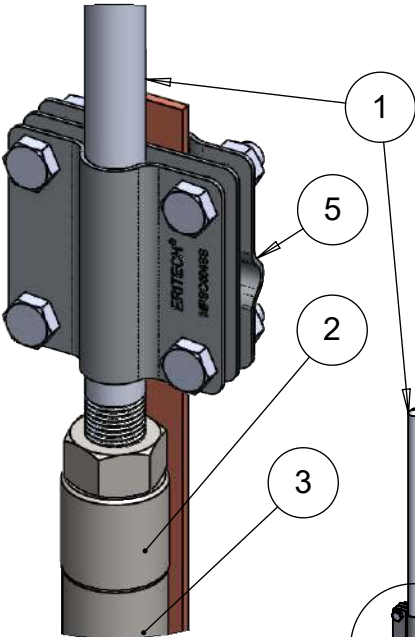


SIM Mast + Conventional AT Cantilevered 1.2 to 2.7 meters above building

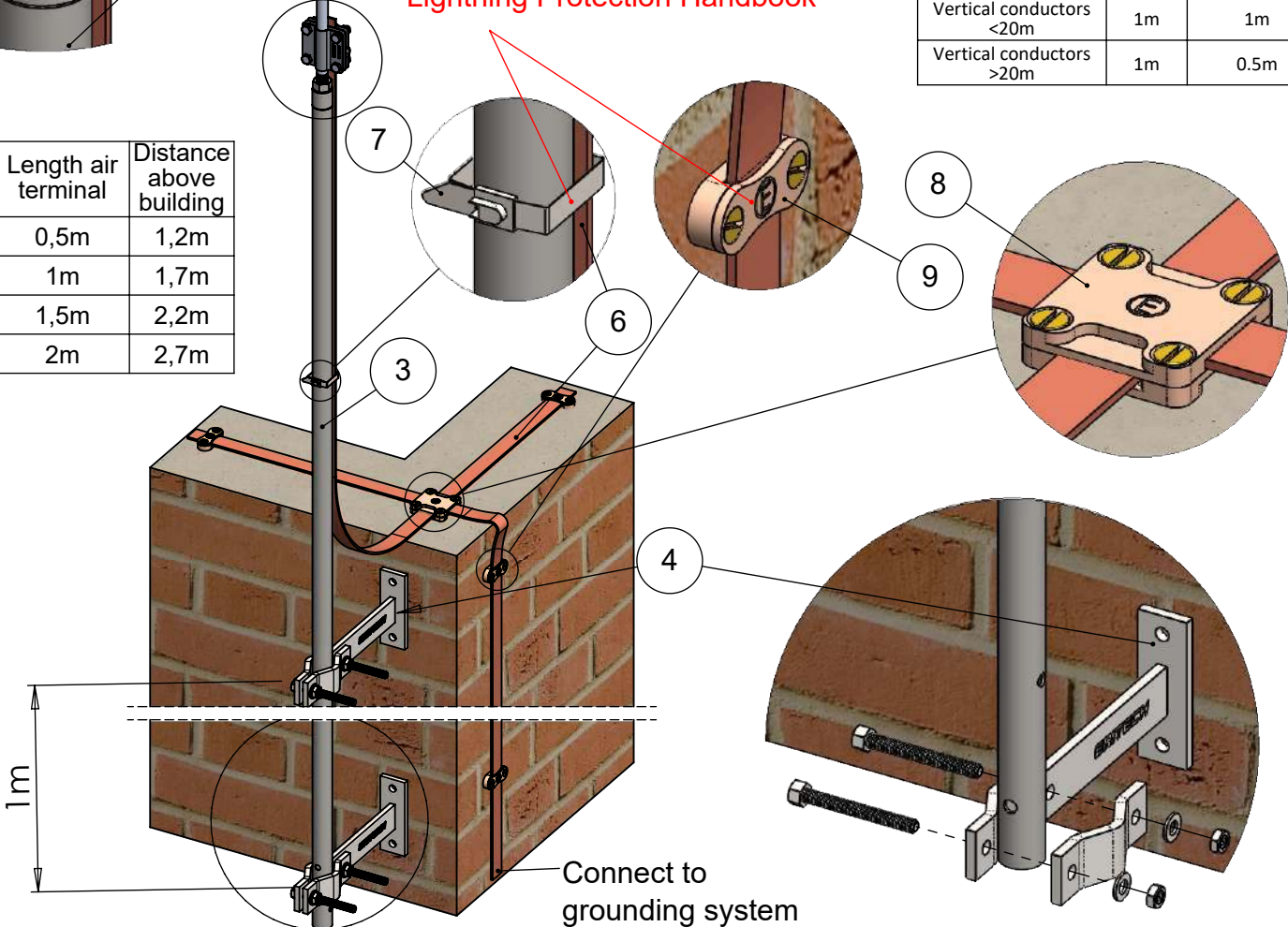


No.	PART No.	QTY.	DESCRIPTION
1	LPAAT/LPAAR/LPAT/LPSSAR/LPCAR	1	CONVENTIONAL M16 AIR TERMINAL
2	INTCPTM16AT	1	ADAPTER,MAST,TERMINAL,AIR
3	SIM28A2316	1	SIM STAINLESS STEEL MAST
4	ALOF1GS (702175)	2	MAST SUPPORT
5	MPSC404SS	1	MULTI-PURPOSE GROUNDING CLAMP
6	COPPER TAPE/CABLE		DOWN CONDUCTOR
7	CABTIESS (701420)	1	CABLE TIE FOR MAST
8	STC253		SQUARE TAPE CLAMP
9	DCC253	Table E.1	TAPE CLAMP

For fixings distances and terminal positioning, etc, see the general IEC 62305 instructions: nVent ERICO Lightning Protection Handbook

Table E.1 IEC 62305-3	Solid round	Tape or stranded cable
Roof Horizontal conductors	1m	1m
Horizontal conductors on wall	1m	0.5m
Vertical conductors <20m	1m	1m
