

Notified body No. 2812

Certificate of Type Approval

164.117/ERO2812/MED0364TE

(EC Certificate of Type Examination-2014/90/EU Directive Module B)

Manufacturer: Forbo Flooring UK Limited

Authorised representative:

Forbo Flooring UK Limited

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

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High Holborn Road, Ripley,
Derbyshire, DE5 3NT, UK

This is to certify that the manufacturer has submitted details of a Floor covering with Low flame-spread and low smoke and toxic fume emission characteristics (Item No. MED/3.18c:Floorcovering), known and designated as:

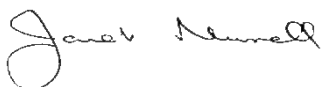
“Flotex FR”

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

The system complies with the relevant international testing standards under which legislation ((The Merchant Shipping Marine Equipment) Regulations 2016 and also the Marine Equipment Directive 2014/90/EU as amended) and the implementing regulation 2020/1170/EU the certificate is issued.

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 February 27th, 2004 and amended by Decision No.1/2018 dated February 18th, 2019. The manufacturer is allowed to affix the U.S. Coast Guard approval number 164.117/ERO 2812/ MED0364.



Janet Murrell
Certification Manager - Marine

Date of issue: 2021-01-01
Valid until: 2025-10-06

ERO project reference: EROMED10032
ERO EC Distinguishing No. 2812

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

CSF402-NL 0.1

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)		
Carpet	General description		Flocked floorcovering	
	Product reference of carpet		"Flotex FR"	
	Name of manufacturer of carpet		Forbo Flooring UK Ltd	
	Overall thickness of carpet		3.3mm	
	Overall weight per unit area of carpet		1225g/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
		Flame retardant details		See Note 1 below
	Primary backing	Product reference		"RA152"
		Generic type		Scrim reinforced fibreglass nonwoven
		Name of manufacturer		See Note 3 below
		Thickness		0.55mm
		Weight per unit area		85g/m²
		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 1 below		
Adhesive	Product reference		"640 Eurostar Special"	
	Generic type		Acrylic based adhesive	
	Name of manufacturer		Forbo Eurocol BV	
	Application rate		250g/m²	
	Application method		'V' notched trowel	
	Flame retardant details		See Note 1 below	
Substrate	Generic type		Steel	
	Thickness		3mm	
	Density		23.56kg/m²	
Brief description of manufacturing process of the carpet			The back coating is applied to the fibreglass nonwoven. After gelling the material is inverted and the flock adhesive is applied. The pile is then 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 EU 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) including Supplement No. 1, WF No. 325783 (dated 11/03/13) and WF No. 354974 (dated 01/09/15). 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) Including supplement No. 1, WF No. 325782 (dated 11/03/13) and WF No. 357562 (dated 03/11/15). Smoke and Toxicity test to Part 2, Annex 1 of the Fire Test Procedures Code, Resolution MSC307 (88).

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