

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Fire Protective Systems for Cables**with type designation(s)
Fire Stop System A-119N

Issued to

Daemmstoff Industrie Korea Ltd.
Busan, Republic of Korea

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft
Det Norske Veritas' interpretation of SOLAS 1974 Convention as amended
IEC 60332-3-22 (2009-02)**Application :****Approved for use as an ablative fire protective covering to prevent propagation of fire on electrical cables.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2019-04-17**This Certificate is valid until **2024-03-21**.DNV GL local station: **Busan Station**for **DNV GL**Approval Engineer: **Ivar Bull**

Trond Sjøvåg
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Ablative fire protective covering used to prevent propagation of fire on electrical cables.

Fire Stop System A119N is a non combustible glass fibre mat coated at both sides with thin glass cloth and additional at one side coated with an Aluminium foil.

Minimum length of fire stop: 500 mm

Fire stop mat size: 500mm x 500mm.
500mm x 1000mm.

Application/Limitation

The cable or the bunched cables to be covered with fire stop mats on all sides. Fire stop mats shall not be wrapped around cable ladders/cable trays, but be tightly wound around cable/cable bunch itself without leaving any openings which can spread fire.

Mats to be kept in place by use of metallic cable ties.

Minimum requirements for installation in open cable runs or enclosed/semi-enclosed spaces:

- cable runs to be coated at least 0,5 metre in every 14 metres for horizontal runs
- cable runs to be coated at least 0,5 metre in every 6 metres of vertical runs.

This approval is valid only for Fire stop system installed according to Daemmstoff Industrie Korea LTD installation instructions.

Type Approval documentation

Tests carried out

Marking of product

The product or packing is to be marked with name of manufacturer and type designation.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT shall be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE