

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Equivalent Class A Divisions

with type designation(s)
FIRETEX M90/02 - Bulkhead

Issued to

Sherwin-Williams Protective & Marine Coatings
Bolton, United Kingdom

is found to comply with
DNV GL offshore standards

Application :

Approved for use as fire retarding bulkhead of class A-0, A-15, A-30 and A-60
Restricted Application: Fire against insulated side

This Certificate is valid until **2021-03-02**.

Issued at **Høvik** on **2016-03-03**

DNV GL local station: **Manchester**

Approval Engineer: **Helge Bjørnarå**

for **DNV GL**

Petter Langnes
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.

Product description

FIRETEX M90/02 - Bulkhead

Composed of a structural steel bulkhead insulated on the fire exposed side (plate side) with the two component epoxy based intumescent coating FIRETEX M90/02 reinforced mid depth with mesh type FIRETEX J220.

Table 1: Bulkhead rating and corresponding thickness of "FIRETEX M90/02":

Rating	DFT	Comment
A-0	3,8 mm	No temperature limit
A-15	5,3 mm	Max temperature rise of 140 °C / 180 °C (avg. /single) after 60 min
A-30	6,6 mm	Max temperature rise of 140 °C / 180 °C (avg. / single) after 60 min
A-60	9,3 mm	Max temperature rise of 140 °C / 180 °C (avg. / single) after 60 min

The material is manufactured at the premises of Sherwin-Williams, Bolton, UK.

Application/Limitation

Approved for use as a fire retarding bulkhead of class A-0, A-15, A-30 and A-60.

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 FIRETEX 90/02 is 1000 kg/m³.

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 Class Programme DNVGL-CP-0338, October 2015.

Application Guide: FIRETEX M90/02 Application Manual - Issue 6

Test Report No. 354532 dated 2015-09-16 from Exova Warringtonfire, Warrington, UK
Test Report No. 354533 dated 2015-09-16 from Exova Warringtonfire, Warrington, UK
Test Report No. 354534 dated 2015-09-16 from Exova Warringtonfire, Warrington, UK
Test Report No. 354535 dated 2015-09-16 from Exova Warringtonfire, Warrington, UK
Assessment Report No. 358309 dated 2015-12-10 from Exova Warringtonfire, Warrington, UK
Technical Report dated 2015-06-26 from Sherwin-Williams, Sheffield, UK
Letter 309675 CL dated 2010-09-12 from Exova Warringtonfire, UK

Tests carried out

Tested according to IMO 2010 FTP Code Part 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 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 DNVGL-CP-0338 Section 4.