







- 4 Product range overview
- 6-13 Entrance Flooring Systems
- 14-19 Resilient Floor Coverings
- 20-41 Textile Floor Coverings
 - 42 Service Products & Accessories
 - 43 Contact us

Forbo has developed a truly comprehensive and compliant flooring product offer for the global rail sector. Whether you are sourcing floor coverings for high speed, intercity, We will work closely with you to regional or light rail carriages, or for trams or metro vehicles, we can provide you with an exceptional range of products to meet the necessary requirements.

Within our portfolio you will find high performance entrance systems, linoleum flooring, textile carpets and flocked floor coverings, and the widest range of design and colourways on the market, giving you a world of choice. We also supply all the necessary adhesives, accessories and specialist tools your installation team might need.

We are very experienced in material scheduling and meeting individual logistical challenges, both for new build and refurbishment programmes. understand your exact requirements, in order to achieve the optimum service level.

If you are looking for a totally unique flooring solution, your Forbo Account Manager will work directly with our experienced and talented in-house design team to deliver custom floor covering designs that are guaranteed to give your rail interiors a truly individual look.

Working with Forbo means:

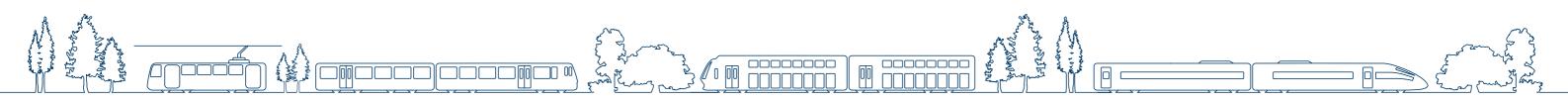
- A sole source of supply for all your flooring requirements
- The largest and most versatile choice of floorcoverings
- A custom design service
- Global advice, support and cross border project management

You can rely on Forbo to deliver an exceptional total flooring solution for your rail project.





Floor coverings for rail:



Entrance Systems

coral[®]FR

Key benefits:

Dirt removal, moisture absorption, soil hiding

coral[®]classic FR

coral®duo FR

coral®brush FR

Resilients

marmoleum® FR

Key benefits:

Natural, sustainable, scuff resistant, easy to clean

marmoleum® fresco FR

marmoleum[®] real FR

marmoleum®vivace FR

marmoleum®concrete FR

marmoleum® striato FR

Textiles

tessera® FR

Key benefits:

Warm, comfortable, slip resistant, good acoustic properties

tessera® alignment FR

tessera® helix FR

flotex[®]FR

Key benefits:

Easy to clean, extensive custom design capabilities, high durability

flotex colour FR

flotex vision FR

coral® move FR

Key benefits:

Extensive design capabilities, moisture absorption, warm, comfortable, high durability



coral[®]FR

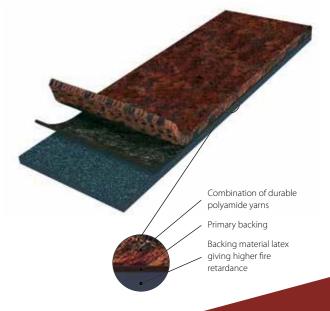
First impressions are crucial, which is why effective entrance flooring that stops dirt and moisture being tracked into carriages and saloon areas is fundamental to modern train design.

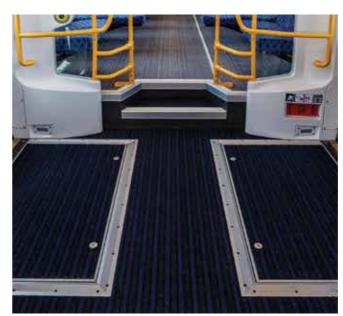
By removing wet and dry soiling from the soles of shoes and wheel treads, an effective entrance system reduces premature wear and tear to interior floor coverings, minimises cleaning and maintenance costs and protects passengers by reducing slip hazards.

Benefits:

- High moisture absorption
- Dirt scraping for effective clean-off
- High dirt storage
- Advanced colouring and design choice
- Excellent soil hiding properties
- Reaction to fire EN 45545-2: HL2

Providing the ideal solution for rail vehicle entrances, Coral entrance flooring is available in three different formats: Classic, Brush and Duo – each with their own unique benefits.





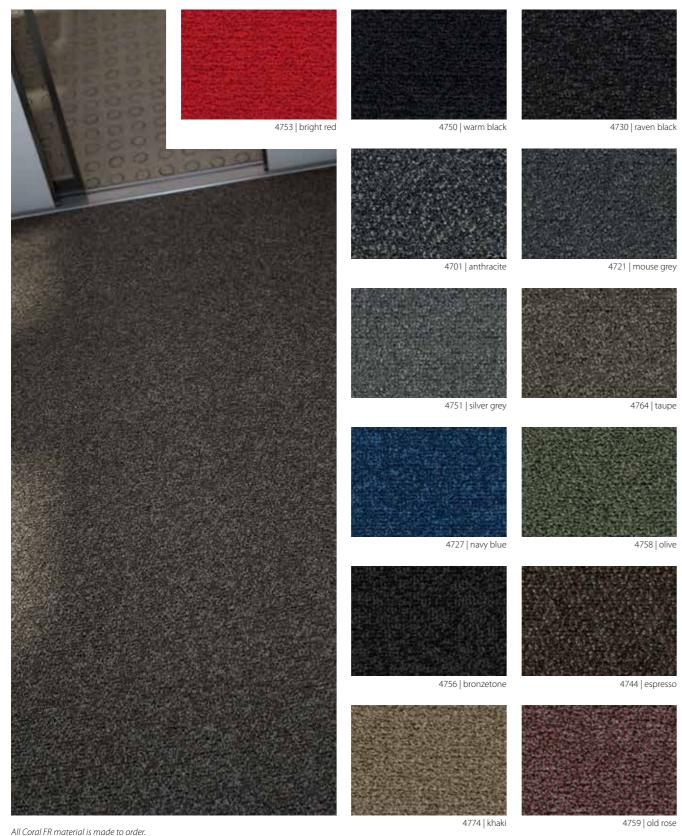


coral[®] classic FR

The ultimate moisture absorbing clean-off system. Coral Classic is available in 13 colours

coral®duo FR

For unbeatable soil removal, especially in compact areas. Coral Duo is available in 8 colours







Coral Brush is available in 18 colours

coral® brush FR

Unique design with exceptional performance.



All Coral FR material is made to order.



