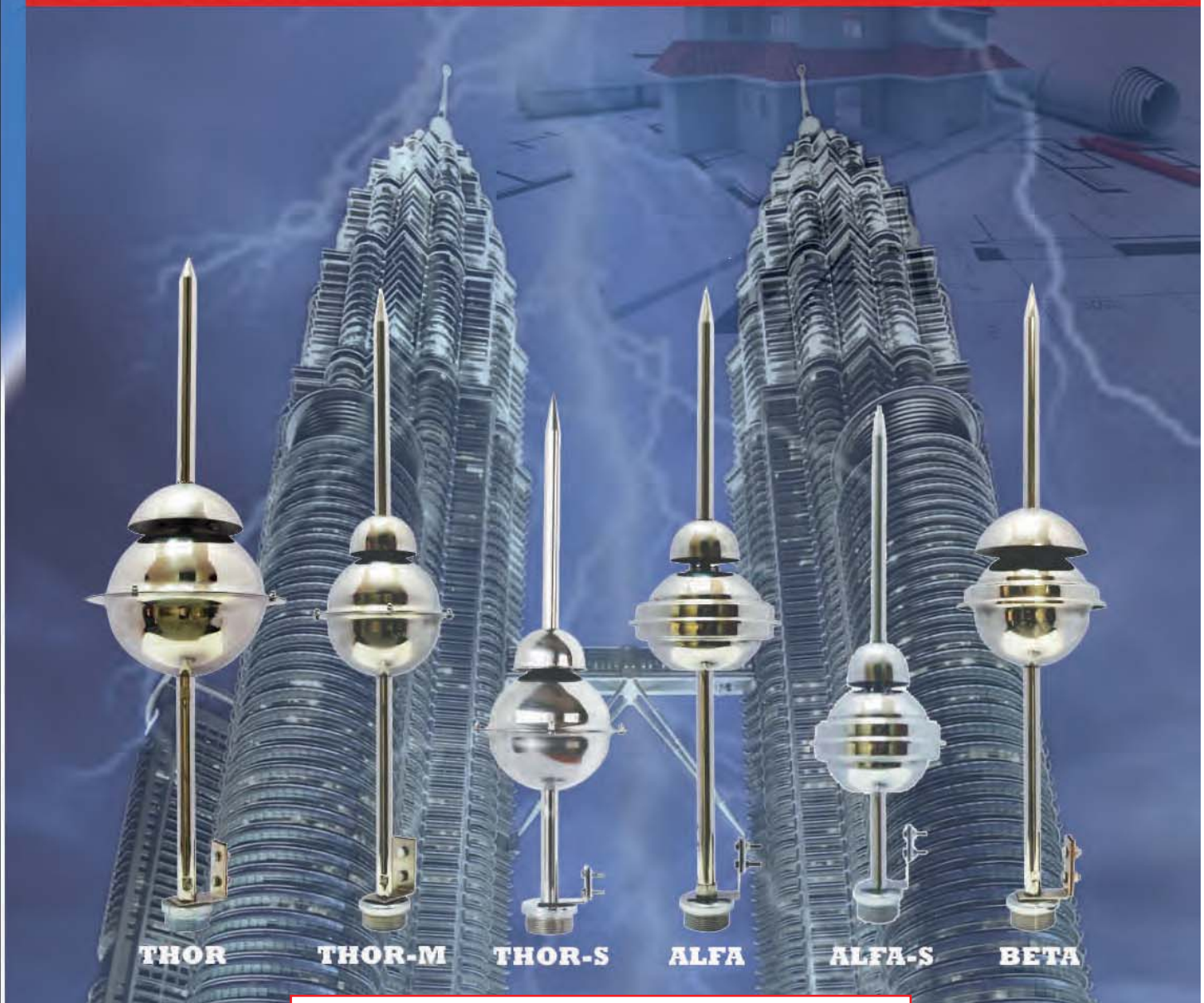
BAKIR AL®

ESE LIGHTNING ROD PROTECTION SYSTEMS

ESE LIGHTNING ROD CONDUCTOR EXPERT MANUFACTURER COMPANY

NFC 17 102
ISO 9001-2008
ISO 14001:2004
OHSAS 18001-2007
30 Years Stainless Steel Warranty