Vertical conductors >20m	1m	0.5m

Length air terminal	Distance above building
0,5m	1,2m
1m	1,7m
1,5m	2,2m
2m	2,7m

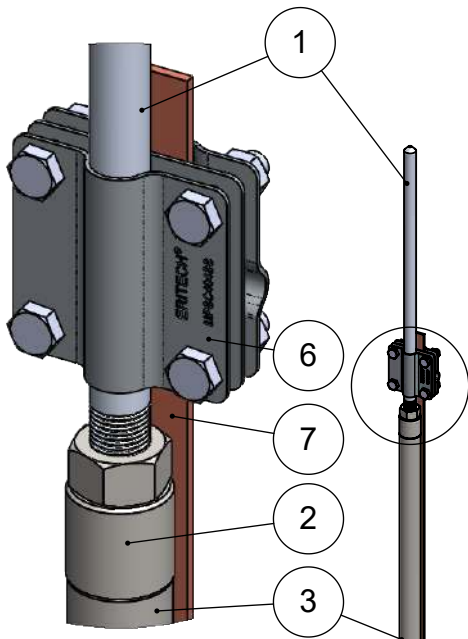


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 - nVent products must never be used for a purpose other than the purpose for which they were designed or in a manner that exceeds specified load ratings.
 - All instructions must be completely followed to ensure proper and safe installation and performance.
 - 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:
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Always use appropriate safety equipment such as eye protection, hard hat, and gloves as appropriate to the application.

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SIM Mast + Conventional AT Cantilevered 3.1 to 4.6 meters above building