Designs marked with a * have a more linear design whereas the other 13 colour references have an all-over aesthetic.





coral[®]FR

If you cannot see the exact colourway that you are looking for in any of our Coral FR entrance system collections, please speak to us and we will work closely with you in order to match your specific colour requirements.

TECHNICAL SPECIFICATIONS

	Technical speci	irements of EN 1307	Coral brush FR	Coral classic FR	Coral duo FR
	Total thickness	ISO 1765	9 mm	8.5 mm	9 mm
\rightarrow	Roll width	EN-ISO 24341	185 cm (customizable)	185 cm (customizable)	185 cm (customizable)
Ω	Roll length	EN-ISO 24341	27.5 m (customizable)	27.5 m (customizable)	27.5 m (customizable)
	Minimum order quantity		50 m ²	50 m ²	50 m ²
	Total weight	ISO 8543	3400 gram/m ²	3400 gram/m ²	3000 gram/m ²
	Pile installation weight	ISO 8543	920 gram/m ²	865 gram/m ²	670 gram/m ²
	Pile thickness	ISO 1766	6.0 mm	6.0 mm	6.0 mm
	Pile material		100% regenerated Econyl polyamide	100% polyamide-BCF solution dyed	100% polyamide of which 66 is regenerated Econyl polyam
	Light fastness	EN-ISO 105/B02	> 5	7-8	> 5
	Electrical resistance	ISO 10965	> 10 ⁹ Ω	> 10° Ω	> 10 ⁸ Ω
	Contact sound insulation	EN-ISO 717-2	Δ Lw = approx 32 dB	Δ Lw = approx 31 dB	Δ Lw = approx 29 dB
	Application	EN 1307	Class 33	Class 33	Class 33
	TVOC after 28 days	ISO 16000-9	<50 μg/m³	<50 μg/m³	<50 μg/m³
	Tested flammability EN 45545-2		HL2	HL2	HL2
	standards		Subfloor: Aluminum/Plywood, Adhesive: Eurocol 640	Subfloor: Aluminum/Plywood, Adhesive: Eurocol 640	Subfloor: Aluminum, Adhesive Styccobond F40/Eurocol 640
		BS6853	1b	1b	
		DIN 5510-2		SF 1-3	
		ASTM E.648 ASTM E.662	Class 1 pass	Class 1 pass	Class 1 pass
		NF P 92-501 NF F 16-101	M3 F1	M2 F1	M3 F1
	Coral meets the requ	irements of EN 1404	1		(
۵	Fire behaviour	EN 13501-1	B _f -s1	B _{ff} -s1	EN 14
			DS: ≥ 0.30		
	Slip resistance	EN 13893	D5: ≥ 0.30	DS: ≥ 0.30	DS: ≥ 0.30
	Body voltage	ISO 6356	< 2 kV	< 2 kV	< 2 kV
	Thermal conductivity	EN 12524	0.093 m ² K/W	0.13 m ² K/W	0.140 m ² K/W

Coral FR is made to order



marmoleum[®]FR

Marmoleum has a history and heritage that stretches back over 150 years and this totally natural floor covering has always been renowned for its sustainability, durability and high quality.

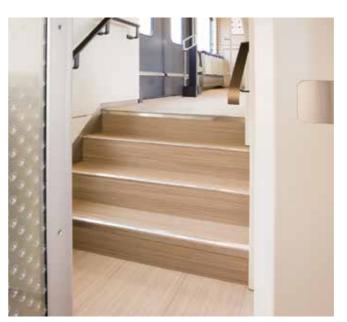
For the rail sector Marmoleum FR offers total versatility in terms of colour and design, but what makes this floor covering really stand out is the fact that it is created using a high percentage of natural raw materials, with renewable and recycled content.

All Marmoleum FR floors include Topshield2, a double layer, UV-cured finish that is scratch and scuff resistant, easy to maintain and ensures long lasting appearance retention. With its natural bacteriostatic properties and resistance to chemicals, Marmoleum FR is the ideal solution for heavy traffic rail vehicles.

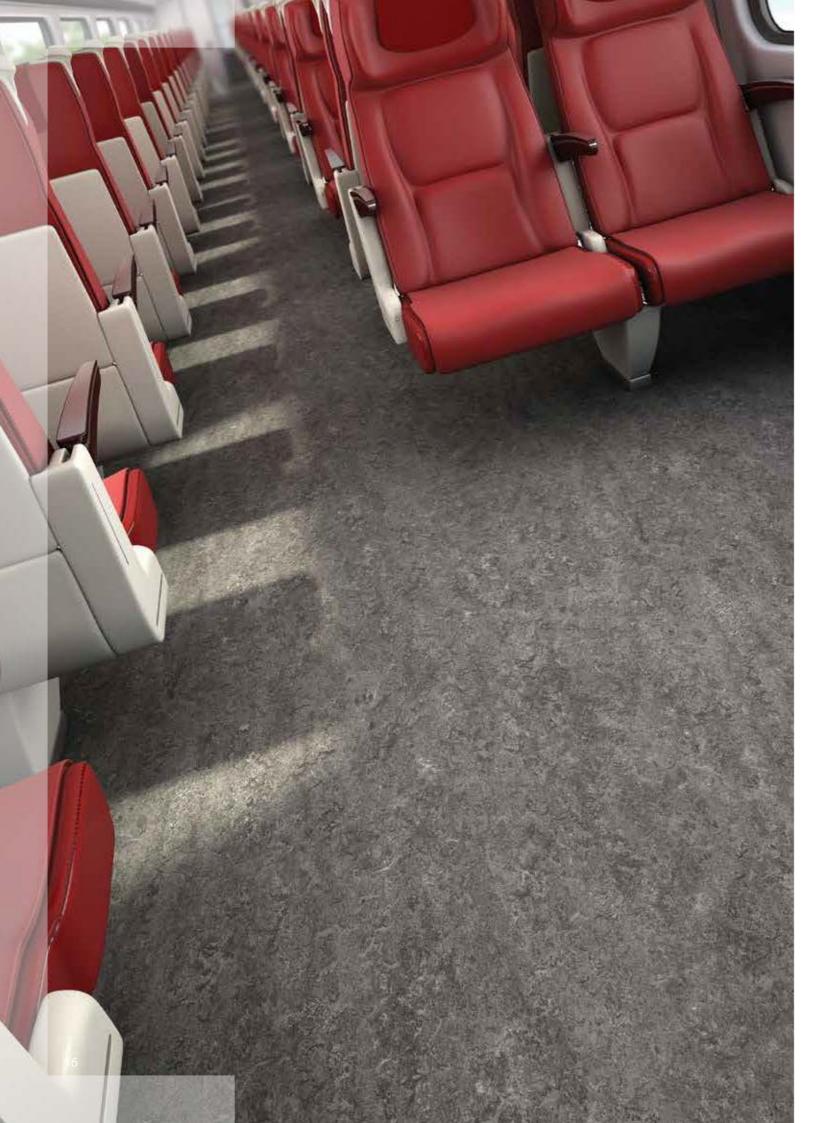
Benefits:

- Homogeneous durable construction
- Low life cycle costs can be renovated and repaired
- Resistance to cigarette burns
- Wide range of colourways per design
- Reaction to fire EN 45545-2 : HL2 / HL3









marmoleum®_{FR}

The marmoleum FR collection is available in five different design styles, including linear, solid and marbled patterns. Within each there is a wide array of colourways to choose from.

