

EC Type Examination (Module B) Certificate

USCG-EU MRA

This is to certify that:

LLOYD'S REGISTER Marine Deutschland GmbH (LRMD), designated as a "notified body" based on the notification of the Federal Maritime and Hydrographic Agency of Germany, did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and the valid Commission Implementing Regulation (EU) in force indicating design, construction and performance requirements and testing standards for marine equipment, subject to the conditions below and the attached Schedule which also forms part of this Certificate.

Manufacturer **The Amtico Company Limited**

Address	Kingfield Road, Coventry, CV6 5AA, United Kingdom
Reference	Marine Equipment Directive (MED) 2014/90/EU, Regulation (EU) 2025/1533
Regulation Item (No. & Item Designation)	MED/3.18c Surface Materials And Floor Coverings With Low Flame-Spread Characteristics: Floor Coverings
Product Type	MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS AND NOT CAPABLE OF PRODUCING EXCESSIVE SMOKE & TOXIC PRODUCTS OF COMBUSTION
Product Description	Floor Covering Material – Type: "Amtico Marine (08-18)" (2mm thick and 2.85kg/m ² mass per unit area), PVC based multi-layer heterogeneous floor covering tile
Specified Standard	IMO Res. MSC.307(88) – (2010 FTP Code) Annex 1, Part 2 and Part 5
	Type approval requirements SOLAS 74 Reg.II-2/3, 2/5, 2/6, X/3.
	Carriage and performance requirements SOLAS 74 Reg.II-2/3, 2/5, 2/6, IMO Res.MSC.36(63)-(1994 HSCCode) 7, IMO Res.MSC.97(73)-(2000 HSCCode) 7, IMOMSC/Circ.1120.
Row of the Regulation Item	1 of 1
Trade Name	"Amtico Marine (08-18)"

Lloyd's Register Marine Deutschland
GmbH, Willy-Brandt-Straße 59-65, 20457
Hamburg, Germany.
A member of the Lloyd's Register group

Chandrashekhar Aher

Team Lead - Fire and Safety
For and on behalf of Lloyd's Register Marine
Deutschland GmbH (2923)

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The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to and agreed with the notified body named on this certificate. The manufacturer should notify LRMD of any modification or changes to the equipment in order to obtain a valid Certificate.

This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed on 27 February 2004 and amended by Decision No.1/2023 26 May 2023 according to U.S. Coast Guard approval category number: 164.117

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production Module certificate (Module D, E or F).

Should the specified regulations or standards be amended during the period of validity of this certificate, the product is to be re-approved prior being placed on the market and on board vessels to which the amended regulations or standards apply.

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-control phase module (D, E, or F) of ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

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Certificate No: LR23197739MB-09
Issue Date: 15/10/2025
Expiry Date: 09/10/2028
Reference: GTSO/FIRE/TA/CA/TSO/25-045676/PRJ111005051626

ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR23197739MB-09

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

This Certificate Supersedes and is an Amendment of Certificate No. LR23197739MB-08

Approval Documentation**Test Reports**

Interscience Fire Laboratory, Haslar Road, Gosport, Hampshire, PO12 2AG, WA1 2DS, United Kingdom (UK), Fire Test Reports No. ICL/H18/9406 Rev 1 and No. ICL/H18/9694 Rev 1 both dated 30th August 2018, No. ICL/H19/10513 Rev 1 and No. ICL/H19/10514 Rev 1 both dated 5th March 2019, No. ICL/H19/11020 dated 25th June 2019 and No. ICL/H19/11418 dated 2nd September 2019. Interscience Fire Laboratory, Haslar Road, Gosport, Hampshire, PO12 2AG, WA1 2DS, United Kingdom (UK), Fire Test Reports No. ICL/H19/11855 and No. ICL/H19/11857 both dated 27th January 2020 and No. ICL/H20/12165 Rev 1 and No. ICL/H20/12166 Rev 1 both dated 18th September 2020.

Interscience Fire Laboratory, Haslar Road, Gosport, Hampshire, PO12 2AG, WA1 2DS, United Kingdom (UK), Fire Test Reports No. ICL/H20/13039 and No. ICL/H20/13060 both dated 23rd November 2020.

Interscience Fire Laboratory, Haslar Road, Gosport, Hampshire, PO12 2AG, WA1 2DS, United Kingdom (UK), Fire Test Reports No. ICL/H20/13292 Rev 1 and No. ICL/H20/13293 Rev 1 both dated 22nd November 2021.