ESE LIGHTNING ROD PROTECTION CATALOG



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NFC 17 102
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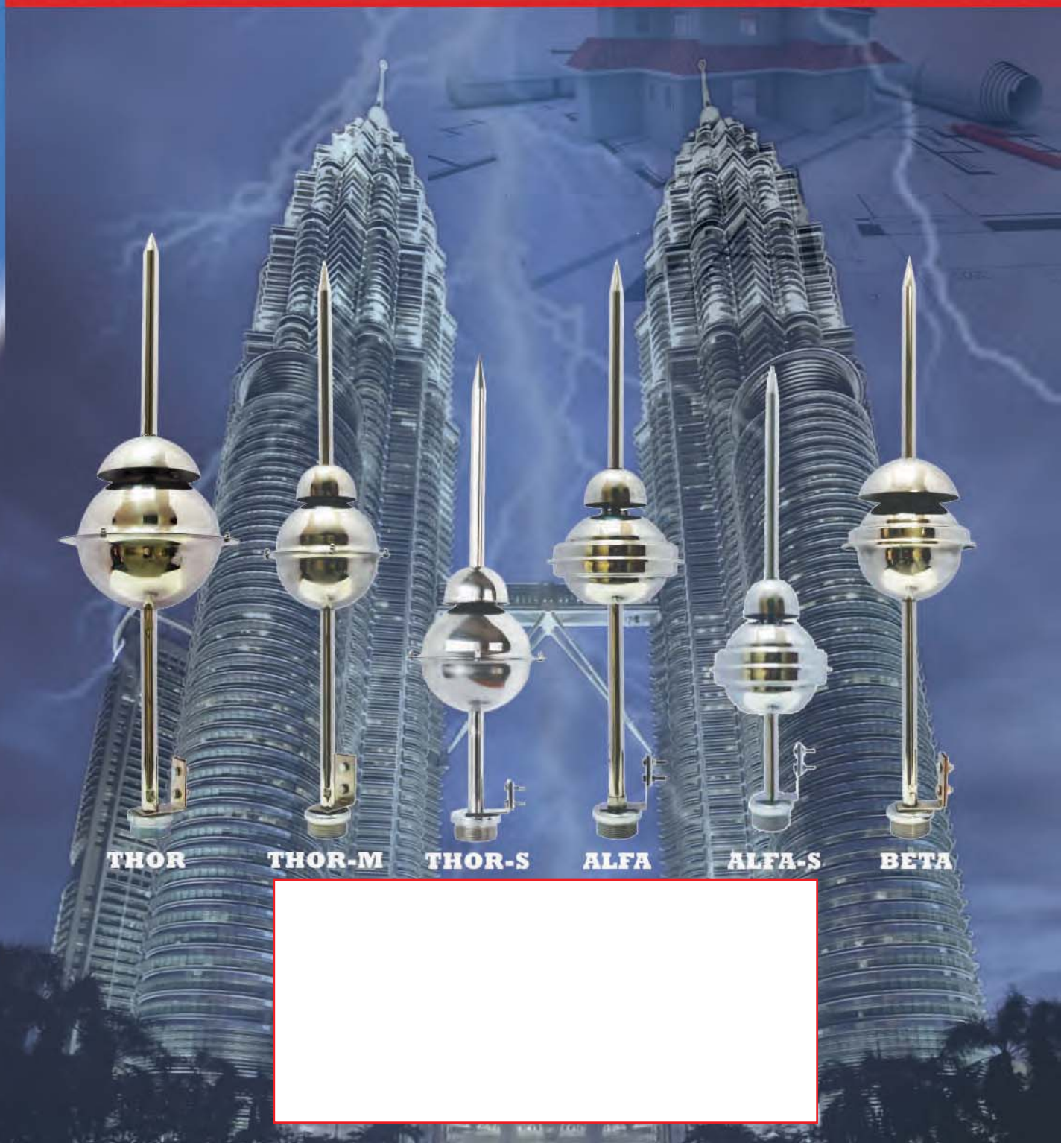


