THOR-S ACTIVE ESE LIGHTNING ROD CONDUCTOR

CHROMIUM HIGH QUALITY

NFC 17 102 CERTIFICATE

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

LENGTH DIAMETER 65 CM
RADIUS 18 CM

30 YEARS STAINLESS STEEL WARRANTY!

DURABLE AGAINST 100 OC (CELSIUS) HEAT: TESTED 100 KA IN NFC 17 102 LABORATORY

EARLY STREAMER EMISSION LIGHTNING PROTECTION
LIGHTNING PROTECTION RADIUS: 250 METERS (RP) FOR 11.5 METERS
\[ \Delta t \approx 6 \] EARLY STREAMER EMISSION TIME

\[ RP = (H - H' + \Delta L -2D+\Delta L) \geq 5 M \]
MOUNTING LEVEL CAN BE 5 METER OR UP TO THE MOVING VELOCITY OF IONS OCCUR AROUND AIR TERMINAL TO LIGHTNING AND IN STANDART \( V = 4 M / \mu s \)

FOR PROTECTION LEVEL I D = 20 M
FOR PROTECTION LEVEL II D = 45 M
FOR PROTECTION LEVEL III D = 60 M

\[ \Delta L (M) = \text{CALCULATED FROM } V(M/\mu s) \times \Delta t(\mu s) \]
D: THE ADVANCE STEP OF THE LIGHTNING OR THE JUMPING DISTANCE OF LIGHTNING DURING WAY.

THOR-S ESE LIGHTNING ROD CONDUCTOR APPROVED BY NFC 17 102

STANDARD NFC 17 102 STANDARD NORMS: AT 60 \( \mu s \) (EARLY STREAMER EMISSION)

THOR-S TESTED IN NFC 17 102 LABORATORY: AT = 76 \( \mu s \)

THOR-S ESE LIGHTNING ROD CONDUCTOR VALUES ABOVE STANDARD PROTECTION

NFC 17 102 LIGHTNING PROTECTION RADIUS NORMS: 24 METERS
THOR-S LIGHTNING ROD CONDUCTOR LIGHTNING PROTECTION RADIUS 250 METERS
THOR-S LIGHTNING 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

THOR-S ESE LIGHTNING ROD PROTECTION SYSTEMS
ALFA ACTIVE ESE LIGHTNING ROD CONDUCTOR (EU)

POWERFUL EARLY STREAMER EMISSION

CHROMIUM HIGH QUALITY

NFC 17 102 CERTIFICATE

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

30 YEARS STAINLESS STEEL WARRANTY!

DURABLE AGAINST 100ºC (CELSIUS) HEAT. TESTED 100 KA IN NFC 17 102 LABORATORY

NFC 17 102 CERTIFICATE
EARLY STREAMER EMISSION LIGHTNING PROTECTION LIGHTNING PROTECTION RADIUS: 250 METERS (RP) FOR H=5 METERS AT=66 EARLY STREAMER EMISSION TIME

RP = H (2-D) + AL (2+AL) H=5 MT MOUNTING LEVEL CAN BE 5 METER OR UP V: THE MOVING VELOCITY OF IONS OCCUR AROUND AIR TERMINAL TO LIGHTNING AND IN STANDARD V=1M/µS

FOR PROTECTION LEVEL 1 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.

ALFA ESE LIGHTNING ROD CONDUCTOR APPROVED BY NFC 17 102 STANDARD NFC 17 102 STANDARD NORMS: AT=60 EARLY STREAMER EMISSION)
ALFA TESTED IN NFC 17 102 LABORATORY: ΔT=66 µS
ALFA ESE LIGHTNING ROD CONDUCTOR VALUES ABOVE STANDARD PROTECTION NFC 17 102 LIGHTNING PROTECTION RADIUS NORMS: 214 METERS
ALFA LIGHTNING ROD CONDUCTOR LIGHTNING PROTECTION RADIUS: 230 METERS ALFA ESE LIGHTNING 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