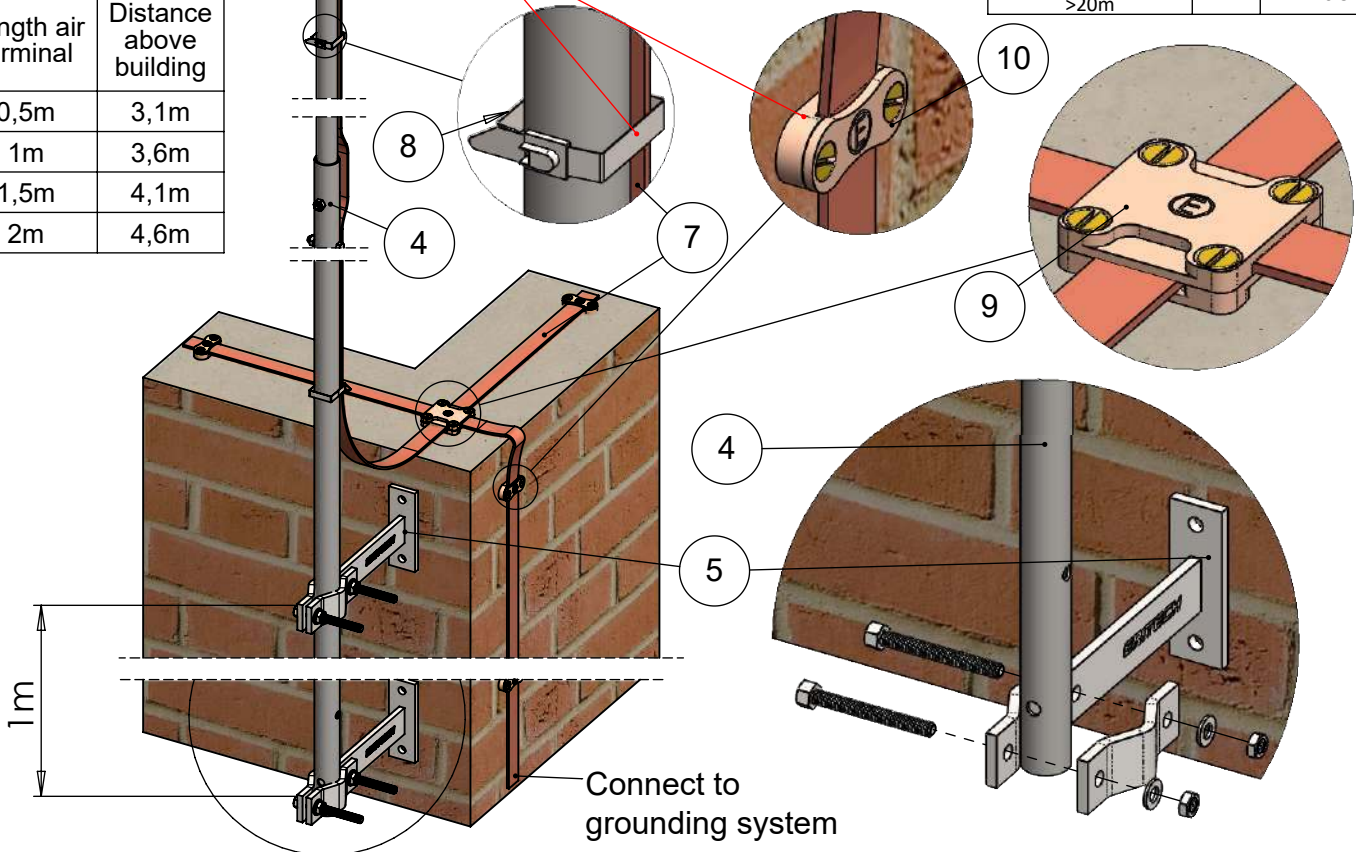


No.	PART No.	QTE	DESCRIPTION
1	LPAAT/LPAAR/LPAT/LPSSAR/LPCAR	1	CONVENTIONAL M16 AIR TERMINAL
2	INTCPTMI16AT	1	ADAPTER,MAST,TERMINAL,AIR
3	SIM28A2316	1	SIM STAINLESS STEEL MAST
4	SIM33B2316	1	SIM STAINLESS STEEL MAST
5	ALOF1GS (702175)	2	MAST SUPPORT
6	MPSC404SS	1	MULTI-PURPOSE GROUNDING CLAMP
7	COPPER TAPE/CABLE		DOWN CONDUCTOR
8	CABTISS (701420)	5	CABLE TIE FOR MAST
9	STC253		SQUARE TAPE CLAMP
10	DCC253	See table E.1	TAPE CLAMP

For fixings distances and terminal positioning, ...etc. See the general IEC 62305 instructions: nVent ERICO Lightning Protection Handbook

Table E.1 IEC 62305-3	Solid round	Tape or stranded cable
Roof Horizontal conductors	1m	1m
Horizontal conductors on wall	1m	0.5m
Vertical conductors <20m	1m	1m
Vertical conductors >20m	1m	0.5m

Length air terminal	Distance above building
0,5m	3,1m
1m	3,6m
1,5m	4,1m
2m	4,6m



WARNING:

