



Engineering & Construction ENGINEERING

CODICE - CODE

D.73.ZA.W.74565.14.006.00

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TITOLO - TITLE

LINGUE DISPONIBILI – AVAILABLE LANGUAGE: IT

SPECIFICA TECHNICA

132kV Suspension Structure Arrangement

D.73.ZA.W.74565.14.006.00

AUR-OHL-ESK-SC-7649S

Modified Eskom 7649 132Kv Single Circuit Monopole Self Supporting Suspension X-Arm Structure – Single Conductor



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00	18/11/2019	Issue for Construction (IFC) - 132kV Suspensi Structure Arrangement								Aurecon	S Paliso			C Hoffman			
0A	17/09/2019	Issue for Validation - 132kV Suspension Structure Arrangement								Aurecon		J Kriel			C Hoffman		
REV. REV.	DATA DATE	DESCRIZIONE DESCRIPTION								REPARATO PREPARED	CONTROLLATO CHECKED			APPROVATO APPROVED			
Scopo di utilizzo / Utilization Scope																	
Eskom Selfbuild Works								S	S Mehlomakulu		S Mehlomakulu		Shahil Juggernath				
						EGP <i>EGP</i>	DATA DATE	EGP VERIFICATO EGP VERIFIED		EGP CONTRIBUTI CONTRIBUTED		EGP VALIDATO EGP VALIDATED					
PROGETTO / IMPIANTO						CODICE - CODE											
PROJECT/PLANT			TIPO EMITT. PAESE TYPE ISSUER COUNTE						MPIANTO PLANT		SISTEMA PROGR		ESSIVO REV.				
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Phase Conductor: As per Design
Shield Wire: 20 mm OPGW
Design Wind Span: 350
Design Weight Span: 550
Design Electrical Span:
Vertical Ph-Ph Spacing: 1.87 m
Vertical Top PH to
Pole Top Spacing: 3.68 m
Total Length (A.G.L) 10.8 m CAH: 18.2 m
11.8 m CAH: 19.2 m
12.7 m CAH: 20.1 m
13.8 m CAH: 21.2 m
15.3 m CAH: 22.7 m
16.8 m CAH: 24.2 m
Sides: 12 or DRB
Line Deviation Angle: 0° - 2°

Fabrication / Construction Information:

Poles will have the lowest number of slip joints in conformance with the limitation imposed by the length of the galvanising bath. Slip joint length to be 1.5 times the largest i.d. of the female section.

Full penetration welds are to be used on:
All sections joined by the circumferential welds.

All longitudial welds within 75mm circumferentail welds or in the female section of the slip joint.

Access ladders are required on all structures from appreoximately 6m above ground level.

Protruding edges of the pole tip cap plate to be ground off. All sharp corners to be rounded to min 5mm radius.

OPGW downlead lugs to be fitted at 45° on both sides of the ladder where required.

Structure type and number must be clearly shown on each pole section. It is preferable wherever possible to weld this information to the side / inside of the structure for each section as well as on the baseplate. The CAH should also be indicated on the baseplate.

Fabricator to specify vent holes for galvanising.

Material: S355JR steel.

Welding to be 6mm continuous seal to SANS 10162 Section 11.

Hot dip galvanising to SANS 121.

Stress relieving to be applied in accordance with SANS 121.

