

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Fire-fighting hoses – Non-percolating lay flat firefighting hoses (range of the inside diameter from 25 mm to 52 mm)

with type designation(s)
ARMTEX

Issued to

TECNICAS E INGENIERIA DE PROTECCION, S.A. (TIPSA)
Sant Joan Despi, Spain

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2017/306,

item No. MED/3.29. SOLAS 74 as amended, Regulation II-2/10 & X/3, 2000 HSC Code 7 and
EN 14540:2014

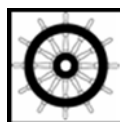
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-11-01**.

Issued at **Høvik** on **2017-11-02**

DNV GL local station:
Barcelona

Approval Engineer:
Marius Mørner



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body



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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: **344.1-003568-3**
Certificate No: **MEDB00003EO**

Product description

"ARMTEx"

Non-percolating layflat fire hoses in the following sizes (inside diameter): 38 mm, 45 mm and 52 mm.

The hoses are made from 100 % high tenacity circular woven polyester yarn that is protected by synthetic NBR/PVC rubber extruded through the weave.

Application/Limitation

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

For use at ambient temperatures between -20 °C to + 60 °C.

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

Type Examination documentation

Test reports all from SP/RISE, Borås, Sweden:

- FX104443A (38 mm), dated 2012-02-09
- FX104443B (52 mm), dated 2012-02-09
- 7F015556 (additional requirements from EN 14540:2014), dated 2017-10-06

Tests carried out

Tested according to EN 14540:2014.

Marking of product

The product or packing is to be marked with name and address of the manufacturer, type designation, fire-technical rating, the MED Mark of Conformity and EN 14540:2014 Clause 8.