

MRA Mutual Recognition Agreement on Marine Equipment EC-US
EC TYPE-EXAMINATION CERTIFICATE
(Module B)

Application Of:

Council Directive 96/98/EC of 20 December 1996 On Marine Equipment (MED) as modified by Commission Directives 98/85/EC, 2001/53/EC and **as amended by Commission Directive 2002/75/EC and 2008/67/EC last amendment by DIRECTIVE 2009/26/EC of 6th April 2009**

Certificate N° 0987/MED-B/374

This Certificate consists of 2 pages

This is to certify that the product

PAVIMENTO ARTIGO MARINE / Rubber Flooring Artigo Marine

Typology: Granito, Uni, Terrazzo, Zeus, BS

(Thickness from 2,0 mm. to 4,0 mm.)

MED annex A.1 item: A.1/3.18 (c)

Product type:

SURFACE MATERIALS AND FLOOR COVERINGS WITH LOW FLAME-SPREAD
CHARACTERISTICS: FLOOR COVERINGS

Supplied / Manufactured by:

ARTIGO S.p.a.

Loc. Carpeneto - 17014 CAIRO MONTENOTTE (SV) - ITALY

Complies with the requirements in the following Regulations/Standards:

Annex B, Module B in the above Directive and as applicable:

- SOLAS 74 as amended Reg II-2/3.8, II-2/34.3, II-2/34.7, II-2/49.1, II-2/49.2, Reg X/3 (HSC), Reg II-2/3.29, IMO Resolution MSC 97 (73) 2000 HSC Code 7.4.3.4, 7.4.3.5 , 7.4.3.6
- IMO Res A.653 (16), IMO Res MSC. 61(67), Annex 1 parts 2 - 5 and ISO 1716 (1973) and where applicable Annex 2.2.2 for material not generating excessive quantities of smoke and toxic products in fire
- FTP Code MSC 61 (67) Annex 1 , IMO MSC/Circ 916 as Integrated by IMO MSC/Circ 1008 and where applicable IMO MSC/Circ 1004

Note: the present document is the renovation of the Module B (N° 070 rev.1 issued on 15/10/2008) effected on demand of the Sponsor. The manufactured declared that the production cycle and the composition have not changed.

This product has been assigned a U.S. Coast Guard Module B number N° 164.117/EC0987/MED374 to note type approval to Module B only as it pertains to obtaining US Coast Guard approval as allowed by the "Agreement between the European Community for Marine Equipment" signed February 27th, 2004.

Further details of the product and conditions for certification are given overleaf



The Manufacturer is allowed to affix the Mark of conformity according to the Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the Module D or E or F of Annex B in the same Directive is fully complied with.

Prato, 10/07/2011

The Certification Manager

Dr. Massimo Borsini

The Technical Director

Dr. Luca Ermini

This certificate is valid until 09/07/2016

This Certificate is issued under the Authority of Ministero delle Infrastrutture e dei Trasporti Comando Generale del Corpo delle Capitanerie di Porto according to Decreto Ministeriale 26 October 2004 N° 825 and Decreto Ministeriale 1 February 2008 N° 98/2008.

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Product description:

Appearance: elastomeric slabs (various colours).
 Technical data of the material:
 Composition: 23% Rubber (Type SBR) - 67% Fillers (Caoline, silica, Al (OH)₃, Mg (OH)₂) - 10% Technical additives.
 Thickness: range 2,0 < thickness ≤ 4,0 mm.
 Density: 1.7 g/cm³.
 Material with different sides.
 Side in view: the finished surface.
 Use: Laying glued on non-metallic non-combustible and on metallic supports with epoxy glue, 300÷400 g/m²

Applications/Limitations

- The material fulfils the requirements of **FTP Code MSC 61(67) Annex 1, Part 2 and 5.**
- Calorific value to be less than 45 MJ/m² when required.

The compliance relative to the Calorific value is limited to the thickness of 2 mm.

The compliance is valid for:

1. all the colours, having tested the darkest colour (black) as well.
2. for metallic substrates having minimum thickness of 0.75 mm (IMO MSC/Circ. 1004)
3. for non metallic non combustible substrates having density not less than 0.75 X (Density of the substrate used) = 0.75x800 kg/m³ = 600 kg/m³ (IMO MSC/Circ. 1004) or
4. for non metallic non combustible substrates having thickness not less than 6 mm (IMO MSC/Circ. 1004)

The compliance is valid moreover provided the composition of the material remains the same as the one declared.

The compliance is to be held valid also for any thickness from a minimum of 2 (two) mm to a maximum of 4 (four) mm, provided that:

1. The material is homogeneous on its whole thickness
2. Its density is constant regardless of its actual thickness.

Note: in support of this extension, orientation tests according to **FTP Code MSC 61(67) Annex 1, Part 2 and 5** have been effected on the material in object, thickness 2mm (Ref. Lab. 1308/08) and 4 mm, (Ref. Lab 1309/08), both in black colour.

The above tests show compliance with the applicable requirement, therefore the extension to all the colours is validated.

Type approval documentation

| Product | Test Report | Issued by |
|---|--|---|
| PAVIMENTO ARTIGO MARINE Rubber Flooring Artigo Marine Typology: Granito, Uni, Terrazzo, Zeus, BS (Thickness 2,0 mm) (Thickness 4,0 mm) | <ul style="list-style-type: none"> • 704.4IMO080/06 - Smoke and Toxicity test in accordance to FTP Code MSC 61 (67) Annex 1 part 2, IMO MSC/Circ 916 as Integrated by IMO MSC/Circ 1008 • 704.4IMO100/06 - Surface flammability test in accordance to FTP Code MSC 61 (67) Annex 1 part 5 Imo Res A. 653 (16), and IMO MSC/Circ 1004 • 705.4IMO080/06 - Smoke and Toxicity test in accordance to FTP Code MSC 61 (67) Annex 1 part 2, IMO MSC/Circ 916 as Integrated by IMO MSC/Circ 1008 • 705.4IMO100/06 - Surface flammability test in accordance to FTP Code MSC 61 (67) Annex 1 part 5 Imo Res A. 653 (16), and IMO MSC/Circ 1004 | <p>LAPI Laboratorio Prevenzione Incendi SpA - Italy - Notified Testing Body N° 0987 EN 17025 Accredited Laboratory IMO Testing Laboratory FP 039</p> |

===== **End of Document** =====

