EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000B9H
Revision no.:
0

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 AS under the authority of the Government of Norway.

This is to certify:

that the **A’ & ’B’ Class divisions fire integrity: - ’B’ class division**

with type designation(s)
BIP C-512 / B-0 Class Continuous ceiling with Electrical Fittings

issued to
DAEYANG ELECTRIC CO., LTD.
Busan, Korea, Republic of

is found to comply with the Implementing Regulation **(EU) 2024/1975** for
Item no. **MED/3.11b** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. II-2/3.4, SOLAS 74 Reg. II-2/9, IMO MSC.1/Circ.1581, IMO MSC/Circ.1120

(Manufacturers authorised representative)
DUKO EUROPE GmbH
Kaarst, Str.5, Paracelsus, 41564, Germany

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

Date of issue: **2025-08-11**

Expiry date: **2030-08-10**

DNV local unit:
Busan, CMC Korea

Approval Engineer:
Timo Linn

Notified Body
no.: **0575**

for **DNV AS**

Christine Mydlak-Röder
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, and amended by Decision No 1/2023 dated August 21st, 2023.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees (“DNV”) arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Product description
“BIP C-512 / B-0 Class Continuous ceiling with Electrical Fittings”
composed of panels suspended below the structural deck, panels consist of 25 mm thick mineral wool (manufactured by KCC Corporation, Korea) of density 60 kg/m³, covered with 0.6 mm thick perforated or non-perforated steel sheet on exposed side. (MEDB000004Z).

The cross runners are fastened to deck with P713 Hanger sets.

Total ceiling panel thickness is 25 mm.

Different lightnings may fitted in the Ceiling:

Lighting 1 : Model: LECO107NF-B0SRN (LECO107SF-B0SRN),
Max. cut-out light unit: Ø 108

Lighting 2: Model: LECO115NFH-B0SRN (LECO115SFH-B0SRN),
Max. cut-out light unit: Ø 155

Lighting 3 : Model: LECO115NFL-B0SRN (LECO115SFL-B0SRN),
Max. cut-out light unit: Ø 155

Lighting 4 : Model: LEB125NF-D-B0 (LEB125NFO-D-B0, LEB212NF-D-B0, LEB225NFO-D-B0),
Max. cut-out light unit: 300 x 647 mm (W x L)

Lighting 5 : Model: LEB225NF-D-B0 (LEB325NF-D-B0, LEB250NF-D-B0),
Max. cut-out light unit: 300 x 1272 mm (W x L)

Lighting 6: Model: LEXIT105NF-B0 (EXIT109NF-B0),
Max. cut-out light unit: 110 x 302 mm (W x L)

Lighting 7: Model: LEB225NF-B0 (FL240NF-B0, LEB325NF-B0),
Max. cut-out light unit: 144 x 1272 mm (W x L)

Lighting 8: Model: LEB125NF-B0 (FL220NF-B0, LEB125NFO-B0, LEB225NFO-B0),
Max. cut-out light unit: 144 x 658 mm (W x L)

manufactured by DAEYANG ELECTRIC CO., LTD.

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

Application/Limitation

Approved for use as a continuous horizontal fire retarding division of class B-0.

Max. panel size is 300 mm x 2240 mm (W x L).

In the longitudinal direction, the following measures apply:
• Max. distance between main runners: 1400 mm
• Max. distance between hanger rods: 2500 mm
• Max. distance from bulkhead to the nearest runner: 300 mm

In the transverse direction, the following measures apply:
• Max. distance between cross runners: 2500 mm

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

Tests carried out

Tested according to IMO 2010 FTP Code Part 3 and Part 3 Appendix 4

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 first page).