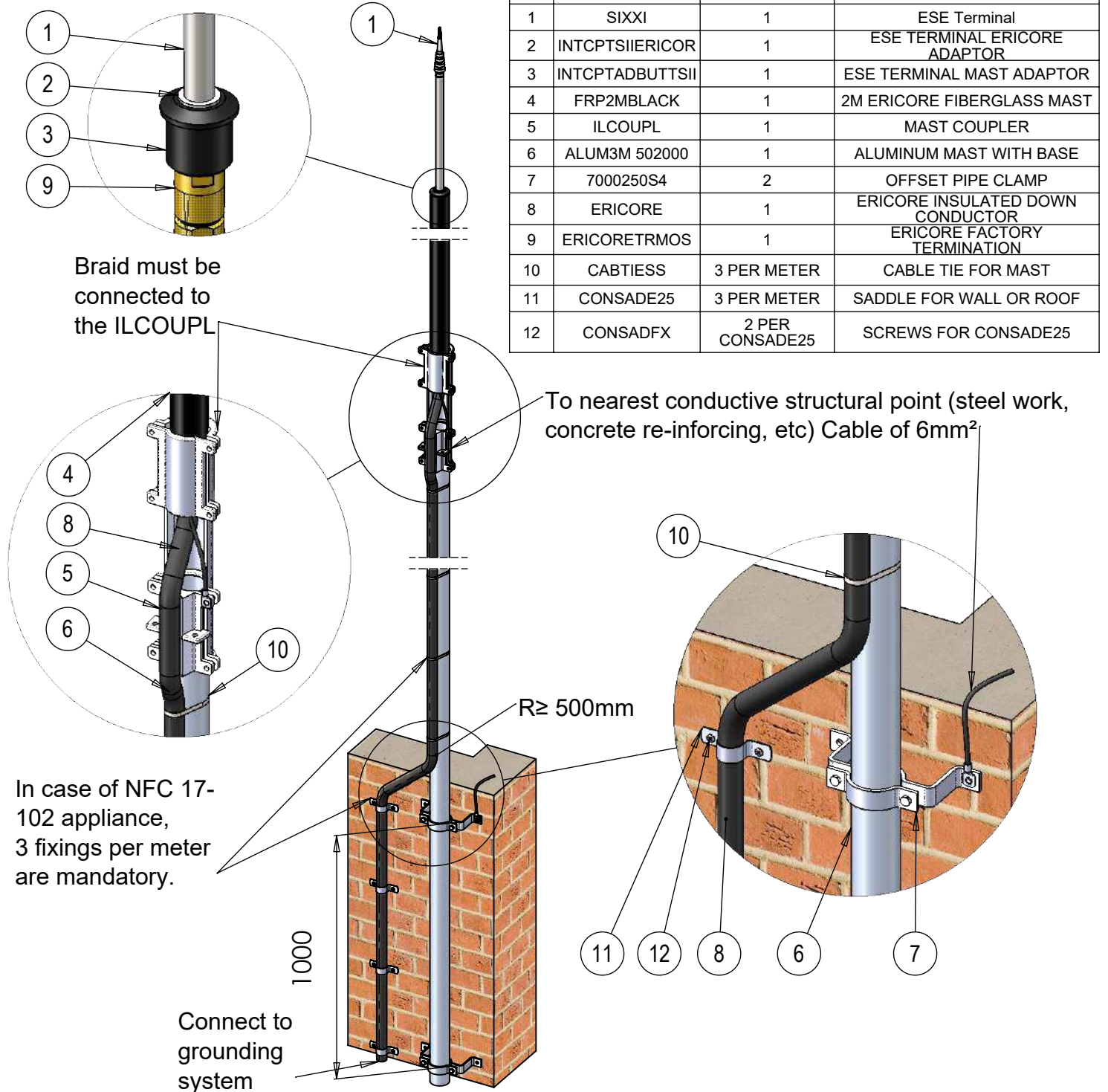


nVent ERICO System 1000 + nVent ERICO Ericore CANTILEVERED 4m above building, total mast 5m

