

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 "B" Class divisions, fire integrity

with type designation(s)
CLP-C3 class B-15 ceiling

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/3.11b. SOLAS 74 as amended, Regulation II-2.3.4 & II-2/9 and IMO 2010 FTP Code

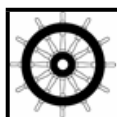
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-06-12**.

Issued at **Hamburg** on **2019-06-13**

DNV GL local station:
Jiangyin

Approval Engineer:
Roland Priebe



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-C3 class B-15 ceiling"

is a class B-15 ceiling with sound-absorbing properties. The ceiling panels were 25 mm thick compound rock wool plates with a max. width of 600 mm and are wedge jointed.

Construction:

The ceiling panels are mounted in a frame of angle steel of L63 mm x 63 mm x 6 mm. The frame is welded to the stiffeners of an A class deck structural core so that an air gap of 530 mm is between the ceiling and the A class deck structural core.

The 25 mm ceiling panels are composed of 0.5 mm thick 304 stainless steel plate + rock wool + 0.5 mm thick 304 stainless steel plate, and the stainless steel plate at one side was drilled with sound absorbing holes of 3 mm in diameter. Adhesive was used in between the stainless steel plate and rock wool for bonding.

Materials:

The insulation material used is rock wool produced by Tianchang Kangmeida New Insulation Material Co., Ltd. It has a nominal density of 120 kg/m³ and ≤3% nominal organic content.

The adhesive used is a PAPU-30 type polyurethane adhesive produced by Jingjiang Green Functional Material Co., Ltd.

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

Application/Limitation

Approved for use as a horizontal fire retarding division of class B-15.

Maximum ceiling panel size: 2400 mm long x 600 mm wide x 25 mm thick.

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.

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover strength or other evaluations related to watertightness, weathertightness, sound-absorbing, etc.).

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

Type Examination documentation

Test report no. FT18158 dated 2018-08-23 issued by Far East Fire Testing Centre, Shanghai, China.

Drawing No. 18DR-C3-T0 to T4 "B-15 Class Sound-Absorbing Ceiling Panel" from the manufacturer.

Tests carried out

Tested according to IMO Res. MSC.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 page 1).