

# 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)  
**B15 ceiling panels - Weiss Hellas**

Issued to  
**KAEFER Schiffsausbau GmbH**  
**Bremen, Germany**

is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2015/559**,  
**Annex A.1, item No. A.1/3.11b and Annex B, Module B in the Directive; SOLAS 74 as amended,**  
**Regulation II-2/3.4.4 and IMO 2010 FTP Code**

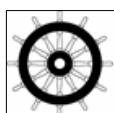
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-02-09**.

Issued at **Hamburg** on **2017-02-10**

DNV GL local station:  
**Bremerhaven**

Approval Engineer:  
**John Alan Walton**



Notified Body  
No.: **0098**

for **DNV GL SE**

**Sven Dudszus**  
**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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

The B15 ceiling – “Weiss Hellas”

Consists of panels of 50mm thick semi-rigid rock wool slab, the top and bottom surfaces of which are covered with 0.6mm thick steel sheet. The rock wool slab is bonded to the steel sheet with an adhesive of approved type.

The longitudinal edges of each panel are stepped and thus are interlocked with the adjoining panel. These joins are bonded with the adhesive.

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

## Application/Limitation

Approved for use as a horizontal fire retarding division of Class B-15. The ceiling mounted below and in combination with a steel structural deck may be regarded as a Class A-30 horizontal division. The air gap is not to be less than 300mm.

Maximum panel length 3045mm

Maximum panel width 600mm

Maximum ceiling size 3045 x 2445 mm (L x W)

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.

Insulation: Sea Rox SL 620 semi rigid stone wool slab 50 mm nominal thickness and 130 Kg/m<sup>3</sup> density manufactured by Rock Wool.

Adhesive: SIKAFORCE 7110 L55 manufactured by Sika Deutschland GmbH

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

## Type Examination documentation

Test Report No.20151413 dated 2016-04-19 issued by Fire Test Laboratory- MPA Dresden, Germany.  
Manufacturer's Drawing No. BV15KI3AF069 Rev.0 dated 29.10.2015

## 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 the manufacturer, type designation, fire rating, Mark of Conformity and USCG number.