NFC 17 192 STANDARD PROTECTION

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<th>h (m)</th>
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DURABLE AGAINST 100 OC (CELSIUS) HEAT TESTED 100 KA IN NFC 17 102 LABORATORY

NFC 17 102 CERTIFICATE
EARLY STREAMER EMISSION LIGHTNING PROTECTION
LIGHTNING PROTECTION RADIUS=250 MATURES (RP) FOR H=5 METERS ΔT=65 EARLY STREAMER EMISSION TIME

RP2 = H(2D-H) + ΔL(2D+H) H=5 M
MOUNTING LEVEL CAN BE 5 METER OR UP W THE MOVING VELOCITY OF IONS OCCUR ARROUN 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.

ALL THE DEFLECTING DISTANCE TO LIGHTNING IN ΔT TIMES.

THIS PARAMETER IS VALUABLE ACCORDING TO THE PRODUCED ESE AIR TERMINAL AND DETERMINED TO TEST ACCORDING TO THE CHAMPS AND SPECIAL OF PRODUCTION IN LABORATORY. HEIGHT OF THE POINT OF ESE AIR TERMINAL 05 RP: RADIUS PROTECTION OR THOR AIR TERMINALES ARE ELECTRONIC AREA EFFECTIVE LIGHTNING RODS AND THOR ACTIVE LIGHTNING ROD IS CONSTRUCTED OF NONCONDUCTIVE MATERIAL TO AVOID CHEMICAL CORROSION. THE AIR TERMINAL'S HEAD FUNCTIONS IN BOTH CASES OF POSITIVE LIGHTNING AND NEGATIVE LIGHTNING: THOR TESTED SUCCESSFULLY AND BAD USING IT WITH THE NFC STANDARD FOR LIGHTNING CONDUCTOR PROTECTION.

IT HAS ACTIVE AND PASSIVE IONIZATION ELEKTRONIST OPTIMIZES IONIZATION IN THE ATMOSPHERE IN THE MOST GUARANTER MANNER BY REDUCING THE POTENTIAL DIFFERENTIATION BETWEEN THE POINT WHERE THE LIGHTNING CONDUCTOR IS LOCATED AND THE ORIGIN BY MEANS OF ITS PASSIVE ELECTRODES.

THE NON CONDUCTIVE IS ASSOCIATED WITH THE PARTICIPATION OF INTERNAL NON GENERATOR SYSTEM TO THE IONIZATION DISPERSSION. IT CONTROLS THE TENTURE SYSTEM AND IONIZATION BY MEANS OF THE AERODYNAMIC STRUCTURE OF ACTIVE IONIZATION AND ELECTRONIC AUGMENTING THE RESISTANCE TO LIGHTNING CURRENT BEEN TESTED IN MIDDLE EAST TECHNICAL UNIVERSITY ELECTRICAL AND ELECTRONIC ENGINEERING LABORATORY: THOR IS MADE OF STAINLESS 304 A MATERIAL 30 YEAR WARRANTY AGAINST CORROSION.

NFC 17 102 STANDARD PROTECTION

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<th>H/2 Protection Radius (m)</th>
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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)
ALFA-S TESTED IN NFC 17 102 LABORATORY: ΔT=76 μS

ALFA-S ESE LIGHTNING ROD CONDUCTOR VALUES ABOVE STANDARD PROTECTION
NFC 17 102 LIGHTNING PROTECTION RADIUS NORMS: 214 METERS
ALFA-S LIGHTNING ROD CONDUCTOR LIGHTNING PROTECTION RADIUS: 250 METERS
ALFA-S ESE LIGHTNING ROD CONDUCTOR HAVE A PERFECTLY EARLY STREAMER EMISSION AND LIGHTNING PROTECTION WITH HIGH TECHNOLOGY
BY APPROVAL NFC 17 102.
ALFA-S PROVIDES SAFETY LIGHTNING PROTECTION ON LIGHTNING ROD PROJECTS.
BETA ACTIVE ESE LIGHTNING ROD CONDUCTOR (EU)
PROFESSIONAL ESE LIGHTNING SAFETY PROTECTION
CHROMIUM HIGH QUALITY
NFC 17 102 CERTIFICATE
ISO 9001-2008
ISO 14001:2004
OHSAS 18001-2007 CERTIFICATE
NFC 17-102 (APPENDIX C)

