

EC TYPE EXAMINATION CERTIFICATE

This is to certify that:

SINTEF NBL as, specified as a *notified body* under the terms of “Forskrift om Skipsutstyr” by the Norwegian Maritime Directorate, did undertake the relevant type approval procedure for the equipment identified below which was found to be in compliance with the Fire protection requirements of Marine Equipment Directive (MED) 96/98/EC as amended, last amended by directive 2011/75/EU, subject to any conditions in the schedule attached hereto.

Certificate No. MED-B-0204

This Certificate consists of 2 pages

Fire dampers

Type designations (see page 2)

**Manufactured by
Baas Component AS
2003 Lillestrøm Norway**

Regulations and standards: Annex A.1, item No: A.1/3.22 and Annex B, Module B in the Directive SOLAS 74 as amended: Reg. II-2/9.7.1.1, II-2/9.7.1.2 and IMO Res. A.754(18).

The attached forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provide the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

**Place and date of issue:
Trondheim, 2013-06-21**

**This certificate is valid until:
2018-06-21**



Notified Body No. 1084



Are W. Brandt
Acting managing director



Karolina Storesund
Research Scientist

Notice:

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.

The mark of Conformity may only be affixed to the product and the Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

Product description:

BF / BR Fire Dampers as specified:

Type	Min.size	Max.size	Blade thickness	Casing thickness	Class bulkhead	Class deck
BF	100x100 ¹⁾	1200x1200 ²⁾	2 mm	2 mm	A 0	A 0
BR	Ø 100 ²⁾	Ø 400 ¹⁾	2 mm	2 mm	A 0	A 0
BF	100x100 ²⁾	1300x1300 ²⁾	4 mm	4 mm	H 0 / A 0	H 0 / A 0
BR	Ø 100 ²⁾	Ø 400 ²⁾	4 mm	3 mm	H 0 / A 0	H 0 / A 0

1) Electric operated actuator

2) Pneumatic operated actuator

Applications/Limitation of use:

For use in ducts penetrating class A 0 and class H 0 deck and bulkheads

The products must be supplied with manuals for installation, operation and maintenance.

Ref.: Baas Component Documents:

Installation- Operation and Maintenance Instruction for dampers.

Rev.0, dated 1998-05-06.

Damper functional testing. Rev.1, dated 1999-01-21

Preservation, packing, transport and storage of dampers and measuring units.

Rev.0, dated 1998-05-06

Type Approval documentation:

Test reports No. 103030.05A and No.103030.05B, both dated 2003-09-17 from Norwegian Fire Research Laboratory.

Test reports No.103030.12 and No.103030.13, both dated 2005-12-19 from SINTEF NBL as.


Tested according to IMO Res. A.754(18).

Assessment report no. 103202.65, dated 2006-03-13 from SINTEF NBL as.

Marking for identification:

The product or packing is to be marked with the name of manufacturer, trade name and Mark of Conformity. The labelling shall have good visibility.

Mark of conformity:

The Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment may only be affixed to the type approved equipment and a manufacturer's Declaration of Conformity issued, only when the production-control phase module Module D, E, or F of Annex B of the mentioned Directive is fully complied with and controlled by a written inspection agreement with a notified body.

Module D: Production Quality Assurance

Module E: Product Quality Assurance

Module F: Product verification.

End of Certificate.