DNV·GL

Certificate No:
TAF000002E

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class H Fire Wall and Bulkhead

with type designation(s)
Jotachar JF750 and ceramic blanket - 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 and H-60.
Restricted Application: Fire against the Jotachar JF750

This Certificate is valid until **2019-08-26**.

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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Job Id:
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Product description

"Jotachar JF750 and ceramic blanket" - Bulkhead
composed of a structural steel bulkhead insulated on the fire exposed side (plate side) with Jotachar JF750. On the non-fire side (stiffened side) the bulkhead is insulated with 25 mm thick Fiberfrax Durablanket (density 96 kg/m^3) with aluminium foil facing. A layer of 400 mm strips of insulation is fitted over the stiffeners. The insulation is fixed by means of pins with nominal 300 mm spacing.

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

Rating	DFT	Comment
H-0	6,2 mm	No temperature limit
H-0_{400}	6,2 mm	Max temperature rise of 400 ºC (single) after 120 min
H-60	6,2 mm	Max temperature rise of 140 ºC / 180 ºC (avg. / single) after 60 min

Jotachar JF750 and two pack epoxy primer manufactured at Jotun Paints (Europe) Ltd., Scunthorpe, North Lincolnshire, United Kingdom.

Application/Limitation

Approved for use as a horizontal fire retarding division of class H-0, H-0_{400} and H-60.

Restricted Application: Fire against the Jotachar JF750

The ceramic insulation shall have a valid type approval certificate for non-combustibility.

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. OC067 dated 2014-06-30 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.

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.