

## 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>	Amtico International
<b>Address</b>	Kingfield Road Coventry, CV6 5AA United Kingdom (UK)
<b>Type</b>	<b>MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS &amp; NOT CAPABLE OF PRODUCING EXCESSIVE SMOKE &amp; TOXIC PRODUCTS OF COMBUSTION</b>
<b>Description</b>	Fire-Resisting Material - Type "Amtico Marine (01-14)"
<b>Specified Standard</b>	IMO Res. MSC.61 (67) - (FTP Code) Annex 1 Part 2 & Part 5 and Annex 2 IMO MSC/Circ.1120 IMO Res. MSC.307(88) - (2010 FTP Code) Annex 1 Part 2 & Part 5 and Annex 2 IMO Res. MSC.307(88) - (2010 FTP Code) Section 8

**The attached Design Appraisal Document forms 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.**

Date of issue 27 June 2017 Expiry date 1 May 2019

Certificate No. SAS F140112/M3

Signed



Sheet No 1 of 3

Name J. M. Evans  
Surveyor to Lloyd's Register EMEA  
A Member of the Lloyd's Register Group

**Note:**

**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 of any modification or changes to the equipment in order to obtain a valid Certificate.**

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



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## DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
27 June 2017	SOUTSO/SFS/TA/JE/WP28610238

### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F140112/M3

This Design Appraisal Document forms part of the Certificate

#### APPROVAL DOCUMENTATION

- Interscience Fire Laboratory, Haslar Road, Gosport, Hampshire, PO12 2AG, United Kingdom, Fire Test Reports No. ICL/H13/2979 Rev 2 dated 28<sup>th</sup> February 2014 and No. ICL/H13/2980 Rev 2 dated 28<sup>th</sup> February 2014
- Exova Warringtonfire Frankfurt, Industriepark Höchst C369, Frankfurt am Main D-65926, Germany, Fire Test Reports No. 2011-1724 dated 6<sup>th</sup> July 2011 and No. 2011-1726 dated 6<sup>th</sup> July 2011
- VTT Technical Research Centre of Finland, Espoo, Finland, Fire Test Report No. VTT-S-10957-08, dated 12<sup>th</sup> December 2008
- Warrington Fire Research, Holmesfield Road, Warrington, WA1 2DS, United Kingdom, Fire Test Report No. 120603 dated 21<sup>st</sup> August 2001
- Bodycote Warringtonfire, Holmesfield Road, Warrington, WA1 2DS, United Kingdom, Fire Test Reports No. 180571 dated 20<sup>th</sup> March 2009 and No. 180572 dated 6<sup>th</sup> March 2009
- Exova Warringtonfire, Holmesfield Road, Warrington, WA1 2DS, United Kingdom, Fire Test Report No. 351540 dated 5<sup>th</sup> May 2015

#### CONDITIONS OF CERTIFICATION

1. When applied to a non-combustible substrate
2. PVC based floor covering consisting of: urethane acrylic surface coating roller applied at a rate of 12g/m<sup>2</sup>, plasticised PVC clear wear layer 'Marine Clear Wear-layer' 520µm thick, print film layer 'SW2504' 75µm thick, filled plasticised PVC core layer 'Marine Filled Core Layer' 760µm thick, filled backing layer 'Marine Filled Backing Layer' 500µm thick
3. Total thickness of floor covering 2.0mm, total weight 2.55kg/m<sup>2</sup>
4. Floor covering adhered to substrate with 'Amtico Universal 2-Part' polyurethane adhesive by trowel at application rate 2.0 – 2.5m<sup>2</sup>/kg. The following adhesives may also be used: 'Amtico PS Adhesive', 'Amtico HT', 'Amtico SF Plus Adhesive', 'Kiilto M1000' adhesive, 'SF Adhesive'
5. Composition of individual coatings and adhesives, including any fire retardants, to be maintained in production in accordance with originally tested composition formula
6. 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



Lloyd's  
Register

## Lloyd's Register EMEA

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#### PLACE OF PRODUCTION

F Ball  
Churnetside Business Park  
Station Road  
Cheddleton, Leek  
Staffordshire, ST13 7RS  
United Kingdom (UK)



Jessica Evans  
Senior Specialist  
Statutory Fire & Safety  
Southampton Technical Support Office, 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).*