

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment (MED) as amended by directive (EU) 2015/559. This Certificate is issued by DNV GL SE based on the notification of the German Federal Ministry of Transport, Building and Urban Development.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)

Class B-15 ceiling panels with recess box

Issued to

Wenker GmbH & Co. KG
Ahaus, Germany

is found to comply with the requirements in the following Regulations/Standards:

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.

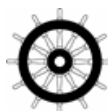
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-08-11**.

Issued at **Hamburg** on **2016-08-12**

DNV GL local station:
Essen

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 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 SE 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.

Product description

“Class B-15 ceiling panels”

B-Class ceiling (cabin ceiling) mounted with a recess box and tested together with an A-Class steel deck. Ceiling panels consisting of 39 mm mineral wool Conrock 15 (density: 150 kg/m³) covered with 0.6 mm steel sheets on exposed side and 0.6 mm galvanized steel sheets on unexposed side. The panels are joined to each other with tongue and groove and secured by screws. The mineral wool is fixed to the steel sheets with adhesive of approved type; acc.to manufacturer's drawings. BVD_04_002_00 02/03, (test report: PG 12017).

“recess box”:

One of the 600 mm wide ceiling panels was manufactured with an opening of 338 x 953 mm (width x length). This panel was mounted along the mounting frame edge with the opening towards the mounting frame. The opening was mounted with a recess box, manufactured from 1.5 mm galv. steel sheet. The recess box was fixed to the exposed side of the ceiling panel with 4.2 x 16 mm screws. The recess box was covered with a 1200 x 600 x 40 mm Isover Ultimate U MPV 90 slab on the unexposed side. The insulation was fixed to the recess box with 0.3 mm steel pins welded to the top of the box and steel washers.

On the ceiling panel the insulation was also mounted with steel pins and washers. These steel pins were welded on a 50 x 50 x 0.4 mm perforated steel plate, fixed to the steel sheet with screws. (Test Report: PG 12337).

Total thickness: 40 mm

Application/Limitation

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

The ceiling combined with an A-Class steel deck fulfils the requirements for a Class A-30 deck.

Maximum size of panels: 3000 x 300/600/900 mm (length x width).

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. PG 12017 dated 2009-05-20 issued by DBI - Danish Institute of Fire and Security Technology, Hvidovre, Denmark. (basic ceiling)

Test report no. PG 12337 dated 2011-05-18 issued by DBI- Danish Institute of Fire and Security Technology, Hvidovre, Denmark. (special panel widths)

Tests carried out

Tested according to IMO FTP Code Annex1, Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

The product 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 front page).