



Presentation of **Early Streamer Emission (ESE)** Lightning Protection System (LPS)- Solution



About ESE

Early streamer emission (ESE) lightning protection systems are a relatively new approach to the perennial problem of lightning damage, and these systems may hold promise for a more effective protection against lightning.

ESE Air-terminal creates an upward propagating streamer faster than a Franklin passive rod. In the case of passive rods, the upward tracer propagates only after a period of charge reorganization. The time difference Δt is the ESE advantage, called “early emission” (μs).

The reduced initiation time allows for the streamer to connect with the downward leader at a strike point situated high above the tip of the ESE rod. This increases the protected volume, facilitates the protection of large areas and simplifies and reduces material and installation costs

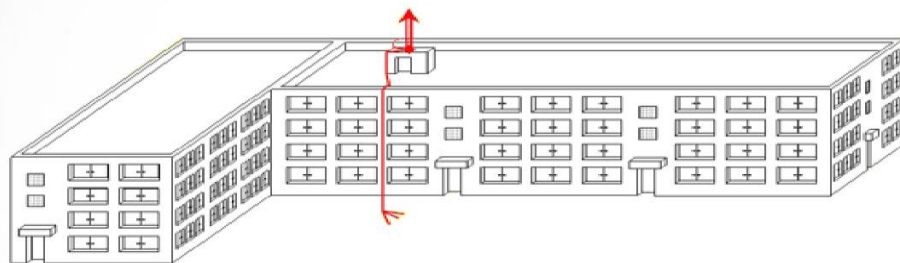


Types of LPS

Generally there are two types of lightning protection systems for protecting structures against lightning:

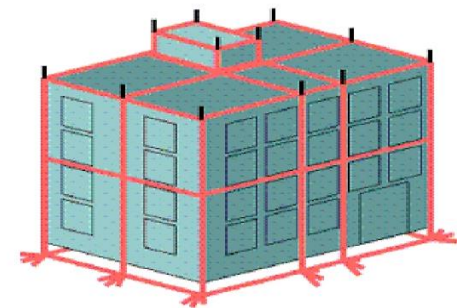
- Conventional Lightning Protection System,
- Early Streamer Emission (ESE) / Digital Lightning Protection System

ESE/ Digital/Modern Technology



NFC 17-102

Conventional technology

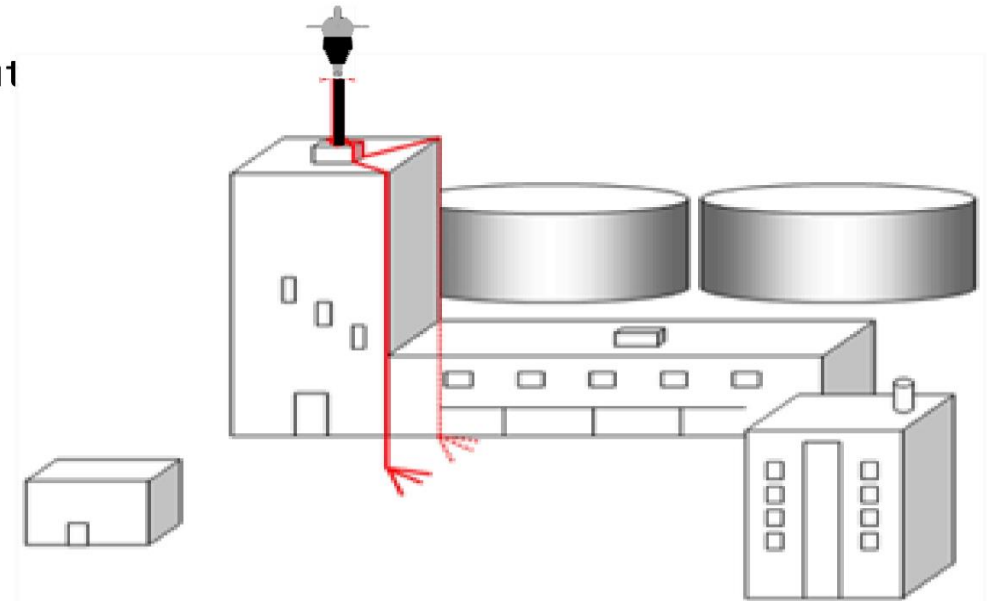


NFPA-780



Advantage of ESE LPS

- High protection radius
- Smart & digital with advance technology
- Installation takes less space
- Installing it does not spoil the roof top beauty
- Earlier initiation of the upward leader
- Higher efficiency demonstrated
- Protection of opened areas
- Protection of the nearby buildings
- Easy & quick installation process
- Easy & quick process for maintenance
- 10 years' warranty
- 35 year's Lifetime
- All materials in stainless steel 316L
- Competitive Price
- Underwriter Laboratories (UL) Certified
- Lowest carbon impact 33kg eq. Co2/unit



