

Associate for Lightning Consultancy



ASSOCIATE LIGHTNING CONSULTANCY

Products and Services dedicated to
lightning protection

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Why a new Lightning Protection company ?

Very often, the range of proposed product is limited

Existing products are nice but either not practical or with not enough field experience leading to damage due to environment ingress

Sophisticated products are helpful to analyze the field situation but they are difficult to purchase



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What ALC can do for you ?

ALC provide engineering services and provide a range of useful products

All our products are proposed because they have a long time field experience or, for new products, have passed tests in field in areas known for being harsh (where regular product tested according to standards sometimes behave badly)

They have been either designed by installers or have been satisfactorily used by installers

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Fernanda Sousa Cruz

- University of Porto – Electrical and Electronic Engineering Studies
- Graduated Engineer from Instituto Superior Tecnico for Electrical and Electronics
- Instituto Superior de Gestao Lisboa Business engineering
- Lightning Specialist University of Mons - Belgium
- Qualifoudre Level 3 (referee) and Trainer level 4
- More than 30 years experience



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Main products:

- Protection against direct lightning (lightning terminal, mast, catenary wires, mesh systems and accessories)
- Earthing systems (equipotentiality, earth rods, earth mesh, earth conductors, resistance improvers and measuring equipment)
- Prevention and protection of people (storm detector, protective mat for workers)
- Testing and measuring systems (surge and lightning generators portable or for laboratories, high frequency earthing meter, earthing impulse generator)
- Surge protection (Surge Protective Devices, accessories and components)
- Software (lightning risk assessment, earthing system design, separation distance)

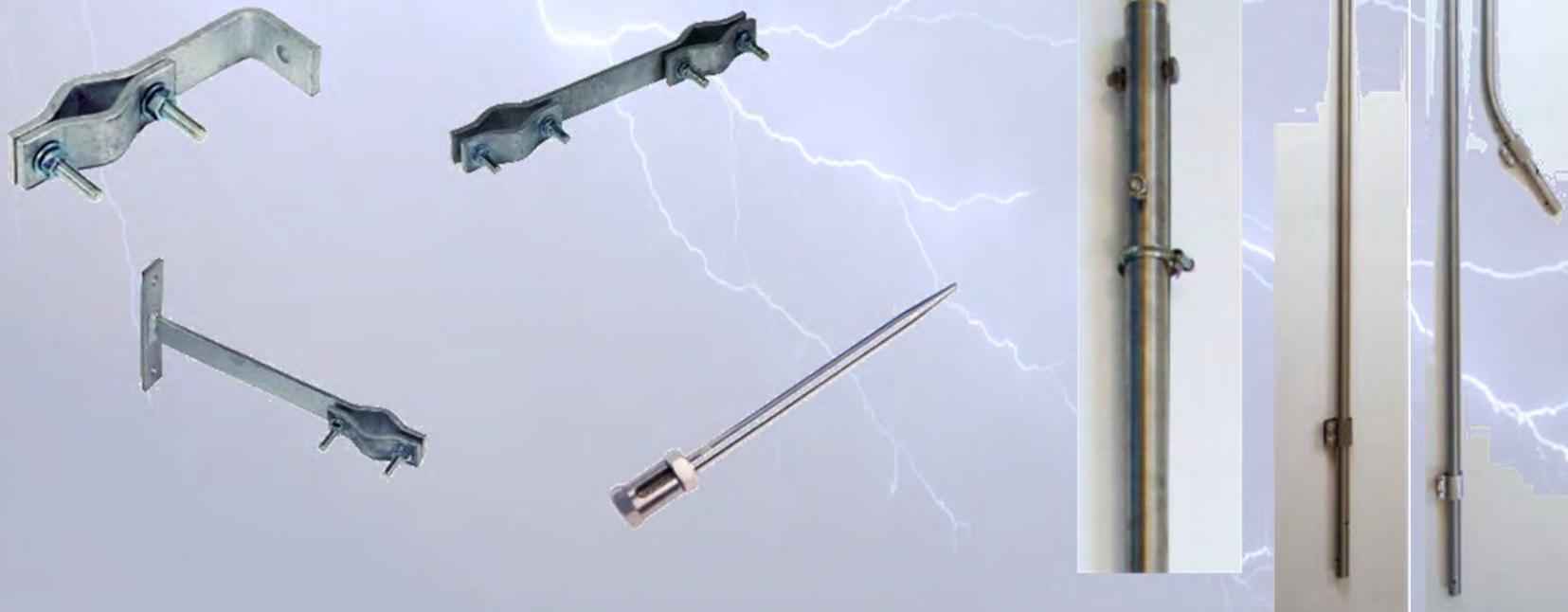
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Protection against direct lightning:
rod, mast, catenary, mesh system and fixing



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Protection against direct lightning:
conductor and fasteners



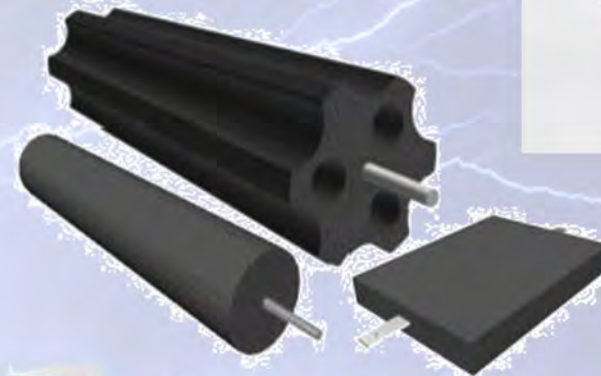
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Earthing systems :
equipotentiality, earth rods and accessories



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Miscellaneous:



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Field testing equipment and storm detection:



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Surge and Impulse Generators for laboratories and industry:



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Surge Protective Devices and SPD components:



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Software:

SPARK (separation distance)

JUPITER NG₁₊₂ (Lightning Risk Assessment)

TECAT + 6.5 (resistance and step/touch voltage)

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Calculation of the separation distance
SPARC software

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JUPITER NG₁₊₂

Risk Assessment according to IEC 62305 part 2
Complete R1, R2, R3 and R4 analysis
Comparative analysis between solutions
Several reports available

TECAT PLUS 6.5 NEW! update 6.5 (October 2021)

Software for grounding grid design Associate for Lightning Consultancy

With 27+ years of development, TecAt Plus is the best cost/performance solution on the market for designing grounding grids for any application in 2-, 3- or 4-layer soil.

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Services:

- Lightning studies
- Site survey and inspection
- Training
- Earthing system design
- User support
- Turn-key solutions

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Our main partners:

SEFTIM: lightning protection studies ..



FEUP: scientific support ..



GrandTop: generators



APS: lightning protection products



SET safe – SET fuse : SPD and SPD components ..



XIAMEN TAIHANG : smart SPDs & surge disconnecter ..



Sichuan Zhongguang : earthing components



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For technical details or enquiries:

Your contact:

sales@alightningconsultant.com

+33 975889664

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