BAKIR AL®

ESE LIGHTNING ROD PROTECTION SYSTEMS

THOR ACTIVE ESE LIGHTNING ROD CONDUCTOR

CHROMIUM
HIGH QUALITY

NFC 17 102
CERTIFICATE

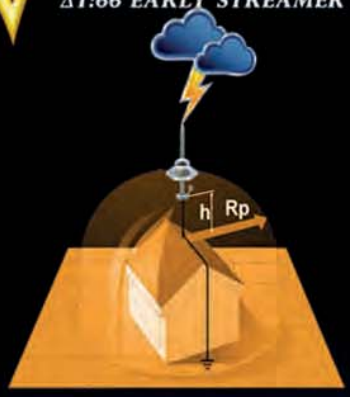
CE

ISO 9001-2008
ISO 14001:2004
OHSAS 18001-2007 CERTIFICATE
NFC 17-102 (APPENDIX C)

WEIGHT:5 KG

30 YEARS STAINLESS STEEL WARRANTY !

- DURABLE AGANIST 100 0C (CELSIUS) HEAT.TESTED 100 KA IN NFC 17 102 LABORATORY
- NFC 17 102 CERTIFICATE
- EARLY STREAMER EMISSION LIGHTNING PROTECTION
- LIGHTNING PROTECTION RADUIUS:230 METERS (RP) FOR H:5 METERS
- ΔT:66 EARLY STREAMER EMISSION TIME



$RP2 = H(2D-H) + \Delta L(2D+\Delta L)$ $H \geq 5$ MT

MOUNTING LEVEL CAN BE 5 METER OR UP

V: THE MOVING VELOCITY OF IONS OCCUR ARROUND AIR TERMINAL TO LIGHTNING AND IN STANDART V=1M/μS

FOR PROTECTION LEVEL I D=20 M
FOR PROTECTION LEVEL II D=45 M
FOR PROTECTION LEVEL III D=60 M
ΔL (M): CALCULATED FROM V(M/μS).ΔT(/μS)
D: THE ADVANCE STEP OF THE LIGHTNING OR THE JUMPING DISTANCE OF LIGHTNING DURING WAY.

ΔL: THE DEDECTING DISTANCE TO LIGHTNING IN ΔT TIMES.
THIS PARAMETER IS VALIABLE ACCORDING TO THE PRODUCED E.S.E AIR TERMINAL AND DETERMINED TO TEST ACCORDING TO THE VALIABLE AND SPECIAL OF PRODECTION IN LABORATORY.H: HEIGHT OF THE POINT OF E.S.E AIR TERMINAL (M) RP: RADIUS PROTECTION (M) THOR AIR TERMINALS ARE ELECTRONIC AREA EFFECTIVE LIGHTNING RODS ,AND THOR ACTIVE LIGHTNING ROD IS CONSTRUCTED OF NONCORROSIVE MATERIAL TO AVOID CHEMICAL CORROSION. THE AIR TERMINAL'S HEAD FUNCTIONS IN BOTH CASES OF POSITIVE LIGHTNING AND NEGATIVE LIGHTNING.THOR TESTED SUCCESSFULLY AND HAD NFC 17 102 WITH FRANCE STANDARDS ESE LIGHTNING CONDUCTOR PROTECTION.
IT HAS ACTIVE AND PASSIVE IONIZATION ELECTRODES.IT OPTIMIZES IONIZATION IN THE ATMOSPHERE IN THE MOST GUARANTEE MANNER BY DETECTING THE POTENTIAL DIFFERENTIATION BETWEEN THE POINT WHERE THE LIGHTNING CONDUCTOR IS LOCATED AND THE GROUND BY MEANS OF ITS PASSIVE ELECTRODES.
THE ION PRODUCTIVITY IS MAXIMIZED WITH THE PARTICIPATION OF INTERNAL ION GENERATOR SYSTEM TO THIS IONIZATION DISPERSION. IT CONTROLS THE VENTURI SYSTEM AND IONIZATION BY MEANS OF THE AERODYNAMIC STRUCTURE OF ACTIVE IONIZATION AND DIRECTION ELECTRODES.THE RESISTANCE TO LIGHTNING CURRENT HAS BEEN TESTED IN MIDDLE EAST TECHNICAL UNIVERSTY ELECTRICAL AND ELECTRONIC ENGINEERING LABROTORY.THOR IS MADE OF STAINLESS 304 A MATERIAL. 30 YEAR WARRANTY AGANIST CORROSION.

