

Lightning Rod Δ DVANCE ESE

Tests according
PRODUCT
CERTIFICATION
Regulations
for ESE
Lightning Rod

Protection Guarantee

The lightning rod Δ DVANCE ESE has successfully passed the tests based on the UNE 21186, NFC 17102 and NP 4426, for Early Streamer Emission lightning rod.

TESTS

- DIMENSIONAL
- Ensures that the dimensions are standardized.
- * SALINE MIST AND HUMID SULPHUROUS ATMOSPHERE Certifies resistance in corrosive environments.
- * IMPULSE WITHSTAND CURRENT (200 kA 10/350 µs)
 Ensures its functioning after several lightning strokes.
- * ADVANCE TIME
 Guarantees the protection radii.

Security Factor

Radii protection calculated based on the CTE, UNE 21186, NFC 17102 and NP 4426 standards, applying a minimum Security Factor of 10 microseconds.

Incorporation of New Technologies

As a result of investigations made and the R + D projects, the lightning rod Δ DVANCE ESE incorporates the following new technologies:

• SAT - STABILIZATION OF AVANCE TIME

It achieves a maximum deviation of 5% in the advance time performed according to Product Certification Regulations, which guarantees the stability of the lightning rod.

• FBD - FORCED BLOW DEIONIZATION

Allows quick deionization arc chamber, which ensures that the lightning rod is in perfect condition to capture a new discharge.

• IAW - INSULATION ASSURANCE WATER

Maintains permanently isolated the electrodes of the lightning rod wich have to be at a different potential; ensuring lightning rod operation in extreme wet conditions.

• EOA - EXTENSION OF ARC

Maintains proper tension between the electrodes of the lightning rod that are at different potential, ensuring its perfect running.



RADII PROTECTION CHART

Protection Level	h	ADVANCE+A1	ADVANCE+A2
Level 4 D= 60mt	2	32	44
	4	62	85
	6	80	107
	8	82	120
Level 3 D=45 mt	2	25	39
	4	50	78
	6	70	97
	8	71	98
Level 2 D=30 mt	2	20	34
	4	42	68
	6	55	87
	8	56	87
Level 1 D=20 mt	2	18	32
	4	34	63
	6	40	80
	8	40	80
Protection Radii in meters according: CTE SU8, UNE 21186, NFC 17102 and NP 4426.			

h = height of the lightning rod relative to the plane to be protected.



