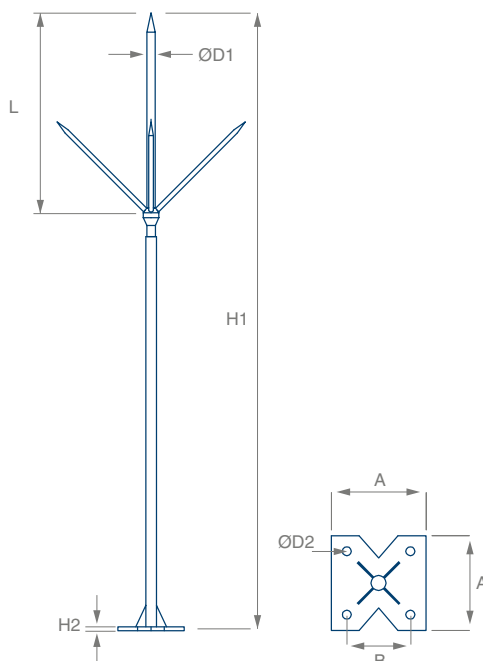




▶▶ LIGHTNING ROD + SUPPORT SET

Assembly consisting of (specially sized) lightning rod tips with 1m. and 2 m. high flat base support.

- Main tip: 500 mm L and 4 auxiliary tips.
- Base made of copper-plated or galvanized steel.
- Tips made of copper.

▶ applications

External protection of LPS (lightning protection systems).

Installation is indicated for external protection of all types of structures, either as single collection system, or as a component of conductive mesh and Faraday cage systems.

Dimensions approved for use in electrical substations.

▶ operation

During the formation of the storm, an electro-atmospheric field is generated between cloud and ground. Around the Franklin tip, a natural ionization (corona) occurs, resulting from the energy transfer. This phenomenon is the beginning of excitation to draw a conducting channel which will facilitate the lightning discharge.

▶ characteristics & benefits

- Easy installation.
- No need to install mast or anchors.
- High resistance.

▶ technical specifications

Description	Ref.	Material	H1 (mm)	L (mm)	H2 (mm)	D1 (mm)	A (mm)	B (mm)	D2 (mm)	Weight (g)
CU 1000 tip with CU steel support	110003	Cu/cooper plated steel	1584	480	10	20	170	113	18	5500
CU 1000 tip with ZN steel support	110096	Cu/cooper plated steel	1584	480	10	20	170	113	18	5600
CU 2000 tip with ZN steel support	110100	Cu/cooper plated steel	2584	480	10	20	170	113	18	8600

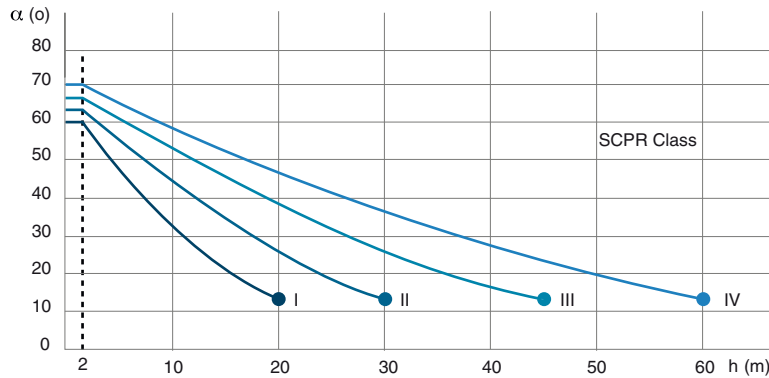
► installation

Installation on porches, decks or flat roofs.

Attach base to structure with (Ø18 mm.) screws.

Depending on the structure to be protected and the level of protection required, IEC 62305-3 establishes the following methods for calculating the area of protection:

a) Protection angle method (α)



NOTE 1. Not applicable for values above those marked with . In these cases ● only the rolling sphere and mesh methods apply.

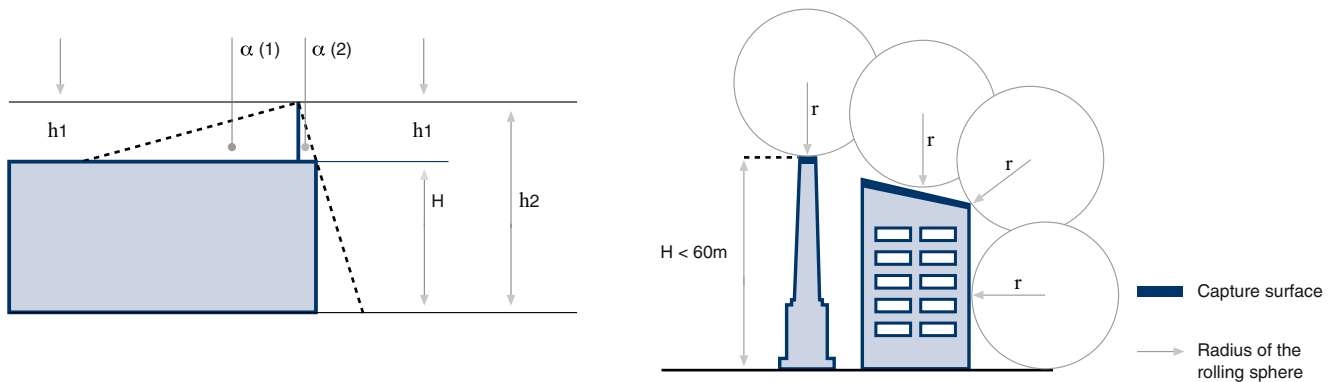
NOTE 2. h (m) is the sensor height above the reference plane of the area to be protected.

NOTE 3. The protection angle does not vary for values below 2 m h.

b) Rolling sphere and mesh method:

SCPR Class	Rolling sphere radius (m.)	Mesh Size (m.)
I	20	5x5
II	30	10x10
III	45	15x15
IV	60	20x20

TABLE 2, Maximum values of rolling sphere radius and mesh size for each class of LPS.



► regulations and tests

Implementing regulations:

- IEC 62.305-3



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**LIGHTNING ROD
+ SUPPORT SET**

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