

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the "A" Class divisions, fire integrity

with type designation(s)
LYG Type Class A-60 Fire Bulkhead

Issued to

Langfang The Great Wall Ship Glass Belt Co., Ltd.
Langfang, Hebei, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434

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

This Certificate is valid until **2024-01-14**.

Issued at **Hamburg** on **2019-01-15**

DNV GL local station:
Tianjin

Approval Engineer:
Timo Linn



Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudzus
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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.

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 Directive 2014/90/EU. This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. 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.



Product description

"LYG Type Class A-60 Fire Bulkhead"

Composed of a structural steel bulkhead insulated on stiffened side with 2 layers of 20 mm thick aluminum silicate wool plates (totally 40 mm thick) with a nominal density of 160kg/m³ wrapped and glued with a fiberglass fabric of 0.15mm in thickness from the outside of the plate.

Insulation Material

Aluminum silicate wool plate type Marine LYG: produced by Hebei Guomei New-type Building Materials Co., Ltd.

Fibreglass fabric type CCB-20: produced by Langfang the Great Wall Ship Class Belt Co.,Ltd

Adhesive:

Flame retardant white glue: JN-2 type, provided by Jingjiang Special Adhesive Co., Ltd.

The insulation is fastened with ø 3 mm steel pins and ø 30 mm steel washers. The minimum no. of pins are 28 sets/m². Maximum distance between pins are 300 mm horizontally and 300 mm vertically. Maximum distance from horizontal joint to nearest pin is 100 mm.

See test report mentioned under Type Approval documentation below for further details.

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 and maintenance.

Type Examination documentation

Test report no. FT18100 dated 2018-05-29 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Tests carried out

Tested according IMO Res.307(88) – 2010 FTP Code, Annex 1, Part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).