### Ergon Energy Document Revision List

**Project:** - Sub-Transmission Construction Manual  
**Electronic - Website Version**

#### Section 20 - Pole Manufacturing Dwgs Pages 213-1 to 213-6  
**Ver 3**

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Degree symbols in the title boxes are displayed as %D. This does not effect the accuracy of the drawings. This will be resolved in the next revision.
NOTES
1. Orientation is measured clockwise when looking down on pole tip.
2. Bracketed fittings require +/- 2 mm tolerance between them and +/- 2 mm orientation tolerance.
3. Longitudinal capacities to be not less than transverse capacities.
4. Stainless steel tubes are to be accurately positioned and free from concrete and deformation.
5. A nominal Ø10 vent hole is required at the centre of the through tube provided for square rigging.
6. Temporary stays may be required during construction and/or maintenance works.

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-242-14 for Pole Construction
**LENGTH (m)** 30

**LIMIT STATE DESIGN LOAD (kN)** 60

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**ANGLING** 65 - 75°

**PLANTING DEPTH (m)** 3.0 (FULLY STAYED)

**PLANTING DEPTH (m)** 4.6 (NORMAL SOIL)

**PLANTING DEPTH (m)** 5.3 (BLACK SOIL)

**STOCK CODE**: C1RSV626GD/G1/G2 C1RSV626GD/G1/G2

**NOTES**

1. Orientation is measured clockwise when looking down on pole tip.
2. Bracketed fittings require ±1 - 2 mm tolerance between them and ±1 - 2mm orientation tolerance.
3. Longitudinal capacities to be not less than transverse capacities.
4. Stainless steel tubes are to be accurately positioned and free from concrete and deformity.
5. A nominal Ø10 vent hole is required at the centre of the through tube provided for square rigging.
6. Temporary stays may be required during construction and/or maintenance works.

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**DESCRIPTION**

**843**

**FOLDER**

**NAME PLATE**

**FITTING PURPOSE**

**FITTING DESCRIPTION**

**Fitting Code**

**Length**

**Fitting Purpose**

**Description**

**Notes**

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**Refer dwg 5-7-3-2 for Foundations**

**Refer dwg 5-4-242-14 for Pole Construction**

**OVERHEAD SUB-TRANSMISSION**

**132kV CONCRETE POLE MANUFACTURING DETAILS**

**SINGLE CIRCUIT RURAL VERTICAL STRAIN**

**LENGTH OF POLE (m) / LIMIT STATE DESIGN LOAD (kN)**

**STOCK CODE**: C1RSV626GD/G1/G2 C1RSV626GD/G1/G2

**Rural Vertical Strain 65° - 75° Pole**

**MANUFACTURER'S NAME/TRADE MARK**

**MONTH AND YEAR OF MANUFACTURE**

**EXPECTED LIFE OF POLE**

**STOCK CODE**

**DRAWING NUMBER**: 5-20-213-3

**OVERHEAD SUB-TRANSMISSION**

**132kV CONCRETE POLE MANUFACTURING DETAILS**

**SINGLE CIRCUIT RURAL VERTICAL STRAIN**

**LENGTH OF POLE (m) / LIMIT STATE DESIGN LOAD (kN)**

**STOCK CODE**: C1RSV626GD/G1/G2 C1RSV626GD/G1/G2
### NOTES
1. Orientation is measured clockwise when looking down on pole tip.
2. Bracketed fittings require +/- 2mm tolerance between them and +/- 2mm orientation tolerance.
3. Longitudinal capacities to be not less than transverse capacities.
4. Stainless steel tubes are to be accurately positioned and free from concrete defect,
5. Nominal Ø10 vent holes are required at the centre of the through tube provided for square rigging.
6. Temporary stays may be required during construction and/or maintenance works.

### STRUCTURE TYPE:
- **NORMAL SOIL**
- **FULLY STAYED**

### DISTANCE

**SET** | **FITTING** | **DESCRIPTION** | **QTY**
--- | --- | --- | ---
1 | Tip ring and pole cap | 1
1 | Depth indication mark | 3
1 | Name plate | 20
1 | Joint | 1
1 | 22 OD S/S tube for M16 bolt | 3
1 | 25 OD S/S tube for M20 bolt | 6
1 | 20 OD S/S tube for M16 bolt | 1
1 | 18 OD S/S tube for M12 bolt | 2
1 | 15 OD S/S tube for M16 bolt | 6
1 | 10 OD S/S tube for M12 bolt | 1
1 | 8 OD S/S tube for M12 bolt | 2
1 | 6 OD S/S tube for M12 bolt | 4
1 | 5 OD S/S tube for M12 bolt | 2
1 | 4 OD S/S tube for M12 bolt | 2
1 | 3 OD S/S tube for M12 bolt | 2
1 | 2 OD S/S tube for M12 bolt | 4
1 | 1 OD S/S tube for M12 bolt | 2

### DRAWING NUMBER:
- 5-20-2135

### WHEN USING THIS DRAWING:
- Refer dwg 5-7-3-2 for Foundations
- Refer dwg 5-4-242-14 for Pole Construction