

The EA11261 Mono-tube Tower has been specifically designed to suit limited ground space for locating a Surface Movement Radar station at airport facilities.

It has been specifically design for mounting Easat's EA7401M SMR antenna giving it the height to look over airport buildings and terminals thus minimizing radar shaded areas on the airport.

The mono-tube tower has a number of benefits over conventional lattice type towers including:

- Aesthetically pleasing design.
- Available in heights from 10m to 40m and higher dependant on FE Analysis of the final design.
- Ability to use up to a number of floors of the tower for equipment, thereby minimizing or eliminating the need for an adjacent equipment cabin.
- Erection time demonstrated to be within one day.
- Costs typically 20% lower than traditional lattice type towers.
- Superior radar performance through installation of the transceivers in an air conditioned integral equipment room.

The tower houses all the equipment necessary for a stand alone radar station, the equipment is located in a room at the base of the tower and is suitable for the transceivers, UPS backup incase of power outages, complete control and monitoring station for the radar system and is air-conditioned to maintain an ambient temperature inside the equipment room of approximately 22°C.

The tower has its own lightning protection and is fitted with obstruction lights at the top. Access to the tower top platform is via an internal vertical ladder with fall arrest system for safe climbing. The inside is illuminated up the full height and has rest stages for the tired climber.

Foundations for the tower are specifically designed for the proposed site and work on the foundation would normally take up to two months to complete prior to erection of the tower.



Tower Dimensions

Height – mounting rim to top platform	Refer to order for height (20m, 25m, 30m, 35m, 40m.....)
Base (5m high)	Ø3m parallel
Bottom cone (2.5m high)	Ø3m @ 5m taper to Ø1.5m @ 7.5m level
Middle cone (adjustable for o/a height)	Ø1.5m @ 7.5m taper to Ø1.15m at top cone interface
Top cone (3m high)	Ø1.15m to Ø2.2m at platform

Mounting Flange Dimensions

The tower is to be erected and bolted to a concrete foundation at installation by 2 rings of 36 – M30 bolts cast into the foundation.

The bolting holes pattern shall be checked and verified using a master template at Tower FAT.

Internal Diameter	2735mm
External Diameter	3235mm
Bolt Holes	36 off – Ø33 on a 2836PCD 36 off – Ø33 on a 3134PCD