



TYPE APPROVAL CERTIFICATE
No. ELE150722CS

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	NAVIGATION LIGHTS
<i>Type</i>	SEA-DOG Line: 11.052.02 11.051.01 11.051.02 11.051.03 11.051.04 11.050.01 11.050.02 11.050.03 11.050.04 11.049.01 11.049.02 11.048.01 11.048.02
<i>Applicant</i>	OSCOLATI S.r.l. VIA DELLA MOSCOVA 3 20121 Milano (MI) ITALY
<i>Manufacturer</i>	OSCOLATI S.r.l.
<i>Place of manufacture</i>	VIA PACINOTTI 12 20054 Segrate (MI) ITALY
<i>Reference standards</i>	Convention of International Regulations for preventing collisions at sea, 1972 _ed. 2003 and additional tests according to RINA Rules Part C, Ch.3, sec.6, table 1

Issued in **Genoa** on **April 29, 2022**. *This Certificate is valid until* **April 28, 2027**

RINA Services S.p.A.
Luigi Benedetti

This certificate consists of this page and 1 enclosure

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SEA-DOG Line:

11.052.02

11.051.01

11.051.02

11.051.03

11.051.04

11.050.01

11.050.02

11.050.03

11.050.04

11.049.01

11.049.02

11.048.01

11.048.02

Product Description

Navigation lights SEA-DOG Line , for recreational craft having length less than 12 meters

Type	Model	Color	Lamp	Lens	Body	Base	Visibility
Port Side	11.050.01	Red	LED 12Vdc	PMMA	Polycarbonate	AISI 316	112° - 1 miles
Starboard Side	11.050.02	Green	LED 12Vdc	PMMA	Polycarbonate	AISI 316	112° - 1 miles
Bicolour	11.050.03	R + G	LED 12Vdc	PMMA	Polycarbonate	AISI 316	225° - 2 miles
Masterhead	11.050.04	White	LED 12Vdc	PMMA	Polycarbonate	AISI 316	225° - 2 miles
Port Side	11.048.01	Red	LED 12Vdc	PMMA	Polycarbonate	AISI 316	112° - 1 miles
Starboard Side	11.048.02	Green	LED 12Vdc	PMMA	Polycarbonate	AISI 316	112° - 1 miles

Navigation lights SEA-DOG Line , for recreational craft having length less than 20 meters

Type	Model	Color	Lamp	Lens	Body	Base	Visibility
Port Side	11.051.01	Red	LED 12/24Vdc	PMMA	Polycarbonate	AISI 316	112,5° - 2 miles
Starboard Side	11.051.02	Green	LED 12/24Vdc	PMMA	Polycarbonate	AISI 316	112,5° - 2 miles
Bicolour	11.051.03	R + G	LED 12/24Vdc	PMMA	Polycarbonate	AISI 316	225° - 3 miles
Masterhead	11.051.04	White	LED 12/24Vdc	PMMA	Polycarbonate	AISI 316	225° - 3 miles
Port Side	11.049.01	Red	LED 12/24Vdc	PMMA	Polycarbonate	AISI 316	112,5° - 2 miles
Starboard Side	11.049.02	Green	LED 12/24Vdc	PMMA	Polycarbonate	AISI 316	112,5° - 2 miles
Stern	11.052.02	White	LED 12Vdc	PMMA	Polycarbonate	AISI 316	135° - 2 miles

Max supply voltage variation allowed: $\pm 10\%$ of rated voltage.

Reference documentation

Type Approval Certificate n. ELE253816CS001/ELE199511CS002/ELE324512CS008
TAO-APP compiled 11/03/2022
RINA Offer n.2022/8160 dated 13/04/22
Dwg n. 11.048.01-11.049.01
Dwg n. 11.048.02-11.049.02
Dwg n. 11.050.01-11.051.01
Dwg n. 11.050.02-11.051.02
Dwg n. 11.050.03-11.051.03
Dwg n. 11.052.02

Test reports

IMANNA docs . n. 18774-1A (Oct 11 / 2018); n. 19067-2 (Apr 21 / 2011); n. 18774-2A (Oct 11 / 2018),
n. 19067-2A (Sep 17 / 2018)
docs . n.18774-3 (May 14, 2010) , n. 19067-1 (April 21, 2011), n. 19067-1A (Sept 17, 2018),
n. 19082-1 (Sept 28, 2011)

ECELAB report n.0174/EU19 (06/03/2019) - ECELAB report n.0174/EU19 (06/03/2019)
TESLAB doc. n. 10C200F (14/04/2011)
HA140384-SACE (21/11/2017)

General remarks:

Requirements on Para 1.4 of TESLAB Test Report n. 10C200F are to be satisfied before of delivery on board .
Navigation light to be installed according to COLREG 72 requirements as well as the manufacturer instructions.

Genoa April 22, 2022