



STORMSHIELD



GUIDE

STORMSHIELD NETWORK SECURITY

SAFETY RULES AND INSTALLATION PRECAUTIONS - SNI20, SNI40 AND SNI50

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Getting started

Welcome to the document on the safety rules and installation precautions for SNI20, SNI40 and SNI50 firewalls.

Before installing anything, carefully read and comply with the safety instructions in this document.



Safety rules

Before plugging in any devices:

- Ensure that your Stormshield product and its accessories are not damaged.
- Ensure that the electrical characteristics of your product indicated on the product label are compatible with those of your power supply network.
- The chassis of your product must be connected to a protective earth circuit, using rated minimum 16 AWG or 1 mm² wire. Ensure that the connection is permanent and reliable, and that the protective earth circuit of your installation complies with safety standards in force.
- Before installing or removing your product, ensure that it has been turned off, and that all power supply connections have been removed.
- Ensure that you comply with the instructions and warnings found in the current standards (IEC, NEC, ANSI/NFPA 70 and CEC, Part I, C22.1) for all relevant field wiring instructions and cautions. These connections have to be handled by a qualified electrician.
- Your product must be connected to the DC mains supply with an approved switch or breaker and easily accessible.
- Only wires rated minimum 16AWG or 1 mm² must be used to connect your product to the DC mains supply.

! IMPORTANT

To the attention of maintenance teams

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

! IMPORTANT

Never dismantle your SNS appliance, as doing so may cause hardware accidents and/or bodily harm. The appliance must only be opened for maintenance operations, and only by qualified technicians from an approved Stormshield maintenance center. **A seal label protects all Stormshield firewalls from being opened. Once this label is torn, the warranty will be void.**

! IMPORTANT

Copper Ethernet cables connected to your SNS firewall must not be connected to other appliances located in other buildings.



Installation precautions

Precautions on firewall installation

Do not install and/or use your SNS firewall close to an area where inflammable objects are stored or used. Your SNS firewall is intended for indoor use in an industrial environment (see product specifications in the [SNS range presentation guide](#)), away from areas that may receive rainfall, or which are prone to floods or excessive humidity. It must be installed away from sources of shocks, vibrations, and dust, in an environment where the temperature complies with the product's specifications. In particular, avoid direct exposure to sunlight. Always ensure that there is adequate space around the appliance to guarantee free air flow, thereby preventing the possibility of overheating.

Follow the product installation instructions.

Only use the installation kit supplied with the product

Do not place any objects on your SNS firewall.

! IMPORTANT

This firewall has been tested and complies with the limits defined for Class A digital devices, in line with section 15 of the FCC regulation, and with the European EN50022 standard. This firewall generates, uses and may emit radioelectric waves that may cause harmful interference to radio communications if not installed and used according to the instructions in the manual. The purpose of these applicable limits is to provide reasonable protection from harmful interference that may arise when the appliance is used in a commercial environment. In residential environments, the SNS firewall may cause radioelectric interference, which the user may be required to resolve at their own expense.

Precautions for assembly in a cabinet

- Elevated Operating Ambient - If installed in a closed or multi-unit cabinet assembly, the operating ambient temperature inside the cabinet may be higher than the ambient room temperature. As such, ensure that the the maximum ambient temperature in the cabinet does not exceed vendor specifications.
- Reduced air flow - Installation of the firewall in a cabinet should be such that the amount of air flow required for safe operation of the product is not compromised.
- Mechanical loading - The firewall should be mounted in a cabinet in such a way that uneven mechanical loading does not present a hazard.
- Circuit overloading - Consideration should be given to the connection of the firewall to the supply circuit, and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. In particular, the product nameplate ratings should be taken into account.
- Reliable Earthing - Reliable earthing of cabinet-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of terminal blocks)



Connecting the network

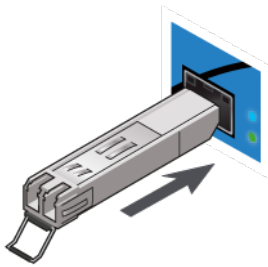
Routing copper data cables

Keep data cables some distance away from any source of electromagnetic interference such as mains cables, radio transmitters, fluorescent tubes, etc.

i NOTE

Ensure that the cables do not obstruct passageways to prevent them from being pulled out or the firewall from falling.

Connecting Ethernet fiber



Use approved SFP transceivers for Stormshield firewalls, for 1GbE data transfers, or SFP+ for 10GbE (SNI50 only).

i NOTE

The optic fiber has to be equipped with LC connectors.

! IMPORTANT

The transceiver and the optic fiber are equipped with a connector plug. When you plug this optic fiber into the transceiver, remove the connector plugs and keep them away from dust for later use.

! IMPORTANT

Do not exceed the bending radius indicated in your optic fiber specifications.





Regulations

Recycling



Directive on the disposal of electric and electronic devices (DEEE)
For further information on the SNS firewall recycling program, go to:
<https://www.stormshield.com/about-us/csr/>



RoHS directive

For further information on RoHS compliance, go to: <https://www.stormshield.com/about-us/csr/>.

Common criteria



For further information on Common Criteria compliance, go to:
<https://documentation.stormshield.eu/common-criteria>.

Certifications



Part 15 Subpart B



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