



# TYPE APPROVAL CERTIFICATE

N. ELE253816CS002



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

<b>Description</b>	<b>Navigation Lights</b>
<b>Type</b>	<b>SEA-DOG LINE: 1105101, 1105102, 1105103, 1104901, 1104902</b>
<b>Applicant</b>	<b>Osculati SpA Via Pacinotti, 12 20090 Segrate (MI) Italy</b>
<b>Manufacturer</b>	<b>Osculati SpA Via Pacinotti, 12 20090 Segrate (MI) Italy</b>
<b>Reference Standards</b>	<b>International Regulations for preventing collision at sea, 1972. (reference to Italian Law 27<sup>th</sup> December 1977 n. 1085) and additional tests according to RINA Rules Part C, Ch. 3, Sec. 6, table 1.</b>

Issued in Genova on August 11, 2016

This certificate is valid until August 11, 2021

RINA Services S.p.A.

*Francesco Sciacca*

Genova, August 11 2016

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## Description

**LED Navigation lights SEA-DOG Line for recreational craft having length less than 20 metres**

Type	Model	Color	Power supply	Lens	Body	Base	Visibility
Port Side	1105101	Red	12Vdc	PMMA	AISI 316	AISI 316	112° 30' / 2 miles
Starboard Side	1105102	Green	12Vdc	PMMA	AISI 316	AISI 316	112° 30' / 2 miles
Bicolour	1105103	R + G	12Vdc	PMMA	AISI 316	AISI 316	225° / 2 miles
Port Side	1104901	Red	12Vdc	PMMA	AISI 316	AISI 316	112° 30' / 2 miles
Starboard Side	1104902	Green	12Vdc	PMMA	AISI 316	AISI 316	112° 30' / 2 miles

**Max supply voltage variation allowed:  $\pm 10\%$  of rated power supply voltage. (\*)**

## Reference documentation

Dwg n. OSC.051-03 (2 shts) Dwg n. OSC.049--01/02 (4 shts)

## Test reports

*IMANNA* doc. n. 18774-1 (May 14 / 2010); n. 18774-2 (May 14 / 2010); n. 18774-2 (May 14 / 2010)  
doc. n. 19067-1 (April 21, 2011), n. 19067-2 (April 21, 2011)

*TESLAB* doc. n. 10C200F (14/04/2011)

## General remarks

Requirements on Para 1.4 of TESLAB Test Report n. 10C200F are to be satisfied before of delivery on board .

Navigation lights to be installed according to the COLREG 72 requirements as well as the manufacturer instructions.

(\*) It shall be verified that navigation lights power supply source matches with the admissible lamp power supply voltage variations.