

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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

## This is to certify:

**That the "A" Class divisions, fire integrity**

with type designation(s)

**TH-IV Type Class A-60 Lightweight Deck Covering**

Issued to

**Taicang Hongle Marine Fittings Co.,Ltd.**  
**Taicang, China**

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

Regulation **(EU) 2015/559,**

**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.**

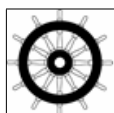
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-09-26**.

Issued at **Hamburg** on **2016-09-27**

DNV GL local station:  
**Shanghai CMC**

Approval Engineer:  
**Thomas Blohme**



Notified Body  
No.: **0098**

for **DNV GL SE**

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**Sven Dudzsus**  
**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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

Job Id: **344.1-005517-3**  
Certificate No: **MEDB000015M**

### **Product description**

"TH-IV Type Class A-60 Lightweight Deck Covering"

Composed of a 5 mm thick stiffened steel deck, insulated from unexposed side with 40 mm nominal thick TH-IV Type Deck Covering of nominal density  $\leq 1000 \text{ kg/m}^3$ ,  $\leq 2,0\%$  moisture content.

For further details see test report stated under Type Examination documentation, below.

### **Application/Limitation**

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

The insulation material, any surface materials and adhesive 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. FT16033 dated 04<sup>th</sup> February 2016 from Fare East Fire Testing Centre, Shanghai, China.

Test report No. FT16027 dated 02<sup>nd</sup> February 2016 from Fare East Fire Testing Centre, Shanghai, China.

### **Tests carried out**

Test according to IMO 2010 FTP Code Annex 1 Part 1 and Part 3.

### **Marking of product**

The product or packing is to be marked with name of manufacturer, type designation, MED Mark of Conformity and USCG approval if applicable (see page 1).