**WARNING:**

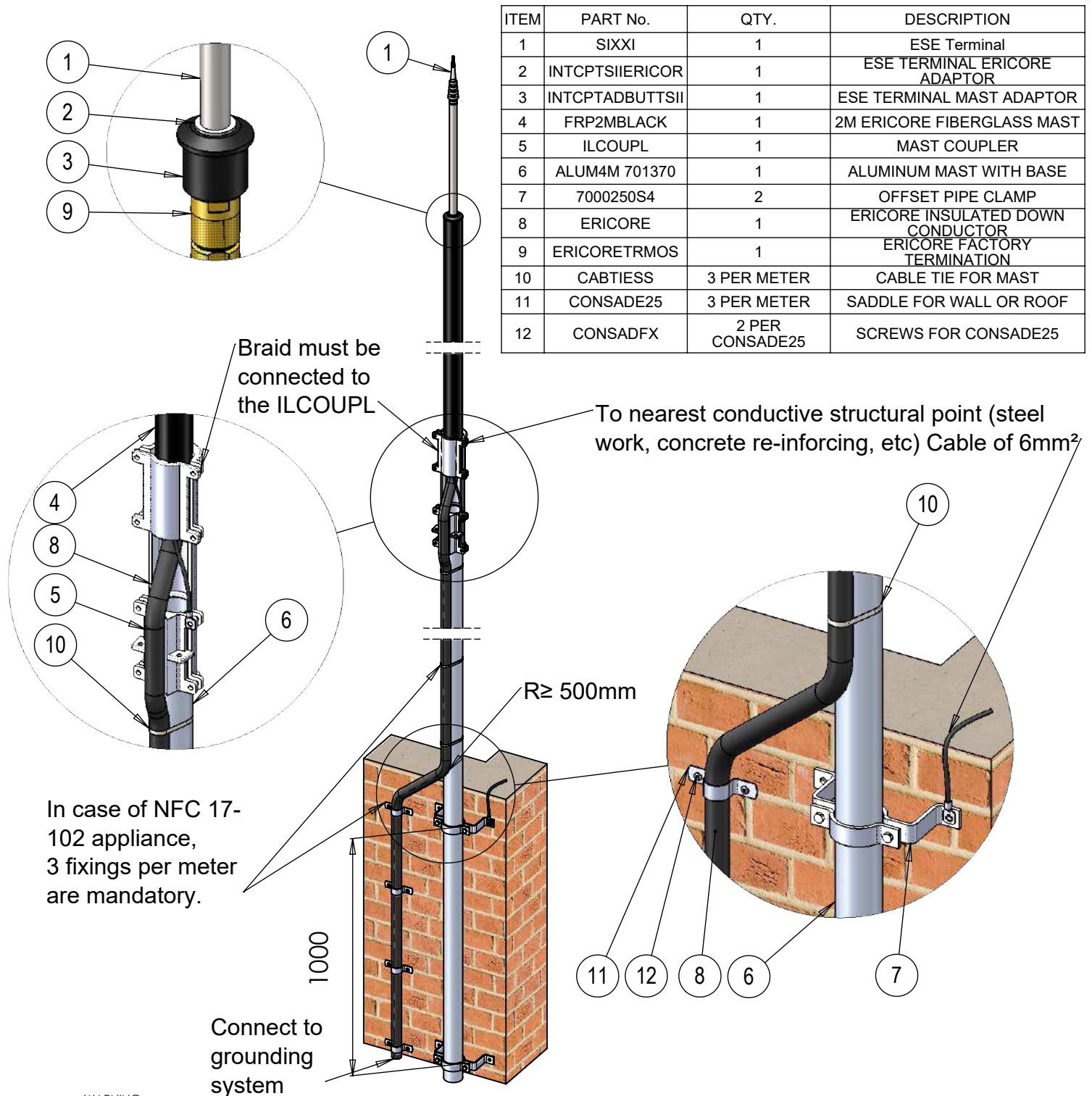
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3. All instructions must be completely followed to ensure proper and safe installation and performance.
4. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

SAFETY INSTRUCTIONS:

All governing codes and regulations and those required by the job site must be observed.
Always use appropriate safety equipment such as eye protection, hard hat, and gloves as appropriate to the application.

