

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000016T

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, 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 "A" Class divisions, fire integrity

with type designation(s)

Class A60 Bulkhead - Biowool Marine Blanket Wrapped

Issued to

Luyang Energy-saving Materials Co., Ltd.

Zibo SD, China

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

Annex A.1, item No. A.1/3.11a and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/3.2.5 and IMO 2010 FTP Code.

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

This Certificate is valid until **2021-09-04**.

Issued at **Høvik** on **2016-09-05**

DNV GL local station:

Qingdao

Approval Engineer:

Tessa Biever

Notified Body

No.: **0575**

for **DNV GL AS**

Vidar Dolonen

Head of Notified Body

Product description

"A60 bulkhead - Biowool Marine Blanket Wrapped"

composed of a structural steel bulkhead insulated with a two layers of 20 mm thick LYKR-900T type Biowool Marine blanket (density 96 kg/m³) applied on the steel structural core as well as on the stiffeners following their contours.

Both the top and bottom blanket width compress from 610 to 600mm and to be installed in 600 mm widths to form slight compressed butted joints.

The blankets are held in place using steel copper coated pins (Ø 3 mm) welded to the bulkhead with Ø 30 mm steel washers. The pins are to be installed with a nominal spacing of 300 mm across the blankets and on average 300 mm (max. 350 mm) along the blankets, whereas pins at the joints between blankets shall have a nominal spacing of 150 mm from the blanket edge. Maximum pin distance to lengthways joint is 250 mm.

Application/Limitation

Approved for use as a vertical fire retarding division of class A-60.

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 Approval documentation

Test report No. FT16131 dated 2016 from Far East Fire Testing Centre, Shanghai, China.

Drawings BULKHEAD-KRBW and BULKHEAD-KRBW-THA dated feb. 2016 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

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).