

AL220 ALUMINIUM LATTICE TOWER SPECIFICATIONS

AP-GLT-AL220 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 an ultra-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 universal-joint base, modular 3.1 metre lattice sections, guy wires, footing interface plate, guy wire equaliser plates, and a choice of headframe. The 3.1 m sections are easily stacked meaning roof towers can be built as small as 3.1 metres with full structural engineering certification up to 37.2 metres. APAC's aluminium lattice tower features three upright columns made from 42x3 round tube with 25x3 round tube lattice welded in between by certified boom welders, providing incredible strength while retaining a lightweight design that can support your technician to climb to the very tower top.



The ground mounted AL220 tower series are recommended to be used in conjunction with Surefoot Footings for a simple, concrete-less installation. Concrete cages, skids, and other options are available on request.

FEATURES

- Ultra-lightweight fully engineered design
- 3.1 to 37.2 m tower heights
- Machined billet universal-joint base
- 6 mm 7x19 galvanised steel guy wires
- 3100 mm section lengths
- 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 1.0 kN
- Cable joints and attachments in accordance to AS2579
- Structure classification per AS3995 is Type II

SPECIFICATION

PARAMETER	AP-GLT-AL220
Maximum Height	37.2 m (Wind Region A)
Typical Footprint (60° guying)	$diameter = \frac{2h}{\tan 60}$
Wind Survivability	See table below
Max. Lattice Modules	12
Module Weight	12.2 kg (excl. guy wires)
Module Section Length	3100 mm
Module Width	220 mm
Module Face Width	180 mm
Module Material	6005 T5 Aluminium Alloy, 42x3 mm CHS legs, 25x3 mm braces
Module Finish	Raw Aluminium, acid cleaned
Guy Kit	Full kit supplied
Guy Wires	6 mm, Class 7x19, Grade 2070, Galvanised Steel
Universal Joint Construction	Machined Billet, 6005 T5 Aluminium Alloy
Universal Joint Finish	Raw Aluminium, acid cleaned

ENGINEERING CERTIFICATION	Wind Region A	Wind Region B	Wind Region C
Max. Height (m)	37.2	31.0	21.7
No. Modules	12	10	7