Interscience Fire Laboratory, Haslar Road, Gosport, Hampshire, PO12 2AG, WA1 2DS, United Kingdom (UK), Fire Test Reports No. ICL/H23/15746 dated 12th May 2023, No. ICL/H23/15750 dated 17th May 2023 and No. ICL/H23/15753 dated 24th May 2023.

Interscience Fire Laboratory, Haslar Road, Gosport, Hampshire, PO12 2AG, WA1 2DS, United Kingdom (UK), Fire Test Report No. ICL/H25/17479.

Interscience Fire Laboratory, Haslar Road, Gosport, Hampshire, PO12 2AG, WA1 2DS, United Kingdom (UK), Fire Test Report No. ICL/H23/15750 dated 17th May 2023, No. ICL/H25/17855 dated 12th September 2025 and No. ICL/H25/17856 dated 12th September 2025.

Conditions of Certification

1. When applied to a non-combustible substrate or on a metallic substrate.
2. PVC based floor covering 'Amtico Marine (08-18)' consisting of: urethane acrylate surface coating applied at rate 12g/m², followed by one layer of 'Clear Wear Layer (1)' plasticised PVC film, thickness 150µm, manufactured by The Amtico Co. Ltd., followed by one layer of 'Clear Wear Layer (2)' plasticised PVC film, thickness 370µm, manufactured by The Amtico Co. Ltd., followed by one layer of print design film, thickness 75µm, followed by one layer of filled core 'Marine Core' filled plasticised PVC thickness 760µm, manufactured by The Amtico Co. Ltd., followed by one layer of filled backing 'Marine Blueback' filled plasticised PVC thickness 500µm manufactured by The Amtico Co. Ltd
3. Alternative heat stabiliser permitted as tested in Fire Test Reports No. No. ICL/H19/11020 and ICL/H19/11418. Limited to maximum as tested formula change.
4. Alternative additive permitted as tested in Fire Test Reports No. ICL/H20/13039 and ICL/H20/13060 Limited to maximum as tested formula change.

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5. Alternative additive of 5% metallic coated mica (inert filler) in the wear layer permitted as tested in fire test report no. ICL/H25/17479.
6. Alternative antimicrobial additive permitted as tested in Fire Test Reports No. ICL/H23/15746 dated 12th May 2023, No. ICL/H23/15750 dated 17th May 2023 and No. ICL/H23/15753 dated 24th May 2023.
7. Alternative PVC resins permitted as tested in Fire Test Reports No. ICL/H23/15746 dated 12th May 2023 and No. ICL/H23/15750 dated 17th May 2023, No. ICL/H25/17855 dated 12th September 2025 and No. ICL/H25/17856 dated 12th September 2025.
8. Alternative plasticisers permitted as tested in Fire Test Reports No. ICL/H20/13292, No. ICL/H20/13293 and No. ICL/H23/15753 as well as equivalent plasticisers list held in LR's confidential technical files.
9. Bonded to a non-combustible substrate with adhesive 'Amtico SF' at rate up to 3m²/kg or adhesive 'Amtico HTE' at rate up to 2.5m²/kg.
10. Bonded to a metallic substrate with adhesive 'Amtico Universal 2-Part Adhesive' at rate up to 2.5m²/kg or adhesive 'Mapei MS 4 LVT' at rate up to 2.5m²/kg.
11. Total thickness and weight of flooring after manufacturing process complete: 2.0mm, weight 2.85kg/m².
12. Any adhesive used, other than the ones used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5 and to be approved according to the relevant statutory regulations
13. Composition and application of individual floor covering components including any fire retardants, heat stabilisers and adhesives to be maintained in production in accordance with tested composition formula. Their method of application/installation onboard must be in full compliance with manufacturer's instructions, to ensure the final product assembly is of the same specification and capable of providing at least the same fire performance as the tested and approved prototype.
14. The Certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products are fully compliant with the relevant statutory regulations as applicable and are designed, manufactured, and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.
15. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
16. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.
17. The manufacturer shall keep a copy of the EC type-examination certificate, its annexes, and additions together with the technical documentation at the disposal of the national authorities for at least 10 years after the wheel mark has been affixed on the last product manufactured and in no case for a period shorter than the expected life of the marine equipment concerned.

Note

Fire retardants are used as part of the filled core layer and filled backing layer.

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Place of Production

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For and on behalf of Lloyd's Register Marine Deutschland
LRMD EC Distinguishing No. 2923

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