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nVent ERICO System 1000 + nVent ERICO Ericore CANTILEVERED 5m above building, total mast 6m

**WARNING:**

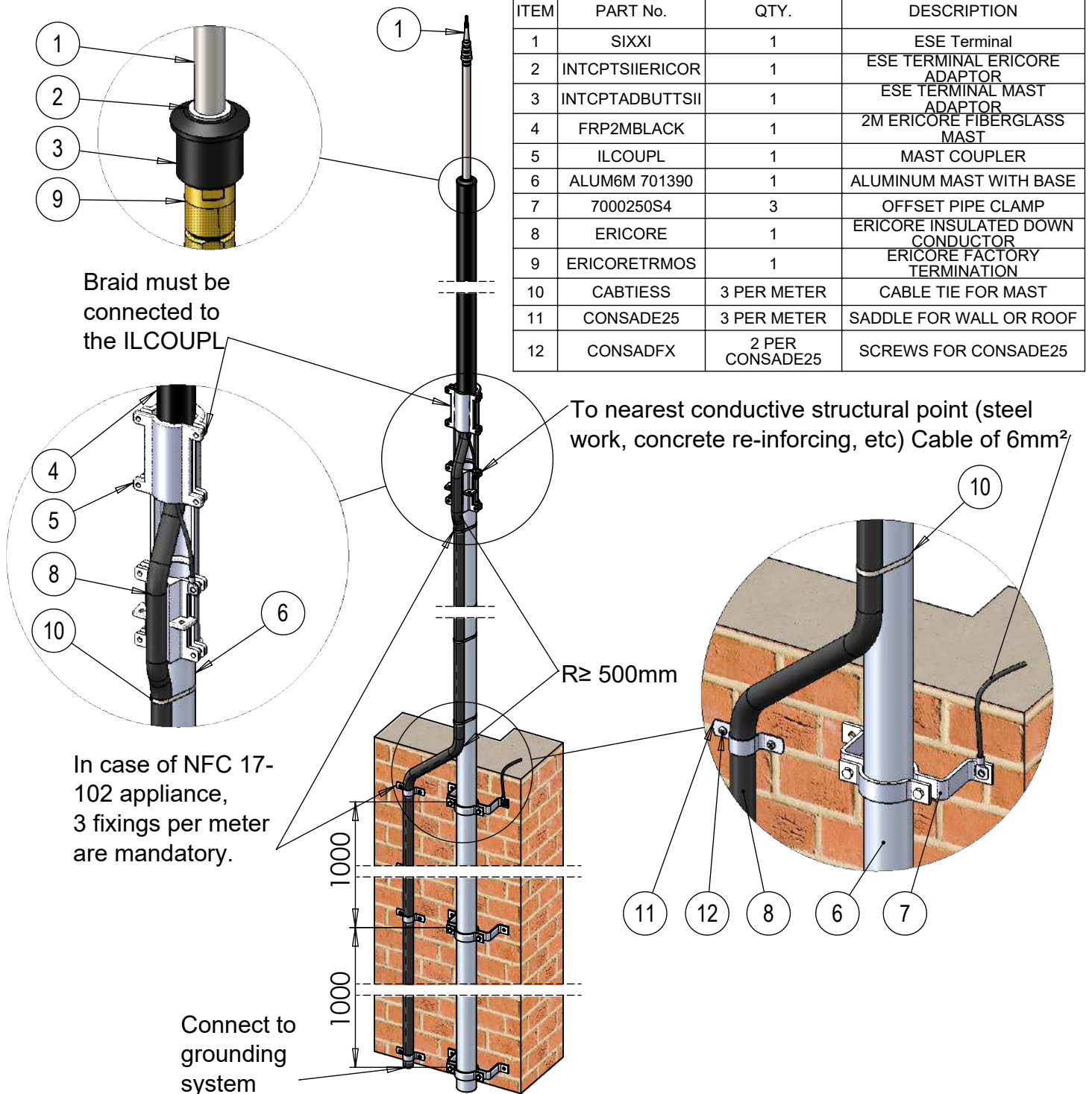
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nVent ERICO System 1000 + nVent ERICO Ericore CANTILEVERED 6m above building, total mast 8m

