

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class H Lightweight Horizontal Partition and Deck

with type designation(s)
Firetex M90/02 - Deck

Issued to

**Sherwin-Williams Protective & Marine Coatings
Bolton, United Kingdom**

is found to comply with
DNV GL offshore standards

Application :

Approved for use as a horizontal fire retarding division of class H-0, H-60 and H-120.

This Certificate is valid until **2021-11-26**.

Issued at **Høvik** on **2016-11-27**

DNV GL local station: **Manchester**

Approval Engineer: **Helge Bjørnarå**

for **DNV GL**

**Petter Langes
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.

Job Id:
Certificate No: **TAF00000GV**

Product description

"Firetex M90/02" - Deck

composed of structural steel deck, insulated on the stiffened side (underside). The system is composed by a primer (Firetex C69) covered by an epoxy based intumescent coating (Firetex M90/02). The epoxy based intumescent coating is reinforced mid depth with embedded fabric (Firetex J220).

Table 1: H-deck rating and corresponding thickness of "Firetex M90/02":

Rating	DFT [mm]	Comment
H-0	5,5	No temperature limit
H-0 ₄₀₀	6,0	Max temperature rise of 400 °C (single) after 120 min
H-60	9,9	Max temperature rise of 140 °C / 180 °C (avg. / single) after 60 min
H-120	14,3	Max temperature rise of 140 °C / 180 °C (avg. / single) after 120 min

The materials are manufactured at the following locations:

- Sherwin-Williams, Bolton, UK

Application/Limitation

Approved for use as a horizontal fire retarding division of class H-0, H-0₄₀₀, H-60 and H-120.

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

Minimum fabric overlap shall be not less than 50 mm. Wet density of "Firetex M90/02" 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.

Assessment No. 312994 dated 2012-01-27 from Exova Warringtonfire, UK
Test report No. 305258 dated 2011-09-15 from Exova Warringtonfire, UK
Test report No. 309210 dated 2011-09-15 from Exova Warringtonfire, UK
Test report No. 310318 dated 2011-09-15 from Exova Warringtonfire, UK
Letter 309675 CL dated 2010-09-12 from Exova Warringtonfire, UK

Tests carried out

Tested according to IMO FTP Code Part 3 (IMO Res. A.754(18)) with the furnace temperature following the hydrocarbon curve specified in EN 1363-2.

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 Class Programme DNVGL-CP-0338, Section 4.