



G. S. I. Inc.

Manufacturer & Distributor of Aerospace Lighting

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EXEL GLIDE PATH TOWER

Applications:

Essential to the Instrument Landing System (ILS) used in aerodromes, you will find Glide Path Antenna Towers. The stiffness requirement of these towers is high to ensure the antennas work properly. Robust steel structures that are not frangible typically fulfill this requirement. The [International Civil Aviation Organization \(ICAO\)](#) has indicated that frangibility for these structures may be required in the near future. Exel Composites, a leading manufacturer of products based on composite technology, has developed a unique glass fiber lattice structure. Exel Composites Glide Path Antenna Towers not only meet the demand requirements, but also have many benefits from the features of the composite material.

Features:



Exel Composites Safety Masts are built out of fiberglass and based on thorough knowledge of composite technology. Fiberglass reinforced composite materials have numerous advantages compared to conventional materials like metal.

Exel Composites Glide Path Antenna Towers are made according to a special lattice structure and they have many innovative technical details in their construction.



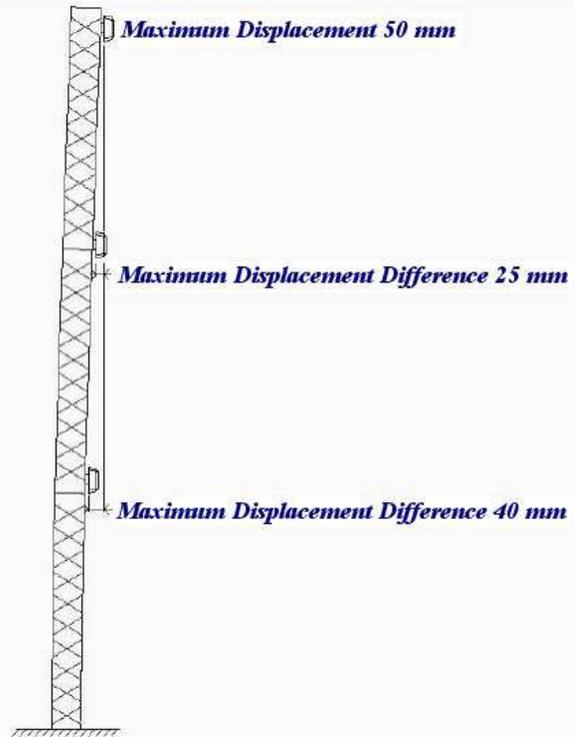
Even in strong winds and heavy ice loads, there will be very limited swaying, twisting, or oscillating that could cause the antenna to fluctuate. The construction strength can be altered as per requirements.



Advantages:

Composite materials are corrosion-free.

They are neutral to environments that might be encountered due to geographic location, such as humidity, salty winds, etc. Extreme temperatures have no affect, as the antennas perform equally well in tropical climates to the Arctic.



There is practically no need for maintenance, as Exel Composites Glide Path Towers have excellent fatigue resistance properties due to their ingenious design. Therefore, Exel Composites Glide Path Towers are the smart choice when long service lifetime is required.

GP-TOWER	10 m (33 ft.) tower	15 m (50 ft.) tower
basic form and size	3000x3000 mm triangle	3000x3000 mm triangle
no. of sections	2x5000 mm	3x5000 mm
antenna deflection max		antenna 3: 50 mm (43 m/s) antenna 2: 35 mm (41 m/s) antenna 1: 23 mm (41 m/s)
relative antenna deflection		antenna 3: 0 mm antenna 2: 15 mm antenna 1: 27 mm
survival wind speed	72 m/s (260 km/h; 161 mph)	60 m/s (216 km/h; 134 mph)

The busiest aviation centers, from the Arctic Circle to the Equator (over 500 airfields) have chosen Exel Composites Approach and Weather Masts.

Manufactured by:



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