Fresco



Real



Vivace



Concrete

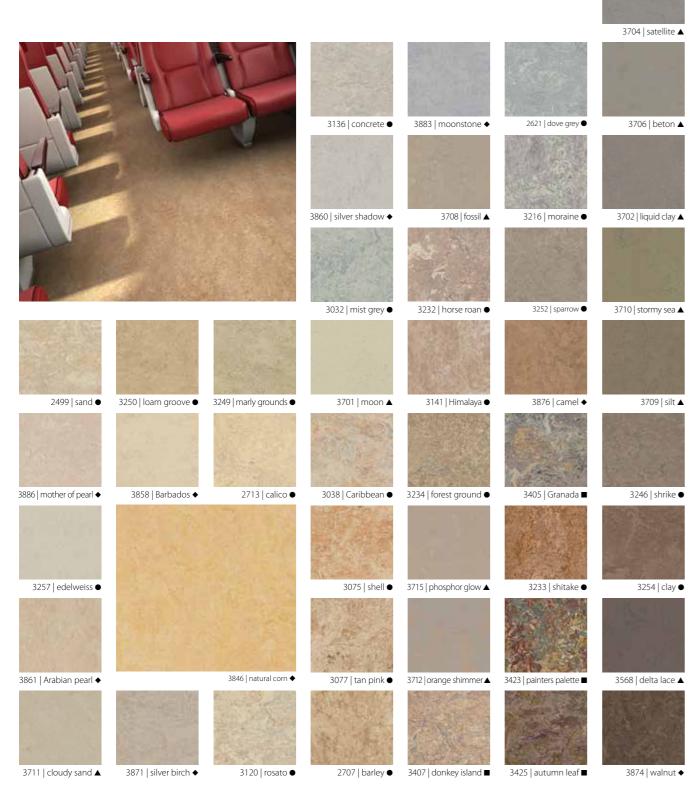


Striato



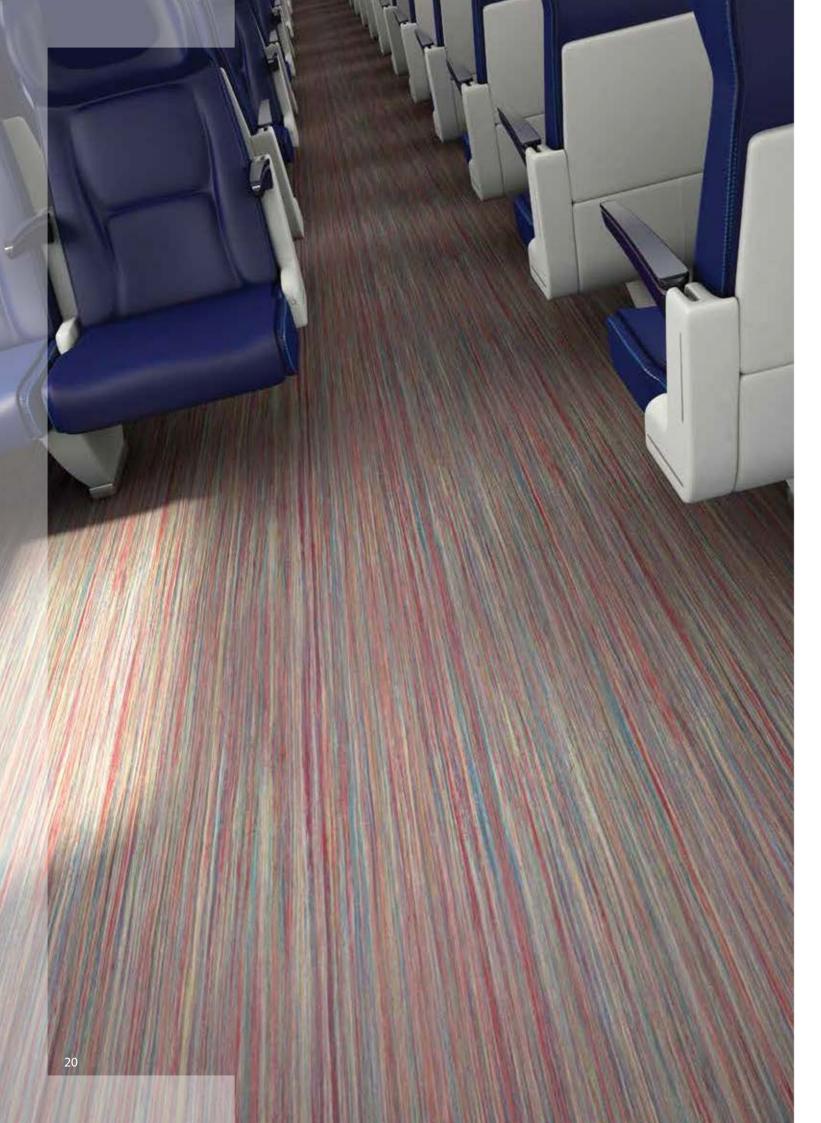
marmoleum[®]FR

Brights, bolds and more subtle shades. Marble designs combine anything from three to eight different colours that can vary in intensity and contrast. Sometimes they create bold, strong contrasts resembling real marble, sometimes the colours are more subtle like fresco murals.





