DNV·GL

Certificate No:
MEDB000009T

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the "A" Class divisions, fire integrity

with type designation(s)
Fyrewrap Dura Marine Blanket

Issued to
Unifrax(Suzhou) Co., Ltd.
Suzhou, China

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.11a and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/3.2.5 and IMO 2010 FTP Code.

Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2015-10-02
for **DNV GL AS**

This Certificate is valid until
2020-10-01

Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Shanghai CMC

Piotr Orzechowski
Surveyor

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Job Id: **344.1-004929-1**
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Product description

"Fyrewrap Dura Marine Blanket"
Composed of a steel bulkhead insulated on stiffened side with one layer of 55 mm Fyrewrap-D type Fyrewrap Dura marine blanket produced by Unifrax(Suzhou) Co., Ltd with density 96 kg/m^3 between the stiffeners. The stiffeners are fitted with one additional layer of 25 mm thick insulation of the same type as above. The bulkhead insulation is fixed by steel pins and spring washers (approx. 22 set/m^2).

For further details, including pinning details, see drawing listed under Type Examination documentation below.

Application/Limitation

Approved for use as a vertical fire retarding division of class A-60.
Restricted application: Fire against either side.

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Test Report No. FT14060 dated 19 March 2014 from Far East Fire Testing Centre (FEFTC), Shanghai.

Drawing No. FP-14002 from Unifrax(Suzhou) Co., Ltd.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG approval number if applicable (see below).

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

USCG Approval

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.