FRANGIBLE MASTS

Approach masts Specifications

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1 Purpose

This is a specification for frangible masts that shall be used for Approach lights, wind cones, surveillance and meteorological equipment on airports. The masts shall be adaptable for use in different climates. They will be delivered to different parts of the world, and therefore need to withstand transport and to be easily adaptable to local regulations.

The masts and the assembled parts shall be of the following types:

- Aluminium Pole masts
- Lattice structure Aluminium mast with triangular shape
- Lattice structure Aluminium mast with square shape
- · All assembled parts shall be made in Aluminium

2 Specifications

2.1 Sizes

The masts shall be available for delivery from 0,3 m to 16.00 meters. The Pole masts shall be available for delivery from 0,15 to 1.8 meters.

2.2 Environmental conditions

The masts shall withstand the following conditions:

Temperature: -55deg to +55deg Humidity: 100% condensation Wind: 55 m/s in any direction

2.3 Design

The masts shall have a lifetime of minimum 20 years assuming that maintenance is carried out. The masts are manufactured out of aluminium, the weight is kept very low and so are the need for future maintenance. Lattice design gives the mast good strength, but even more important, makes the mast frangible in case of a collision with an aircraft.

2.4 Surface treatment

Surface treatment shall be powder coating with lifetime 20 years. Lifetime: 20 years.

Powder coating: >75 μm 72% gloss +/- 5%

Colour:

RAL 1003 yellow for approach masts. Masts for other applications RAL 3020 red / RAL 9010 white, 7 equally wide vertical fields