● Real ◆ Fresco ■ Vivace ▲ Concrete

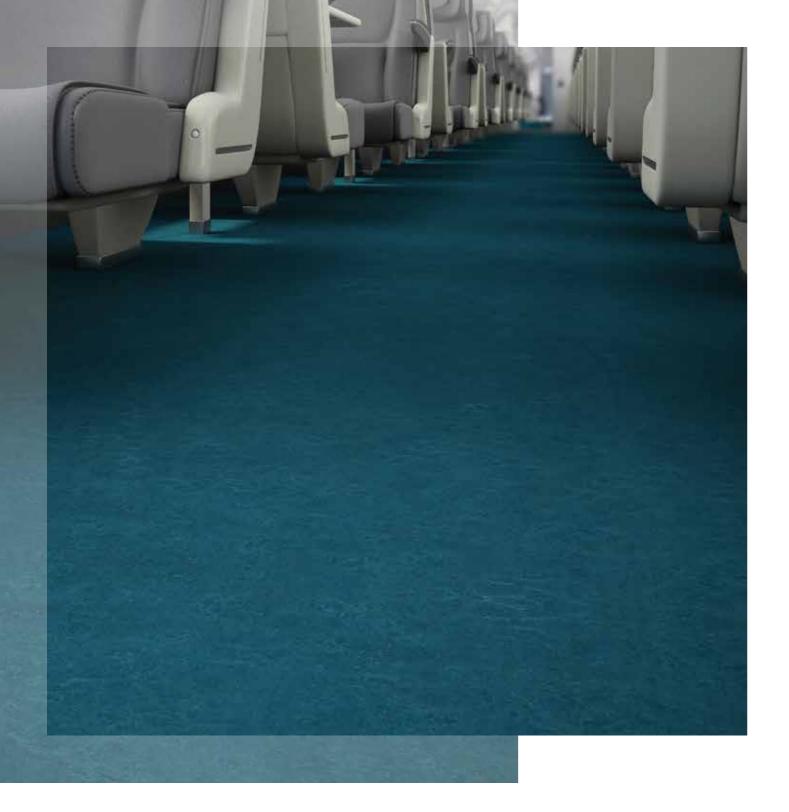


marmoleum[®] striato FR

Offering a distinctive directional design, complemented by natural interiors.

Marmoleum Striato is available in 20 colours







marmoleum® FR

If you cannot see the exact colourway that you are looking for, please speak to us and we will work closely with you in order to match your specific requirements.

TECHNICAL SPECIFICATIONS

	Technical specifical Marmoleum meets the rec	tions quirements of EN ISO 24011	Concrete FR Fresco FR/Real FR/Vivace FR	Striato FR
	Total thickness	EN-ISO 24346	2.5 mm	2.5 mm
	Roll width	EN-ISO 24341	200 cm	200 cm
	Roll length	EN-ISO 24341	≤ 32 m	≤ 32 m
	Minimum order quantity		3000 m ²	3000 m ²
	Total weight	EN-ISO 23997	2900 gram/m ²	2900 gram/m ²
	Residual indentation	EN-ISO 24343-1	≤ 0.15 mm	≤ 0.15 mm
$\langle \cdot \rangle$	Light fastness	EN-ISO 105/B02	≥6	≥ 6
	Flexibilty	EN-ISO 24344	Ø 40 mm	Ø 40 mm
	Resistance to chemicals	EN-ISO 26987	Resistant to diluted acids, oils, fats and to the conventional solvents. Not resistant to prolonged exposure to alkalis.	Resistant to diluted acids, oils, and to the conventional solver Not resistant to prolonged expo to alkalis.
	Electrical resistance	EN 1081	1-10 ⁶ <r1<1-10<sup>8Ω</r1<1-10<sup>	1-10 ⁶ <r1<1-10<sup>8Ω</r1<1-10<sup>
	Contact sound insulation	ISO 717-2	$\Delta Lw = \geq 5 dB$	$\Delta Lw = \geq 5 dB$
Ř	Application	EN-ISO 10874	Class 34	Class 34
	TVOC after 28 days	ISO 16000-9	<50 μg/m³	<50 μg/m³
	Tested flammability standards	EN 45545-2	HL2 Subfloor: Drycon Plywood Adhesive: Eurocol 614	HL3 Subfloor: Drycon Plywood Adhesive: Eurocol 614
		BS6853	1a	
		DIN 5510-2	SF 1-3	SF 1-3
		ASTM E.648 ASTM E.662	Class 1 pass	
	Marmoleum meets the red	quirements of EN 14041		E
	Fire behaviour	EN 13501-1	B _{f1} -s1	B _f -s1
	Slip resistance	EN 13893	DS: ≥ 0.30	DS: ≥ 0.30
	Body voltage	EN 1815	< 2 kV	< 2 kV
	Thermal conductivity	EN 12524	0.17 W/m·K	0.17 W/m·K

Marmoleum FR is made to order

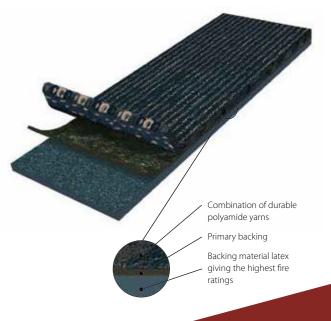


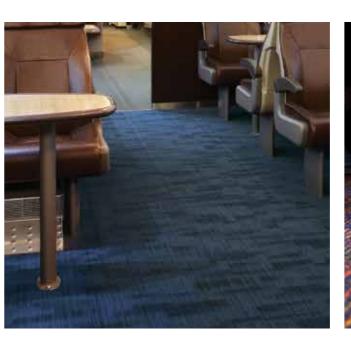
tessera® FR

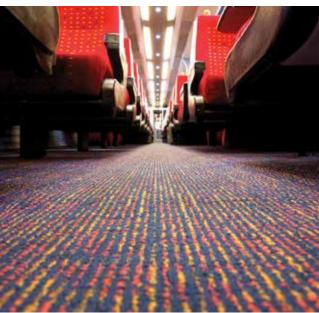
Tessera FR is a collection of attractive, hardwearing carpets, offered in various pile constructions and textures, all designed to deliver specific aesthetic and performance benefits. The installation of carpet in a rail vehicle adds significant warmth, comfort and acoustic benefits.

