

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Fire Damper**with type designation(s)
PFGD-HOSS-2

Issued to

HI AIR KOREA Co., Ltd.
Gimhae-si Korea, Republic of Koreais found to comply with
Det Norske Veritas' Offshore Standards**Application :****The damper is approved for use in ducts penetrating bulkheads or decks class H-0.**
For applications/limitations, see overleaf.
Size of damper: Max 1200 x 1200 mm.This Certificate is valid until **2019-07-01**.Issued at **Høvik** on **2015-07-02**DNV GL local station: **Gimhae MC & FIS**Approval Engineer: **Synnøve Bolstad Eri**for **DNV GL**

Petter Langnes
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

"PFGD-HOSS-2"

is a pneumatic operated rectangular fire damper. The blades are made of 1.5 mm thick stainless steel (double skin), not insulated. Maximum breadth of blades is 255 mm. The fire damper casing is made of 3-10 mm stainless steel, and the length is 300 mm. The damper is fitted with automatic Actuator of type "SR125" (from Valbia) with a thermo bulb trigger of type "F3" (from JOB).

The fire damper is to be bolted to the 5 mm thick coaming with bolts at a maximum spacing of 150 mm apart and sealed with non-combustible gasket, or fully welded. The coaming is welded to the steel bulkhead/deck.

Length of coaming: 600 mm

For further details, see approved drawings listed under Type Approval documentation below.

Application/Limitation

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

Actuators of same make but with different size as mentioned above may also be used, provided that they have sufficient torque, similar installation arrangement and equivalent fire technical and functional properties.

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

Steel thickness of damper casing to be equal to or greater than thickness of duct/sleeve required by the rules if the damper casing is part of the duct/sleeve.

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

Type Approval documentation

Certification in accordance with Standard for Certification No. 1.2, Type Approval, January 2013.

Test report No. KOMERI-0402-14T2089 dated 13 April 2015 from Korea Marine Equipment Research Institute (KOMERI), Korea. (Deck)

Test report No. KOMERI-0402-14T2487 dated 13 April 2015 from Korea Marine Equipment Research Institute (KOMERI), Korea. (Bulkhead)

Drawing No. PFGD-HOSS-2 (8 pages) dated 20 August 2014 from the manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3 and with the HC time-temperature curve specified in ISO 834-3.

Marking of product

The product is to be marked with name of manufacturer, type designation and fire-technical rating.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Standard for certification No. 1.2 Type Approval Item 4.