

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Jet Fire Protection**with type designation(s)
AIS "Jet Fire Pro 120" Jacketing SystemIssued to
AIS Technical Limited
North Shields, Tyne & Wear, United Kingdomis found to comply with
DNV GL offshore standards**Application :****Approved for use as jet fire protection of steel pipes.**Issued at **Høvik** on **2019-12-11**This Certificate is valid until **2024-12-10**.DNV GL local station: **Newcastle-upon-Tyne**for **DNV GL**Approval Engineer: **Helge Bjørnarå**

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: **262.1-016331-3**
Certificate No: **TAF00001C1**

Product description

AIS "Jet Fire Pro 120" Jacketing System,
Steel pipe with outer diameter 219.1 mm and wall thickness 12.7 mm ($H_p/A = 85 \text{ m}^{-1}$) insulated with a 13 layered jacket system. See technical specification no. JFP120-001 for further details.

Total thickness is 59.5 mm.

The jacket is fastened to the steel pipe with 19 mm wide stainless steel strappings.

Application/Limitation

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

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.

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

The protective coating 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 2018.

Test report no. 11493, issue 2.0, dated 1 August 2011 from GL Noble Denton, Spadeadam Test Site, UK.

Technical specification No. JFP120-001 from the manufacturer.

Tests carried out

Tested according to ISO 22899-1.

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.