



TYPE APPROVAL CERTIFICATE

Certificate No:
TAF00001SX
Revision No:
1

This is to certify:

That the Fire Damper

with type designation(s)
A-0 class Rectangular Fire Damper of type EFGD

Issued to
Baas Component AS
LILLESTRØM, Norway

is found to comply with
DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021
DNV rules for classification – Ships
DNV offshore standards

Application :

The fire damper is approved for installation in steel bulkheads. Other applications are subject to case-by-case approval.

This certificate is recognized by Transport Canada.

Product approved by this certificate is accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2023-03-30**

for **DNV**

This Certificate is valid until **2028-01-25**.
DNV local unit: **East & South Norway CMC**

Approval Engineer: **Karolina Kusmider**

.....
Jowita Permoda
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

“A-0 class Rectangular Fire Damper of type EFGD “

Is a spring operated multi bladed rectangular fire damper with manual and/or automatic electrical release.

Fire damper casing (300 mm length) is made of 4 mm thick steel and fire damper blade is made of 4 mm thick steel. The damper blade edges may be fitted with 5 x 20 mm flame-retardant neoprene packing.

The casing is welded or bolted to the 5mm thick coaming by M8-M12 bolts spaced 75-150 mm apart.

The coaming is welded to the steel bulkhead. The blade is welded to the steel shaft.

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

Application/Limitation

The fire damper is approved for installation in steel bulkheads. Other applications are subject to case-by-case approval.

Max. size of fire damper: 1000 mm x 1300 mm (W x H)

Max. number of blades: 5

Max. blade size: 1000mm x 290 mm (H x W)

Electric actuators that may be used:

- X3D2500-90-C-U-C5 from Rexa, Inc. (*)
- Belimo BF from Belimo Automation AG (*)

(*) Actuators of the same make but of 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.

Blade gaskets other than neoprene may be used if having equivalent fire-technical and functional properties and approved according to IMO 2010 FTP Code part 1.

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.

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

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

Type Approval documentation

Certification in accordance with Class Programme DNV-CP-0338, September 2021.

Test report No.150080-21 Version 1 dated 24 August 2022 from RISE Fire Research, Trondheim, Norway

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

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

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Procedures for Approval of Life Saving Appliances, Fire Safety Systems, Equipment and Products (TP 14612)", DNV confirms that the product listed in this certificate is in accordance with Transport Canada's requirements.

Periodical assessment

DNV '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 Class Program DNV-CP-0338, Section 4.