



TYPE APPROVAL CERTIFICATE



N. ELE280919CS

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

<i>Description</i>	Navigation lights
<i>Type</i>	ORSA LED Series: L7680560, L7680580, L7680550, L7680530 L7674560, L7674580, L7674550, L7674530
<i>Applicant</i>	TREM Srl Via Friuli, 5 40060 Osteria Grande – Bologna Italy
<i>Manufacturer</i>	TREM SRL Via Friuli, 5 40060 Osteria Grande – Bologna Italy
<i>Testing Standards</i>	Convention on the International Regulation for Preventing Collision at Sea. (COLREG 1972) - Ref. to Italian Law 27 th December 1977 n. 1085

Issued in Genova on October 16, 2019

This certificate is valid until November 16, 2024

RINA Service S.p.A.

Giovanni Carratino



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Product Description:

Navigation lights for recreational craft having length less than 20 meters

Type	Model	Light Color	LED Lamp Supply P / V	H. Sector		Body	Lens	Protection (IP)	Visibility
Starboard Side	L7680550	Green	2.2W 12/24Vdc	112.5°		Polycarb. Black	Plexiglas 8N	IP X6	2 miles
Starboard Side	L7674550	Green	2.2W 12/24Vdc	112.5°		Polycarb. White	Plexiglas 8N	IP X6	2 miles
Port Side	L7680530	Red	2.2W 12/24Vdc	112.5°		Polycarb. Black	Plexiglas 8N	IP X6	2 miles
Port Side	L7674530	Red	2.2W 12/24Vdc	112.5°		Polycarb. White	Plexiglas 8N	IP X6	2 miles
Stern	L7680580	White	2.2W 12/24Vdc	135°		Polycarb. Black	Plexiglas 8N	IP X6	2 miles
Stern	L7674580	White	2.2W 12/24Vdc	135°		Polycarb. White	Plexiglas 8N	IP X6	2 miles
Masthead	L7680560	White	2.2W 12/24Vdc	225°		Polycarb. Black	Plexiglas 8N	IP X6	3 miles
Masthead	L7674560	White	2.2W 12/24Vdc	225°		Polycarb. White	Plexiglas 8N	IP X6	3 miles

Operating voltages: 12Vdc + 30% -25% rated voltage
24Vdc + 30% -25% rated voltage

TREM data sheets:

RINA endorsed documents :

“Orsa Portboard”, “ Orsa Starboard”, “ORSA Stern”, “Orsa Masthead”, (25/11/2014)

QUALILAB test reports:

859-QL14-R03 ver. 0, 859-QL14-R04 ver.0 , 959-QL14-R02 ver. 0, 859-QL14-R01 ver.0

TESLAB test report:

n. 144074F (22/10/2014)

Remarks

Navigation lights to be used and installed in accordance with COLREG Requirements and Manufacturer instructions.