



Bar Mark	Bending Schedule 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 a	34	8	Y16	3550	3250				260
②	Column stirrups a	60	11	R10	2300	520	520			320
③	Box Face Bars a b c	53	30	Y12	5500	750	576	2900	576	209
④	Pad bars (top) a	35	56	Y12	6200	5950				220
⑤	Pad bars (bottom) a	35	62	Y12	6200	5950				190
⑥	Stools b a b	83	49	R10	1000	200	264	150		±1000

Pricing Parameters

Steel Weight (kg)	Concrete Volume (m ³)	Formwork surface area (m ²)	Excavation volume (m ³)	Excavation surface area (m ²)	Stub weight (kg)
886.65	18.22	5.80	95.17	99.52	239.58

Quantities are based on dimensions of design drawings

NO Allowances have been made for material wastage or overbreak

Design Loads (incl. load factor)

Compression kN	Uplift kN	Transverse kN	Longitudinal kN	Moment kN-m
1980.00	1467.60	64.80	28.80	0.0

Note:

- 1 Reinforcing layout diagrams are not to scale.
- 2 All design data and Construction to Specification TRMSCAAC1 Rev 3.
- 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 Bottom end of tower stub is always in the centre of the pad in both the transverse and longitudinal directions
- 6 The Side and Plan Views are only schematic and not to scale.

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

21.561 degrees

Min Cover required:

Pad: 50 mm
Column: 40 mm

Revision Description	Date	By	Rev No

Column & Pad Foundation (boxed version)
701E Tower
Type 3 Soil
Eskom



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.

Designed: S DUBAZANA	Checked: W COMBRINCK	Revision: Rev 0	Date: 16-Aug-2013	Drawing No: -701E-10-T3-021
-------------------------	-------------------------	--------------------	----------------------	--------------------------------