

EC TYPE EXAMINATION CERTIFICATE

MED-B-18043

In compliance with Module B of Council Directive 2014/90/EU of the European Parliament and included the Council Regulation (EU) 2018/773 of 15 May 2018, this certificate is issued to the manufacturer:

**Thrane & Thrane A/S
Lundtoftegaardsvej 93 D
DK-2800 Kgs. Lyngby, Denmark**

And applies to the product

**Fixed survival craft two-way VHF radio
SAILOR 6249 VHF survival craft**

This certificate attest that provisions according to type examination requirements given in

SOLAS 74 as amended, Regulation III/6, IV/14, X/3
IMO Res. MSC.36(63)-(1994 HSC code) 8
IMO Res. MSC.36(63)-(1994 HSC code) 14
IMO Res. MSC.97(73)-(2000 HSC code) 8
IMO Res. MSC.97(73)-(2000 HSC code) 14
IMO Res.A.694(17)
IMO Res.A.809(19)
ITU-R M.489-2 (10/95)

EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008)
ETSI EN 301 466 v1.2.1 (2015-12)

This certificate replaces certificate no MED-B-18043 Rev. 01, which is revoked.

This certificate loses its validity if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to and agreed upon with Nemko. Software changes and updates: - See Product description in the Annex. Should the specified regulations or standards be amended during the validity of this certificate, the products are to be re-approved prior to them being placed on board vessels to which the amended regulations or standards apply.

The attached Schedule of Approval forms part of this certificate. The certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Oslo, 2019-03-20

Date of expiry: 2023-12-06

Notified Body Id. no. 0470
Nemko AS
P.O. Box 73 Blindern
NO-0314 Oslo, Norway



Roy Uggerud
Nemko AS

Annex I to EC Type-Examination Certificate, No. MED-B-18043

SCHEDULE OF APPROVAL

Product description

The product covered by this certificate are marketed under the brand SAILOR 6249 VHF Survival Craft

The EC Type-Examination Certificate covers the products listed below.

Software version: 2.xx

Minor software changes are given version number as shown above, with a notification to Nemko. Major software changes, version number e.g. 3.xx, must be recorded and documentation must be provided to Nemko for review and acceptance before implementation.

Item no.	Type	Designation	Manufacturer	Option
1	TT-6249A	SAILOR 6249 VHF Survival Craft	Thrane & Thrane A/S	
2	TT-6202A	SAILOR 6202 Hand microphone	Thrane & Thrane A/S	
3	TT-6090A	SAILOR 6090 Power Converter	Thrane & Thrane A/S	

Note 1:

Power supplies are not a part of the VHF radio system.

Earlier wheel marked power supplies or any other 60945 approved power supplies are therefore allowed.

The SAILOR 6249 VHF Survival Craft has been tested by manufacturer with the following equipment not covered by this certificate.

Item no.	Type	Designation	Manufacturer	Option
1	TT-6207A	SAILOR 6207 Connection box	Thrane & Thrane A/S	
2	TT-6208A	SAILOR 6208 CU Connection box	Thrane & Thrane A/S	
3	TT-6209A	SAILOR 6209 Connection box	Thrane & Thrane A/S	
4	TT-6201A	SAILOR 6201 Handset	Thrane & Thrane A/S	
5	TT-6203A	SAILOR 6203 Handset WP	Thrane & Thrane A/S	
6	SAILOR N163S	SAILOR N163S Power Supply (AC/DC)	Thrane & Thrane A/S	
7	SAILOR N420	SAILOR N420 (DC/DC)	Thrane & Thrane A/S	
8	TT-6270A	SAILOR 6270 Loudspeaker	Thrane & Thrane A/S	

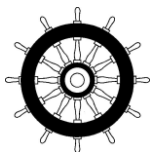
Type approval documentation

Document	Document no.	Rev.	doc. no
SAILOR 6249 VHF Survival Craft User Manual	98-133865-E	Sept. 30, 2013	001
Block diagram	6248/49	-	002
BOM, Product description, assembly drawings, photos, marketing material	-	-	003
Nemko Test report: EMC and Environmental tests EN 60945 (2002)	177602-4	July 07, 2011	004
Nemko Test report: - Parts of ETSI EN 301 466 V1.1.1 (2000-10)	177602/3	-	005
Nemko Test Report: Performance tests and requirements according to parts of: EN 60945 (2002), ETSI EN 301925, ETSI EN 300162, IEC 61097-3, IEC 61097-7, ETSI EN 301 466 V1.1.1 Dated 19.07.2011	177602-6	-	006
Evaluation of EN 301 466 V1.2.1			007

Product marking

To identify the equipment manufacturer, type designation, serial number, safe distance to magnetic compass, power consumption and/or supply voltage has to be applied at a clearly visible location.

Limitations/restrictions



"The Mark of Conformity" (i.e. the Wheel mark) 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 (Production Quality Assurance), E (Product Quality Assurance), or F (Product Verification), of Annex B of the Directive (MED) is fully complied with and controlled by a written inspection agreement with a notified body."

----- End of certificate -----