Tolerances

On dimensions: 2mm On drilling centres: 2mm

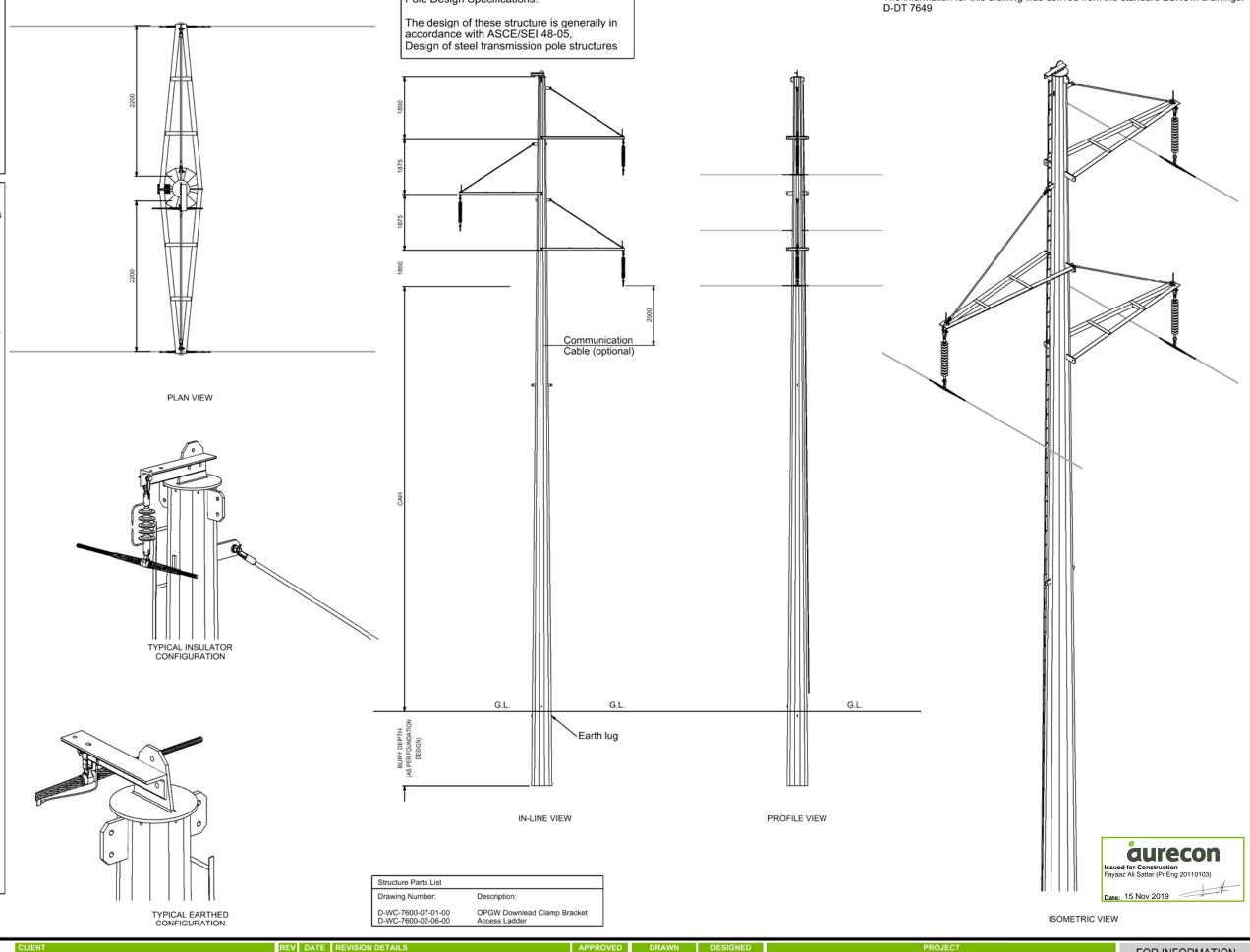
Bolt positions on base plate can be moved to avoid clashing of parts.

Shieldwire / OPGW fittings must be able to facilitate both insulated and non-insulated options

NB:

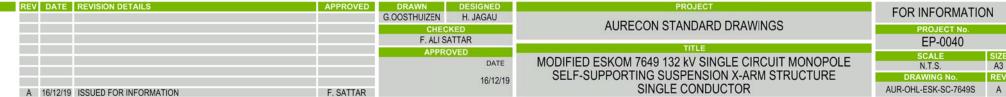
Pole dimensions, thicknesses and fittings must be verified by the Design Engineer prior to manufacturing.

See drawing: AUR-OHL-ASM-ADSS-002 for ADSS connection details (if required).



Pole Design Specifications:





The information for this drawing was derived from the standard ESKOM drawings: