

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 dampers

with type designation(s)

A-0 FIRE DAMPER

Issued to

Hankuk Miboo Co. Ltd.

Miryang-si Gyeongsangnam-do, 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.1/3.22 and Annex B, Module B in the Directive; 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 **2021-10-04.**

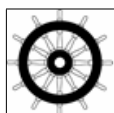
Issued at **Høvik** on **2016-12-05**

DNV GL local station:

Busan

Approval Engineer:

Fryderyk Hoga



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen

Head of Notified Body

Job Id:
Certificate No: **MEDB00001GM**

Product description

"A-0 Fire Damper"

is a spring operated, single bladed rectangular fire damper with automatic fuse operation (72 °C) and manual mechanical release. Damper blade is made of 4.5 mm stainless steel SS400. It is to be fitted with open/close indication and shall be easily accessible.

The fire damper consist of 225 x 4.5 mm (L x T) casing bolted to the 725 x 5 mm (L x T) coaming, by means of M8x25 bolts with spacing of 130 mm horizontally and 120 mm vertically. Coaming is welded to the bulkhead.

The coaming is insulated with a 50 mm thick layer of hi wool, density 120 kg/m³, manufactured by KCC Corporation, Korea.

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

Application/Limitation

Approved for use in ventilation ducts penetrating class A-0 steel deck. Other applications are subject to case-by-case approval.

Max. size of damper:	900 x 450 mm (W x H)
Max. number of blades:	1
Max. blade size:	900 x 450 mm (W x H)

The arrangement of the fire damper and nessecary insulation of damper frame and ducting in the vicinity of the partition are subject to approval in each case.

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

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

Type Examination documentation

Test report No. KOMERI-0402-16T241S dated 11 November 2016 from Korea Marine Equipment Research Institute, Busan, Republic of Korea.

Drawing No. MB-SD-0225 rev.0 "Fire Damper MB-001" (14 pages) dated 10 August 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 and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).