



European notified body
Identification number 0736



DGUV Test

Prüf- und Zertifizierungsstelle

BG Verkehr

Dienststelle Schiffssicherheit

EC-Type Examination (Module B) Certificate

Certificate No. **118.333**

Name and address of the manufacturer: **AEROFLEX Europe GmbH**
Im Lehrer Feld 30
89081 Ulm (Germany)

Date of issue: **23.09.2013**

Annex A.1 Item No & Item designation: **A.1/3.18 d – Surface materials and floor coverings with low flame-spread characteristics (pipe insulation covers)**

Product designation: Surface material with low flame-spread characteristics

Product Type: **AEROFLEX FIRO**

Intended purpose: Surface material for sea going vessels complying with SOLAS 74/88 Reg. II-2/3, II-2/5, II-2/6 and II-2/9, as amended, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7, IMO Resolution MSC.97(73)-(2000 HSC-Code) 7, IMO MSC/Circ. 1120.

Testing based on (Specific standard): IMO Resolution MSC.61(67)-(FTP-Code) Annex 1, Part 2* and Part 5, Annex 2
IMO MSC/Circ. 1120, ISO 1716 (2002)*

*) = not applicable

Remarks: see overleaf

The type tested was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 96/98/EC as amended by Directive 2011/75/EU subject to any conditions in the schedule (part of this certificate).

This certificate may only be used in connection with module(s) **D, E or F** of this directive.

Expiry date: **22.09.2018**



Signature (Hackl)

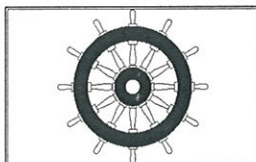


Installed equipment stays approved beyond the validity date until it is revoked!

Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.

Note 2: Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply.

Note 3: The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.



xxxx/yy

Note 4: "Wheelmark" Format

YY Last two digits of year mark affixed.

XXXX Notified Body number undertaking surveillance module

Technical data / approved drawings and additional conditions and remarks:

1.

This EC-Type Examination Certificate is based on the following documents:

- Test Report No. 2009-1832-2 and 2009-1986-2 of the "Exova Brandhaus", 65926 Frankfurt (DE), dated 08.01.2010.
- Letter of the company AEROFLEX Europe GmbH (Dipl.- Ing. R. Baumann) dated 08.10.2012.
- Letter of the company AEROFLEX Europe GmbH (Dipl.- Ing. N. Ebinger) dated 18.09.2013.

2.

The material is considered to comply with the requirements of the FTP-Code, Annex 1, Part 2 (smoke and toxicity test) without further testing.

3.

Thickness of the non-laminated insulating plates and insulating hoses: 6 mm - 25 mm

4.

Density of the non-laminated insulating plates and insulating hoses: 68 kg/m³ (6 mm) - 54 kg/m³ (25 mm)

5.

Colour: Black

6.

For the gluing of the insulating plates and insulating hoses only "AEROSEAL FIRO" (quantity of wet application: 300 g/m²) has to be used.

7.

The product "AEROFLEX FIRO" may also be distributed with following type designation:
- AEROFLEX FIRO MSR

8.

The product "AEROFLEX FIRO" may also be distributed with following trademarks:

"online"

Distributor: Onninen Oy (FIN)

"intratec"

Distributor: intratec Fachhandelsgruppe Technische Isolierung (DE)

9.

The material installed on board ships shall comply in every respect with the material which has been tested.

10.

The equipment shall be marked in accordance with Article 11 of the Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended.

11.

This EC-Type Examination Certificate may only be published or transmitted unabridged.