

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Class H Lightweight Horizontal Partition and Deck**with type designation(s)
Contraflame MS400 - Deck (H-60)

Issued to

Advanced Insulation Ltd.
GLOUCESTER, United Kingdomis found to comply with
DNV GL offshore standards**Application :****Approved for use as a horizontal fire retarding division of class H-60.**Issued at **Høvik** on **2017-03-22**This Certificate is valid until **2022-03-21**.DNV GL local station: **Southampton**for **DNV GL**Approval Engineer: **Helge Bjørnarå**

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

Contraflame MS400 - Deck (H-60)

composed of a structural steel deck insulated on the underside. The insulation is composed of the following layers (inner to outer):

- 70 mm thick pre-formed, fully cured panels of Contraflame MS400 foam
- 3 mm thick Contraflame D2004 top-coat laminate system

The foam panels are glued to the substrate (deck and stiffeners) and each other with a silicone adhesive. 4 mm thick intumescent mats are inserted into each joint between abutting/adjacent panels. Adjacent foam panels are mechanically fastened to each other with 140 mm long helical screw 250 mm apart. A top-coat system was applied on the MS400 panels in two layers to a total thickness of 3 mm.

The materials are manufactured at the following locations:

- Advanced Insulation Ltd., Bristol Road, Gloucester, United Kingdom

Application/Limitation

Approved for use as a horizontal fire retarding division of class H-60.

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

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.

Test report No. P102456-1003, Issue 1, dated 10 November 2016 from BRE Global Ltd., Watford, UK.

Dwg. No. R&D 7513-0001, Rev.0, 70mm MS400 Deck Sample, from manufacturer.

Tests carried out

Tested according to IMO FTP Code Part 3 (IMO Res. A.754(16)) with furnace temperature following the hydrocarbon curve according to ISO 834-3 (BS 476 Part 20 Appendix D).

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.