



PC POLES

DESCRIPTION

The Prestressed Spun Concrete Pole (PC Pole) products come in various types, including Distribution Electric Poles, Transmission Electric Poles, Telephone Poles, and Lamp Poles.

These products are produced using the spinning method by utilizing centrifugal force. This type of pole is used for low, medium, and high voltage electricity distribution networks. To facilitate the installation of electric poles in remote areas, PC Poles are also produced in segments.

This product has high flexural strength due to the use of a prestressing system combined with high-quality concrete. WIKA Beton PC Poles are certified according to PLN standards (SPLN). This is achieved by conducting periodic testing and product certification by the PT PLN (Persero) Central Certification Agency (PLN PUSERTIF). Thus, the quality of the product is always guaranteed.

Type of Poles

- **DPC Poles**

Prestressed Concrete Poles for Electrical Distribution Line

- **SDPC Poles**

Segmental Prestressed Concrete Poles for Electrical Distribution Line
Joint system : Bolt and nuts

- **TPC Poles**

Prestressed Concrete Poles for Telecommunication Line

- **STPC Poles**

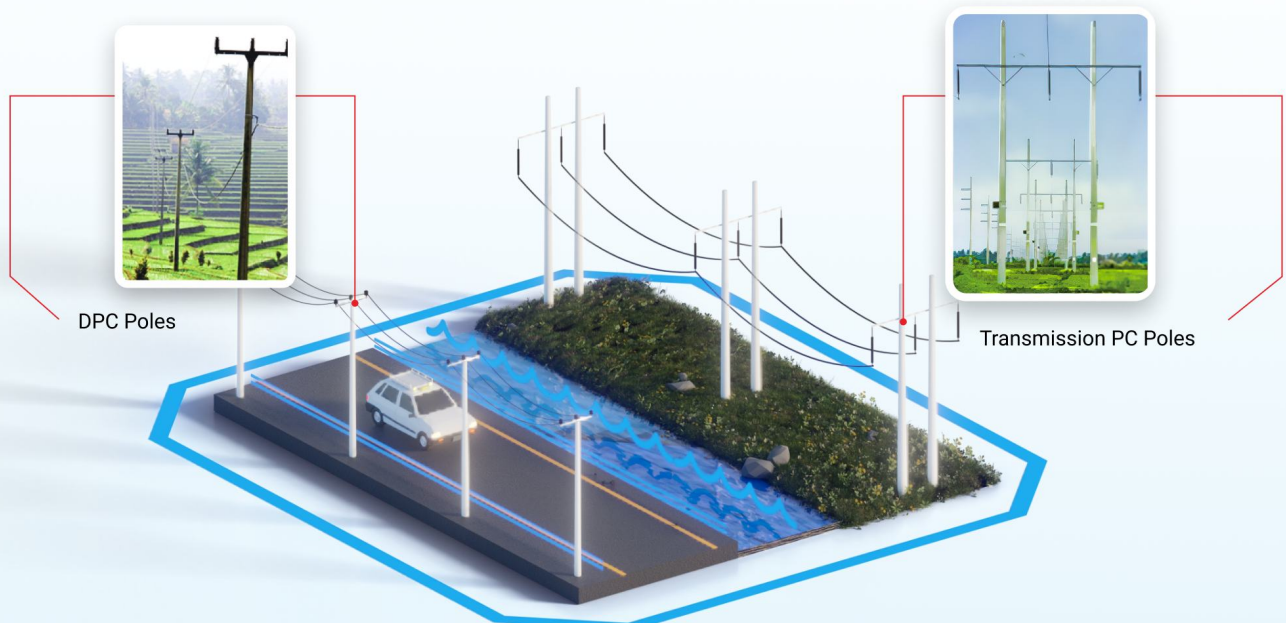
Segmental Prestressed Concrete Poles for Electrical Transmission Line
Joint system : Welding at steel joint plate

