

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Jet Fire Protection

with type designation(s)
ContraFlame JF120-200

Issued to

Advanced Insulation Limited
Gloucester, United Kingdom

is found to comply with
DNV GL offshore standards

Application :

Approved for use as a jet fire protection of steel pipes.

Issued at **Høvik** on **2020-02-12**

This Certificate is valid until **2025-02-11**.

DNV GL local station: **Manchester**

for **DNV GL**

Approval Engineer: **Karolina Kusmider**

Mårten Schei-Nilsson
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: **262.1-016416-2**
Certificate No: **TAF000018W**

Product description

"ContraFlame JF120-200",

Steel pipe with outer diameter 203.2 mm and wall thickness 6.4 mm ($H_p/A = 160 \text{ m}^{-1}$) insulated with ContraFlame System composed of an inner layer of 75 mm C50-400 phenolic syntactic foam, an intermediate layer of 15 mm C50-700 phenolic syntactic foam and an outer layer of 6 mm (nominal) D2004 fibre-reinforced skin.

Total system thickness is 96 mm.

Application/Limitation

Approved for use as a jet fire pipe of rating (Type of fire/Type of application/Critical temperature rise ($^{\circ}\text{C}$)/Period of resistance (minutes)):

The approval refers only to the fire resistance properties of the system.

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

Any project specific design solutions arrived at on basis of this certificate are to be further validated by project specific approvals carried out by the appointed verifying authority for each project in each case at the detail engineering stage.

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Test Report No. 11453 Issue 2.0 dated 2011-07-17 from GL Noble Denton, Spadeadam, UK.

Drawing No. R&D-0152 Rev. 0 dated 2011-03-02 from maker.

Application procedure No. AP01.02 Issue 07 dated 2018-04-09 from maker.

Tests carried out

Tested according to ISO 22899-1:2007.

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.