NFC 17 102 STANDARD PROTECTION

h (m)	(Rp)) Half Protection Radius (m) (ΔL=60m) Protection Level		
	I	II	III
5	79	97	107
10	79	99	109
20	80	102	113
30	80	104	116
60	80	105	120

THOR ESE LIGHTNING ROD CONDUCTOR APPROVED BY NFC 17 102
NFC STANDARD LIGHTNING NORMS: ΔT:60 EARLY STREAMER EMISSION TIME
NFC 17 102 STANDARD LIGHTNING ROD PROTECTION RADIUS:214 METERS(H:5)
THOR'S VALUES ABOVE STANDARD LIGHTNING PROTECTION RESULTS
THOR TESTED ΔT:66 IN NFC 17 102 LABORATORY APPROVAL HIGH TECHNOLOGY
THOR ESE ACTIVE LIGHTNING ROD LIGHTNING PROTECTION RADIUS :230 METERS (H:5)

BAKIR AL®

ESE LIGHTNING ROD PROTECTION SYSTEMS

THOR-S ACTIVE ESE LIGHTNING ROD CONDUCTOR(EU)

CHROMIUM
HIGH QUALITY

NFC 17 102
CERTIFICATE

CE

ISO 9001-2008
ISO 14001:2004
OHSAS 18001-2007 CERTIFICATE
NFC 17-102 (APPENDIX C)

THOR-S
(WEIGHT:3.85 KG)

30 YEARS STAINLESS STEEL WARRANTY !

- DURABLE AGANIST 100 0C (CELSIUS) HEAT.TESTED 100 KA IN NFC 17 102 LABORATORY
- NFC 17 102 CERTIFICATE
- EARLY STREAMER EMISSION LIGHTNING PROTECTION
- LIGHTNING PROTECTION RADUIUS: 250 METERS (RP) FOR H:5 METERS
- ΔT:76 EARLY STREAMER EMISSION TIME

RP2 = H(2D-H) + ΔL(2D+ΔL) H≥5 MT
MOUNTING LEVEL CAN BE 5 METER OR UP
V: THE MOVING VELOCITY OF IONS OCCUR ARROUND AIR TERMINAL TO LIGHTNING AND IN STANDART V=1M/μS

FOR PROTECTION LEVEL I D=20 M
FOR PROTECTION LEVEL II D=45 M
FOR PROTECTION LEVEL III D=60 M
ΔL (M): CALCULATED FROM V(M/μS).ΔT(/μS)
D: THE ADVANCE STEP OF THE LIGHTNING OR THE JUMPING DISTANCE OF LIGHTNING DURING WAY.

ΔL: THE DEDECTING DISTANCE TO LIGHTNING IN ΔT TIMES.
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IT HAS ACTIVE AND PASSIVE IONIZATION ELECTRODES.IT OPTIMIZES IONIZATION IN THE ATMOSPHERE IN THE MOST GUARANTEE MANNER BY DETECTING THE POTENTIAL DIFFERENTIATION BETWEEN THE POINT WHERE THE LIGHTNING CONDUCTOR IS LOCATED AND THE GROUND BY MEANS OF ITS PASSIVE ELECTRODES.
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30 YEAR WARRANTY AGANIST CORROSION.

NFC 17 102 STANDARD PROTECTION

h (m)	(Rp)) Half Protection Radius (m) (ΔL=60m) Protection Level		
	I	II	III
5	79	97	107
10	79	99	109
20	80	102	113
30	80	104	116
60	80	105	120