DESIGN REFERENCE

Design

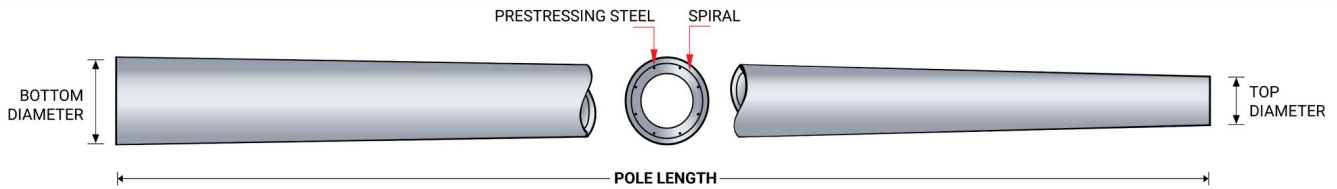
SNI 6880	Structural Concrete Specification
SPLN D3.019 - 2:2021	Prestressed Concrete Poles for Distribution Line
SPLN 121 : 1996	Prestressed Concrete Poles for Transmission Line
STEL-2001 Ver.2	Telecommunication Specification - Prestressed Concrete Spun Poles
SNI 2847	Indonesian Concrete Code for Concrete

PRODUCT APPLICATION



PRODUCT SHAPE

▶ PC Poles



SPECIFICATION

Concrete Compressive Strength $f_c' = 42$ MPa

Type	Length (m)	Horizontal Load (daN)	Outside Diameter		Weight (kg/pcs)
			Top (mm)	Bottom (mm)	

Electrical Distribution Line PC Poles

DPC	9	200	157	277	580
		350	190	310	710
DPC	11	200	190	337	1.050
		350	190	337	1.050
DPC	12	200	190	350	1.230
		350	190	350	1.230
		500	190	350	1.230
DPC	13	350	190	363	1.410
		500	190	363	1.410
DPC	14	350	190	377	1.670
		500	190	377	1.670

Telecommunication Line PC Poles

TPC	7	100	124	202	300
		150	124	202	300
		200	157	235	400
TPC	8	350	190	268	500
		100	124	213	360
		150	124	213	360
		200	157	246	480
TPC	9	350	190	279	600
		100	124	224	430
		150	124	224	430
TPC	9	200	157	257	560
		350	190	290	700

Segmental Electrical Distribution Line PC Poles

SDPC	9	200	157	277	580
SDPC	11	200	190	337	1.050

Concrete Compressive Strength $f_c' = 50$ MPa

Type	Length (m)	Horizontal Load (daN)	Outside Diameter		Weight (kg/pcs)
			Top (mm)	Bottom (mm)	

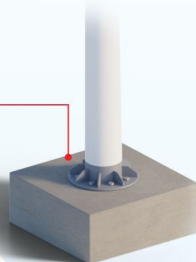
Segmental Electrical Transmission Line PC Poles

STPC	17	800	245	500	3.030
		1.000	290	545	3.650
		1.200	290	545	3.650
STPC	18	800	245	515	3.320
		1.000	290	560	3.990
		1.200	290	560	3.990
STPC	19	800	245	530	3.630
		1.000	290	575	4.350
		1.200	290	575	4.350
STPC	22	800	245	575	4.650
		1.000	290	620	5.510
		1.200	290	620	5.510
STPC	23	800	245	590	5.010
		1.000	290	635	5.930
		1.200	290	635	5.930
STPC	25	800	245	620	5.820
		1.000	290	665	7.040
		1.200	290	665	7.040
STPC	27	800	245	650	6.680
		1.000	290	695	7.800
		1.200	290	695	7.800
STPC	30	800	245	695	8.500
		1.000	290	740	9.400
		1.200	290	740	9.400

POLES FOUNDATION TYPE



Base Plate foundation



Embedded foundation



POLES INSTALLATION METHOD



by Box Frame
Equipment



by Lifting Crane

