

# Power Poles

Technical Guide D15.9

Strong, durable prestressed concrete Octagonal and I Section profile Power Poles. For use in New Zealand's electricity power supply networks.



02.23 | DRAINAGE | D15.9 POWER POLES

### Applications

- Electrical Transmission lines
- Urban and Rural sites

### Product Attributes

- Strong and durable Octagonal and I Section power poles.
- For use in New Zealand's electricity power supply networks
- Will Not rot
- High quality concrete finish

### Approvals/Standards

- AS/NZS 4065:2010
- Transpower TP.PL 01.15 for Octagonal Poles

### Quality

- ISO 9001:2015 Quality Management System
- ISO 4500 1:2018 Health and Safety

*We are the supply partner of choice for New Zealand's civil construction industry, specialising in water and infrastructure based solutions.*



# General details of Poles.

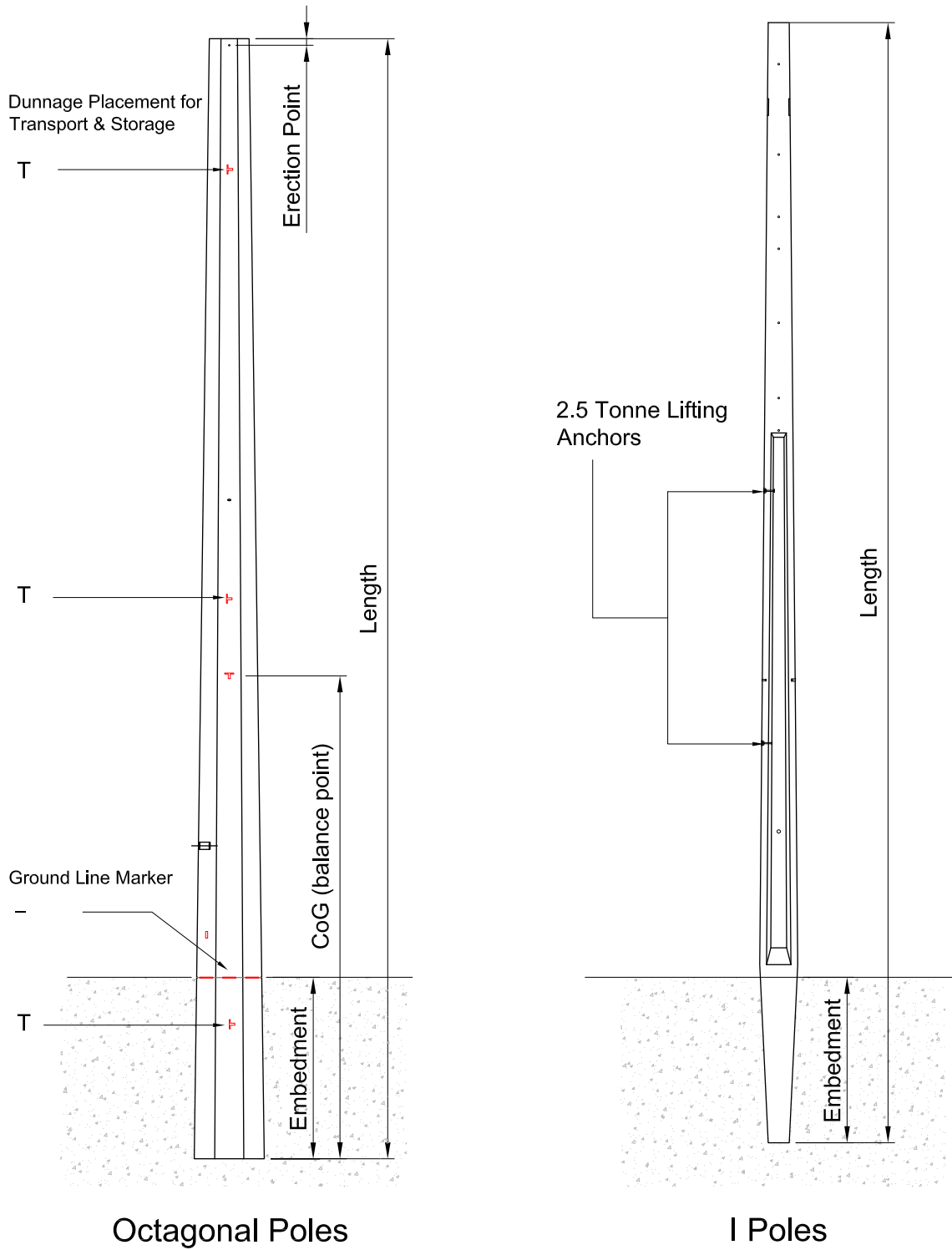


FIG. 1

**TABLE 1 | Poles**

Code	Length (m)		Weight(tonne)	Lifting Anchor	Design (kN) ultimate	
	Overall	Embedment			2 per Pole	Transverse
MP11X	11	2	1.7	2.5 tonne	20	10
MP14	14	2.5	3.0	2.5 tonne	20	10

**TABLE 2 Octagonal Poles**

Code	Length (m)		Weight(tonne)	Lifting Anchor	Design (kN) ultimate	
	Overall	Embedment			from Base(m)	Guyed
<b>Normal Strength</b>						
OP155S	15.5	2.5	1.4	6.74	18	12
OP17S	17.0	2.8	3.0	7.33	18	12
OP185S	18.5	3.0	4.1	8.02	24	16
OP20S	20.0	3.2	4.4	8.63	24	16
OP215S	21.5	3.4	6.0	9.22	36	24
OP23S	23.5	3.6	6.5	9.79	36	24
<b>High Strength</b>						
OP155HS	15.5	2.5	4.2	6.74	36	24
OP17HS	17.0	2.8	4.8	7.33	36	24
OP185HS	18.5	3.0	5.0	8.02	36	24
OP23HS	23.5	3.6	10.8	9.47	48	32



**FIG. 2 |** Section power pole



**FIG. 3 |** Octagonal power pole

## Handling

I Poles are lifted using 2.5 tonne Switflift anchors, Octagonal Poles are lifted using Strops about the balance point.

When erecting and for vertical alignment of Octagonal Poles, use the Erection Point which is a hole 100mm down from the tip of the Pole.

Hynds Power Poles are fitted with a Label Plate (Fig 4) which indicates Design loadings, Pole length and weight to ensure correct lifting equipment has been selected for handling.

If units are stored on site, they will need to be placed on dunnage sitting on firm level ground.

I Poles dunnage should be placed 1/5 x the length of the Pole from each end.

Octagonal Poles have dunnage placement points marked as per Fig 5

Hynds recommend single stacking of Power Poles only, if double stacking is needed ensure dunnage is aligned vertically so as not to induce large point loads.



FIG. 4



FIG. 5

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