

Specification for High Masts with Access Ladders

LIGHTING STRUCTURES "ACCESS" TYPE MASTS

There are two types of Access Masts.

Internal Access Masts have a Cat Ladder on the inside of the mast. Internal Masts are used when a large number of floodlights are required per mast as the mast needs to be large enough in diameter, therefore making internal access possible.

External Access Masts have a cat ladder on the outside of the mast.

The mast shall be designed in accordance with SANS 0225 and manufactured by an **ISO 9001: 2008** accredited company.

Designs shall be appropriate for the applicable Altitude and Terrain Category where the mast is to be installed

The mast shall be suitable for the mounting of multiple floodlight luminaires and access to these luminaires shall be from the Cat Ladder and / or platform mounted on the mast

The mast shaft shall be twelve sided in section, continuously tapered and all sections shall be slip fitted on site to make up the final specified height of the mast.

The mast shall be of the access type equipped with a cat ladder fitted with a safety cage.

Access ladders without cages will not be accepted and ladder rungs shall be fabricated from round bar of no less than 16mm diameter, and all supporting steel of no less than 4mm.

The upper section of the mast shall be fitted with steel crossarms to accommodate the mounting of the specified number and type of floodlights and these floodlights shall be accessible for the purpose of aiming thereof and for future maintenance

Allowance shall be made on the floodlight mounting to ensure that sufficient horizontal and vertical space is allowed for between the floodlights to comply with the requirements of the floodlight luminaire supplier

Where so specified and dependent on the number of floodlights, the mast shall be fitted with a platform allowing for access to the floodlights

Where platforms are used and floodlights are mounted at heights exceeding 1,5 meters above the platform floor, the mast shall be fitted with ladders from the platform to provide access to the lights.

The mast shall be fitted with a hinged door at the base which will allow access to the electrical distribution board mounted in the base of the mast

In the case of internal access masts, a top door must be provided allowing for access to the platform

The mast door/s shall be hinged and fitted with a vandal proof cover designed to cover the door padlock and it shall only be possible to remove this cover by means of a special four pin spanner.

The mast shall be fitted with a base plate of adequate design to guarantee the structural integrity of the mast and the base plate shall have holes to accept the cast in foundation bolts.

The mast shall be fitted with cable exit holes at the top of the mast at each cross arm level and of adequate size to accommodate the electrical feeder cables

These cable holes are to be sealed against the ingress of water after the installation of the cables.

All steelwork shall be hot dipped galvanized to SABS ISO 1461