



TYPE APPROVAL CERTIFICATE
No. MMF049022XP

This is to certify that RINA Services S.p.A., recognised by the Ministry of Ecology, Sustainable Development and Energy of the French Administration with Decision N. DEVT1512701A on 9th July 2015 according to Article 42-2 of Decree No 84-810 of 30 August 1984 as amended, did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the requirements of the standard under Reference Standards
Cette déclaration certifie que RINA Services S.p. A., société reconnu par le Ministère Français de l'Écologie, du Développement durable et de l'Énergie avec Décision N. DEVT1512701A , 9 Juillet 2015 selon l'Article 42-2 de Décret Non. 84-810 de 30 Août 1984 tel que modifié, a vraiment entrepris les procédures d'approbation de type pour l'équipement identifié ci-dessous, qui révélait être en conformité avec les exigences du standard de Référence

<i>Description</i>	INFLATABLE LIFERAFT
<i>Type</i>	Ocean ISO & Ultralite Liferafts CANISTER (ISO) FOR 4-6-8-10-12 PERSONS VALISE (ISO) FOR 4-6-8-10-12 PERSONS CANISTER (ULTRALITE) FOR 6-8-10-12 PERSONS VALISE (ULTRALITE) FOR 6-8-10-12 PERSONS
<i>Applicant</i>	Ocean Safety Ltd. Saxon Wharf, Lower York Street SO14 5QF Southampton UNITED KINGDOM
<i>Manufacturer</i>	Ocean Safety Ltd.
<i>Place of manufacture</i>	Saxon Wharf, Lower York Street SO14 5QF Southampton UNITED KINGDOM
<i>Reference standards</i>	ISO 9650-1:2005, ISO 9650-3:2009; French Regulations, Division 240, Division 333
<i>Reference documents</i>	RINA Rules for construction, testing and installation of Life Saving Equipment

Issued in **Gdansk** on **October 12, 2022**. This Certificate is valid until **October 11, 2027**

RINA Services S.p.A.



This certificate consists of this page and 1 enclosure



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Ocean ISO & Ultralite Liferrafts
CANISTER (ISO) FOR 4-6-8-10-12 PERSONS
VALISE (ISO) FOR 4-6-8-10-12 PERSONS

Inflatable liferafts for pleasure yachts, model "OCEAN SAFETY ISO 9650 Type 1" with the following main characteristics:
Radeau de sauvetage pour bateaux de plaisance type "OCEAN SAFETY ISO 9650 Type 1" avec les suivantes caractéristiques techniques suivantes:

	Ocean Safety 4p	Ocean Safety 6p	Ocean Safety 8p	Ocean Safety 10p	Ocean Safety 12p
Shape	Square/Rectangular			Hexagonal	
Length/width	1640/1640 mm	2290/1680 mm	2484/2000 mm	2625/3030 mm	2850/3290 mm
Diameter of buoyancy tubes	210 mm	230 mm	250 mm	276 mm	290 mm
Volume of buoyancy tubes	0,396 m3	0.59 m3	0.782 m3	0,974 m3	1.17 m3
Floor area	1.488 mq	2.233 mq	2.976 mq	3.72 mq	4.64 mq
Working pressure	0.012 Mpa				
Inflation system	1 bottle 2.5 l CO ₂ : 1475 g Nitrogen: 94 g	1 bottle 5 l CO ₂ : 3000 g Nitrogen: 120 g	1 bottle 5 l CO ₂ : 3000 g Nitrogen: 120 g	1 bottle 7.5 l CO ₂ : 4680 g Nitrogen: 190 g	1 bottle 7.5 l CO ₂ : 4680 g Nitrogen: 190 g

AC = Dimension across Flats / *Dimension sur plats*
 AF = Dimension across corners / *Dimension dans les coins*

Maximum stowage height: 6 m.
Hauteur maximale de lancement: 6 mètres.

Liferafts are approved with canister or valise (both can be used in the Ultralite version) and with an equipment pack type inside the liferafts which can vary ISO pack 2 (available in the Ultralite version as well), ISO pack 1 and SOLAS B pack.

Les radeaux de sauvetage sont homologués avec bidon ou valise (les deux peuvent être utilisés dans la version Ultralite) et avec un type de pack d'équipement à l'intérieur des radeaux de sauvetage qui peut varier ISO pack 2 (également disponible dans la version Ultralite), ISO pack 1 et SOLAS B pack.

Fabrics used for the Construction of the Liferaft (Buoyancy and Floor):

Tissus utilisés pour la construction du radeau de survie (flottabilité et plancher):

1. PU Nylon Sandwich Fabric (Sandwich - Nylon 6 PU Laminate - Nylon 6 HT)

Fabrics used for the Construction of the Liferaft Canopy.

Tissus utilisés pour la construction de la voilure du radeau de survie

1. PU Coated Nylon Fabric (6 HT + PU) or,
2. Glowspot U1014 PU Coated Fabric



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Application and limitation of use / Application et limitation d'utilisation

The liferaft may be fitted on board of pleasure craft with maximum length up to 24 m in compliance with Standard ISO 9650-1 (type A).

En conformité avec la norme ISO 9650-1 (type A), le radeau de sauvetage peut être embarqué à bord de bateaux de plaisance d'une longueur inférieure ou égale à 24 mètres.

The compliance of each manufactured product with the prototype which underwent the type approval tests shall be stated by the Manufacturer.

