DNV·GL

Certificate No:
MEDB00004KA

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)
LAUTEX CEILING LTK-340

Issued to
OY LAUTEX AB
Nummela, Finland

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 **2023-11-14**.

Issued at **Høvik** on **2018-11-15**

DNV GL local station:
Helsinki

Approval Engineer:
Marcin Tobiasz

Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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 United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

NORWEGIAN ACCREDITATION PROD 019

Product description

"LAUTEX CEILING LTK-340"
ceiling made of panel sections composed of 0.6 mm thick galvanized steel sheets from exposed side. The panels are insulated with one layer of 30 mm thick PAROC Marine Slab 130 N1 with nominal density 130 kg/m^3 inside panels and one layer of 15 mm thick and 59 mm wide strip of PAROC Marine Slab 220 with nominal density 220 kg/m^3 in both ends of panels. Insulation is not glued to the steel sheet.
The panels are joined together by means of a ceiling edge profile (constructed of 1.0 mm galvanized steel) and a U-profile (constructed of 0.7 mm galvanized steel) at their lateral edges. The joints are insulated from unexposed side with a 75 mm wide cover profile constructed of 0.7 mm galvanized steel. The insulation inside the cover profile consisted of one layer of 20/12.5 mm thick PAROC Marine Slab 220.
Both ends of panels are mounted into a Z-profile (constructed of 1.0 mm galvanized steel), which is fixed to the bottom flange of the end profile (U-profile) with shot nails at c/c approx. 250 mm.

Total panel thickness: 40 mm

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

Application/Limitation

Approved for use as an integrated part of a horizontal fire retarding division of class B-15 and when the ceiling is located a minimum distance of 300 mm from the structural steel deck, the whole construction may be regarded as a fire retarding division of class A-30.

Max. panel size: 400 x 2200 mm (W x L)

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. PGA11187A ver. 2 dated 11 October 2018 from Danish Institue of Fire and Security Technology, Hvidovre, Denmark.

Drawing nos. 1021-38 (1 sheet) and 1021-38-A (1 sheet) all dated 10 January 2018 from OY LAUTEX AB.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire-technical rating, MED Mark of Conformity and USCG approval number if applicable (see page 1).