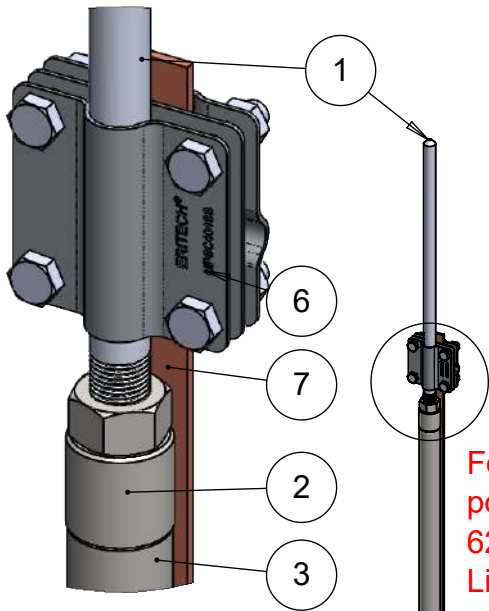
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SIM Mast + Conventional AT Cantilevered 4.1 to 5.6 meters above building

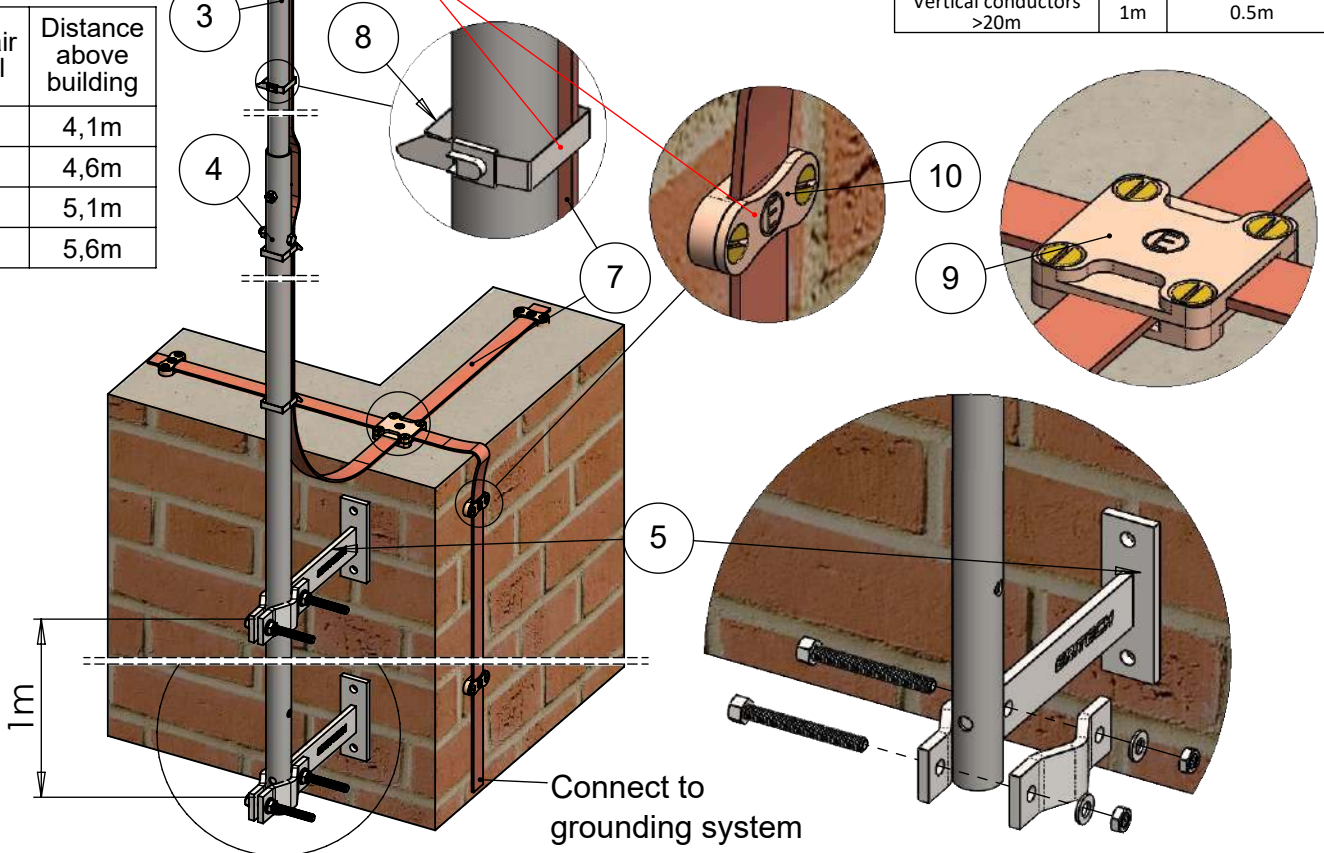


No.	PART No.	QTY.	DESCRIPTION
1	LPAAT/LPAAR/LPAT/LPSSAR/LPCAR	1	CONVENTIONAL M16 AIR TERMINAL
2	INTCPTM16AT	1	ADAPTER,MAST,TERMINAL,AIR
3	SIM28A2316	1	SIM STAINLESS STEEL MAST
4	SIM33B3316	1	SIM STAINLESS STEEL MAST
5	ALOF1GS (702175)	2	MAST SUPPORT
6	MPSC404SS	1	MULTI-PURPOSE GROUNDING CLAMP
7	COPPER TAPE/CABLE		DOWN CONDUCTOR
8	CABTISS (701420)	7	CABLE TIE FOR MAST
9	STC253		SQUARE TAPE CLAMP
