



AAAC ARAUCARIA CONDUCTOR PROPERTIES
 OVERALL DIAMETER: 37.26mm
 COEFFICIENT OF LINEAR EXPANSION: 2.30 E-05 / 1°C
 CROSS SECTIONAL AREA: 821.1mm²
 NOMINAL BREAKING LOAD: 230kN
 TOTAL MASS: 2412kg/km
 DISPLAY TEMPERATURE: 90°C

OPGW KEZIAH EQUIVALENT CONDUCTOR PROPERTIES
 OVERALL DIAMETER: 19.53mm
 COEFFICIENT OF LINEAR EXPANSION: 1.84 E-05 / 1°C
 CROSS SECTIONAL AREA: 226.2mm²
 RATED TENSILE STRENGTH: 102kN
 TOTAL WEIGHT: 876kg/km
 DISPLAY TEMPERATURE: 25°C

AAAC ARAUCARIA CONDUCTOR SAGGING BASIS
 EDT: 5kN - 8kN @ 15°C

OPGW KEZIAH EQUIV. EARTHWIRE SAGGING BASIS
 EDT: 2kN - 3kN @ 15°C

Table of Clearances (400kV)		
Object	Minimum Clearance	Specification ENA TS 43-8/ TS 2.04/PS(T)103
Ground	7.6m	TS 2.04
Ground (EMF)	8.3m	PS(T)103
Minor Roads	8.1m	Table 1, Item 2
Major Roads	9.2m	Table 1, Item 3
Motorway (Sky Cradle)	10.5m	Table 1, Item 4
Motorway (Scaffold)	16.3m	Table 1, Item 5
Buildings	5.3m	Table 2, Item 1
Trees	5.3m	Table 2, Item 3 (ii)
Street Lighting	4.0m	Table 2, Item 6 (i)
Line Crossing	4.4m	Table 5, Item 1

GENERAL NOTES:
 1. CLEARANCES TO ENA TS 43-8 & TS 2.04.
 2. ALL MEASUREMENTS IN METRES.
 3. SURVEY DATA SUPPLIED BY NATIONAL GRID DATED MARCH 2021.
 4. FOR DEVIATIONS: A NEGATIVE VALUE INDICATES A LEFT DEVIATION, A POSITIVE VALUE INDICATES A RIGHT DEVIATION.
 5. ALL LEVELS GIVEN ARE RELATIVE TO SEA LEVEL.
 6. TREE LOPPING RESPONSIBILITY OF NATIONAL GRID CONTRACTORS.
 7. THIS DRAWING IS INTENDED TO BE VIEWED IN COLOUR.
 8. PROFILES ARE BASED ON PLS CADD MODEL: "Babcock Option1C_D v1.5".

REFERENCES:
 • ORDNANCE SURVEY MAP TILES (NATIONAL GRID COPYRIGHT LICENCE: 100024241)

THIS IS AN INDICATIVE DRAWING AND IS FOR DEVELOPMENT PURPOSES ONLY.

P4	ENVIRONMENTAL STATEMENT " APFP REGULATION: 5(2)(a)"	DA	KI	AK	07/02/2022
Rev	Description	Created	Checked	Approved	Date



Investment No	Project No	Site
100504	201083	BULLS LODGE

Investment Name	LONGFIELD SOLAR FARM CONNECTION
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Document Title	TEMPORARY DIVERSION 4VB61A - 4VB61B BRAINTREE-PELHAM-RAYLEIGH MAIN CIRCUIT PROFILE DRAWING
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PDD-100504-ELE-008	FIGURE 2-34

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