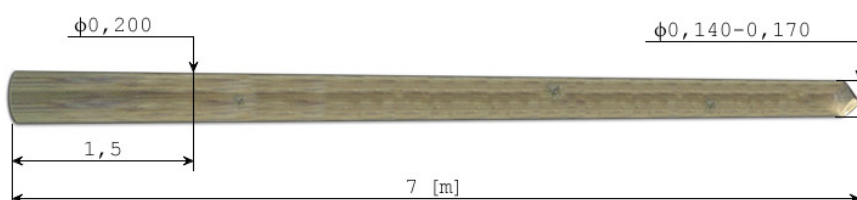
6m light



7m light



7m medium

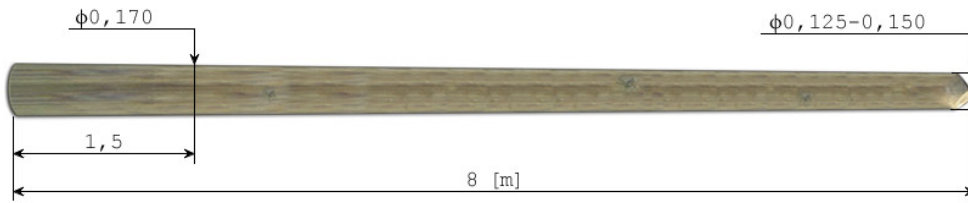


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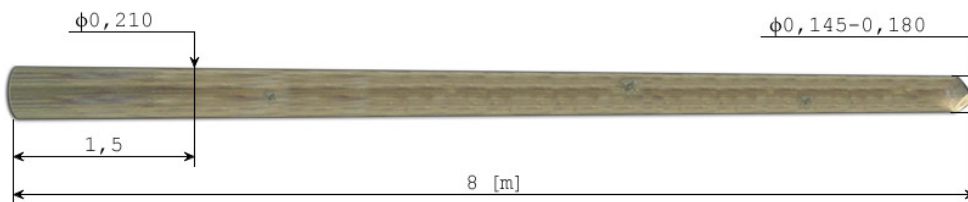


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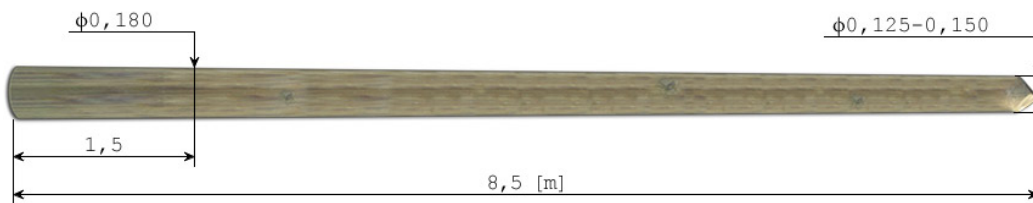
8m light



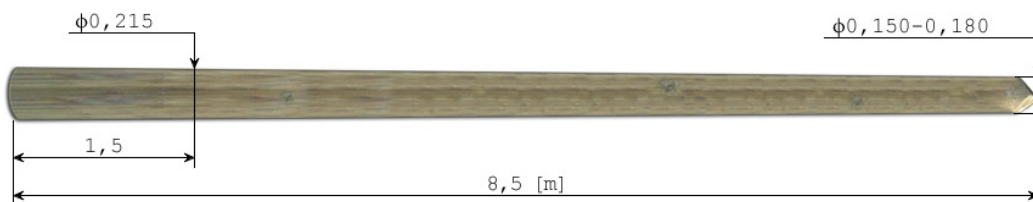
8m medium



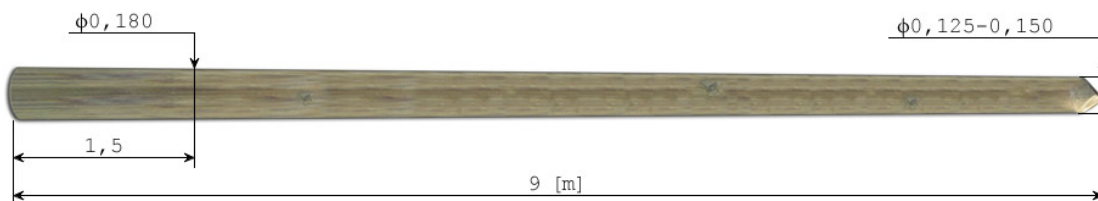
8,5m light



8,5m medium



9m light



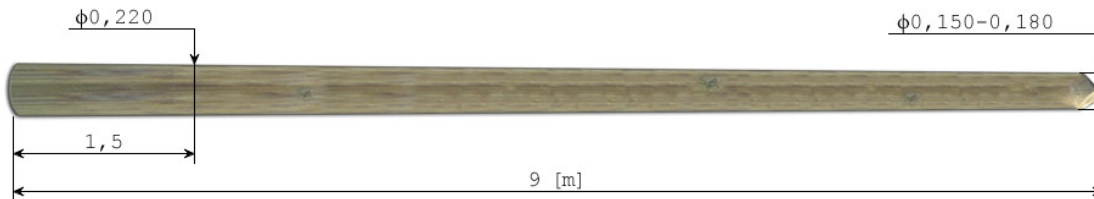
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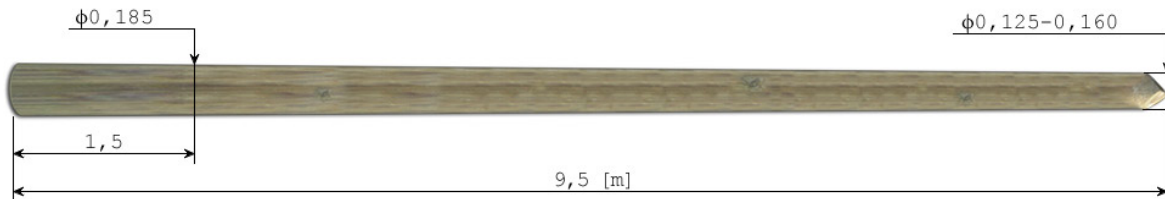
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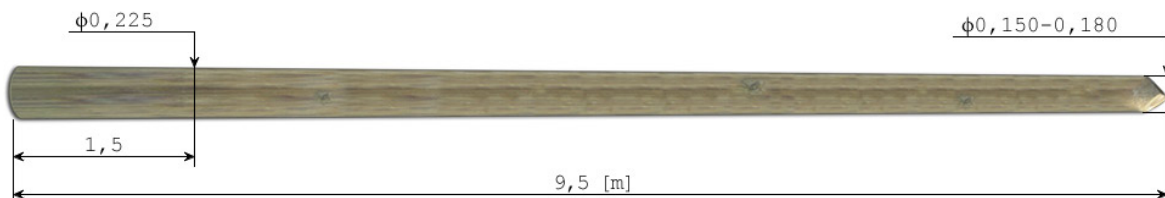
9m medium



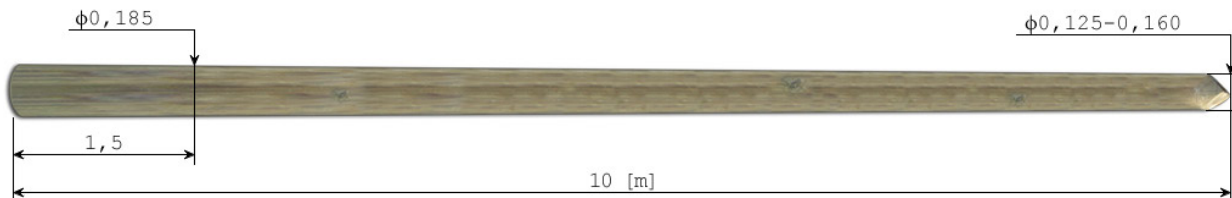
9,5m light



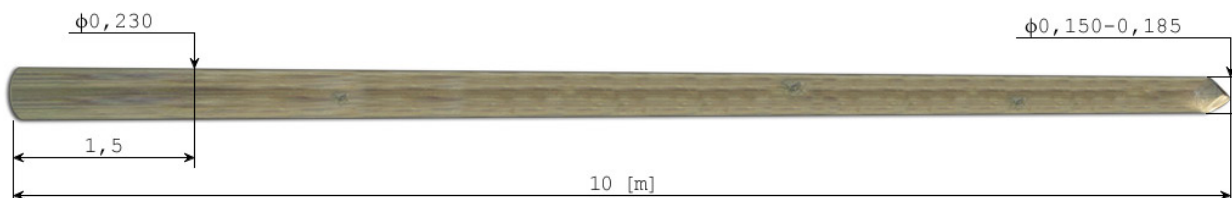
9,5m medium



10m light



10m medium



Requirements:

Material - wood recruited in the winter period i.e. from the October up to April. Species of wood allowed for the production of energy and telephone perches: PA – spruce (*Picea abies*); PS – pine (*Pinus sylvestris*)

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Applicable standards:

EN 14229 – Structural timber – Wood poles for overhead lines

BS 1990-1:1984 – Wood poles for overhead power and telecommunication lines

Impregnation/Treatment/Preservation:

Impregnation process parameters depending on applied preservative:

- **Wolmanit CX-8** (Dr. Wolman GmbH D-76454 Sinzheim)
 - impregnation in a pressure autoclave
 - BETHELL's vacuum-pressure method
 - average moisture before impregnation < 28 %
 - impregnation during time: 5-6 hours
 - impregnation pressure: 0,9 - 1,0 MPa
 - solution strength: 3%

- **Creosote oil type EKO B** (polish product)
 - impregnation in a pressure autoclave
 - BETHELL's vacuum-pressure method
 - average moisture before impregnation < 25 %
 - impregnation during time: 8 hours
 - underpressure 0,05 - 0,08 MPa
 - impregnation pressure: 0,9 - 1,0 MPa
 - temperature: 80 °C
 - benzopyrene content < 0,005%
 - retention of creosote in wood: 120-140 l/m³

Applicable standards:

EN 599-1 Durability of wood and wood-based products – Efficacy of preventive wood preservatives as determined by biological tests – Part 1: Specification according to use class

EN 351-1 Durability of wood and wood-based products – Preservative-treated solid wood – Part 1: Classification of preservative penetration and retention

BS 144 Coal tar creosote for the preservation of timber

BS 913 Wood preservation by means of pressure creosoting

Marking:

Every perch is marked by a metal plate non-detachable, containing the year of the production, the name of producer and impregnating agent.