**WARNING:**

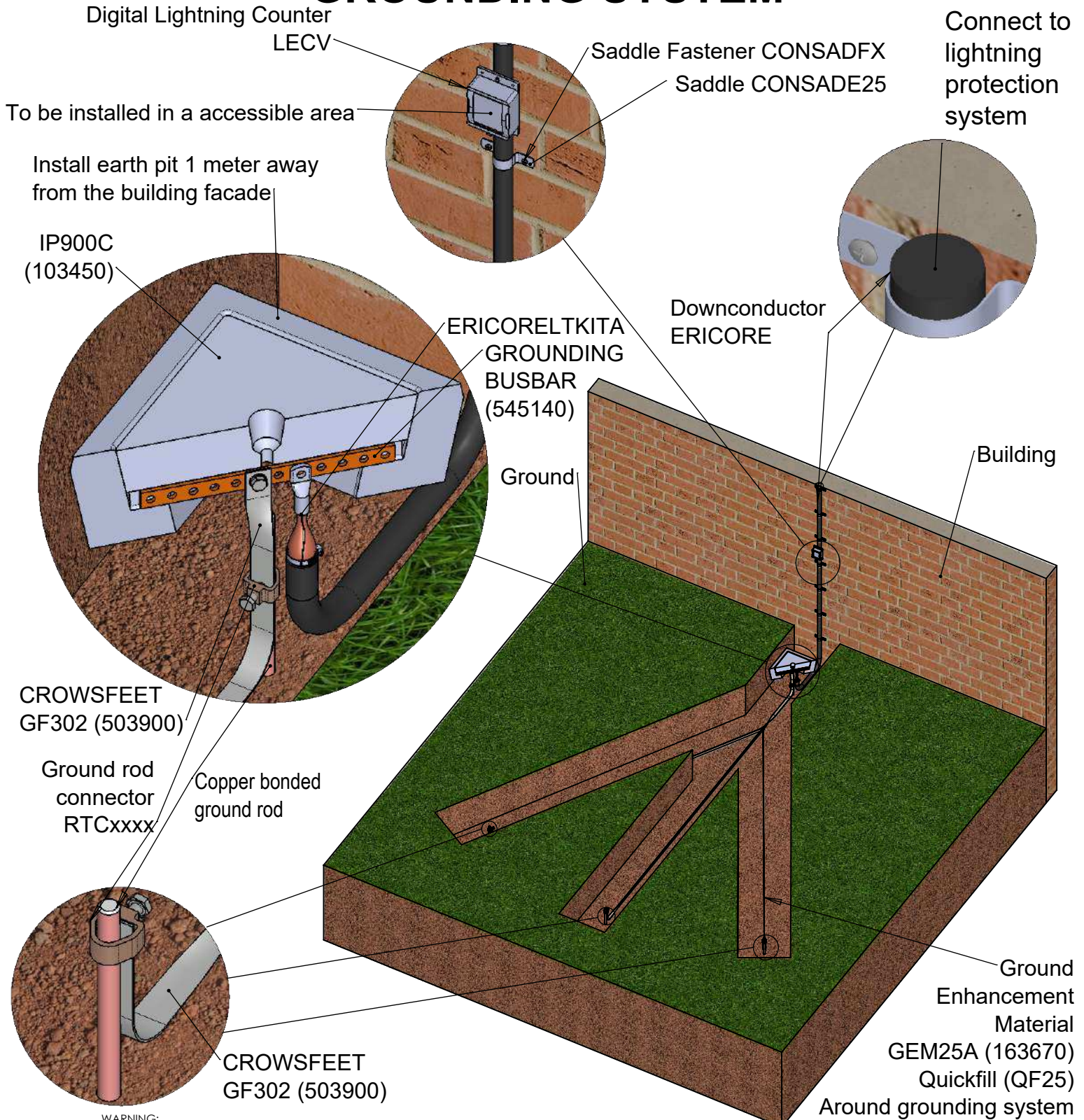
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GROUNDING SYSTEM



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nVent ERICO system 1000 + nVent ERICO Ericore

Parts and accessories

LIGHTNING SYSTEM

EARLY STREAMER EMISSION TERMINAL

- SI25I
- SI40I
- SI60I or SI60I316

ALUMINUM MAST

- ALUM3M (502000)
- ALUM4M (701370)
- ALUM5M (701380)
- ALUM6M (701390)