Benefits:

- Durability and appearance retention, made from 100% nylon
- Flexibility for colourisation
- Slip resistance
- Reaction to fire EN 45545-2: HL2







tessera® alignment FR

26

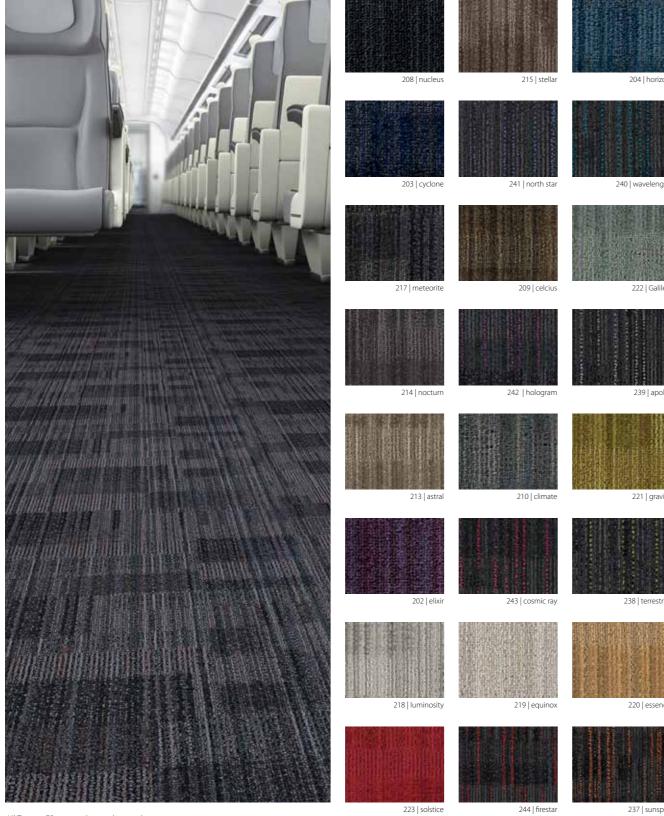
Sophisticated and cleverly textured to complement the most contemporary interior design.

Tessera Alignment is available in 24 colours

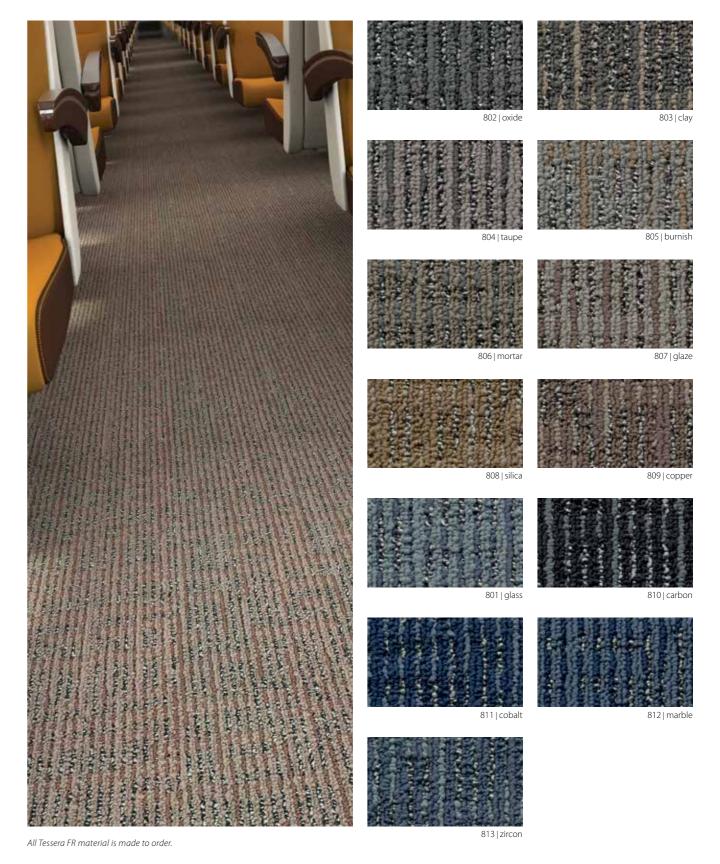
tessera® helix FR

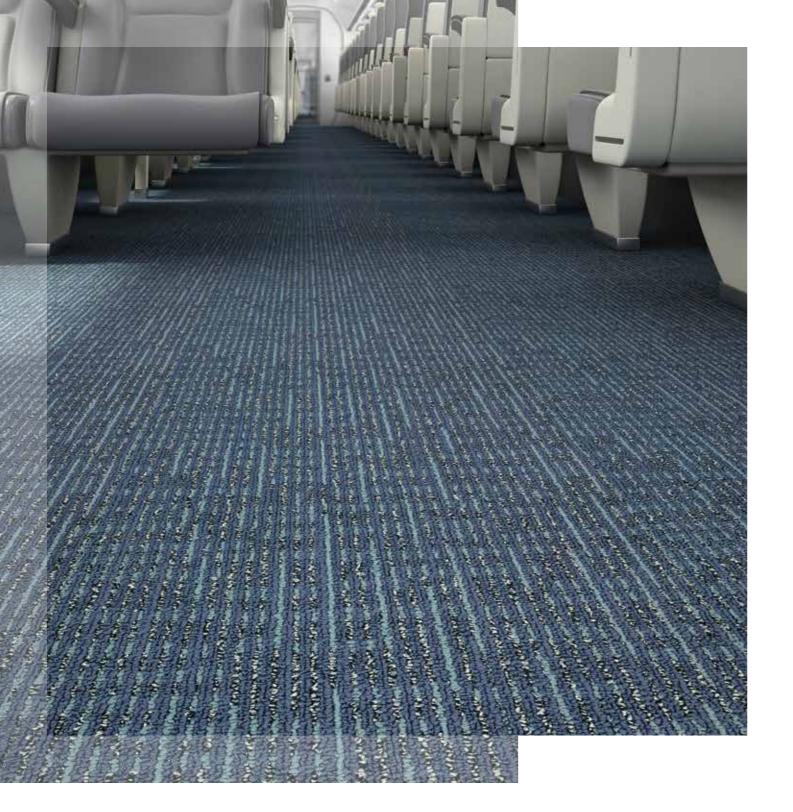
An understated linear design, combining rich texture and visual appeal.

Tessera Helix is available in 13 colours



All Tessera FR material is made to order.





Recolour certain designs with Tessera

tessera®_{FR}

If you cannot see the exact colourway that you are looking for in any of our Tessera FR designs, please speak to us and we will work with you in order to match your specific requirements.