About Products:

Brand: France Paratonnerres

Country of Origin : France

Manufacturer: France

Certificate: UL Listed, Qualifoudre, Bureau Veritas, CE

Standards: NFC 17102/2011 C, IEC 60060-1, EN 50164-1, UNE 21186

Warranty & Durability: 10 years & 35 years





Model: IONIFLASH MACH® NG60

Brand & Origin: France Paratonnerres & France

Warranty & Durability: 10 years & 35 years

Lightning Strike: 100kA (Tested by Gerac Laboratory)/214kA

Efficiency: 60μs (NFC 17-102/2011 C)

Resistance to Corrosion: AISI / Solid 316L Stainless Steel

Net Weight: 2.2 KG

Radius of Protection: 79m to 107m at 5 Meter Height From The Plan

Rain Conditions Insulating Test: > 97%

Standards: NFC 17102/2011 C, IEC 60060-1, EN 50164-1, UNE 21186

Certificate: UL Listed, Qualifoudre, Bureau Veritas, CE



Model: IONICOUNT®

Brand & Origin: France Paratonnerres & France

Warranty: 1 years ; Net Weight: 200 g

Technology: Electromechanical

Detection Range: 1 kA - 100 kA; Registering: Until 999999 events

Tested in the factory: Counter delivered with display: 000001

Protection Index: IP66

Power Supply: Totally autonomous. Does not need any power supply.

Dimension: mm52 x 50 35 mm

Standards: NF EN 62 561-6



IONIFLASHMACH® NG TECHNICAL ADVANTAGES

High Voltage tests
in Independent Laboratories
ILAC (according
to NF C 17-102: 2011)
and in situ / Modern
patented technology



- + Testable on site and remotely
- + Autonomous and without electronics: no scheduled obsolescence
- + Lowest carbon footprint on the market: 33kg eq. Co2
- + Availability of products in stock & shipments within 24/48 hours

CORPORATE ADVANTAGES

Qualifoudre
INSEE
N°: 051168720010

ISO 9001
BUREAU VERITAS
Certification



**RECOGNIZED SCIENTIFIC ACTOR
& DECISIVE PLAYER IN STANDARDIZATION**
France Paratonnerres is available for any technical support.

Gimélec

afnor

CENELEC



DID YOU KNOW?

By ordering an ESE
IONIFLASH MACH® NG
you also share ethical and
environmental values with us.



contact@france-paratonnerres.com
www.france-paratonnerres.com / www.ioniflash.com



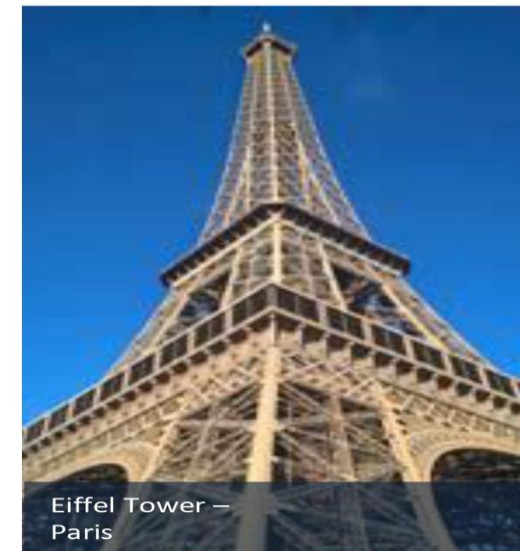
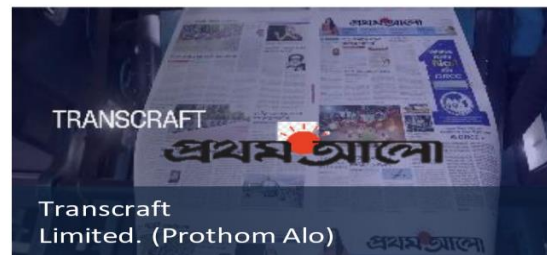
Mueen International Engineering Solutions
mueen.intl@gmail.com, Cell: 8801711293105

MARKET OPPERTUANITY OF ESE LIGHTNING PROTECTION SYSTEM

- Various Factories and Industries
- Commercial Building
- Residential Building
- Hotel and Restaurant
- Hospital and Medical Center
- School-College & Universities
- Govt. and Non Govt. Project.



Project Reference:



[See More Reference \(Click Here\)](#)



Thank You



Mueen International Engineering Solutions
beyond limitation with superior service

**Please get in touch with us if you need any
products or solutions.**

House: 15, Road: 02, Block: B, Section: 06, Mirpur, Dhaka-1216
E-mail: mueen.intl@gmail.com
Cell & WhatsApp: +8801711293105 +8801303411848.