

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:**That the Lifebuoys**

with type designation(s)
Taurus

Issued to

TR.EM SRL
Osteria Grande BO, Italy

is found to comply with the requirements in the following Regulations/Standards:

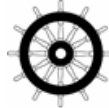
Annex A.1, item No. A.1/1.1 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation III/4, III/7, III/34 & X/3, LSA Code, 2000 HSC Code 8

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-05-15**.

Issued at **Høvik** on **2016-05-16**

DNV GL local station:
Venice



for **DNV GL AS**

Approval Engineer:
Tessa Biever

Notified Body
No.: **0575**

Vidar Dolonen
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

Job Id: **344.1-000541-3**
Certificate No: **MEDB000015W**

Product description

"Taurus" Art. N 14 35060 lifebuoy:

Weight	3.1 kg
Diameter, inner/outer:	450/750 mm
Max drop height:	50 m
Buoyancy material:	Double component polyurethane "Duanapol C 035 HA" foam OR "Deltanat SWE + Deltapol 55904/BO" by Deltapor Spa. Italy.
Cover material:	High-density "Rigidex HD 5502 GA" polyethylene.

Application/Limitation

The lifebuoy does not have sufficient mass to operate the quick-release arrangement provided for self-activated smoke signals and self-igniting lights.

Self-igniting light and retro-reflective material used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

The design assessment is based on IMO Res. MSC 48(66) as amended by IMO Res. MSC 207(81), IMO Res. MSC 218(82) and IMO Res. MSC 272(85).

Each lifebuoy shall be marked in block capitals of the Roman alphabet with the name and port of registry of the ship on which it is carried.

Production and installation testing shall be carried out according to IMO Res. MSC. 81(70), Part 2, Ch.3.

Type Examination documentation

Basis for approval:

"Taurus" lifebuoy ring technical file, dated	1999-12-07
Letter/product description from TR. EM SRL dated	2001-01-11

Marking of product

The product is to be indelibly marked with name of manufacturer, type designation, dimensions and date of manufacture. The marking shall be according to LSA Code, Item 1.2.2.9.