TECHNICAL SPECIFICATIONS

Technical specifications Essera meets the requirements of EN 1307		Tessera helix FR	Tessera alignment FR	
Total thickness	ISO 1765	6 mm	6 mm	
Roll width	EN-ISO 24341	185 cm (customizable)	185 cm (customizable)	
Roll length	EN-ISO 24341	27.5 m (customizable)	27.5 m (customizable)	
Minimum order quantity		Standard range – 50 m² Custom colour – 1100 m²	Standard range – 50 m ² Custom colour – 1100 m ²	
Total weight	ISO 8543	3000 gram/m ²	3000 gram/m²	
Pile installation weight	ISO 8543	740 gram/m ²	730 gram/m²	
Pile thickness	ISO 1766	4 mm	4 mm	
Pile material		100% polyamide-BCF	100% polyamide-BCF	
Light fastness	EN-ISO 105/B02	7-8	7-8	
Electrical resistance	ISO 10965	> 10°Ω	> 10° Ω	
Contact sound insulation	ISO 717-2	Δ Lw = 26 dB	Δ Lw = 25 dB	
TVOC after 28 days	ISO 16000-9	<50 μg/m³	<50 μg/m³	
Tested flammability standards	EN 45545-2	HL2 Subfloor: Plywood Adhesive: Eurocol 640	HL2 Subfloor: Plywood Adhesive: Eurocol 640	
	BS6853	1b		
	DIN 5510-2	SF 1-3	SF 1-3	
	ASTM E.648 ASTM E.662	Class 1 pass	Class 1 pass	
Tessera meets the requirem	ents of EN 14041			
Fire behaviour	EN 13501-1	B _r -s1	B _{f1} -s1	
Slip resistance	EN 13893	DS: ≥ 0.30	DS: ≥ 0.30	
Body voltage	ISO 6356	< 2.5 kV	< 2.5 kV	

Tessera FR is made to order

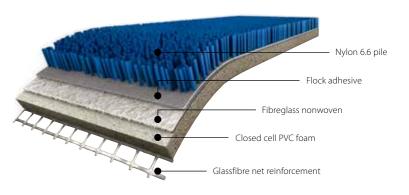


flotex[®]FR

Flotex FR is unique, combining the cleaning properties and durability of a resilient flooring with the comfort, slip resistant and acoustic properties usually associated with textiles.

Benefits:

- High durability
- Hygienic
- Easy to clean; easy soil and stain removal due to short nylon fibres
- Slip resistant
- Bacteriostatic
- Reduces airborne allergens (independently proven by Allergy UK)
- Reaction to fire EN 45545-2: HL2



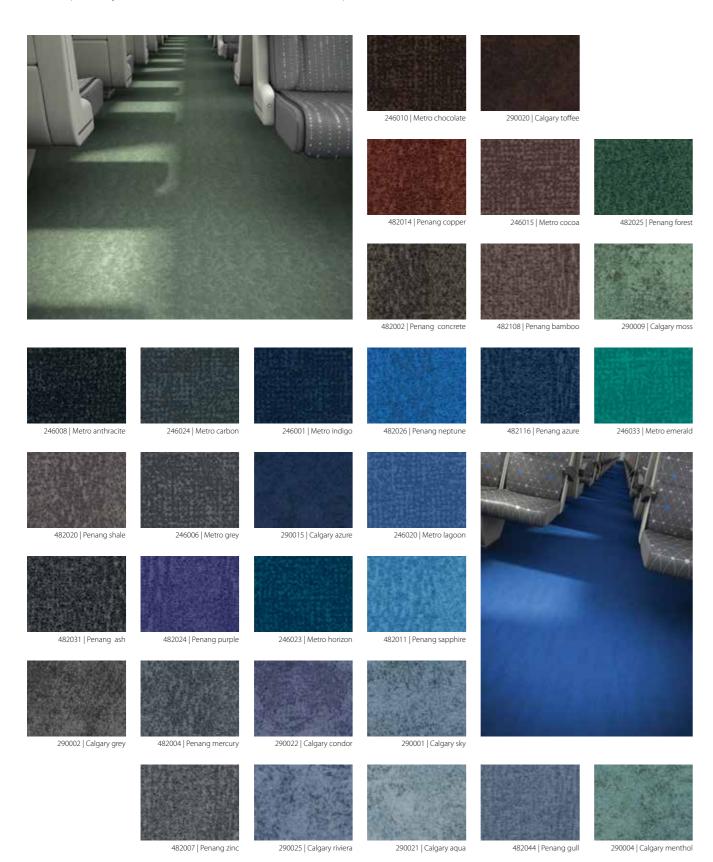


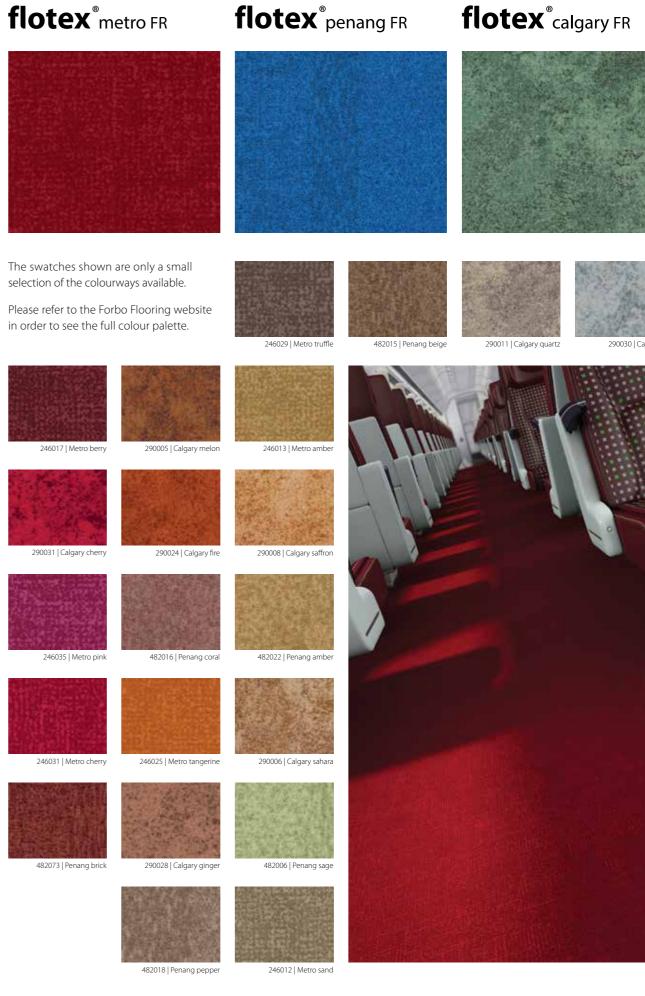




flotex colour FR

Flotex Colour is a collection of three designs (Metro, Penang and Calgary) which together form a rhapsody of colour across a broad spectrum.





32 Flotex Colour designs have no pattern repeats.

flotex vision FR

Flotex Vision FR offers an infinite number of design options ranging from abstracts with an intricate colour spectrum to realistic images of natural materials.





