

CATALOG 2022

FRANGIBLE TOWERS & POLES APPROACH LIGHTS

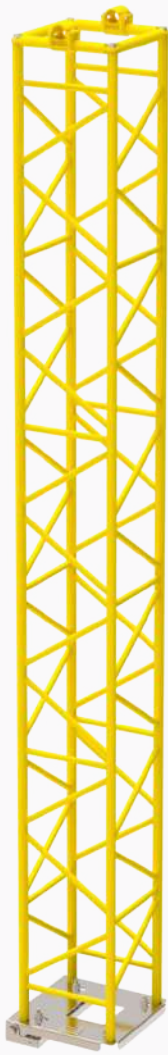
Airport Approach Light Towers & Poles in Compliance for Full Impact Testing with ICAO guidelines Aerodrome Design Manual Part-6, chapter 5 and US Department of Transportation, FAA Advisory Circular No 150/5345-45C, April 2007



6-12 METER
APPROACH LATTICE
TOWER CENTER HINGE



6-12 METER
APPROACH LATTICE
TOWER BASE HINGE



UPTO 6 METER
APPROACH LATTICE
TOWER BASE HINGE

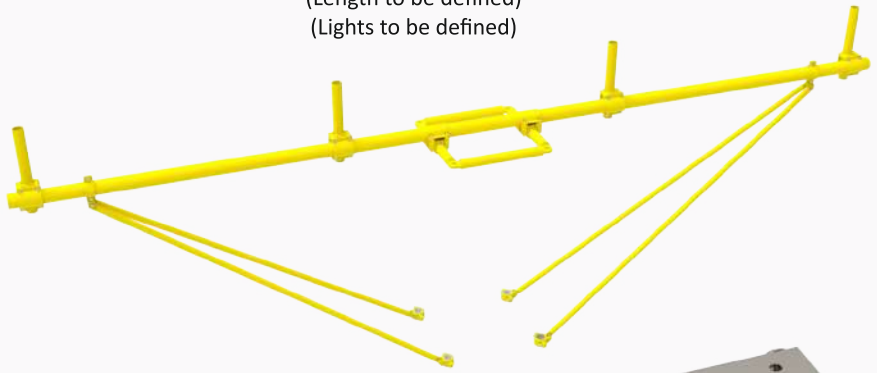


UPTO 3.5 METER
APPROACH POLE
SINGLE LIGHT



UPTO 1.2 METER
APPROACH POLE
SINGLE LIGHT

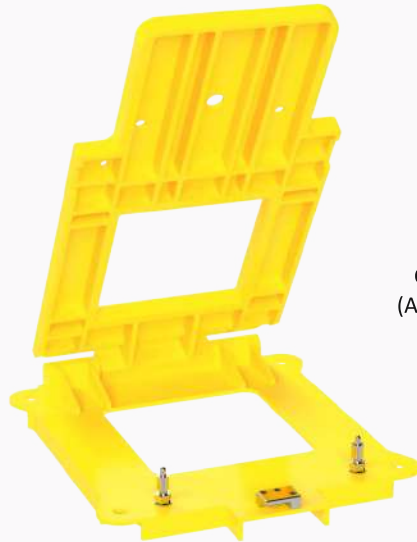
CROSS ARM FOR APPROACH LIGHT
(Length to be defined)
(Lights to be defined)



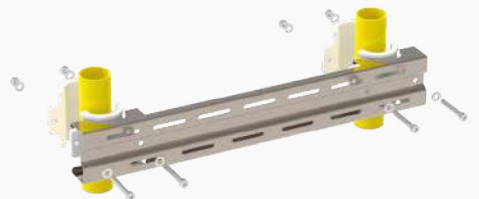
CROSS ARM SUPPORT
(supporting arm accessories)



STAINLESS STEEL
HINGE BASE
IS 316



CENTER HINGE
(Aluminum casting)



JUNCTION BOX MOUNTING
(Optional accessories)



SET OF
FOUNDATION BOLTS
(4 NOS.)
INCLUDED WITH TOWER

MODELS
&
ACCESSORIES

SAFE & STRONG

SGS Frangible Towers Pvt. Ltd. is a leading manufacturer of frangible towers, mast and poles for hoisting weather equipments (AWOS), approach lights, glide path mast etc. for airports. Both lattice and pole type frangible structures are manufactured for various airport applications. The towers and mast are made of GRP / fibre glass composites and resins to give frangibility in the products for strength and durability against high wind & jet blast.

Full impact testing was carried in compliance with U.S Department of Transportation Federal Aviation Administration (FAA), advisory circular No 150/5345 45c, section 3.9 and 4.2.5 and International Civil Aviation Organization (ICAO) doc 9157 An/901 part 6, subsections 4.9.20, 4.9.21, and 4.9.22

Successful Frangibility Crash Tested at Narnaul Airport in India and Successfully tested at PMG Technologies in Blainville, Quebec Canada in presence of Intertek FAA approved Test Inspection Agency



