

AL340 ALUMINIUM GUYED LATTICE TOWER

AP-GLT-AL340 GUYED TOWER, GROUND MOUNTED

OVERVIEW

APAC's modular aluminium lattice towers are manufactured locally in Queensland in 3.1 metre sections allowing effortless transport, meaning total leadtime can be measured in days - not weeks or months. As a lightweight structure the towers can be built with a small crew and minimal plant, with smaller towers even able to be assembled by hand.

These modular lattice towers consist of a large multi-axis base plate, reducer module, 3.1 metre lattice sections, guy wires, anchor footings/skids, and a choice of headframe. The 3.1 m sections are easily stacked meaning radio towers can be built as small as 3.1 metres with full structural engineering certification up to 40.7 metres (25.2 metres in Wind Region C). APAC's AL340 series lattice modules feature three upright columns made from 50x4 CHS with 32x3 CHS lattice welded in between by certified boom welders, providing incredible strength while retaining a lightweight design that can support your technician to climb the full height.

Your safety is most important - the tower base comprises of a 50 tonne rated, fully machined billet aluminium universal-joint. This universal-joint design allows axis locking to permit safe and easy raising, as well as the components machined from solid structural grade aluminium providing absolute peace of mind of tower integrity.



FEATURES

- Machined billet universal-joint base
- 3.1 to 40.7 m tower heights
- 340 mm wide body
- 3100 mm modular lengths
- 50 x 4 mm aluminium CHS legs
- 32 x 3 mm lattice structure
- Low maintenance aluminium construction

ENGINEERING

- Aluminium fabrication in accordance to AS1664
- Aluminium welding in accordance to AS1665
- 7/16" Zinc or Stainless Steel bolts in accordance to ISO 3506 U.N.O.
- Guy cables in accordance to AS3569, Class 7x19 Grade 2070
- Guy wire preload tension to 0.94 kN
- Cable joints and attachments in accordance to AS2579
- Structure classification per AS3995 is Type II



AL340 Tower Base Plate

SPECIFICATION



PARAMETER	AP-GLT-AL340
Maximum Height	40.7 m (Wind Region A)
Typical Footprint (60° guying)	$diameter = \frac{2h}{\tan 60}$
Wind Survivability	See table below
Max. Lattice Modules	13
Module Length	3100 mm
Module Face Width	340 mm
Module Material	6005 T5 Aluminium Alloy, 50 x 4 mm CHS legs, 32 x 3 mm braces
Module Finish	Raw Aluminium, acid cleaned
Footing	Surefoot, Galvanised Steel (others available)
Guy Kit	Supplied, Galvanised Steel or Stainless Steel options
Guy Wires	6 mm, Class 7x19, Grade 2070, Galvanised Steel
Universal Joint Construction	Machined Billet, 6005 T5 Aluminium Alloy
Universal Joint Finish	Raw Aluminium

ENGINEERING CERTIFICATION	Wind Region A	Wind Region C
Max. Height (m)	40.7	25.2
No. Modules	13	8