Lines

Line or stripe designs, each with their own characteristics, ranging from muted and sophisticated colourways to very complex and multi-colour patterns.



Pattern

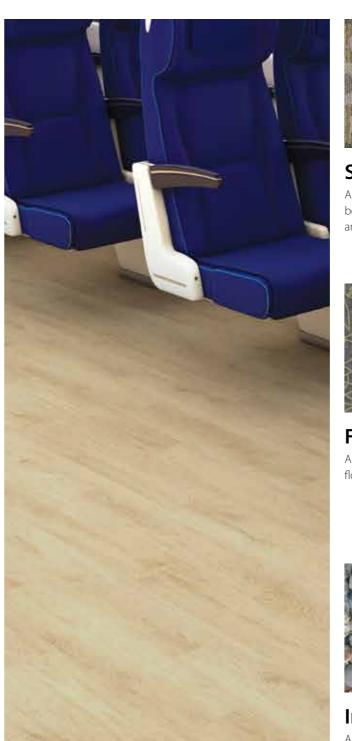
Textured, non-directional visuals created through the intricate interplay of networks and patterns.



Naturals

This collection offers photorealistic images of natural materials such as wood, stone, ceramics and cork floors. The design technology creates amazingly realistic aesthetics, with the added benefits of improved acoustics, slip resistance and reduced maintenance costs.

With over 500 items to choose from, Flotex Vision is best viewed on Forbo's online digital library which is continuously updated. The designs in Flotex Vision FR fall into six broad categories, each of which represents a different design direction: Floral, Lines, Shape, Pattern, Image and Naturals.





Shape

A collection of organic shapes and motifs delivering beautiful all-over patterns, including both contemporary and traditional designs.



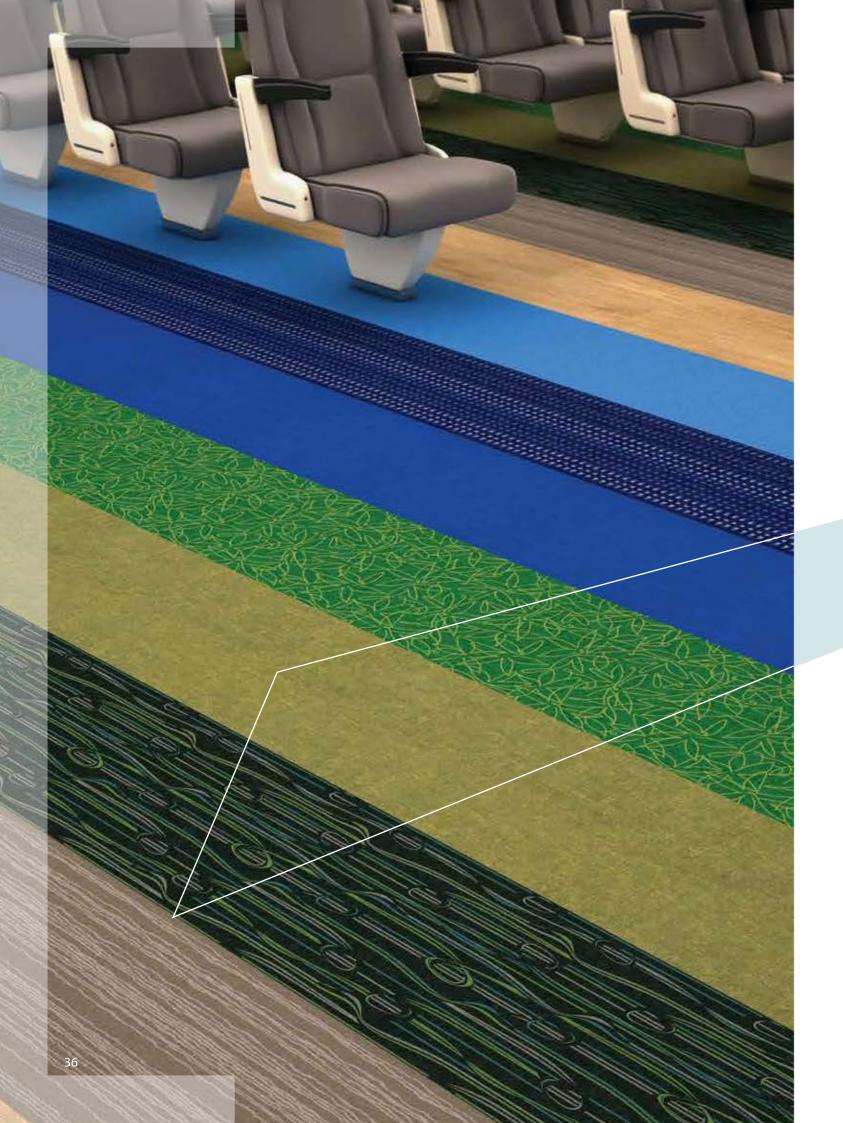
Floral

A selection of floral designs, ranging from abstract, graphic flower motifs to romantic images of roses and butterflies.



Image

A design category containing a wide variety of photographic images. Grass, sand, water drops, buttons and street maps are just some of the possibilities to be found within this intriguing range.



flotex [®] vision FR

Total design freedom

Flotex Vision FR is a collection of high definition digital print designs that create superior textures with almost 3D like appearance. As Flotex Vision FR has 70 million fibres per square per metre, it provides a matt high density substrate for printing, enabling vibrant designs and trueto-life visuals to be produced in high level photographic resolution, providing ultimate design flexibility for rail interiors. All colours, tones and hues are achievable with Flotex Vision FR.

