

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)
CLP-AL3

Issued to

Jiangyin Dongrui Decoration Materials Co., Ltd
Jiangyin, JIANGSU, 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 **2024-07-14**.

Issued at **Hamburg** on **2019-07-15**

DNV GL local station:
Jiangyin

Approval Engineer:
Karolina Kusmider



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"CLP-AL3"

is a class A-30 lightweight structural bulkhead. Bulkhead is composed of 25 mm thick bulkhead panel, air gap and 25 mm thick bulkead panel.

Total thickness: 75 mm

Each panel is composed from the exposed side, of 0.6 mm thick galvanized steel plate, 23mm thick rock wool plate of 120 kg/ m³ nominal density (manufactured by Tianchang Kangmeida New Insulation Materials Co., Ltd) and 0.6 mm thick galvanized steel plate. Insulation material inside the panel is fixed by the adhesive.

Each panel is composed from the unexposed side, of 0.6 mm thick galvanized steel plate, 23mm thick rock wool plate of 120 kg/ m³ nominal density (manufactured by Tianchang Kangmeida New Insulation Materials Co., Ltd) and 0.6 mm thick galvanized steel plate. Insulation material inside the panel is fixed by the adhesive.

After one layer of bulkhead panel was fixed, square tube of L25 mm x 25 mm x 1.2 mm was fixed at the perimeter of the bulkead panel, and then another bulkhead panel was installed and was fastened by angle steel of L30 mm x 30 mm x 3 mm.

The panels are connected to each other by means of 22 mm long wedged joints.

For further details see test report mentioned under "Type Examination documentation" below.

Application/Limitation

Approved for use as a vertical fire retarding division of class A-30.

Maximum panel dimensions: 2460 mm x 600 mm (H x W).

"Light-weight constructions" of steel or equivalent material may be used as non-load-bearing internal "A" class division in accommodation and service spaces. These "light-weight constructions" should not be used as an integral part of main fire zone bulkheads and stairway enclosures on passenger ships. (MSC/Circ. 1120, Part A, Reg. 3.2.1 and 3.2.2)

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. FT17297 dated 25 December 2017 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing. No. 17DR-AL3-T1-1, dated 2017-10-02 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.

Drawing. No. 17DR-AL3-T1-2, dated 2017-10-02 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.

Drawing. No. 17DR-AL3-T1, dated 2017-10-02 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.

Drawing. No. 17DR-AL3-T2, dated 2017-10-02 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.



Job Id: **344.1-008500-1**
Certificate No: **MEDB00004E3**

Tests carried out

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

Marking of product

The product 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).