Maritime & Coastguard Agency
UK Approved Body Authorised by the MCA

Certificate number: 79119/A0 UK
File number: ACI 2200/002/03
Item number: UK/3.29
This certificate is not valid when presented without the full attached schedule composed of 7 sections

Approved Body 8517 - UNITED KINGDOM MARINE EQUIPMENT APPROVAL

UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

This is to certify that Bureau Veritas SA UK Branch Office did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, subject to any conditions in the schedule attached hereto.

This certificate is issued to:
MANDALS A/S, A Michelin Group company
Nordre Banegate 26, 4515, Mandal, NORWAY

for the type of product
NON PERCOLATING LAY FLAT FIRE-FIGHTING HOSES (RANGE OF THE INSIDE DIAMETER FROM 25 MM TO 52 MM)
Mandals Mertex

Requirements:
SOLAS 74 convention as amended, Regulation II-2/10, X/3
IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 7
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 7
EN 14540:2014

The attached (schedule of approval) forms part of this certificate.
This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.

This certificate will expire on: 18 Dec 2029

Issued by Bureau Veritas SA UK Branch Office

(Approved Body 8517)
At BV OSLO, on 18 Dec 2024,
Rune MARSTEIN

This certificate was created electronically and is valid without signature

BUREAU VERITAS MARINE & OFFSHORE INTERNATIONAL REGISTER

Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
Note 2: During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.
Note 3: "The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body."
Note 4: In case limitations of use apply, these should be indicated in the Annex.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Fire hose Mandals Mertex

- Non-percolating layflat fire hose for fire fighting purposes
- Uncovered, fully synthetic polyester fire hose with a thermoplastic polyurethane (TPU) inner lining

Mandals Mertex

Inner Diameter (inch)	Inner Diameter (mm)	Mass per Unit Length (Kg/m)	Max. Working Pressure (MPa)	Bursting Pressure (Min. 4.5 MPa)
1-1/2	38,1 + 1.6	0.19	1.5	6.0
2	51,5 + 2.0	0.27	1.5	5.5

2. DOCUMENTS AND DRAWINGS

2.1 - Manufacturer's technical specifications as provided on 31/03/2020

2.2 - Instruction manual dated July 2019

2.3 - General Hose Guidelines for Safe Use and Storage, Ref. T140-13-B

No departure from the above documents shall be made without the prior consent of the notified body named on this certificate. The manufacturer must inform the notified body of any modification or changes to these documents and drawings.

3. TEST REPORTS:

3.1 - Fire hose type-tested in accordance with EN 14540

3.2 - Test report dated 09/07/2009 witnessed by the notify body.

3.3 - Test report dated 02/02/2005 (resistance to kinking test), witnessed by an IACS surveyor.

4. APPLICATION / LIMITATION:

4.1 - Approved as fire hoses of fire fighting for ships having to comply with SOLAS 74 Convention as amended.

4.2 - The fire-fighting hose is intended for use at ambient temperature range -20°C up to +60°C.

4.3 - The supplier supplying the ship/unit will have to comply with the Rules and the applicable regulations acceptable by the National Authorities of the country in which the ship/unit is registered with respect to the maximum length of the fire hoses and the assembly couplings. The supplier shall make available its instruction manual for installation, use and maintenance.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - This certificate alone does not allow the applicant to issue the UK Declaration of Conformity and to affix the mark of conformity (United Kingdom conformity mark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

5.2 - The manufacturer shall institute quality control procedure in order to ensure that the fire-fighting hoses "Mandals Mertex" are produced in accordance with the requirements stated on the front page of this certificate and to keep records of any production tests carried out in accordance with these requirements.

5.3 - For information concerning the production phase modules, **MANDALS A/S, A MICHELIN GROUP COMPANY** has declared the following manufacturing site(s):

MANDALS A/S, A MICHELIN GROUP COMPANY
Nordre Banegate 26
4515 Mandal
NORWAY

6. MARKING OF PRODUCT:

Each length of hose shall be clearly and indelibly marked with the following information, at least twice per length:

- Manufacturer's name or logo
- EN standard (number and date)
- Inside diameter
- Maximum working pressure
- Quarter and year of manufacture
- Test temperature -30°C

Reference is made to UK Merchant shipping (Marine Equipment) regulation 2016, as amended, Part 3.
In particular Article 15.3 specifies that the United Kingdom conformity mark shall be followed by the identification number of the Approved Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS:

7.1 - It is **MANDALS A/S, A MICHELIN GROUP COMPANY's** responsibility to inform shipbuilders or their sub-contractors of the proper method of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

***** END OF CERTIFICATE *****