

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000B2D
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

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)
HIGFLEX and SINFLEX

issued to

5Elem Hi-Tech Corporation
Jiangyan, China

is found to comply with the Implementing Regulation (EU) 2024/1975 for
Item no. **MED/3.29** (Row **1 of 1**)
according to the following requirements:

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

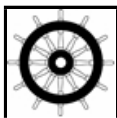
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2024-12-16**

Expiry date: **2029-12-15**

DNV local unit:
Nantong

Approval Engineer:
Izabela Misztal



Notified Body
no.: **0098**

for **DNV SE**

Christine Mydlak-Röder
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 SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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 USD 300 000.

Product description

Non-percolating lay-flat fire hoses with the following specification:

Type „HIGFLEX“:

Fabric / textile: circular woven, 100% polyester high tenacity yarn.
Inside lining: synthetic rubber lining (EPDM).
Internal diameter: 38 mm, 45 mm and 52 mm.
Maximum working pressure: 1.5 MPa (15 bar).

Type „SINFLEX“:

Fabric / textile: circular woven, 100% polyester high tenacity yarn.
Inside lining: PVC lining.
Internal diameter: 38 mm, 45 mm and 52 mm.
Maximum working pressure: 1.5 MPa (15 bar).

For further details please refer to the documentation listed below under Type Examination documentation.

Application/Limitation

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

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

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

Type Examination documentation

Tests carried out

Tested according to EN 14540 (2004) incl. A.1 (2007), as superseded by EN 14540 (2014) [no difference in the scope of testing]

Marking of product

The products are to be marked according to EN 14540:2014 Section 8 and with the MED Mark of Conformity (see page 1).