### Ergon Energy Document Revision List

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

#### Ergon Energy Document Revision List  
**Section 20 - Pole Manufacturing Dwgs Pages 210-1 to 210-6  
Ver 3**

<table>
<thead>
<tr>
<th>Date of Issue</th>
<th>Section Title / Drawing Number</th>
<th>Current Published</th>
<th>Issued Document Revision Number</th>
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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 +/- 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.

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-241-10 for Construction
M16 ferrule (25mm thread)
Fall Arrest Bracket and Step bolt to pole

Earth

G

M16 ferrule (25mm thread)
Fall Arrest Bracket and Step bolt to pole

F

250°

G

Earth
180°

Fall Arrest Bracket and Step bolt to pole
G

H

180°
290°

F

For maintenance purpose
Fall Arrest Bracket and Step bolt to pole
E

Fall Arrest Bracket and Step bolt to pole
Lower Stay bracket (M24)

FOLDER

M16 ferrule (25mm thread)

G

P

G

DESCRIPTION

Name Plate
25 OD S/S tube for M20 bolt
90°

E

270°
Name plate
Fall Arrest Bracket and Step bolt to pole
F

6

G

FULLY STAYED

E

Additional earthing (in black soil)

DISTANCE
TIP (mm)
15345
14445
13545
13095
12200
11900
11745
11700
11000
10600
10400
10300
10100
6. Temporary stays may be required during construction and/or maintenance works.
4. Stainless steel tubes are to be accurately positioned and free from concrete and deformity.

SET FITTING DESCRIPTION QTY
1 A Top ring and pole cap (plain) 1
2 J Depth indication mark 3
1 H M16 ferrule (25mm thread length) 44
1 G M12 earth ferrule (30mm thread length) 20
1 I Name plate 2
1 P Joint 1
2 D 25 OD S/S tube for M16 bolt 3
2 E 25 OD S/S tube for M20 bolt 3
2 F 32 OD S/S tube for M24 bolt 6
2 K 5mm galv. cross wires (access barrier) 2
1 X M16 ferrule long (90mm thread length) 6

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 deformity.
5. A nominal 0/10 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 5-4-241-10 for Construction

C1RSV3326FD/F1
C1RSV2326FD/F1

Rural Vertical Strain 35°- 45° Pole

132kv CONCRETE POLE MANUFACTURING DETAILS
SINGLE CIRCUIT RURAL VERTICAL STRAIN

27m X 60NM AND 35%- 45% ANGLE POLE

OVERHEAD SUB-TRANSMISSION

EGON ENERGY CORPORATION LTD
ADD E2 SET 510-327

DRAWING NUMBER 5-20-210-2

CB

ABN 50 087 646 062

P DE SOUSA ROQUE
14/03/2016

P MARGANI

Drewn

R MOTTAWAY

Approved

LOT 210-2

5

20

210-2
**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 deformity.
5. A nominal 0.10 vent hole is required at the centre of the through tube provided for square rigging.
6. Temporary stays may be required for construction and/or maintenance works.

Refer dwg 5-7-3-2 for Foundations  
Refer dwg 5-4-241-10 for Construction
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 deformity.
5. A nominal 601 vent hole is required at the centre of the through tube provided for square rigging.
6. Temporary stays may be required for construction and/or maintenance works.

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-241-10 for Construction
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 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.
7. For maintenance purpose, Earth collar may be required.

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-241-10 for Construction