



ESE Lightning rods

Lightning rods with Early streamer emission (ESE) Systems

OBVSE series Early Streamer Emission (ESE) Air Terminal (lightning rod) is characterized by reacting when lightning approaches, intercepting it earlier than any other element within its protection area in order to conduct it safely to the ground. It is suitable for external lightning protection of all types of structures and open areas

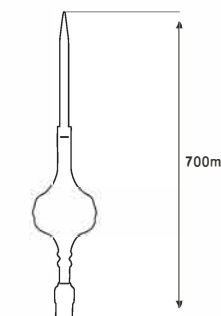
- High level of protection.
- 100% of efficacy in discharge capture.
- CUAJE® preserves its initial properties after each discharge.
- Electric continuity guaranteed. The device doesn't offer any resistance to discharge conduction.
- Lightning rod without electrical components. Maxim durability guaranteed.
- Because it contains non electronic elements, there are no replaceable parts.
- It doesn't need external power supply.
- Operation guaranteed in any atmospheric condition.
- Maintenance free.

Application

Residential
Buildings
Tower

Features/Benefits

Easy installation
Non-expendable
Natural field trials
Max. current 200kA
No maintenance
Stainless steel 304



Data sheet

height (m)	2	4	5	7	10	15	20
Coverage radius (m)							
Type							
LEVEL I							
OBVSE-1000	10	22	26	27	28	30	30
OBVSE-2500	17	34	42	43	44	45	45
OBVSE-4000	24	46	58	59	59	60	60
OBVSE-5000	28	55	68	69	69	70	70
OBVSE-6000	32	64	79	79	79	80	80
LEVEL II							
OBVSE-1000	15	30	38	40	42	46	49
OBVSE-2500	23	45	57	59	61	63	65
OBVSE-4000	30	60	75	76	77	80	81
OBVSE-5000	35	69	86	87	88	90	92
OBVSE-6000	40	78	97	98	99	101	102
LEVEL III							
OBVSE-1000	18	37	43	46	49	54	57
OBVSE-2500	26	52	65	66	69	72	75
OBVSE-4000	33	66	84	85	87	89	92
OBVSE-5000	38	76	95	96	98	100	102
OBVSE-6000	44	87	107	108	109	111	113

Installation

- The tip of the lightning rod should be situated, at least two meters above the highest building to be protected.
- For its installation on a mast, the corresponding head-mast adapter is needed for the lightning rod.
- The cabling on the roofs should be screened protected against surges and connect to ground the metallic structures present within the safety zone.
- The lightning rod should be connected to a grounding point by way of one or various conducting cables which will go down, whenever possible, the exterior of the construction with the shortest and straight possible trajectory.
- The earth termination systems, whose resistance should be the lowest possible (less than 10 ohms), should guarantee the most rapid possible dispersion of the lightning current discharge.