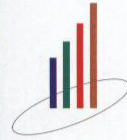
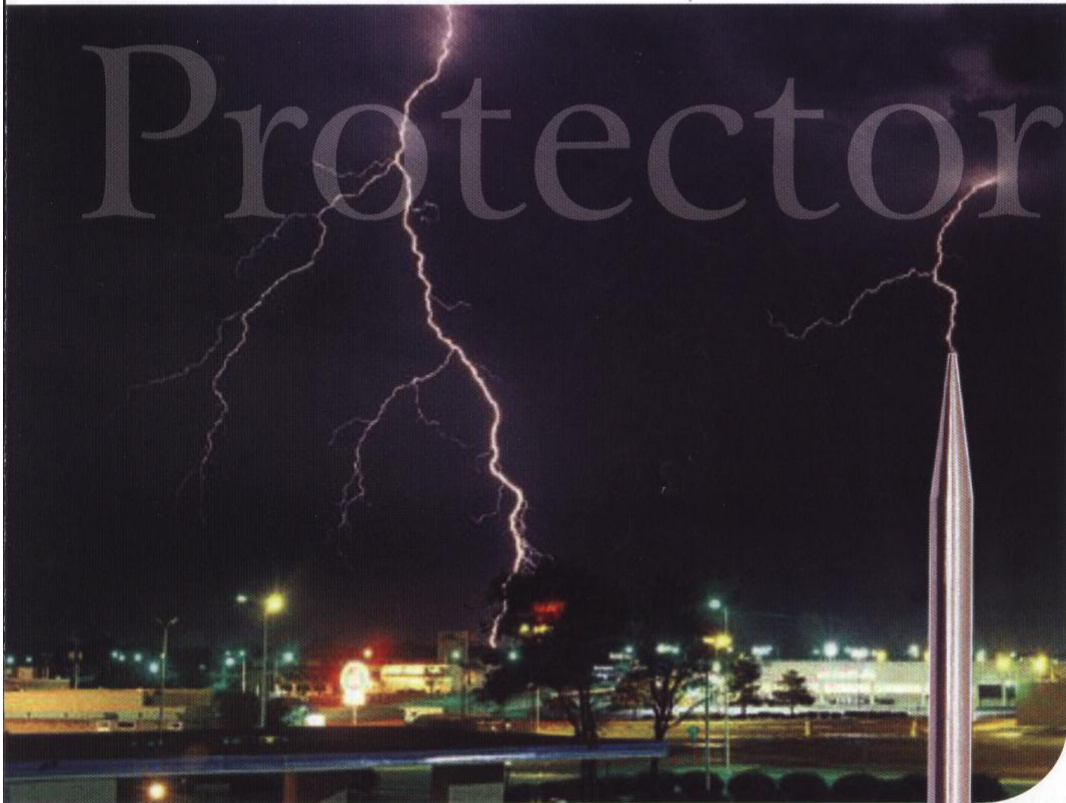




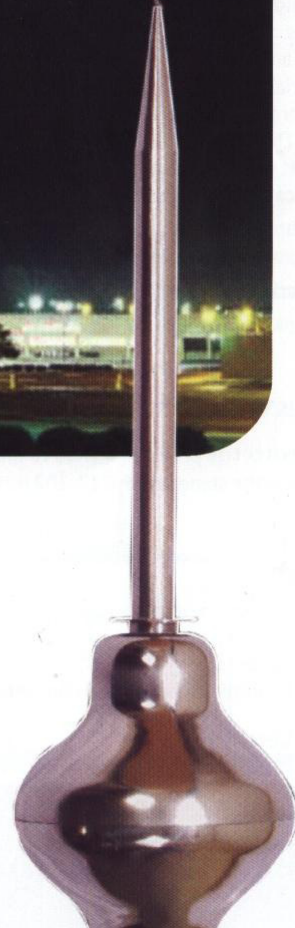
ESE LIGHTNING CONDUCTOR



Protector



Pliahtnina Arrested!...



Feel Yourself Safe With 40 Years Of Experience.

The Definition Of The Lightning

The vocabulary definition of the lightning is as follows: The electrical discharge that occurs between earth and air, is felt by thunder and a strong light. The electric load cells are formed in the clouds. As soon as load cells pass over the low air resistance, the electrical discharge occurs and the loop is completed. Hence lightning is safely earthed.

The Lightning Protection Methods

Due to the statistics, every minute, more than 1,900 lightning flashes fall out over the earth's surface. Besides the prevention methods against lightning, there are also methods to safeguard public and industrial places. The external protection system are used for this purpose and there are 3 major application types. The type of application is determined due to the controls made on the area to be protected. These major 3 application types are:

1. Lightning Conductor Systems (ESE conductors, Radioactive conductors, etc)
2. Faraday Cage Systems
3. Franklin Rod Systems

Radius of Protection

The **Protector** provides a wide range of zonal protection and meets the norms for various levels of protection as defined in the standard NFC 17 102 (Chapter 2.2.3.2 and Appendix B Table 10).

| Height of the Conductor Tip (m) | Radius of Protection (m) | | | | | |
|---|--------------------------|----|-----|-----|-----|-----|
| | 2 | 4 | 5 | 7 | 10 | 20 |
| Level - I (Lightning intensity 2.8 kAmp and above) | 32 | 64 | 79 | 79 | 79 | 80 |
| Level - II (Lightning intensity 9.5 kAmp and above) | 40 | 78 | 97 | 98 | 99 | 102 |
| Level - III (Lightning intensity 14.7 kAmp and above) | 44 | 87 | 107 | 108 | 109 | 113 |

The Working Principle Of Dmsgi, Early Streamer Emmission Lighting Conductor - Protector

The **Protector** is an active lightning conductor designed to conform to the French standard NF C 17 102 (July 1995) for ESE lightning conductors. Its working principle evolves from local electrostatic field that develops naturally around the system as a thunderstorm begins to gather. In the event of a descending lightning, an inbuilt triggering device generates high-tension pulses at the conductor tip, causing a 'corona effect'.

As the downward leader approaches the ground, powerful upward streamers get triggered off, aided by a strong venturi effect that is built in the system. The early synchronization between the downward and upward leaders thus achieved by the **Protector**, easily meets the triggering advance timing (Delta T) as laid down in the French standard NFC 17 102.

Salient Features

- The **Protector** is an ESE type of 'active' lightning conductor that provides zonal protection in accordance with standard NFC 17 102.
- The PROTECTOR is a sturdy robust device made of 304 L stainless steel.
- It is protected against corrosion and needs no maintenance.
- Needs no external power source.
- Compact and easy to install.
- Warrantee for 2 years.
- Tested and certified by ODTU University Laboratories in Turkey (Europe).

Applications

- Large multistoried / high rise residential complexes and housing colonies. A single **Protector** can cover several blocks.
 - Large multistoried / high-rise office complexes, multiplexes, shopping malls, etc.
 - Modern buildings housing IT offices, BOP's and concentration of sensitive electronic and / or telecom equipment.
 - Factories having plc based controls for critical plant and machinery
 - Hospitals, cinema halls, museums, old monuments, schools etc.
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