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 no 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 5-4-242-14 for Pole Construction

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### STRUCTURE TYPE

- **C1RSV616ED/E1/E2**
- **C1RSV2616ED/E1/E2**

**FOLDER ISSUES**

- **H**: 0.853
- **J**: 0.333
- **K**: 0.667
- **T**: 0.167
- **X**: 300
- **G**: 180

**DISTANCE FROM TIP (mm)**

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<td>200 - 150</td>
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</tr>
<tr>
<td>150 - 100</td>
<td>100</td>
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</table>

**LENGHT (m)** 24

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

**TP DIA. (mm)** 405

**BUTT DIA. (mm)** 765

**ANGLE** 55 - 65°

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

**PLANTING DEPTH (m)** 4.3 (NORMAL SOIL)

**PLANTING DEPTH (m)** 4.8 (BLACK SOIL)

**STOCK CODE**: 2448769

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**NAME PLATE INFORMATION**

**MANUFACTURER**: ERGON ENERGY CORPORATION LTD

**NO. OF POLES**: 1

**ARTICLE**: ERGON ENERGY

**DATE**: 24/03/2015

**APPROVED**: 22/03/2015

**SUPERSEDES**: A JOHNSTON

**R MARGANI**

**SAME DESIGN**: ERGON ENERGY

**MANUFACTURER'S NAME/TRADE MARK**: ERGON ENERGY

**DATE**: 24/03/2015

**APPROVED**: 22/03/2015

**SUPERSEDES**: A JOHNSTON

**R MARGANI**

**SAME DESIGN**: ERGON ENERGY

**MANUFACTURER'S NAME/TRADE MARK**: ERGON ENERGY

**DATE**: 24/03/2015

**APPROVED**: 22/03/2015

**SUPERSEDES**: A JOHNSTON

**R MARGANI**

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**APPROVED**: 22/03/2015

**SUPERSEDES**: A JOHNSTON

**R MARGANI**

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**OVERHEAD SUB-TRANSMISSION**

**132kV CONCRETE POLE MANUFACTURING DETAILS**

**SINGLE CIRCUIT RURAL VERTICAL STRAIN**

24m X 60N and 95% - 65% ANGLE POLE
NOTES
1. Orientation is measured clockwise when looking down on pole tip.
2. Bracketed fittings require ±2 mm tolerance between them and ±1 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 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.

NAME PLATE INFORMATION
MANUFACTURER'S NAME/TRADE MARK
MONTH AND YEAR OF MANUFACTURE
LENGTH OF POLE (m) - LIMIT STATE DESIGN LOAD (nN) - POT TY - MANUFACTURE - POLE MANUFACTURE
MANUFACTURER'S NAME/TRADE MARK
STANDARD/ MARINE GRADE
ERGON ENERGY
STANDARD/ MARINE GRADE
ERGON ENERGY
STOCK CODE
2446785

SELECT FITTING DESCRIPTION TUBE LENGTH FITTING PURPOSE
1. Tip ring and pole cap
2. Depth indication mark
3. M12 female ferrule (30mm thread length)
4. Name plate
5. 22 OD S/S tube for M24 bolt
6. M16 female ferrule (25mm thread length)
7. M12 male ferrule (30mm thread length)
8. M16 male ferrule (25mm thread length)
9. M12 male ferrule (30mm thread length)
10. M16 male ferrule (25mm thread length)
11. M12 male ferrule (30mm thread length)
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26. M16 male ferrule (25mm thread length)
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98. M16 male ferrule (25mm thread length)
99. M12 male ferrule (30mm thread length)
100. M16 male ferrule (25mm thread length)

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-242-14 for Pole Construction
1. Occupation is measured clockwise when looking down on pole tip.
2. Tip ring and pole cap.
3. Inclination, if required to position the face of the pole from the centre of the through tube provided for square rigging.
4. Stainless steel tubes are to be accurately positioned and free from concrete and deformed.
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.

**Structural Design Details**

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**Gauge Information**

- **Gauge Code**: 14/03/2016
- **Ergon Energy Corporation Ltd**: ABN 50 087 646 062

**Design Details**

- **Drawing Number**: 24/03/2016
- **Checked**: 14/03/2016

**Material Details**

- **M16 Ferrule Long (90mm thread)**
- **M12 Earth Ferrule (30mm thread)**
- **25 OD SS Tube**
- **32 OD SS Tube**
- **Depth Indication Mark**
- **Name Plate**

**Construction Details**

- **Pole Butt**
- **Access Barrier**
- **For Maintenance Purpose**
- **Additional Earthing (in normal soil)**
- **Depth Indication Marker (black soil)**
- **Bot Phase Bridging Insulator (M16)**
- **Mid Phase Bridging Insulator (M16)**
- **Top Phase Bridging Insulator (M16)**
- **Mid Phase Flanged Eye Bolt (M20)**
- **Earth**

**Table of Fittings**

- **QTY**: Various quantities listed for different fittings.

**Diagram**

- Diagram showing various fittings and their arrangement on the pole.
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 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

STOCK CODE: 2448793
NOTES
1. Orientation is measured clockwise when looking down on pole tip.
2. Stocked fittings require 1-1/2 mm orientation tolerance between them and 1-1/2 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 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

Rural Vertical Strain 55° - 65° Pole

SET | FITTING | DESCRIPTION | QTY
---|---------|-------------|---
1 | A | Tip ring and pole cap | 1
2 | J | Depth indication mark | 50
3 | G | M16 earth ferrule (30mm thread length) | 20
4 | I | Name plate | 2
5 | P | Joint | 2
6 | D | 22 OD S/S tube for M24 bolt | 3
7 | E | 25 OD S/S tube for M20 bolt | 3
8 | F | 32 OD S/S tube for M24 bolt | 12
9 | T | 10 OD S/S tube | 2
10 | X | 5mm galv. cross wires (access barrier) | 2
11 | M6 | M16 female long (90mm thread) | 6

NAME PLATE INFORMATION
MANUFACTURER'S NAME/STARKMARK
MONTH AND YEAR OF MANUFACTURE
SINGLE CIRCUIT RURAL VERTICAL STRAIN
STOCK CODE