DNV·GL

Certificate No:
MEDB00005J3

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 Materials other than steel for pipes conveying oil or fuel oil

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) 2018/773,**
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 **2024-09-23**.

Issued at **Høvik** on **2019-09-24**

DNV GL local station:
Manchester

Approval Engineer:
Adel Samiei

Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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Job Id: **344.1-004108-2**
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Product description

Six types of hose assemblies:
Hose:
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.

Type 2SN: Hose is made of oil resistnat synthetic rubber tube, reinforced with two high tensile steel braids, and abrasion, ozone and weather resistant synthetic rubber according to EN853 2SN.

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.

Type 2SNK: Hose is made of oil resistnat synthetic rubber tube, reinforced with two high tensile steel braids, and abrasion, ozone and weather resistant synthetic rubber.

Type 4SP: Hose is made of oil resistnat synthetic rubber tube, reinforced with four high tensile steel spirals, and abrasion, ozone and weather resistant synthetic rubber according to EN856 4SP.

Type 4SH: Hose is made of oil resistnat 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, Austira
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 tested according to:

1) EN ISO 15540: Fire resistance of hose assemblies- Test methods
2) EN ISO 15541: Fire resistance of hose assemblies - Requirements for the test bench

Size			Maximum working pressure (bar)					
DN	Dash	inch	1SN	1SNK	2SN	2SNK	4SP	4SH
5	-3	3/16	-	-	415	-	-	-
6	-4	¼	225	290	400	450	-	-
8	-5	5/16	215	250	350	420	-	-
10	-6	3/8	180	230	330	385	445	-
12	-8	½	160	200	275	345	425	-
16	-10	5/8	130	150	250	290	350	-
19	-12	¾	105	125	215	280	350	420
25	-16	1	88	110	165	200	320	380
31	-20	1 ¼	63	100	125	175	210	350
38	-24	1 ½	50	-	90	-	185	290
51	-32	2	40	-	80	-	165	250

Type Examination documentation

Tests carried out

Fire testing according to ISO 15540 and ISO 15541

Marking of product

For traceability to this certificate, each hose is marked with:

- Manufacturer's name or trademark;
- Manufacturer's address;
- Date of manufacture (month/year);

- Designation type reference;
- Nominal diameter;
- Pressure rating;
- Temperature rating.