THOR-S ESE LIGHTNING ROD CONDUCTOR APPROVED BY NFC 17 102 STANDARD NFC 17 102 STANDARD NORMS:ΔT 60 μS .(EARLY STREAMER EMISSION)
THOR-S TEDTED IN NFC 17 102 LABORATORY: ΔT = 76 μS .
THOR-S ESE LIGHTNING ROD CONDUCTOR' VALUES ABOVE STANDARD PROTECTTION
NFC 17 102 LIGHTNING PROTECTION RADIUS NORMS:214 METERS
THOR-S LIGHTNING ROD CONDUCTOR LIGHTNING PROTECTION RADIUS:250 METERS
THOR-S ESE LIGHTNONG ROD CONDUCTOR HAVE A PERFECTLY EARLY STREAMER EMISSION AND LIGHTNING PROTECTION WITH HIGH TECHNOLOGY BY APPROVAL NFC 17 102.
THOR-S PROVIDES SAFETY LIGHTNING PROTECTION ON LIGHTNING ROD PROJECTS

BAKIRAL®

ESE LIGHTNING ROD PROTECTION SYSTEMS

ALFA ACTIVE ESE LIGHTNING ROD CONDUCTOR(EU)

POWERFUL
EARLY STREAMER EMISSION

CHROMIUM
HIGH QUALITY

NFC 17 102
CERTIFICATE

CE

ISO 9001-2008
ISO 14001:2004
OHSAS 18001-2007 CERTIFICATE
NFC 17-102 (APPENDIX C)

ALFA
(WEIGHT:4.2 KG)

30 YEARS STAINLESS STEEL WARRANTY !

- DURABLE AGANIST 100 0C (CELSIUS) HEAT.TESTED 100 KA IN NFC 17 102 LABORATORY
- NFC 17 102 CERTIFICATE
- EARLY STREAMER EMISSION LIGHTNING PROTECTION
- LIGHTNING PROTECTION RADUIUS: 250METERS (RP) FOR H:5 METERS
- ΔT:66 EARLY STREAMER EMISSION TIME

RP2 = H(2D-H) + ΔL(2D+ΔL) H≥5 MT
MOUNTING LEVEL CAN BE 5 METER OR UP
V: THE MOVING VELOCITY OF IONS OCCUR ARROUND AIR TERMINAL TO LIGHTNING AND IN STANDART V=1M/μS

FOR PROTECTION LEVEL I D=20 M
FOR PROTECTION LEVEL II D=45 M
FOR PROTECTION LEVEL III D=60 M
ΔL (M): CALCULATED FROM V(M/μS).ΔT(/μS)
D: THE ADVANCE STEP OF THE LIGHTNING OR THE JUMPING DISTANCE OF LIGHTNING DURING WAY.

ΔL: THE DEDECTING DISTANCE TO LIGHTNING IN ΔT TIMES.
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	I	II	III
5	79	97	107
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20	80	102	113
30	80	104	116
60	80	105	120

- ALFA ESE LIGHTNING ROD CONDUCTOR APPROVED BY NFC 17 102
- STANDARD NFC 17 102 STANDARD NORMS:ΔT:60(EARLY STREAMER EMISSION)
- ALFA TEDTED IN NFC 17 102 LABORATORY: ΔT:66 μS
- ALFA ESE LIGHTNING ROD CONDUCTOR VALUES ABOVE STANDARD PROTECTTION
- NFC 17 102 LIGHTNING PROTECTION RADIUS NORMS:214 METERS
- ALFA LIGHTNING ROD CONDUCTOR LIGHTNING PROTECTION RADIUS:230 METERS
- ALFA ESE LIGHTNONG ROD CONDUCTOR HAVE A PERFECTLY EARLY STREAMER EMISSION AND LIGHTNING PROTECTION WITH HIGH TECHNOLOGY BY APPROVAL NFC 17 102.
- ALFA PROVIDES SAFETY LIGHTNING PROTECTION ON LIGHTNING ROD PROJECTS

BAKIR AL®

ESE LIGHTNING ROD PROTECTION SYSTEMS

ALFA-S ACTIVE ESE LIGHTNING ROD CONDUCTOR(EU)

POWERFUL
EARLY STREAMER EMISSION

CHROMIUM
HIGH QUALITY

NFC 17 102
CERTIFICATE

CE

ISO 9001-2008
ISO 14001:2004
OHSAS 18001-2007 CERTIFICATE
NFC 17-102 (APPENDIX C)

ALFA-S (WEIGHT:3.8 KG) ALFA-S CONIC (WEIGHT:4.1 KG)

