

Company Reg. No: 2017/230903/07

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Mast Design Audit Certificate

Mast Reference Type	N600
Mast Description	141m Triangular Tubular Lattice Mast
Mast Type	Guyed
Manufacturer / Supplier	RTS

The tower has been audited to SANS specifications and approved for construction with respect to the following design parameters as detailed below:

Mast Outline GA Drawing No.	New Design
Design Specification	SANS 10160-3:2011
Basic Fundamental Wind Speed	28m/s
Wind Return Period	50yrs
Terrain Category	B
Site Altitude	0m Above Mean Sea Level
Ground Datum	0m
Mast Loading	2m ² at Apex of Tower (141m) 2m ² at 138m above NGL (138m)
Mast Deflection	1.0 Degree
Material Grade	S355JR
Bolt Grade	Grade 8.8
Mast Width	600mm
Main Leg Members	48.4 OD 4.0t Circular Hollow Section
Diagonal Members	16mm OD Circular Round
Horizontal Members	16mm OD Circular Round
Mast Sections	47 x 3m Sections
Bolt Quantity	6x M16 Bolts per leg between 3m sections
Initial Guy Tension – G1, G2	3kN
Initial Guy Tension – G3, G4, G5, G6, G7, G8	4.4kN
Initial Guy Tension – G9	5kN
Guy Wire – G1, G2	6mm 1800MPa
Guy Wire – G3, G4, G5, G6, G7, G8	8mm 1800MPa
Guy Wire – G9	10mm 1800MPa

This document does in no way relieve the supplier of any of their responsibilities for the structure.

Mike Adair
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