Early Streamer Emitter
www.ellipsese.com

Lightning Protection Systems France

LPS FRANCE

MADE IN FRANCE

www.lpsfr.com

GROUPE CEMASO

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LPS France. Groupe CEMASO - BP 80055 - F-33460 MARGAUX. France - www.cemaso.com
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ELLIPS

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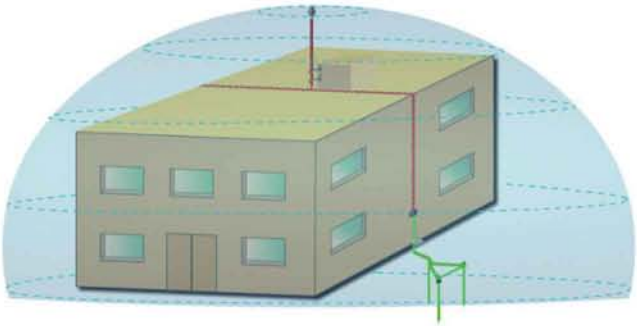
ELLIPS Early Streamer Emission (ESE) lightning rod is the result of over 10 years of research and laboratory experiments and field tests.
Combining advanced materials and technologies, ELLIPS ESE lightning rod is thought out to optimize the whole of your lightning protections system. Each ELLIPS ESE lightning rod can be tested by wired-controlled tester or remote-controlled tester (ELLIPS Contact options).

ELLIPS aesthetics and colors allow its integration within all possible drafts and structures (8 colors available - not effect on operation).

We manufacture the ELLIPS ESE lightning rods range and accessories exclusively in France.



ELLIPS ESE lightning rod is inspired by recent advances in our knowledge of lightning, electromagnetism, high voltage and fluid mechanics effects ...

The natural ionization (spark-over) is enhanced by our ELLIPS system independently any energy source. ELLIPS ESE lightning rods trigger spark-over in advance and become the preferential impact point.

Our unique and patented system is composed without any electronic or mechanical component which would proove too fragile and unreliable.

The simplicity of its design and operation combined with its qualitative manufacture and assembly allow us to provide every ELLIPS lightning rod with a 15 year warranty.

ELLIPS ESE lightning rods coloration is an aesthetic option and has no effect on the operation of the lightning protection system.

PHASE 1 — **1. Natural tracer**

PHASE 2 — **2. ELLIPS triggering spark-over in advance**

PHASE 3 — **3. ELLIPS captures the lightning strike**

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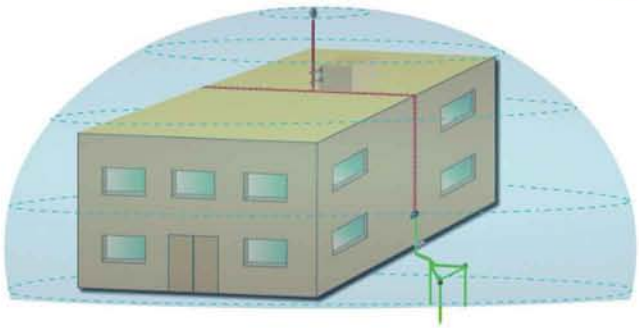
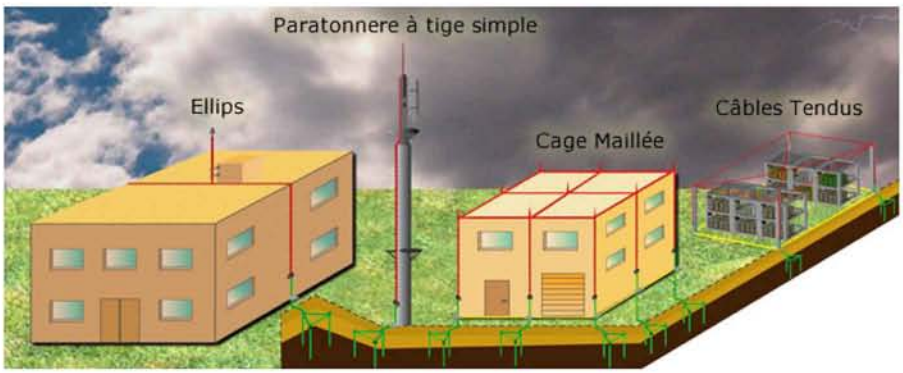
Protection area	ELLIPS ESE lightning rods ensure up to a 120 meters radius protection zone in the best conditions. ELLIPS ESE lightning rods must be chosen according to the structure to find the best compromise cost / effectiveness.
Protection of open areas	ELLIPS ESE lightning rod becomes the preferential impact point in open areas (sports stadium, storage area, uncovered area ...). Frequently, an ELLIPS lightning rod protects a complete property.
Study	Lightning protection system study with ELLIPS ESE lightning rods is easy thanks to the flexibility of its implementation.
Implementation	ELLIPS lightning rods implementation is simple. A thoughtfully designed range of accessories enables easy adaptation on all structures.
Qualification required for implementation	The installer's qualification for the ELLIPS ESE lightning rods implementation is classic and is not an obstacle to obtain an excellent lightning protection installation.
Aesthetics (Architecture Integration)	ELLIPS ESE lightning rods and some accessories are available in 8 standard colors. Whatever the building or the structure, ELLIPS blends into its environment. Specific colors are also available at request.
Budget implementation	In favor of a large area of protection and ease of implementation ELLIPS ESE lightning rods ensure a low cost solution compared to other solutions.
Cost of Maintenance	ELLIPS ESE lightning rods do not require extensive maintenance (ensuring 15 years). Periodic inspections costs are low thanks to a simple protection system.