30 YEARS STAINLESS STEEL WARRANTY !

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- NFC 17 102 CERTIFICATE
- EARLY STREAMER EMISSION LIGHTNING PROTECTION
- LIGHTNING PROTECTION RADUIUS:250 METERS (RP) FOR H:5 METERS
- ΔT76 EARLY STREAMER EMISSION TIME

RP2 = H(2D-H) + ΔL(2D+ΔL) H≥5 MT
MOUNTING LEVEL CAN BE 5 METER OR UP
V: THE MOVING VELOCITY OF IONS OCCUR ARROUND AIR TERMINAL TO LIGHTNING AND IN STANDART V=1M/μS

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ALFA-S ESE LIGHTNING ROD CONDUCTOR APPROVED BY NFC 17 102
NFC 17 102 STANDARD NORMS:ΔT = 60 μS .(EARLY STREAMER EMISSION)
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ALFA-S PROVIDES SAFETY LIGHTNING PROTECTION ON LIGHTNING ROD PROJECTS

BAKIR AL®

ESE LIGHTNING ROD PROTECTION SYSTEMS

BETA ACTIVE ESE LIGHTNING ROD CONDUCTOR(EU)

PROFESSIONAL ESE LIGHTNING SAFETY PROTECTION

CHROMIUM
HIGH QUALITY

NFC 17 102
CERTIFICATE

CE

ISO 9001-2008
ISO 14001:2004
OHSAS 18001-2007 CERTIFICATE
NFC 17-102 (APPENDIX C)

BETA
(WEIGHT:3.85 KG)

POWERFUL
EARLY STREAMER EMISSION

30 YEARS STAINLESS STEEL WARRANTY !

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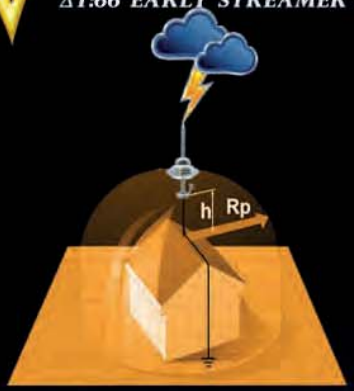

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20	80	102	113
30	80	104	116
60	80	105	120

BETA ESE LIGHTNING ROD CONDUCTOR APPROVED BY NFC 17 102 STANDARD NFC 17 102 STANDARD NORMS:ΔT:60 μS EARLY STREAMER EMISSION)
BETA TEDTED IN NFC 17 102 LABORATORY: ΔT = 66 μS
BETA ESE LIGHTNING ROD CONDUCTOR' VALUES ABOVE STANDARD PROTECTTION
NFC 17 102 LIGHTNING PROTECTION RADIUS NORMS:214 METERS
BETA LIGHTNING ROD CONDUCTOR LIGHTNING PROTECTION RADIUS:230 METERS
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BY APPROVAL NFC 17 102.
BETA PROVIDES SAFETY LIGHTNING PROTECTION ON LIGHTNING ROD PROJECTS

BAKIRAL®

ESE LIGHTNING ROD PROTECTION SYSTEMS

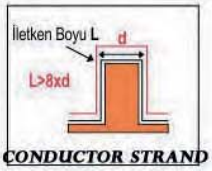
ESE LIGHTNING ROD CONDUCTOR

POLE CLAMP

600cm

2" GALVANİZ DİREK

POLE MONTAGE TABLE



CONDUCTOR STRAND

WALL CLIPS

Ø 8 COPPER WIRE ROOD

TEST TERMINAL

PVC ISOLATED PIPE

CASING PIPE ISOLATED

PIPE ISOLATED CLAMP

EXOTHERMIC WELDING POWDER
OR EARTHING COPPER CLAMP

EARTHING AT LEAST 5 OHM

BAKIRAL GROUNDING POWDER

BAKIRAL®

ESE LIGHTNING ROD PROTECTION SYSTEMS

NFC 17 102

BAKIRAL ESE LIGHTNING ROD CONDUCTOR & FARADAY CAGE MONTAGE EARTHING MONTAGE FASTENER PRODUCTS