ERICORE FIBERGLASS MAST

- FRP2MBLACK (702030)
- FRP2MWHITE (702040)

MAST COUPLER

- ILCOUPL (701320)

OFFSET PIPE CLAMP

- 7000250S4 (702065)

CONDUCTOR

- ERICORE (701875)

ERICORE FACTORY TERMINATION

- ERICORETRMIS (701895)
- ERICORETRMOS (701915)

GROUNDING SYSTEM

GROUND ROD

nVent ERICO Ground Rod

GROUND ROD TO CONDUCTOR

INSPECTION HOUSINGS

GROUNDING BUSBAR

PREFABRICATED CROWSFEET

- GF302 (503900)

QUICKFILL (QF25)

GEM25A (163670)
nVent ERICO GEM

LIGHTNING EVENT COUNTER

- LECV
- LECIV (702050)

FASTENERS

CABLE TIE

- CABTISS (701420)

- CONSADE25 (701990)
- CONSADFX (01410)

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Installation Guidelines

This manual is a guide to the installation, operation and maintenance of the nVent ERICO SYSTEM 1000 Lightning Protection System. It assumes that the system to be installed has been designed by an authorized nVent representative. The system design will include:

- Grounding systems design – a configuration should be designed as a result of soil resistivity analysis.
- Downconductor routes - chosen to avoid other services maintain minimum bending radius of 20 cm (8 inches) or greater and minimize downconductor run length.
- Downconductor securing requirements.
- LPSP - CAD analysis design software which determines terminal placement, mast & height requirements as well as protection level calculation.

All of the above are recommended for a successful installation. If there is any doubt about any of the points mentioned, please contact nVent or its nearest representative for clarification.

For additional details on installing your nVent ERICO SYSTEM 1000, please refer to nVent's technical notes and the French standard NFC17-102. It is also recommended to adhere to local standards for relevant local downconductor and grounding requirements.



Warning - Do not attempt to install the nVent ERICO SYSTEM 1000 during periods of lightning activity.

Installation

The recommended order of installation is as follows:

1. Full installation of the grounding system.
2. Full installation of the downconductor(s).
3. Termination of the downconductor(s) to the grounding system.
4. Terminate the top of the downconductor(s) to the nVent ERICO SYSTEM 1000 mast.
5. Attach the terminal to the top of the mast.
6. Raise the mast into position and secure.
7. The nVent ERICO SYSTEM 1000 must be at least two meters higher than any point on the structure it is intended to protect.
8. The resistance of the lightning protection grounding system must be less than 10 ohms. This should be measured without downconductor(s) connected and without interconnection to other grounding systems.

Operation

The nVent ERICO SYSTEM 1000 lightning protection system requires no user operation: it is completely automatic in operation.

1. The nVent ERICO SYSTEM 1000 becomes active only during storm activity.
2. The system does not require any external power requirements or replacement components for normal operation.

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Maintenance

It is essential that the nVent ERICO SYSTEM 1000 Lightning Protection System be regularly maintained. Maintenance should be undertaken after each known strike to the nVent ERICO SYSTEM 1000 or at least once per year or if any changes or additions have been made to the structure.



Do not attempt maintenance during potential lightning activity.

Maintenance should be undertaken as follows:

1. Check that the building is the same physical shape and that no additional structures such as antennae, advertising signs, satellite dishes, building maintenance units or similar have been installed within 2 m (80 in.) height of the nVent ERICO SYSTEM 1000.
2. Inspect the nVent ERICO SYSTEM 1000 terminal to ensure that it is not dented or physically damaged in any way.
3. Inspect the finial tip on top of the nVent ERICO SYSTEM 1000 to ensure that it is not excessively burnt, deformed or missing.
4. Check that the mast is securely attached to the structure. Check that the guys are secure and undamaged. Replace if necessary. Check that all fastenings are secure and tight.
5. Look for signs of damage to the downconductor (whether by lightning, careless handling, vandalism or other causes).
6. Check that the Lightning Event Counter is secured and if the display is registering a reading, then record the reading and date.
7. Ensure the grounding resistance is less than 10 ohms.
8. Check the continuity of all bonding conductors.

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