Normalisations / Standards

Argentine	IRAM 2426
Espagne	UNE 21186
France	NF C 17-102
Macédoine	MKS N.B4 810
Portugal	NP 4426
Roumanie	I-20
Slovaquie	STN 34 1391
RF Yougoslavie	JUS N.B4.810



	Ellips	Lightning rod single-point	Meshed cage	Tensioned cables
Protection zone	●●●●●	●●●●●	●●●	●●●
Protection of open areas	●●●●●	●●●●●	●●●●●	●●●
Study	●●●●●	●●●	●●●●●	●●●
Implementation	●●●●●	●●●●●	●●●●●	●●●
Qualification required for implementation	●●●	●●●●●	●●●●●	●●●●
Aesthetic (Architecture Integration)	●●●●●	●●●	●●●●●	●●●●
Budget implementation	●●●●	●●●●●	●●●●●	●●●
Cost of Maintenance	●●●●●	●●●●●	●●●●●	●●●
Standards	NF C 17-102	NF-EN 62305	NF-EN 62305	NF-EN 62305
Appropriate structures	Any structure and its environment or open areas	Small size structure (Towers, antennas...)	Structure containing computer systems or pyrotechnic materials	Open storage area

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OUR ENGAGEMENTS

LPS France is engaging over the entire ELLIPS range.

- **Patented Technologies**
- **Manufactured in our factory in France**
- **Laboratory validation tests**
- **Reliability and robustness proven in extreme conditions**
- **Conforms to NF C 17-102, UNE 21-186, EN 50164-1, EN 62305**
- **Laser marking**
- **Optional wired-controlled tester or remote-controlled tester available in the whole ELLIPS range**
- **No electromagnetic interference (radar, radio ...)**
- **ELLIPS range is 100% recyclable.**
- **15 years warranty.**

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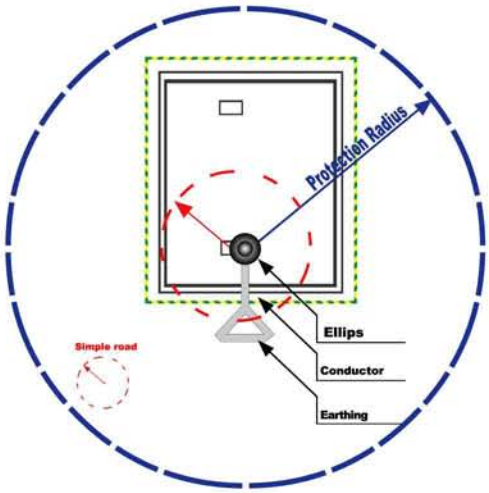
ELLIPS 1.0

210 mm

99mm

1,800Kg

Packaging: 215x215x220 mm



ELLIPS 1.2

210 mm

99mm

1,840Kg

Packaging: 215x215x220 mm

PROTECTION RADIUS

Δh \ Level Protection	I	II	III	IV
2	8	11	13	15
3	12	16	19	24
4	17	26	26	34
5	21	29	32	43
10	23	36	37	48
20	24	40	41	55
60	30	48	53	64

Comply with the limit NF C 17102 -Interpretation 007 - April 2011

PROTECTION RADIUS

Δh \ Level Protection	I	II	III	IV
2	17	19	23	26
3	25	29	34	39
4	34	39	46	52
5	42	49	57	65
10	44	51	61	69
20	45	52	63	75
60	45	52	65	79

Comply with the limit NF C 17102 -Interpretation 007 - April 2011

ELLIPS 1.3

210 mm

99mm

1,860Kg

Packaging: 215x215x220 mm

Laboratoire de Génie Electrique
Université de Pau et des Pays de l'Adour
Centre Universitaire de Recherche Scientifique

LGE

RAPPORT D'ESSAIS

ESSAIS REALISES DANS LA CONFIGURATION EXPERIMENTALE DE LA NORME NF C 17-102

PROTECTION RADIUS

Δh \ Level Protection	I	II	III	IV
2	25	28	32	36
3	38	41	48	53
4	51	57	65	72
5	62	71	81	89
10	63	72	83	92
20	65	74	86	97
60	66	75	90	105

Comply with the limit NF C 17102 -Interpretation 007 - April 2011

ELLIPS 1.4

210 mm

99mm

1,880Kg

Packaging: 215x215x220 mm

PROTECTION RADIUS

Δh \ Level Protection	I	II	III	IV
2	32	34	40	44
3	48	52	59	65
4	64	69	78	87
5	79	86	97	107
10	79	88	99	109
20	80	89	102	113
60	80	90	105	120

Comply with the limit NF C 17102 -Interpretation 007 - April 2011

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Lightning Protection Systems France (LPS France) is your expert to find your lightning protection solutions.

LPS France manufactures and proposes the ELLIPS ESE lightning rods range and the ELLEC SP lightning arrestors range.

LPS France designs, manufactures and implements lightning protections systems adapted to all your projects thanks our worldwide extensive network of agents and installers.

www.lpsfr.com

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