DNV·GL

Certificate No:
**TAF000002B**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Class H Fire Wall and Bulkhead**

with type designation(s)
**Jotachar JF750 - Bulkhead**

Issued to
**Jotun A/S**
**SANDEFJORD, Norway**

is found to comply with
**Det Norske Veritas' Offshore Standards**

## Application :

**Approved for use as fire retarding bulkhead of class H-0, H-60 and H-120.**

This Certificate is valid until **2017-12-31**.

Issued at **Høvik** on **2015-08-27**

for **DNV GL**

DNV GL local station: **Sandefjord**

Approval Engineer: **Helge Bjørnarå**

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**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.


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## Product description

"Jotachar JF750" - Bulkhead
Composed of a structural steel bulkhead insulated on the fire exposed side (plate side). The system is composed by a two-pack epoxy based primer covered by a two component epoxy thick-film intumescent coating (Jotachar JF750).

**Table 1: H-bulkhead rating and corresponding thickness of "Jotachar JF750":**

| Rating | DFT | Comment |
|---|---|---|
| H-0 | 5,6 mm | No temperature limit |
| H-$0_{400}$ | 6,3 mm | Max temperature rise of 400 ºC (single) after 120 min |
| H-60 | 12,9 mm | Max temperature rise of 140 ºC / 180 ºC (avg. / single) after 60 min |
| H-120 | 17,6 mm | Max temperature rise of 140 ºC / 180 ºC (avg. / single) after 120 min |

The materials are manufactured at Jotun Paints (Europe) Ltd., Scunthorpe, North Lincolnshire, United Kingdom.

## Application/Limitation

Approved for use as fire retarding bulkhead of class H-0, H-$0_{400}$, H-60 and H-120.

Restricted application: Fire against insulated side.

The protective coating is not defined as non-combustible and should not be used in accommodation or in enclosed areas.

Relative density of "Jotachar JF750" is 1.0 g/cm$^3$.

The application of the protective coating is to be performed in accordance with the manufacturer's application manual. Alternative primers and topcoats may be used provided they have been tested and approved by the manufacture.

Each product is to be supplied with its manual for application and maintenance.

## Type Approval documentation

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

Application Guide: Jotachar JF750, Rev.01-2, dated 22 November 2013 from Jotun A/S, Sandefjord, Norway.

Test report No. 274548 dated 2012-10-30 from BRE Global, Watford, UK
Test report No. 274549 dated 2012-10-30 from BRE Global, Watford, UK
Test report No. 283073 dated 2013-02-06 from BRE Global, Watford, UK
Test report No. 284270 dated 2013-04-22 from BRE Global, Watford, UK
Test report No. 13-04716 dated 2013-04-22 from Al Futtaim Exova LLC, Dubai, UAE
Statement dated 2013-07-22 from BRE Global, Watford, UK

Test report No. OA29 dated 2014-04-08 from Thomas Bell-Wright International Consultants, Dubai, UAE

## Tests carried out

Tested according to IMO FTP Code Part 3 (IMO Res. A.754(18)) with furnace temperature following the hydrocarbon curve according to ISO 834-3.

## Marking of product

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

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## Periodical assessment

DNV GL's surveyor is to be given permission to perform Certification Retention Surveys at any time during the validity period of this certificate and at least every year. The arrangement is to be in accordance with procedure described in Standard of Certification Note No. 1.2 item 4.