

# **PRESTRESSED CONCRETE POLES FOR OVERHEAD POWER LINES (OPL)**





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## REPRESENTATIVE PARTNERS



CEZ GROUP

**DELGAZ**  
grid

**e-on**

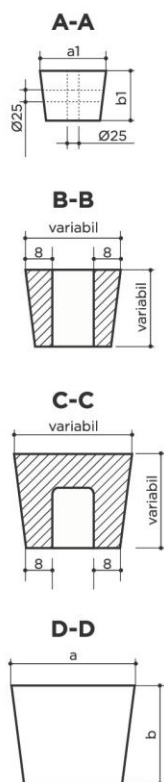
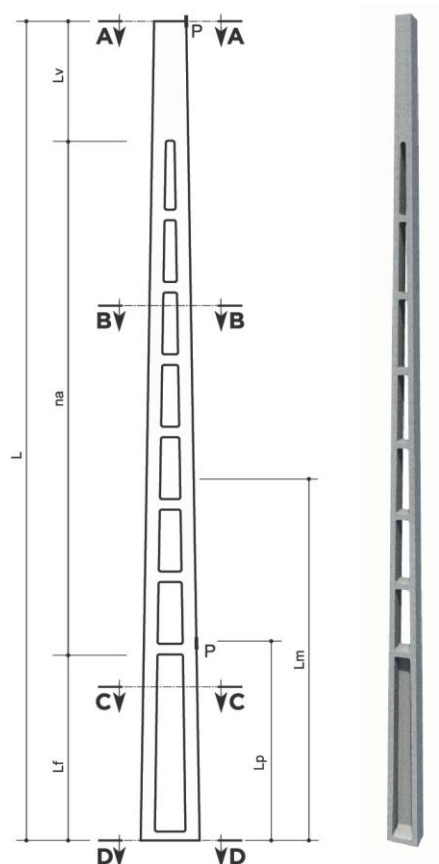
# I. PRE-STRESSED CONCRETE POLES FOR OVERHEAD POWER LINES (OPL)

## I.1. Structural details

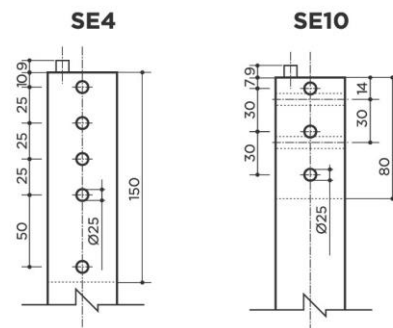
The poles are linear precast elements made of vibrated, pre-stressed C45/55 concrete, with a trapezoidal cross-section, designed for the construction of 0.4 kV and 20 kV overhead power lines (OPL)

POLE TYPE	LENGTH	TOP SIDE	BASE SIDE	MINIMUM EMBEDMENT DEPTH	MARKING LINE POSITION	GROUNDING TERMINAL POSITION	CONCRETE VOLUME	MASS
	L (m)	a1 (mm) b1 (mm)	a (mm) b (mm)	Lf (m)	Lm (m)	Lp (m)	(mc)	(t)
SE4T	10	142/158 150	313/337 235	1.5	4	2.5	0.38	0.95
SE10T	10	238/262 250	519/551 320	1.5	4	2.5	0.80	2.00

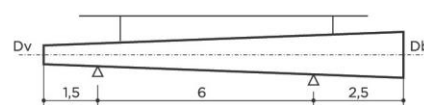
### VIEWS AND SECTIONS



### TOP DETAILS

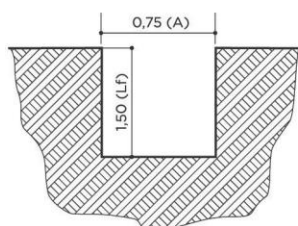


### SUPPORT-HANDLING SCHEME



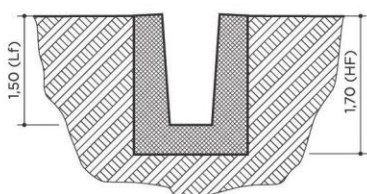
## I.2. Mounting instructions

POLE TYPE	FOUNDATION DEPTH		MONOBLOC FOUNDATION WIDTH		MONOBLOC FOUNDATION LENGTH		MINIMUM EMBEDMENT DEPTH	
	HF (m)		A (m)		B (m)		Lf (m)	
SE4T	1.70	1.70	0.75	0.60	0.75	0.60	1.50	1.50
SE10T	1.70	1.70	1.20	1.10	1,40	1.30	1.50	1.50
Ground type	0	I, II, III	0	I, II, III	0	I, II, III	0	I, II, III

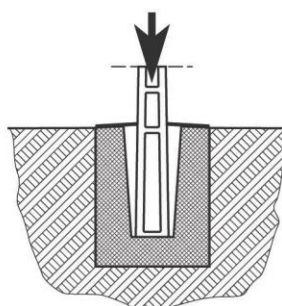


**PIT EXCAVATION**

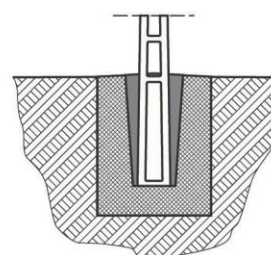
(mechanical or manual)



**FOUNDATION CASTING**



**MOUNTING THE POLE INTO FOUNDATION**



**MONOLITHIC INTEGRATION**

## I.3. Operating conditions

OPL poles are commonly used to support conductors under the following conditions:

MOUNTING	Outdoor
AMBIENT TEMPERATURES	min.: -35°C
	max.: +40°C
RELATIVE HUMIDITY	100%



## II. CERTIFICATIONS

### System certifications

CERTIFICATE	STANDARD
Quality management system	SR EN ISO 9001:2015
Environmental management system	SR EN 14001:2015
Occupational safety and health management system	SR EN ISO 45001:2023

### Product certificates

CERTIFICATE	STANDARD
Precast concrete goods – vibrated pre-stressed concrete poles, for overhead power lines	SR EN 12843:2005
Pre-assembled steel products – cages for piles, slurry walls, beams, pillars. Shaped and trimmed steel products – frames, cross-ties, fasteners, anchors, curved bars	ST 009-2011 NE 012/2-2022



ADN

