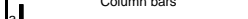



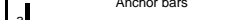


Bar Mark	<u>Bending Schedule</u> Shape (not to scale)	Bending Schedule								
		Shape Code	No. of bars	Dia mm	Length mm	a mm	b mm	c mm	d mm	Spacing mm
1	 Column bars	37	8	Y16	2300	300				250
2	 Column stirrups	60	7	R10	2300	520	520			242
3	 Anchor bars	37	8	Y32	5400	300				
5	 Pad bars (top)	38	16	Y20	3300	810	1800			257
6	 Pad bars (bottom)	38	16	Y20	3300	810	1800			257

Pricing Parameters

Steel Weight (kg)	Concrete Volume (m ³)	Formwork surface area (m ²)	Rock excavation (m ³)	Anchor depth (m)	Grout volume (m ³)	Anchors (N)	Pad embedment depth (m)	Tower stub weight (kg)
735.18	4.17	8.28	1.44	4.30	0.28	8	0.40	125.05

Quantities are based on dimensions of design drawings
NO Allowances have been made for material wastage or overbreak

Design Loads (incl. load factor)

Compression	Uplift	Transverse	Longitudinal
kN	kN	kN	kN
1791.60	1573.20	92.40	68.40

Note:

- 1 Reinforcing layout diagrams are not to scale.
- 2 All design data and Construction to Specification TRMSCAAC5 (TI240-47172520)
- 3 Concrete strength: 25 MPa minimum at 28 days.
- 4 Construction joint between column and the pad to be scabbled and painted with cement slurry or wet/dry epoxy.
- 5 Rock anchor holes are 100 mm diameter.
- 6 Bottom end of tower stub is always in the centre of the pad in both the transverse and longitudinal directions

Stub and column angle (from vert)(maximum on diagonal line)

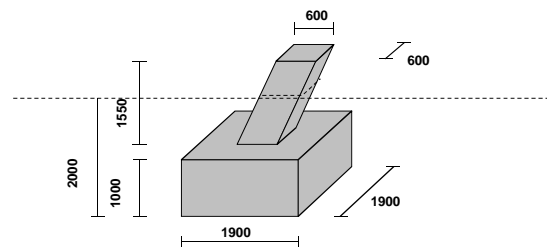
13.900 degrees

Min Cover required:

Pad: 75 mm

Column: 50 mm

Soil Layer on top of pad assumed = 1000 mm



Revision Description					Rev No
Rock Anchor Column and Pad Foundation for 518D Tower Soft Rock Eskom Standard Design -					
Designed:	Checked:	Revision	Date:	Drawing No:	
S DUDHIA	W H COMBRINCK	Rev 0	09-Sep-2015		



Disclaimer:

While due care has been applied in the design of this foundation, the contractor is required to verify that this design is fit for purpose considering preferred construction methodologies, geotechnical and structural requirements required at the point of application.