10	DCC253	See table E.1	TAPE CLAMP

For fixings distances and terminal positioning, ...etc. See the general IEC 62305 instructions: nVent ERICO Lightning Protection Handbook

Table E.1 IEC 62305-3	Solid round	Tape or stranded cable
Roof Horizontal conductors	1m	1m
Horizontal conductors on wall	1m	0.5m
Vertical conductors <20m	1m	1m
Vertical conductors >20m	1m	0.5m

Length air terminal	Distance above building
0,5m	4,1m
1m	4,6m
1,5m	5,1m
2m	5,6m



WARNING:

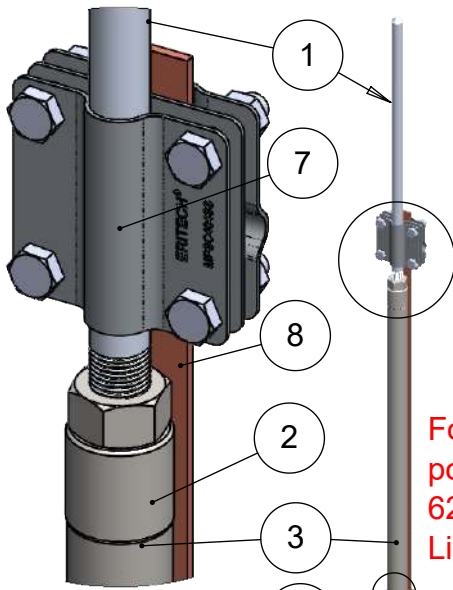
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SIM Mast + Conventional AT Cantilevered 4.8 to 6.3 meters above building

