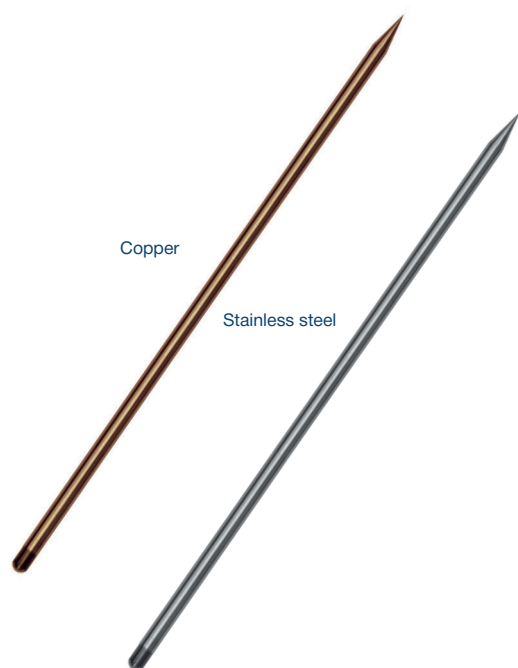


►► LIGHTNING RODS

Lightning rod Ø 16 mm or Ø 20 mm
height from 300 mm to 2000 mm.
Made in copper or Stainless steel.

Certified according to:

- IEC 62305-3
- IEC 62561-1
- IEC 62561-2

► description

- External protection of LPS (Lightning Protection Systems).
- Is part of a conventional protection system, tips and conductive meshes.
- Single franklin tip certified according to IEC62561-1 / IEC 62561-2 / IEC62305-3.

► features

- Certified tip with environmental tests under high voltage and lightning currents. 100kA (10/350 µs)
- Made of stainless steel and copper.

► technical specifications

Copper Lightning Rods	Reference	Material	L (mm)	ØD1 (mm)	M1	Weight (g)
CU300-16	110081	Cu	300	16	M16	440
CU500-16	110083	Cu	500	16	M16	800
CU600-16	110028	Cu	600	16	M16	980
CU1000-16	110035	Cu	1000	16	M16	1700
CU1500-16	110224	Cu	1500	16	M16	2600
CU2000-16	110034	Cu	2000	16	M16	3500
CU300-20	110089	Cu	300	20	M20	740
CU500-20	110091	Cu	500	20	M20	1310
CU1000-20	110093	Cu	1000	20	M20	2710
CU2000-20	110095	Cu	2000	20	M20	5530

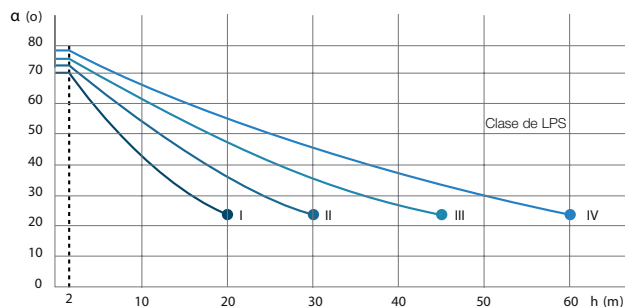
Stainless Steel Lightning Rods	Reference	Material	L (mm)	Ø D1 (mm)	M1	Weight (g)
IN300-16	110080	SST	300	16	M16	420
IN500-16	110082	SST	500	16	M16	740
IN600-16	110032	SST	600	16	M16	900
IN1000-16	110084	SST	1000	16	M16	1530
IN1500-16	110215	SST	1500	16	M16	2370
IN2000-16	110086	SST	2000	16	M16	3110
IN300-20	110088	SST	300	20	M20	690
IN500-20	110090	SST	500	20	M20	1180
IN1000-20	110092	SST	1000	20	M20	2420
IN2000-20	110031	SST	2000	20	M20	4880

► installation

Direct assembly with an adapter head mast.

Depending on the protection level required and the design of the building or structure to protect, IEC 62305-3 establishes different methods for the calculation of the protection area.

a) Protection angle (α)



NOTE 1. Not applicable beyond the values marked with ●. Only rolling sphere and mesh methods apply in these cases.

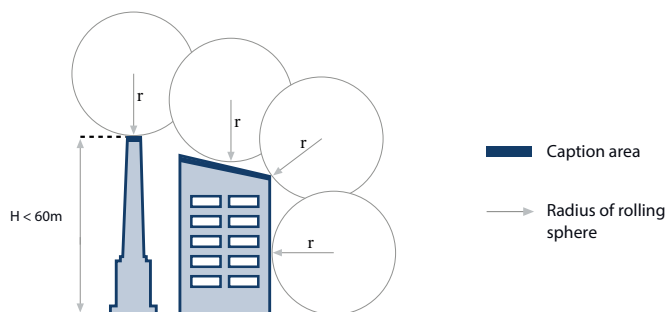
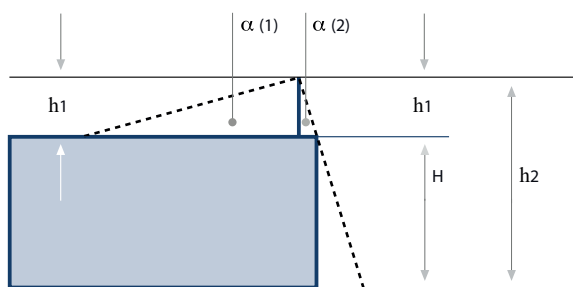
NOTE 2. (h) is the height of air-termination above the reference plane of the area to be protected.

NOTE 3. The angle will not change for values of h below 2 m.

b) Rolling sphere method and mesh method:

Class of LPS	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, mesh size and protection angle for each type of LPS.



► standards

Certified tips according to IEC62561-1 and IEC62561-2, including the following tests:

- Lightning impulse current test (main test). 100kA (10/350 μ s).
- Corrosion resistance test. Salt spray chamber.
- Mechanical strength test: tensile, torsion, impact.
- Dimensional verification: Minimum sizes specified for pick-up tips.
- Electrical continuity and connection resistance tests.

IEC 62305-3, which include the following verifications:

- Dimensional verification: Specified minimum sizes for pick-up tips.

Tests by UL standards Test Report Number: 4789563988.1

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LIGHTNING RODS