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## Système à Technologie d'Amorçage Régulé Controlled Grounding Lightning Protection Systems

S. T.A.R. Controlled Grounding Lightning Protection Systems comply with the French standard **NF C 17-102** dated **July 1995**, having successfully passed the **approval tests** carried out in partnership with Pau University's Electrical Discharges Laboratory (France), in accordance with § **2.2.2.1 of schedule** C of the said standard.



	S.T.A.R. <sub>®</sub> 2-10			S.T.A.R. <sub>®</sub> 3-25			S.T.A.R., 6-45			S.T.A.R. <sub>®</sub> 6-60		
1	PROTECTION RADIUS											
Δh Np	Level I	Level II	Level III	Level I	Level II	Level III	Level I	Level II	Level III	Level I	Level II	Level III
2	8	13	15	17	23	26	25	32	36	32	40	44
3	12	19	24	25	34	39	38	48	53	48	59	65
4	17	26	34	34	46	52	51	65	72	64	78	87
5	21	32	43	42	57	65	62	80	89	79	97	107
10	23	37	48	44	61	69	64	83	92	79	99	109
20	24	41	55	45	65	75	65	86	97	80	102	113



The Sparkover Tiggering System :

A building's natural ionisation level is depends on its height, its surrounding environment, its structure, etc.

This process occurs through an *upward discharge of electricity* which inflects the downward leader's trajectory, which results in a *lightning strike*.

This in why, to take one example, the tallest buildings – due to their propensity to send out *upward streamers* – are the buildings that are most likely to be hit by lightning.

This *natural* process can be *triggered* more quickly, and this is the concept used by the *Sparkover Triggering System*.

The Sparkover Triggering System enables the S.T.A.R. Controlled Grounding Lightning Protection Systems to set off the sparkover process, which protects buildings much more effectively and thoroughly than single-rod lightning protection systems.





## S.T.A.R.® Technology and Harmony

Thanks to S.T.A.R., protection against lightning has become not only technically efficient, but also aesthetic. S.T.A.R. comes in 16 colours and 4 different sparkovers i.e. 64 possible combinations to protect your site in the most attractive possible way. Thanks to its reduced size, adapted to bases of the same colour, S.T.A.R. is an ornamental as well as an effective form of protection against lightning.



S.T.A.R., warranty avalaible for 5 years

Colour presentation not contractually binding - In the interest of quality, LPS Frances reserves the right to modify orders without prior notice.

A range of space-saving, reliable, technologically-advanced lightning rods to protect every sort of site. A range of colours to fit perfectly into any setting.

## **External Lightning Protection Facilities :**

In that the downward leaders terminate with the radius within which the S.T.A.R. lightning conductor rod operates, anti-lightning protection entails providing the lightning bolt's electrical current with the requisite conditions to dissipate into the ground, without the at-risk structure being damaged in the process.



## External Lightning Protection Facilities include:

A S.T.A.R. $_{\circ}$  Controlled Grounding Rod

The downward conductor

An earthing with a specific structure

the bolt of lightning is rendered harmless.

← the bolt of lightning is channelled to



The effects of lightning have been known and feared since the dawn of history. However, human perspicacity, ingenuity, and technology now provide protection from lightning'sdevastation. The dynamic, go-ahead firm of LPS France offers you the culmination of research by generations of predecessors.

LPS France is pleased to share their technical expertise in order to prevent damage caused by lightning.

LPS France makes sure to stay up to date with regard to laws, standards, and guidelines, as well as new technical solutions in order to ensure ever-increasing protection against lightning.

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