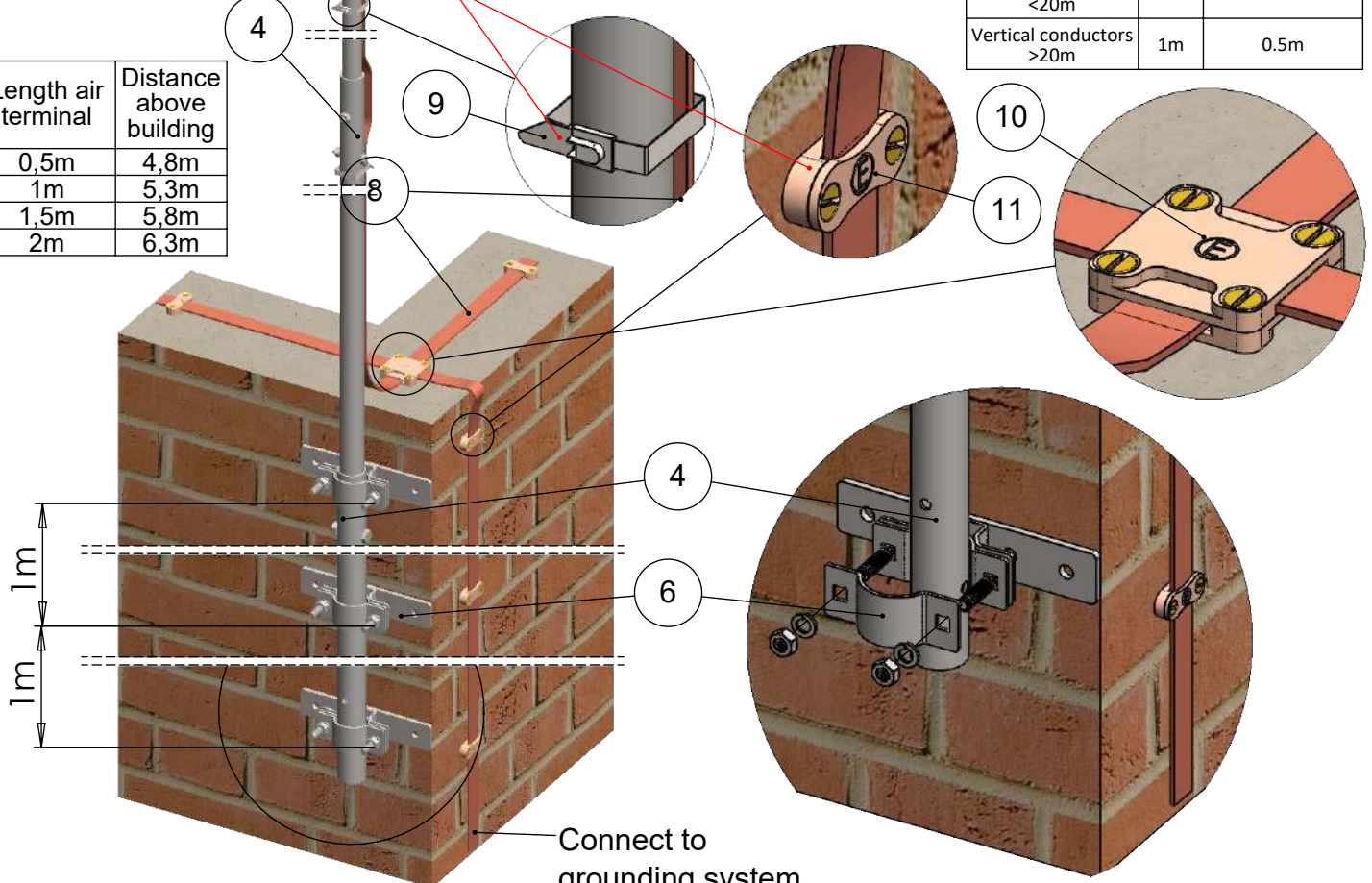


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1	LPAAT/LPAAR/LPAT/LPSSAR/LPCAR	1	CONVENTIONAL M16 AIR TERMINAL
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3	SIM28A2316	1	SIM STAINLESS STEEL MAST
4	SIM40C2316	1	SIM STAINLESS STEEL MAST
5	SIM33B3316	1	SIM STAINLESS STEEL MAST
6	ISONVBKT15_MKT	3	MAST SUPPORT
7	MPSC404SS	1	MULTI-PURPOSE GROUNDING CLAMP
8	COPPER TAPE/CABLE		DOWN CONDUCTOR
9	CABTISS (701420)	8	CABLE TIE FOR MAST
10	STC253		SQUARE TAPE CLAMP
11	DCC253	See table E.1	TAPE CLAMP

For fixings distances and terminal positioning, ...etc. See the general IEC 62305 instructions: nVent ERICO Lightning Protection Handbook

Table E.1 IEC 62305-3	Solid round	Tape or stranded cable
Roof Horizontal conductors	1m	1m
Horizontal conductors on wall	1m	0.5m
Vertical conductors <20m	1m	1m
Vertical conductors >20m	1m	0.5m

Length air terminal	Distance above building
0,5m	4,8m
1m	5,3m
1,5m	5,8m
2m	6,3m



WARNING:

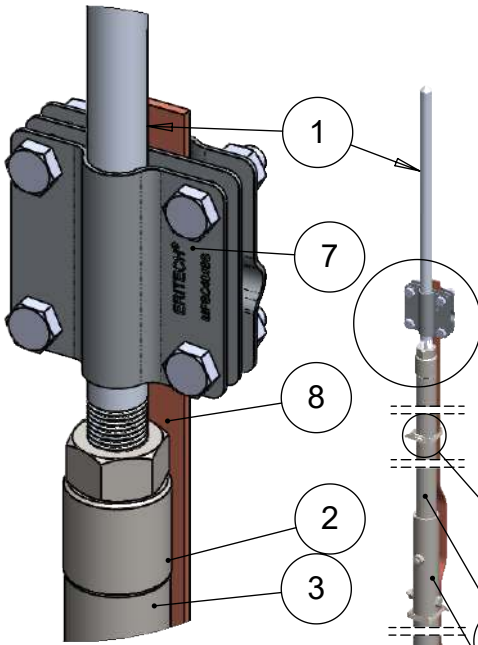
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SIM Mast + Conventional AT Cantilevered 5.8 to 7.3 meters above building

