

Notified Body No. 1121

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND CERTIFICATE OF TYPE APPROVAL

(EC Certificate of Type Examination-96/98/EC Directive Module B)

Certificate Number: 164.117/1121/WCL MED0364TE

Applicant:-**Forbo Flooring UK Limited** Manufacturer: - Forbo Flooring UK

Limited

Address:-High Holborn Road, Ripley, High Holborn Road, Ripley, Derbyshire, DE5 3NT. UK

Derbyshire, DE5 3NT. UK

This is to certify that the applicant has submitted details of a Floor covering with Low flame-spread characteristics known and designated as:-

"Flotex FR"

having the technical specification given in the schedule of equipment on this certificate which has been tested and complies with the recommended criteria given in the following methods, published by the International Maritime Organisation, and which are contained in the relevant parts of the International Code for Application of Fire Test Procedures (FTP Code) namely:-

- IMO Resolution MSC307 (88). Annex 1 Part 5
- IMO Resolution MSC307 (88). Annex 1 Part 2
- MSC/Circ.1120, 2 June 2004

This certificate is issued on behalf of the Maritime and Coastguard Agency (MCA). The system complies with the relevant international testing standards under which legislation (The Merchant Shipping Marine Equipment) Regulations 1999 and also the Marine Equipment Directive 96/98 amended by Directive 98/95, Directive 2001/53 and Directive 2002/75 the certificate is issued.

The manufacturer is allowed to affix the U.S. Coast Guard approval number 164.117/1121/WCL MED0364TE as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004.

P Duggan

Manager

Warrington Certification Limited

Holmesfield Road

Warrington WA1 2DS

Date of Issue 15th March 2013

This certificate is valid until 14th March 2018

WCL EC Distinguishing No. 1121

This certificate is not valid for equipment, the design or manufacture of which, has been varied or modified from the specimens tested.





This certificate does not entitle the use of the Mark of Conformity, which requires an additional module, either D. E or F.

Under the terms of the Merchant Shipping (Marine Equipment Regulations 1991) Warrington Certification Ltd. has been notified to the European Commission by the Mantime and Coastguard Agency as a body authorised to conduct Type Examination under the provisions of the European Council Directive 96/98/ EC on Marine Equipment and issue Certificates of Type Approval.

Certificate of Type Approval Schedule of Equipment

The applicant declared that the following comprises an accurate description of the system type to which this certificate applies.

General description			Flocked floorcovering adhered to a steel substrate
Overall weight per unit area			24.98kg/m² (determined by Exova Warringtonfire)
Overall thickness			5.71mm (determined by Exova Warringtonfire)
	General description		Flocked floorcovering
	Product reference of carpet		"Flotex FR"
	Name of manufacturer of carpet		Forbo Flooring UK Ltd
	Overall thickness of carpet		2.8mm
	Overall weight per unit area of carpet		1235g/m²
	Pile	Product reference	"RA110"
		Generic type	Nylon 6.6
		Name of manufacturer	See Note 3 below
		Pile height above the backing	2mm
		Weight per unit area	250g/m²
et		Flame retardant details	See Note 1 below
	Primary backing	Product reference	"RA153"
		Generic type	Scrim reinforced fibreglass nonwoven
		Name of manufacturer	See Note 3 below
		Thickness	0.55mm
Carpet		Weight per unit area	85g/m²
Ö		Flame retardant details	See Note 1 Below
	Flock adhesive	Product reference	Acrylic Plastisol (23448)"
		Generic type	Acrylic plastisol compound
		Name of manufacturer	See Note 3 below
		Thickness	0.25mm
		Application rate	300g/m²
		Trade name of flame retardant	See Note 2 below
		Generic type of flame retardant	See Note 3 below
		Amount of flame retardant	See Note 2 below
	Back coating	Product reference	"RWP15"
		Generic type	PVC plastisol
		Name of manufacturer	Forbo Flooring UK Ltd
		Thickness	1mm
		Weight per unit area	600g/m²
		Generic type of flame retardant	See Note 4 below
	Marine R.	Product reference	"Styccobond F44"
		Generic type	Acrylic based adhesive
Adhesive Nan App App		Name of manufacturer	F Ball & Co. Ltd.
		Application rate	200g/m²
		Application method	'V' notched trowel
		Flame retardant details	See Note 1 below
	Substrate Generic type Thickness		Steel
			3mm
		Density	23.56kg/m²
Brief description of manufacturing process of the carpet			The back coating is applied to the fibreglas nonwoven. After gelling the material is inverted an the flock adhesive is applied. The pile is the electrostatically flocked into the wet adhesive. After curing the product is printed.

- Note 1. The manufacturer of the test has confirmed that no flame retardant additives were utilised in the production of the component.
- Note 2. The sponsor of the test was unable to provide this information.
- Note 3. The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.
- Note 4. The sponsor of the test was unwilling to provide this information.

The under noted documents have been approved for compliance with the relevant requirements of International Conventions and European Union Legislation for the EC Type examination of Marine Equipment for use on Ships Registered in the European Economic Area.

Approved Documents

Test Reports

- (1) WF No. 323912 (dated 23/11/12), and WF No. 325783 (dated 11/03/13). Surface Flammability test to Part 5, Annex 1 of the Fire Test Procedures Code, Resolution MSC307 (88).
- (2) WF No. 323913 (dated 1/3/11), and WF No. 325782 (dated 11/03/13). Smoke and Toxicity test to Part 2, Annex 1 of the Fire Test Procedures Code, Resolution MSC307 (88).

Certificate Number: 164.117/1121/WCL MED0364TE

Warrington Certification Limited Holmesfield Road Warrington WA1 2DS

3/6