



BG Verkehr
 Ship Safety Division
 Prüf- und Zertifizierungsstelle
 im BG-PRÜFZERT
 European notified body
 Identification number 0736

Deutsche Gesetzliche
 Unfallversicherung



EC-Type Examination (Module B) Certificate

Certificate No. **222.019**

Name and address of the manufacturer: **ELAFLEX - Gummi Ehlers GmbH
 Schnackenburgallee 121
 22525 Hamburg (Germany)**

Date of issue: **04.05.2010**

Annex A.1 Item No & Item designation: **A.1/3.15 a – Materials other than steel for pipes conveying oil and fuel oil (pipes and fittings)**

Product designation: **Expansion joints**

Product Type: **ELAFLEX - Expansion joint type ERV - GS,
 nominal diameter 25 mm up to 600 mm**

Intended purpose: **Expansion joint according to SOLAS 74/88 Reg. II-2/4, as amended,
 IMO-Resolution MSC.36(63)-(HSC-Code 1994) 7, 10, IMO-Resolution
 MSC.97(73)-(HSC-Code 2000) 7, 10 and IMO MSC/Circ. 1120.**

Testing based on (Specific standard): **IMO-Resolution A.753 (18)*
 ISO 15540 (1999) incl. Corrigendum 1 (1999)
 ISO 15541 (1999)
 *) = 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 2009/26/EC 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: **31.05.2015**

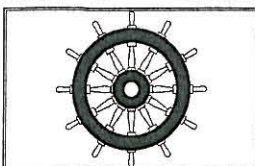


The approval of the installed equipment will be in force beyond the validity date until it is revoked!

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 following documents:
 - Test Certificates Flame-Tests No. 51514 (measuring tape No. 50/05, 51/05, 54/05 and 56/05) of the "Wehrtechnischen Dienststelle für Schiffe und Marinewaffen", 24340 Eckernförde (D), dated 02.11.2005.
 - Test Report No. IBB 472 of the "Dr.- Ing. T. Bäumer GmbH", 32052 Herford (D), dated 27.08.2009.
 - Letter of the company ELAFLEX - Gummi Ehlers GmbH (Mr. C. Tonn) dated 02.03.2010.
2.
The terms of the Test Report and Test Certificates are part of this EC-Type Examination Certificate.
3.
As flanges has to be used:
Stainless steel, carbon steel, zinc plated, chromated or hot-galvanized.
4.
Application:
Mediums: Cooling water with oily anticorrosion additives, lubrication oil, seawater, diesel.
Operating pressure range: 10 bar
5.
Alteration in design and construction of the expansion joints have to be approved by the Ship Safety Division.
6.
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.
7.
This EC-Type Examination Certificate replaces the old EC-Type Examination Certificate, issued on 11.02.2009 with a running time up to 28.02.2014.
8.
This EC-Type Examination Certificate may only be published or transmitted unabridged.



European notified body
Identification number 0736



DGUV Test

Prüf- und Zertifizierungsstelle
BG Verkehr
Dienststelle Schiffssicherheit

1. Supplement to EC-Type Examination Certificate

Certificate-No. 222.019

dated 04.05.2010

Product designation: Expansion joints

Item designation: **A.1/3.15 a - Materials other than steel for pipes conveying oil and fuel oil (pipes and fittings)**

Type: **ELAFLEX - Expansion joint type ERV - GS, nominal diameter 25 mm up to 600 mm**

Manufacturer: ELAFLEX - Gummi Ehlers GmbH
Schnackenburgallee 121
22525 Hamburg (Germany)

Reference: Assessment (comparison of materials) of the company ContiTech Luftfeder-systeme GmbH (Mr. J. Wicke) dated 16.03.2011.

Alteration/Addition: ELAFLEX - Expansion joint type ERV - GS (nominal diameter 25 mm up to 600 mm) may be manufactured and distributed also with modified interior rubber under following type designation:

ELAFLEX - Expansion joint type ERV - GS HNBR (nominal diameter 25 mm up to 600 mm)


The approved type with the above certificate number may be further manufactured and sold with the alterations/additions stated above.

The other regulations of the EC-Type Examination Certificate are not affected by this supplement.

This Supplement to EC-Type Examination Certificate will be expired on: **31.05.2015**

Hamburg, 15 04.2011




Signature (Bork)