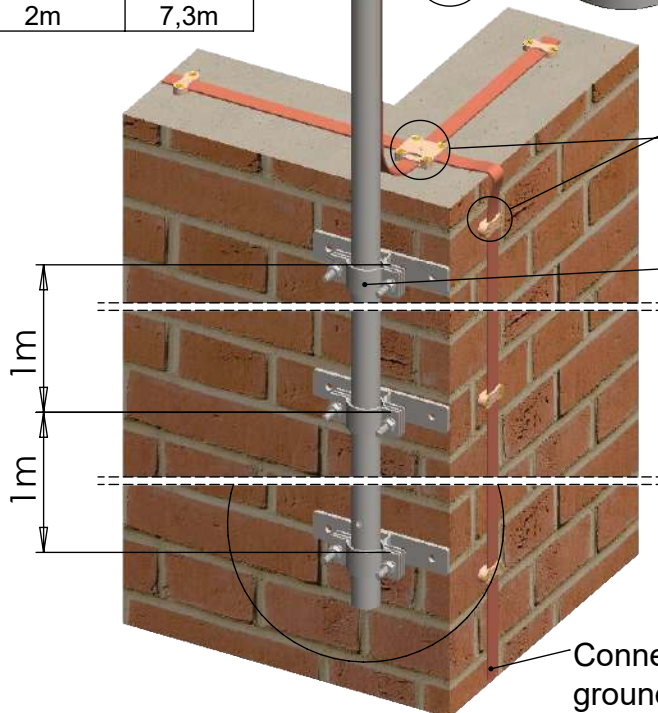


No.	PART No.	QTY.	DESCRIPTION
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Table E.1 IEC 62305-3	Solid round	Tape or stranded cable
Roof Horizontal conductors	1m	1m
Horizontal conductors on wall	1m	0.5m
Vertical conductors <20m	1m	1m
Vertical conductors >20m	1m	0.5m

Length air terminal	Distance above building
0,5m	5,8m
1m	6,3m
1,5m	6,8m
2m	7,3m



Connect to grounding system

WARNING:

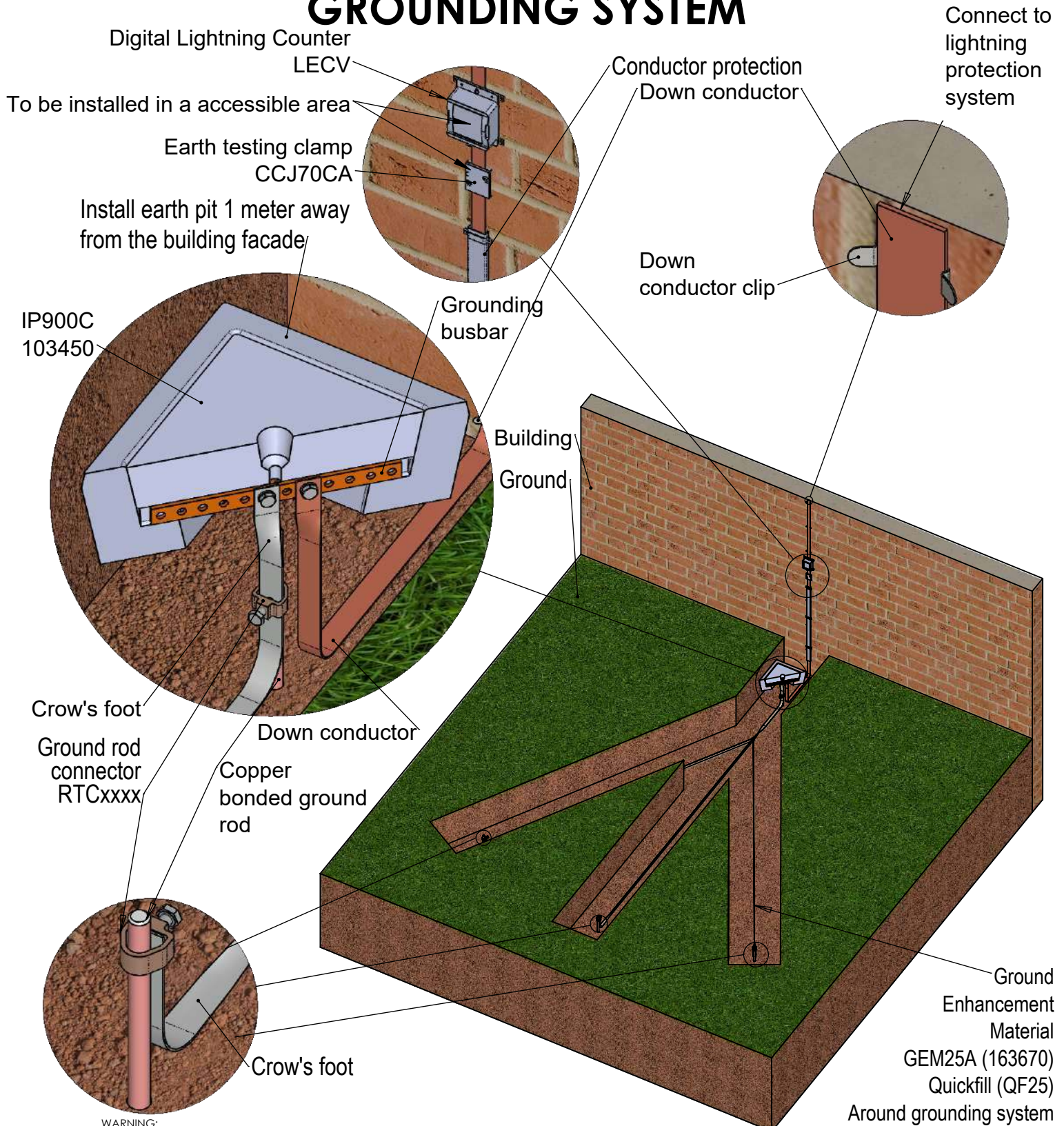
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GROUNDING SYSTEM



