

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 Fire dampers

with type designation(s)
SCFD A-60 (deck/circular)

Issued to

Taicang Paien Ocean Equipment Sci-tech Co., Ltd.
Taicang, 100, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
item No. MED/3.22. SOLAS 74 as amended, Regulation II-2/9 and IMO 2010 FTP Code

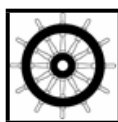
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-12-26**.

Issued at **Hamburg** on **2019-12-27**

DNV GL local station:
Shanghai

Approval Engineer:
Roland Priebe



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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, and amended by Decision No 1/2018 dated February 18th, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-009704-1**
Certificate No: **MEDB00005UK**

Product description

SCFD A-60 (deck/circular) is a manual operated, circular fire damper with automatic ($70^{\circ} \pm 2^{\circ} \text{ C}$) and manual closing, bolted to the spigot and padded with two layers of 20 mm rock wool.

Inner diameter	Ø 100 mm	Ø 1200 mm	Ø 1800 mm
Outer diameter	Ø 155 mm	Ø 1328 mm	Ø 1980 mm
Penetration length	250 mm	450 mm	450 mm
Wall thickness	4 mm	8 mm	10 mm
Number of blades	1	2	3
Blade thickness	25 mm	25 mm	25 mm

The blades are constructed of 4 mm steel plate + rock wool + 4 mm steel plate.

ABM-SR rock wool: nominal density of 150 kg/m^3 , manufactured by Shanghai New Type Building Material Rock Wool Factory.

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

The fire dampers are approved for installation in class A-60 steel decks. Other applications are subject to case-by-case approval.

The damper shall be capable of being closed from both sides of the deck.

The insulation used during testing is to be regarded as minimum insulation for all fire ratings, and is not to be removed if the fire damper is to be used in divisions with lower fire ratings.

The fire damper is to be fitted with open/close indication and shall be easily accessible (ex. inspection hatch).

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

Type Examination documentation

Test report no FT10329, dated 19th October 2010, from Far East Fire Testing Centre, Shanghai, China.
Test report no FT11257, dated 18th October 2011, from Far East Fire Testing Centre, Shanghai, China.

This certificate is based on the previous MED-B 12672-10 HH dated 30th October 2014.

Tests carried out

Tested according to IMO Res. MSC.307(88) - 2010 FTP Code, Annex 1, Part 3.

Marking of product

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