DNV·GL

Certificate No:
MEDB000023H

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 the Kingdom of Norway.

This is to certify:

That the Bedding components

with type designation(s)
MODERN MDM

Issued to
Modern Intech Co., Ltd.
Busan, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2015/559,**
Annex A.1, item No. A.1/3.21 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/3, II-2/9 & X/3, 2000 HSC Code 7 and IMO 2010 FTP Code

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

This Certificate is valid until **2019-08-08**.

Issued at **Høvik** on **2017-02-27**

DNV GL local station:
Busan

Approval Engineer:
Tessa Biever

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

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Product description

This certificate covers two matress types of "MODERN MDM":

1. Matress composed of springs covered by a foam core with type designation "Support bar LD-5321-FFS with density 20 kg/m^3. The foam is faced by a cover made of 100% polyester of quality "Mattress Cover MDM-@" and density approx. 51 kg/m^3.

   Total thickness approx. 150 mm to 220 mm.
   Total density approx. 54 kg/m^3.

2. Matress composed of springs covered by a foam core. The foam is faced seen from inside to outside by:
   - a layer of felt
   - a Matress Cover Quilting composed of a layer of non-woven fabric, a layer FR polyurethane foam with density 20.2 kg/m^3 and on the outside a 0.61 mm dobby weaved FR fabric made of 65% cotton and 35% polyester. The FR fabric has a mass per unit area of 171.5 g/m^2.

   Total thickness approx. 150 mm to 220 mm.

Application/Limitation

Approved for use throughout the accommodation as not readily ignitable bedding component.

Any thin light mattress or removable cover used in conjunction with the approved products above is to be approved according to the Marine Equipment Directive.

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

Type Examination documentation

Matress1 :

- Test report No. 81212 dated 31 July 2006 from Research Institute of Marine Engineering (R.I.M.E), Tokyo, Japan.
- Letter from Research Institute of Marine Engineering (R.I.M.E) dated 25 October 2006.

Matress 2:

- Test report no. B252-16-01155 dated 2016-12-20 from FITI, Busan, Korea.
- Drawing no. MD-MDM-01 rev. 0 from manufacturer

Tests carried out

Test performed in 2006 (Mattress 1): Tested in accordance with IMO FTPC Part 9 and in compliance with IMO 2010 FTP Code Ch. 8.

Test performed in 2016 (Mattress 2): Tested in accordance with IMO 2010 FTP Code Part 9.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, the MED Mark of Conformity and USCG approval number if applicable (see first page).