30 YEARS STAINLESS STEEL WARRANTY!
DURABLE AGAINST 100 QC (CELSIUS) HEAT TESTED 100 KA IN NFC 17 102 LABORATORY
NFC 17 102 CERTIFICATE
EARLY STREAMER EMISSION LIGHTNING PROTECTION
LIGHTNING PROTECTION RADIUS: 250 M METERS (RP) FOR 1.5 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 AROUND AIR TERMINAL TO LIGHTNING AND IN STANDARD V=4M/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 DEPORTING DISTANCE TO LIGHTNING IN AT TIMES.

RP: THIS PARAMETER IS VALUABLE ACCORDING TO THE PRODUCED ESE AIR TERMINAL AND DETERMINED TO TEST
TO ACCORDING TO THE VARIOUS SPECIFICATION OF LIGHTNING PROTECTION RP, RAP, RAPID PROTECTION OR THOR, AIR TERMINAL ARE ELECTRONIC AREA EFFECTIVE LIGHTNING ROD, AND THOR
ACTIVE LIGHTNING ROD IS CONSTRUCTED OF NON-CORROSION TO AVOID CHEMICAL CORROSION THE AIR TERMINAL HEAD FUNCTIONS IN BOTH CASES OF POSITIVE LIGHTNING AND NEGATIVE LIGHTNING THOR TESTED SUCCESFULLY AND HAS
NFC 17 102 WITH FRANCE BAE LIGHTNING CONDUCTOR PROTECTION.
IT HAS ACTIVE AND PASSIVE IONIZATION ELECTRODE, ELECTRODE IONIZATION IN THE ATMOSPHERE IN THE MOST GUARANTEED MANNER BY DETECTING THE POTENTIAL DIFFERENTIATION BETWEEN THE POINT WHERE THE LIGHTNING CONDUCTOR IS
INSTALLED 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 IMPURITIES THE VERTICAL SYSTEM AND IONIZATION BY MEANS OF THE AERODYNAMIC STRUCTURES OF ACTIVE
IONIZATION AND DIRECTION ELECTRODES THE RESISTANCE TO LIGHTNING CURRENT HAS BEEN TESTED IN MIDDE EAST
TECHNICAL UNIVERSITY ELECTRICAL AND ELECTRONIC ENGINEERING LABORATORY IT IS MADE OF STAINLESS STEEL MATERIAL

30 YEAR WARRANTY AGAINST CORROSION.

NFC 17 102 STANDARD PROTECTION
(RP) : HALF PROTECTION RADIUS (m)

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BETA ESE LIGHTNING ROD CONDUCTOR APPROVED BY NFC 17 102
STANDARD NFC 17 102 STANDARD NORMS: ΔT: 60 µS EARLY STREAMER EMISSION
BETA TESTED IN NFC 17 102 LABORATORY: ΔT = 66 µS

BETA ESE LIGHTNING ROD CONDUCTOR VALUES ABOVE STANDARD PROTECTION
NFC 17 102 LIGHTNING PROTECTION RADIUS NORMS: 215 METERS
BETA LIGHTNING ROD CONDUCTOR LIGHTNING PROTECTION RADIUS: 230 METERS
BETA ESE LIGHTNING ROD CONDUCTOR HAVE A PERFECTLY EARLY STREAMER
EMISSION AND LIGHTNING PROTECTION WITH HIGH TECHNOLOGY
BY APPROVAL NFC 17 102.
BETA PROVIDES SAFETY LIGHTNING PROTECTION ON LIGHTNING ROD PROJECTS.