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SIM + Conventional Cantilevered parts and accessories

LIGHTNING SYSTEM

CONVENTIONAL M16 AIR TERMINAL

- LPAAT (ALUMINIUM)
- LPSAT (SS 304)
- LPAAR (ALUMINIUM)
- LPCAR (COPPER)
- LPSSAAR (SS304)



ADAPTATOR M16 TO SIM MAST

- INTCPTMI16AT



SIM STAINLESS STEEL MAST

- SIM28A2316 or SIM28A2
- SIM33B2316 or SIM33B2
- SIM33B3316 or SIM33B3
- SIM40C2316 or SIM40C2
- SIM40C3316 or SIM40C3



MULTI-PURPOSE CLAMP

- MPSC404SS (120319)



MAST SUPPORT

- ALOF1GS (702175)
- ACF2GS (103100)
- FIXED OFFSET



CABLE TIE

- CABTISS (701420)



CONDUCTORS

- TAPE
- ROUND SOLID CONDUCTOR
- STRANDED CONDUCTOR

Copper, Tinned copper and Aluminium



FASTENERS



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)



EARTH TESTING CLAMP

- CCJ70CA (102700)



CONDUCTOR PROTECTORS



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SIM + Conventional Cantilivered Installation Guidelines

This manual is a guide to the installation, operation and maintenance of the nVent ERICO SYSTEM 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.
- LPSD - 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 2000, please refer to nVent's technical notes and the EIC 62305 standard. 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 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 base adapter.
6. Raise the mast into position and secure the base adapter.
7. 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.

Maintenance and inspection of an LPS

It is essential that the nVent ERICO SYSTEM 2000 Lightning Protection System be regularly maintained. Maintenance should be undertaken after each known strike to the nVent ERICO SYSTEM 2000 or at least once per year or if any changes or additions have been made to the structure.

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Do not attempt maintenance during potential lightning activity.

Maintenance should be undertaken as follows:

1. General

The effectiveness of any LPS depends on its installation, maintenance, and testing methods used.

2. Application of inspections

The objective of the inspections is to ascertain that

- a) the LPS conforms to the design based on this standard,
- b) all components of the LPS are in good condition and capable of performing their designed functions, and that there is no corrosion,
- c) any recently added services or constructions are incorporated into the LPS.

3. Order of inspections

Inspections should be made as follows:

- during the construction of the structure, in order to check the embedded electrodes;
- after the installation of the LPS;
- periodically at such intervals as determined with regard to the nature of the structure to be protected, i.e. corrosion problems and the class of LPS..
- after alterations or repairs, or when it is known that the structure has been struck by lightning.

During the periodic inspection, it is particularly important to check the following:

- deterioration and corrosion of air-termination elements, conductors and connections;
- corrosion of earth electrodes;
- earthing resistance value for the earth-termination system;
- condition of connections, equipotential bonding and fixings.

WARNING

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