

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. 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)  
**A-60 Class Bulkhead (either side)-1**

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.

This Certificate is valid until **2021-08-23**.

Issued at **Høvik** on **2016-08-24**

DNV GL local station:  
**Shanghai CMC**



for **DNV GL AS**

Approval Engineer:  
**Helge Bjørnarå**

Notified Body  
No.: **0575**

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**Vidar Dolonen**  
**Head of Notified Body**

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.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: **344.1-005460-1**  
Certificate No: **MEDB000011W**

## Product description

"A-60 Class Bulkhead (either side)-1"

is composed of a structural steel bulkhead insulated with 55 mm thick "FyreWrap® Marine Blanket" mineral wool with nominal density of 64 kg/m<sup>3</sup> manufactured by Unifrax (Suzhou) Co., Ltd. between/in stiffeners and 25 mm thick the same insulation around the stiffeners.

The insulation is fixed to the bulkhead by means of steel pins ø 3 mm welded to the bulkhead and steel washers ø 38 mm.

Pins are to be installed with rectangular pattern and nominal spacing of 315 x 218 mm between pins located between stiffeners. Maximum spacing between pins located around the stiffener is 315 x 164 mm and the maximum distance between joint (blankets edges) and the pins is 50 mm.

For further details, see test report and drawing listed under Type Examination documentation below.

## Application/Limitation

Approved for use as a vertical fire retarding division of class A-60.

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

Fire test report No. FT 16183 dated 26<sup>th</sup> May 2016, from Far East Fire Testing Centre, China  
Drawing from the manufacturer No. FP-14003 - Edition A

## Tests carried out

Tested according to IMO 2010 FTP Code part 3.

## Marking of product

The product or packing 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 first page).