



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAF00000UM**  
Revision No:  
**1**

## This is to certify:

### That the Fire Hose

with type designation(s)  
**PYROFLEX, PYROPROTECT, PERMALINE**

Issued to

**NewAge Fire Protection Industries Pvt. Ltd.**  
**Mumbai, Maharashtra, India**

is found to comply with

**DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021**  
**DNV rules for classification – Ships**  
**DNV offshore standards**

## Application :

**Approved for use throughout the fire line except for hose reels.**

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

Issued at **Høvik** on **2022-12-22**

for **DNV**

This Certificate is valid until **2027-12-21**.

DNV local station: **India**

Approval Engineer: **Helge Bjørnarå**

**Jowita Permoda**  
**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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



### Product description

“PYROFLEX, PYROPROTECT, PERMALINE”

Non-percolating lay-flat fire hoses in the following sizes (internal diameter): 38 mm, 45 mm, 51 mm and 64 mm

The fire hose is made up of special compounded synthetic nitrile/PVC blend rubber. Circularly woven jacket made of 100% synthetic polyamide yarn being free of knot, lump and any other irregularity.

### Application/Limitation

Approved for use throughout the fire line except for hose reels.

For use at working pressure not exceeding 15 bar, and at a minimum ambient temperature of -20 °C.

Production and batch tests to be performed in accordance with BS 6391:2009 Annex B.

Each product is to be supplied with its manual for installation, use and maintenance.

### Type Approval documentation

Certification in accordance with Class Programme DNV-CP-0338, September 2021.

Test report No. SIHB/FHT/5/2012 dated 7 May 2012 from Safety and Health Information Bureau, Mumbai, India.

Test report No. SIHB/FHT/6/2012 dated 7 May 2012 from Safety and Health Information Bureau, Mumbai, India.

Test report No. SIHB/FHT/7/2012 dated 14 May 2012 from Safety and Health Information Bureau, Mumbai, India.

Test report No. SIHB/FHT/8/2012 dated 14 May 2012 from Safety and Health Information Bureau, Mumbai, India.

### Tests carried out

Tested according to BS 6391:2009 (type 3).

### Marking of product

The product is to be marked according to BS 6391:2009 Clause 11.

### Periodical assessment

DNV'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 DNV-CP-0338, Section 4.