FEATURES

STANDARD PRODUCTS

APPROACH LIGHT LATTICE TOWER

10 METER LATTICE TOWER
WITH CENTER HINGE AND
STAINLESS STEEL BASE HINGE

10 METER LATTICE TOWER
WITH STAINLESS STEEL
BASE HINGE

5 METER LATTICE TOWER
WITH STAINLESS STEEL
BASE HINGE

Upto 2.5 METER POLE TOWER
WITH BASE PLATE

- ✓ STRICTLY COMPLIANCE OF FRANGIBILITY WITH ICAO AND FAA GUIDELINES
- ✓ FOLLOW ALL SAFETY REGULATIONS
- ✓ TESTED UNDER THIRD PARTY SUPERVISION
- ✓ CORROSION - FREE TOWER AND ACCESSORIES
- ✓ UV - RESISTANT PU PAINT WITH 3 YEAR WARRANTY
- ✓ 5 YEARS MANUFACTURING DEFECT WARRANTY ON COMPLETE TOWER
- ✓ NO ELECTRO-MAGNETIC INTERFERENCE
- ✓ FACILITY FOR CUSTOMIZATION
- ✓ PROMPT DELIVERIES
- ✓ ASSURE DURABILITY
- ✓ LIGHT WEIGHT
- ✓ ALL STANDARD INSTRUMENTS MOUNTINGS AVAILABLE

CUSTOMIZED PRODUCTS

CUSTOMIZED HEIGHT AFTER
12 METER APPROACH TOWERS WITH
STEEL SECTION

TURNKEY INSTALLATION AS PER
AIRPORT APPROACH ELEVATION &
STANDARD MENTIONED BY ICAO:
ANNEXURE 14, PARA 5.3.14.

CUSTOMIZED POLE FOR
HEIGHT ADJUSTMENT AT SITE

CUSTOMIZED LATTICE TOWER FOR
APPROACH LIGHTS

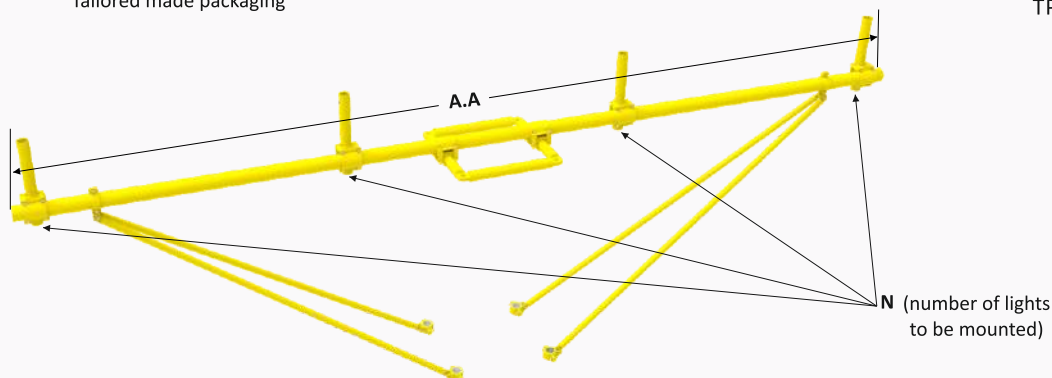
CROSS ARM WITH ADJUSTABLE
LIGHT LOCATIONS

ORDER DETAILS

DESCRIPTION	SPECIFICATIONS	ORDER CODE
2.5-6 meter Lattice Tower with Base Hinge	Frangible lattice tower, approach light holding vertical arm, cross arm mounting support (2/3/4 nos.), Stainless Steel bottom hinge base plate, set of 4 foundation bolts with accessories, colour aviation yellow	AL 4050 - 05 BH
6-12 meter Lattice Tower with Fixed Center	Frangible lattice tower with bottom & top frangible lattice section, approach light holding vertical arm, fixed center assembly, cross arm mounting support (2/3/4 nos.), Stainless Steel bottom hinge base plate, Set of 4 foundation bolts with accessories, colour aviation yellow	AL 4050 - 10 BH
6-12 meter Lattice Tower with Center Hinge	Frangible lattice tower with bottom & top frangible lattice section, approach light holding vertical arm, cross arm mounting support (2/3/4 nos.), center hinge assembly with accessories, hinge rope set, set of 4 foundation bolts with accessories, Stainless Steel bottom hinge base plate, colour aviation yellow	AL 4050 - 10 CH
1.2 to 3.5 meter Pole	Frangible pole of variable length (± 200 mm), aluminum base plate, Set of foundation bolts, colour aviation yellow	PT 9060 - 02 BP
0.3 to 1.2 meter Pole	Frangible pole with variable length, aluminum base plate, Set of foundation bolts, colour aviation yellow	PT 9060 - 01 BP
Customized Heights	Contact us for custom heights as per land profile	

STANDARD ACCESSORIES

Cross Arm for Approach Lights	Cross arm for mounting approach light with accessories, Where ' <u>A.A</u> ' Represents the length of the arm required in meters <u>N</u> - represents the number of the lights	CB - A.A - N
Foundation Template	Metallic foundation template	FT 500
Packaging	Tailored made packaging	TP 901



COMPLIANCE

- Compliance with FAA AC 150/5345-45C and Compliance with ICAO guidelines Aerodrome Design Material Part-6 Frangibility Doc 9157 First Edition – 2006 chapter 5.
- Wind load deflection test
- Salt Spray Test as per MIL-STD- 810F & ISO 9227: 2017
- Temperature Resistance Test -35°C to +55° C
- Flammability Test IS : 6746 - 1994
- Di-Electric Strength Test : ASTM D 149:2009.
- UV Resistance Test ASTM G 154 : 2016/IS-14887
- Tensile Strength Test : ASTM D638
- Flexural Strength Test : ASTM D790
- Flame Spread & Smoke develop Index test ASTM E84

CERTIFICATION

Third party full crash test certificate as per compliance for full impact testing with ICAO guidelines Aerodrome design manual Part-6, chapter 5 and US department of transportation, FAA Advisory circular No 150/5345, April 2007



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Specifications/technical details included are subject to change without notice.