

## Certificate Of Fire Approval

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

<b>Manufacturer</b>	<b>The Amtico Company Limited</b>
<b>Address</b>	Kingfield Road, Coventry, CV6 5AA, United Kingdom
<b>Type</b>	Material Having Low Flame Spread Characteristics & Not Capable Of Producing Excessive Quantities Of Smoke & Toxic Products Of Combustion
<b>Description</b>	Floor Covering Material – Type: “Amtico Marine (08-18)” (2mm thick and 2.85kg/m <sup>2</sup> mass per unit area), PVC based multi-layer heterogeneous floor covering tile
<b>Trade Name</b>	“Amtico Marine (08-18)”
<b>Specified Standard</b>	IMO Res. MSC.307(88) – (2010 FTP Code), Annex 1 Part 2 and Part 5

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register Marine Polska sp. z o. o. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Al Zwycięstwa 13a, Gdańsk, 80-219, Poland

**Marta Walk**

Senior Surveyor to Lloyd's Register Marine  
Polska sp. z o. o.  
A member of the Lloyd's Register group

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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR23197738SF**

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

This Certificate is an Amendment and a Renewal of Certificate Number SAS F1801326-05.

**APPROVAL DOCUMENTATION**

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.

**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/m<sup>2</sup>, 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.
5. 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.
6. 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.



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7. 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.
8. Bonded to a non-combustible substrate with adhesive 'Amtico SF' at rate up to 3m<sup>2</sup>/kg or adhesive 'Amtico HTE' at rate up to 2.5m<sup>2</sup>/kg.
9. Bonded to a metallic substrate with adhesive 'Amtico Universal 2-Part Adhesive' at rate up to 2.5m<sup>2</sup>/kg or adhesive 'Mapei MS 4 LVT' at rate up to 2.5m<sup>2</sup>/kg.
10. Total thickness and weight of flooring after manufacturing process complete: 2.0mm, weight 2.85kg/m<sup>2</sup>.
11. 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.
12. 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.
13. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.
14. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products, whether manufactured by themselves or their licensee manufacturers, if agreed by Lloyd's Register, are fully compliant with the relevant statutory regulations and Lloyd's Register Class rules as applicable and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.

**NOTE**

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

**PLACE OF PRODUCTION**

The Amtico Company Limited  
Kingfield Road  
Coventry CV6 5AA  
United Kingdom (UK)

*M. Walk*

Marta Walk  
Senior Specialist, Fire & Safety  
Statutory Discipline Team, Marine & Offshore  
Lloyd's Register EMEA

**Supplementary Type Approval Terms and Conditions**

*This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s)*

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