

TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB00005J3
Revision No:
1

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 AS under the authority of the Government of Norway.

This is to certify:

that the Materials other than steel for pipes conveying oil or fuel oil: flexible pipe assemblies and compensators

with type designation(s)
EN 853 1SN, EN 853 2SN, EN 857 1SNK, EN 857 2SNK, 4SH and 4SP

issued to

STAUFF UK LTD
Sheffield, United Kingdom

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

Regulation (EU) 2024/1975,

item No. MED/3.15c. SOLAS 74 as amended, Regulation II-2/4 & X/3 and 2000 HSC Code 7 & 10 and IMO MSC/Circ.1120

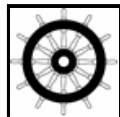
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2030-06-01**.

Issued at **Høvik** on **2025-06-02**

DNV local unit:
UK & Ireland CMC & VMC

Approval Engineer:
Andreas Hansen



Notified Body
No.: **0575**



for **DNV AS**

Digitally Signed By:
Per Ola Nymo
Location: DNV Høvik, Norway
on behalf of

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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

6 types of non-metallic hoses with permanently fitted couplings tested according to:

- ISO 15540:2016 – Fire resistance of non-metallic hose assemblies and non-metallic compensators – Test methods
- ISO 15541:2016 – Fire resistance of non-metallic hose assemblies and non-metallic compensators – Requirements for the test bench

1. Type 1SN: Hose is made of oil resistant synthetic rubber tube, reinforced with one high tensile steel braid, and abrasion, ozone and weather resistant synthetic rubber according to EN853 1SN.
2. Type 2SN: Hose is made of oil resistant synthetic rubber tube, reinforced with two high tensile steel braids, and abrasion, ozone and weather resistant synthetic rubber according to EN853 2SN.
3. Type 1SNK: Hose is made of oil resistant synthetic rubber tube, reinforced with one high tensile steel braid, and abrasion, ozone and weather resistant synthetic rubber.
4. Type 2SNK: Hose is made of oil resistant synthetic rubber tube, reinforced with two high tensile steel braids, and abrasion, ozone and weather resistant synthetic rubber.
5. Type 4SP: Hose is made of oil resistant synthetic rubber tube, reinforced with four high tensile steel spirals, and abrasion, ozone and weather resistant synthetic rubber according to EN856 4SP.
6. Type 4SH: Hose is made of oil resistant synthetic rubber tube, reinforced with four high tensile steel spirals, and abrasion, ozone and weather resistant synthetic rubber according to EN856 4SH.

Hose manufacturer : Semperit Technische Produkte Gesellschaft m.b.h., Wimpassing, Austria
 End fitting manufacturer : Tieffe S.p.A., Prado, Italy

Coupling designation : As per Tieffe catalogue page 7

Application/Limitation

Hose assemblies covered by this certificate are suitable for systems conveying oil or fuel oil with the following maximum allowable working pressures:

Size			Maximum working pressure (bar)					
DN	Dash	inch	1SN	1SNK	2SN	2SNK	4SP	4SH
5	-3	3/16	-	-	-	-	-	-
6	-4	1/4	225	290	400	450	-	-
8	-5	5/16	215	250	350	420	-	-
10	-6	3/8	180	230	330	385	445	-
12	-8	1/2	160	200	275	345	425	-
16	-10	5/8	130	150	250	290	350	-
19	-12	3/4	105	125	215	280	350	420
25	-16	1	88	110	165	200	320	380
31	-20	1 1/4	63	-	125	175	210	350
38	-24	1 1/2	50	-	90	-	185	290
51	-32	2	40	-	80	-	165	250

Type Examination documentation

Manufacturer's catalogue

Tieffe couplings catalogue

LAPI Fire test report numbers: 602.OIS0110/13, 603.OIS0110/13, 604.OIS0110/13, 605.OIS0110/13, 606.OIS0110/13, 607.OIS0110/13, 608.OIS0110/13, 609.OIS0110/13, 610.OIS0110/13, 683.OIS0110/13, 684.OIS0110/13, 685.OIS0110/13, 558.OIS0110/08, 559.OIS0110/08, 671.OIS0110/06, 672.OIS0110/06, 673.OIS0110/06, 1226.OIS0110/04, and 1227.OIS0110/04.

IHA fire test report numbers: 094-15, 095-15, 133-15, 134-15, 145-15, 147-15, 005-17, 003-17, 001-17, 061-17, 002-17, 004-17, 059-17, 045-17, 046-17,

Authorization letter from Semperit dated 2025-01-08

Tests carried out

Fire testing according to ISO 15540 and ISO 15541

Marking of product

As a minimum, the final product shall be marked with the following particulars:

- Manufacturer's name or trademark
- Specification or hose name
- Hose size and type designation
- Date of manufacture
- Mark of conformity according to Article 10 of the Council Directive 2014/90/EU

Mark of Conformity may only be affixed to the product when the corresponding certification related to production-control phase module (D, E, or F) is valid.