



DET NORSKE VERITAS

# EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

**CERTIFICATE NO. MED-B-4336**

This Certificate consists of 3 pages

*This is to certify that the*  
**Fire dampers**

*with type designation(s)*  
**NFR1-LW**

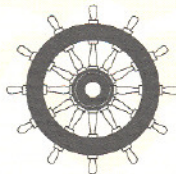
*Manufacturer*  
**Neco Offshore A/S**  
**OSLO, Norway**

*is found to comply with the requirements in the following Regulations/Standards:*  
Annex A.1, item No. A.1/3.22 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/9.7.1.1, II-2/9.7.1.2 and IMO FTP Code

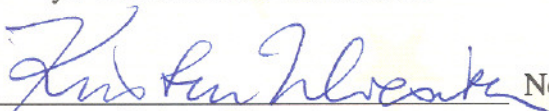
*Further details of the product and conditions for certification are given overleaf.*

*Place and date*  
Høvik, 2007-07-05

for DET NORSKE VERITAS AS



*This Certificate is valid until*  
2012-07-05

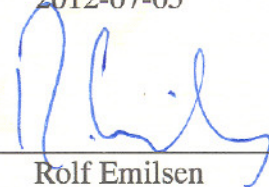


Kristen Ulveseter

Manager, MTPNO370

Department Systems & Components

Notified Body No. 0575



Rolf Emilsen

Surveyor



DNV local office:  
DNV Oslo



*Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.*

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

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas AS well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-4336  
Job Id.: 344.1-000970-1  
Item No.: A.1/3.22

## Product description

### "NFR1-LW"

rectangular fire damper with automatic (70°C) and manual/pneumatic/electric release. Damper blade made from 2,5 mm stainless steel and damper casing made from min. 2 mm stainless steel (\*see application/limitation below).

## Application/Limitation

Approved for use in ducts penetrating class A bulkheads and decks.  
Min. size 100 x 100 mm. Max. size 1200 x 1200 mm.

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

The arrangement of the fire dampers and necessary additional insulation of damper frame and ducting in the vicinity of the partition is 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 and use.

## Type Approval documentation

Test reports No. 22N008.03 dated 30 March 2000 and No. 22N008.06 dated 27 September 2000 from SINTEF, Trondheim, Norway.

Tested according to IMO FTPC Part 3 (IMO Res. A.754(18)).

## Marking of product


The product or packing is to be marked with name of manufacturer, type designation, fire technical rating, Mark of Conformity and USCG approval (see page 3).





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### Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

- Module D: The quality system for production and testing shall be approved by the Notified Body.
- Module E: The quality system for inspection and testing shall be approved by the Notified Body.
- Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who shall issue a Certificate of Conformity.

### USCG Approval

An 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" signed 17 October 2005.

END OF CERTIFICATE

