



EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000968

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

that the Penetrations through "B" class divisions: electric cable transits

with type designation(s)
SG-C/B15

issued to

Shanghai Siaco New Materials Technology Co., Ltd.
Shanghai, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2024/1975,
item No. MED/3.27a. SOLAS 74 as amended, Regulation II-2/9 and IMO 2010 FTP Code.

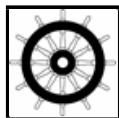
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-09-29**.

Issued at **Hamburg** on **2024-09-30**

DNV local unit:
Shanghai

Approval Engineer:
Marcin Tobiasz



Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
Head of Notified Body

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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 300,000 USD.



Product description

“SG-C/B15”

is an oval cable penetration composed of a steel sleeve bolted to a steel division with double flange. The steel sleeve is packed with SG-C lightweight fireproof clay (manufactured by Shanghai Siaco New Materials Technology).

The minimum distance between cable and sleeve shall be 5 mm and minimum distance between cables shall be 4 mm.

Application/Limitation

Approved for use as cable penetration system installation in in class B-15 wall panels W25 from R & M International GmbH or wall panels of similar or better construction and materials. The wall panel W25 was constructed as follows: 0.5 mm steel, 24 mm insulation (with density 200 kg/m³) and 0.5 mm steel. Wall panel has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Table 1: Approved cable penetration in B-15 wall panels.

Type	Size [mm]	Max. cable diameter [mm]	Filling ratio [%]	Sleeve thickness [mm]	Sleeve length [mm]	Sleeve position	Sleeve insulation
SG-C/B15	80x40 – 850x350	60.5	0 – 36	2	60	Symmetric	None

The structural integrity and thermal integrity shall be maintained after fitting the cabin unit into the ceiling panel. The arrangement is subject for approval in each case by attending surveyor/authority as per IMO 2010 FTP Code part 3, appendix 1, 1.14.

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

Type Examination documentation

Test report No. FT23222 dated 16 June 2023 from FEFTC, Shanghai, China.

Drawing No. SG-C/B15-C01 dated 12 April 2023 from maker.

Drawing No. SG-C/B15-C02 dated 12 April 2023 from maker.

Drawing No. SG-C/B15-C03 dated 12 April 2023 from maker.

Tests carried out

Fire tested according to IMO 2010 FTP Code 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 (see first page).