

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 Fire Doors

with type designation(s)

A-0 Wall Fire Shutter SJ-STD-WFS-01

Issued to

Seongjee Engineering Co., Ltd.
Busan, Republic of Korea

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

Regulation **(EU) 2017/306,**

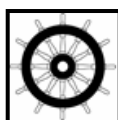
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

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

This Certificate is valid until **2022-09-07**.

Issued at **Høvik** on **2017-09-08**

DNV GL local station:



for **DNV GL AS**

Approval Engineer:
Piotr Orzechowski

Notified Body
No.: **0575**

Vidar Dolonen
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 United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"A-0 Wall Fire Shutter (SJ-STD-WFS-01)",
a gravity operated steel curtain made of 1 mm thick steel blades and Ø2 mm connection wire. The curtain blades are folded up inside a shield made of 0.8 mm thick steel sheets, and closes along a guide angle made of 2.3 mm thick steel profiles. All steel material is in SS400 quality. The fire shutter damper has automatic (72 °C) and manual closing.

The steel curtain is bolted with two M6x10 bolts to the fire shutter frame made of 2.3 mm thick steel profiles (SS400). The L-profile of specification 40 x 40 x 5 mm is welded with fire shutter frame and bulkhead.

For further details, see the drawing listed under Type Examination documentation below.

Application/Limitation

The fire shutter is approved for installation in steel bulkheads of class A-0.

Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

The fire shutter shall be capable of being closed from both sides of the bulkhead.

Maximum size of fire shutter: 700 x 700 x 112 mm (width x height x length).
Maximum clear opening: 710 x 710 mm (width x height)

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

Type Examination documentation

Test report No.KOMERI-0402-16T3694 dated 5 June 2017 from "KOMERI" Korea Marine Equipment Research Institute.

Drawing No. SJ-STD-WFS-01 Rev 1 Type B (7 pages) dated 24 February 2017 from Seongjee Engineering Co., Ltd.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).