La conformité de chaque produit fabriqué avec le prototype ayant subi les essais d'homologation de type, doit être constatée par le Constructeur.

Liferafts are to be marked or labelled in accordance with para 5.2.9.5 of ISO 9650-1;

Les radeaux de sauvetage doivent être marqués ou étiquetés conformément au par.5.2.9.5 of ISO 9650-1;

The validity of this Certificate ceases in the case amendments to the rules on the basis of which the Certificate was issued.

La validité de ce Certificat cesse en cas de modification des règles sur la base desquelles le Certificat a été délivré.

Liferafts servicing shall be carried out in accordance with para 5.2.11 of ISO 9650-1.

L'entretien des radeaux de sauvetage doit être effectué conformément au paragr.5.2.11 of ISO 9650-1.

Reference documents / Plans de conception

- General arrangement Liferaft ISO9650-1 4P, n° OS/ISO104P-00 issue by OCEAN SAFETY Ltd. and approved by RINA with n° PLFP/1987;
- General arrangement Liferaft ISO9650-1 6P, n° OS/ISO106P-00 issue by OCEAN SAFETY Ltd. and approved by RINA with n° PLFP/1988;
- General arrangement Liferaft ISO9650-1 8P, n° OS/ISO108P-00 issue by OCEAN SAFETY Ltd. and approved by RINA with n° PLFP/1989;
- General arrangement Liferaft ISO9650-1 10P, n° OS/ISO110P-00 issue by OCEAN SAFETY Ltd. and approved by RINA with n° PLFP/1985;
- General arrangement Liferaft ISO9650-1 12P, n° OS/ISO112P-00 issue by OCEAN SAFETY Ltd. and approved by RINA with n° PLFP/1986;
- Valise assembly ISO, drawing n° OS/ISOLRVAL-00 issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/547;
- ISO Liferaft Pictograms, drawing n° OS/ISOLRVAL-00 issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/548;
- Water Pocket, drawing n° OS/ISO/SAG/WATERPOCKET issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/549;
- Boarding Ramp, drawing n° OS/ISO/SAG/BOARDING-LADDER issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/550;
- Boarding Ladder, drawing n° OS/ISO/SAG/BOARDING-LADDER issue by OCEAN SAFETY Ltd. and approved by RINA with n° PLFP/1993;
- ISO Container - 10/12 Persons, drawing - Ocean ISO Container 151 issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/5990;
- ISO Container - 8 Persons, drawing - Ocean ISO Container 151 issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/5989;
- ISO Container - 6 Persons, drawing - Ocean ISO Container 151 issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/5987;
- ISO Container - 4 Persons, drawing - Ocean ISO Container 151 issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/5988;
- ISO Valise Assembly Ultralite, drawing n° VALISE-ISO-UL-GA issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/573;
- ISO 6-8 Ultralite container, drawing n° OS/ISO/Ultralite/6&8, issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/3661;
- ISO 12P Ultralite container, drawing n° OS/ISO/Ultralite/12 issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/3662;
- ISO 12P Ultralite container, drawing n° OS/ISO/Ultralite/10 issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/3663.
- Water pocket volume testing, issue by OCEAN SAFETY Ltd. and filled by RINA with n° HMFP/560;
- Pictogram Positions, drawing n° OS/ISOLRPIC-00H issue by OCEAN SAFETY Ltd. and filled by RINA with n° HMFP/561;
- ISO Liferaft Grab Bag, drawing n° OS/SAG/ISOGRAB-01 issue by OCEAN SAFETY Ltd. and filled by RINA with n° HMFP/562;
- Inner Boarding Aid, drawing n° OS/ISOIBA-00 issue by OCEAN SAFETY Ltd. and filled by RINA with n° HMFP/563;
- Ocean ISO - Ring Patch drawing n° FP0200-0400 issue by OCEAN SAFETY Ltd. and filled by RINA with n° PLFP/1991;
- Bottle Body - 2.5L, 5L, 7.5L drawing n° 13 052 188 7 issue by Eurocylinder System AG and filled by RINA with n° HMFP/565;
- Certificates of materials and components filed by RINA n° HMFP/568;
- Vacuum Bag Mk 2 issue by OCEAN SAFETY Ltd. and approved by RINA with n° HMFP/5983;
- Operating mechanism M-07-UM-GIST approved by RINA with n° HMFP/5986;
- Liferaft light AQLRL certify with no MED069519WS/001



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Test reports / Rapports d'essais de type

- Test reports filed by RINA n° HMFP/569 and HMFP/598, PLFP/478;
- Inspection report carried out by RYA and filled by RINA n° HMFP/572;
- Practical test carried out in compliance with ISO 9650-1, Par.6, witnessed by RINA and filled with n° HMFP/570;
- Testing of design changes filed by RINA n° HMFP/5985
- Static strength testing of glued lifeline patches to ISO 9650-1:2005 Par. 5.2.5.5 by SATRA and filled with n° PLFP/2021

Production survey requirements / Surveillance de production

The manufacturer shall institute a quality management system, to the Society's satisfaction, in order to ensure that all liferafts are produced with the same standard as the prototype approved by RINA and in order to comply with the requirements of Articles 333-2.10.

Le fabricant doit établir un système de gestion de la qualité jugé satisfaisant par la Société, de manière à s'assurer que tous les radeaux produits sont fabriqués en conformité avec le prototype approuvé par le RINA, et de manière à satisfaire les exigences de Article 333-2.10.

Gdansk October 12, 2022