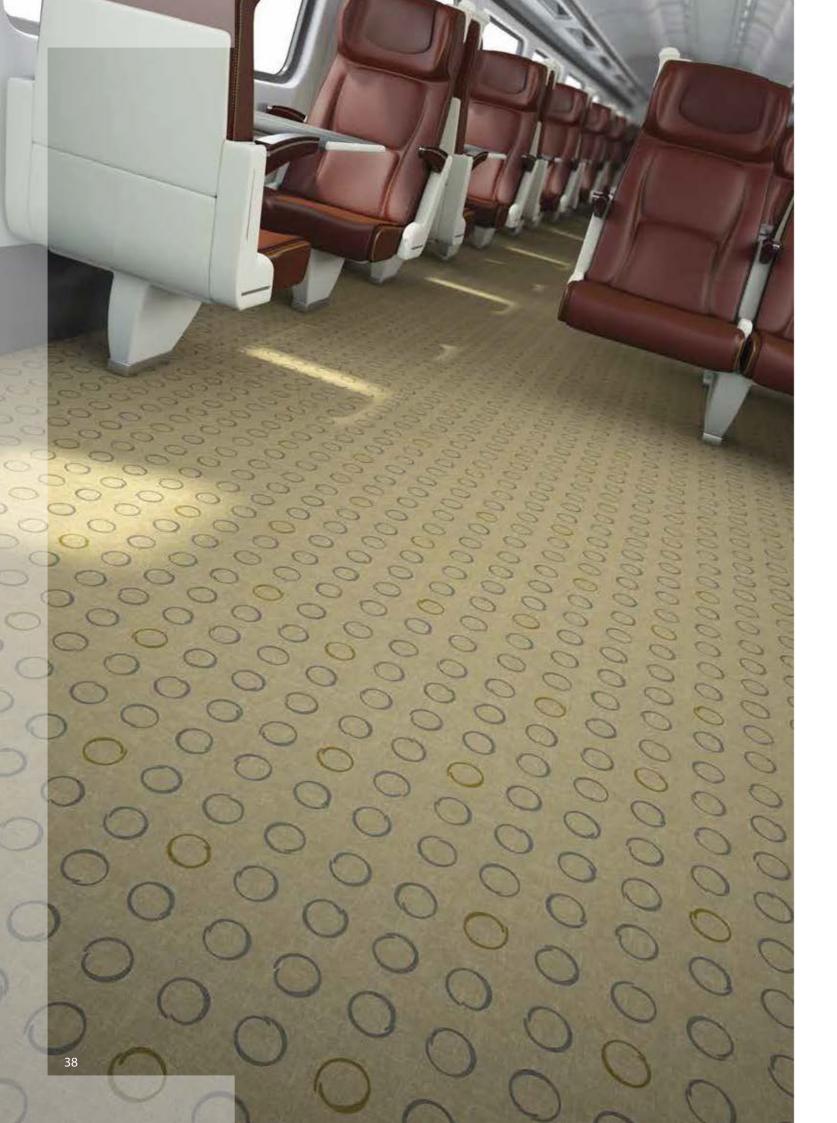
Several of the Flotex Vision designs offer the option to create your own colourway, allowing you to match the floor precisely to your interior design scheme or corporate identity colours. If you have your own vision of what you want on the floor, we also offer a complete bespoke design service on request.





www.flotexvision.com

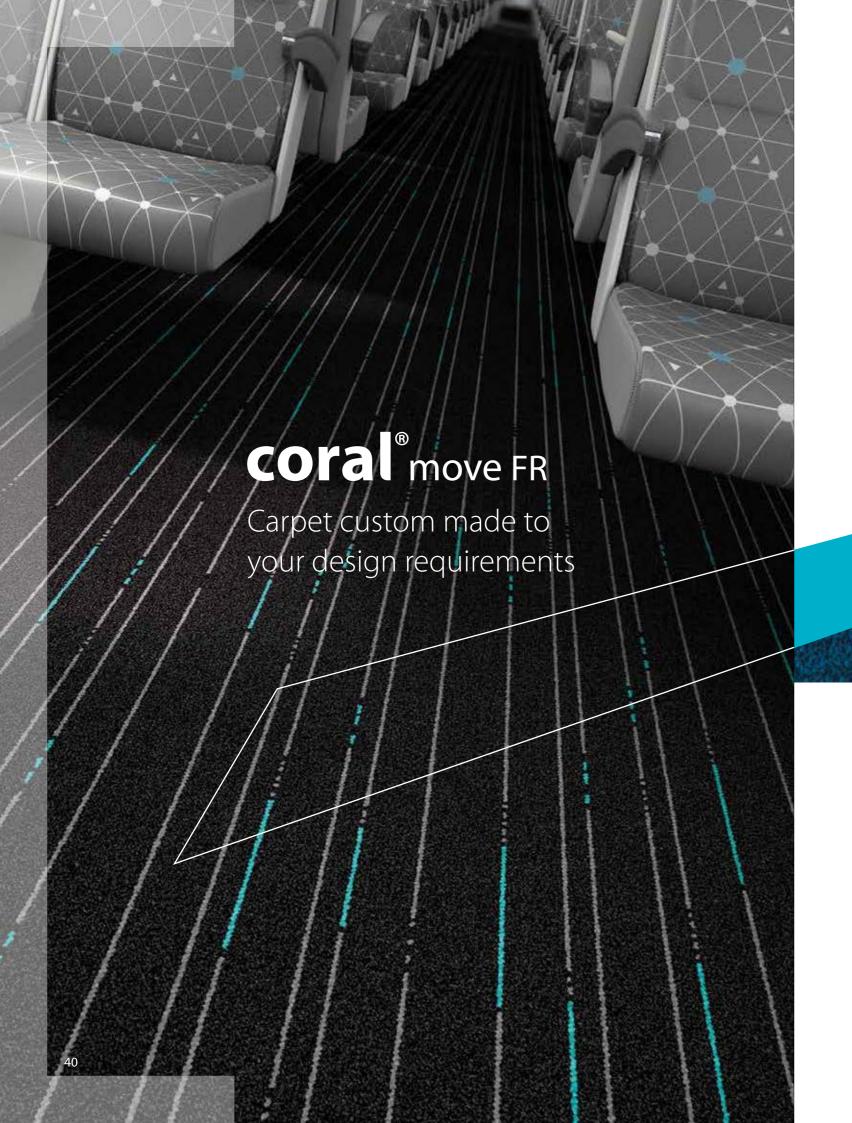
THE STATE OF THE PARTY OF THE P



TECHNICAL SPECIFICATIONS

	Technical specification Flotex meets the requirements of		Flotex FR Flotex HD FR
	Total thickness	ISO 1765	3.3 mm
9	Roll width	EN-ISO 24341	200 cm
9	Roll length	EN-ISO 24341	30 m
	Minimum order quantity		200 m ² / 1000 m ² (HD)
	Total weight	ISO 8543	1225 gram/m ²
	Pile installation weight	ISO 8543	250 gram/m ²
	Pile thickness	ISO 1766	Approx 2 mm
	Pile material		100% polyamide
1	Dimensional stability	ISO 2551	≤ 0.20%
$\langle \cdot \rangle$	Light fastness	EN ISO 105/B02	≥ 6
	Electrical resistance	ISO 10965	≥ 10°Ω
	Contact sound insulation	ISO 717-2	Δ Lw = 22 dB
	Application	EN 1307	Class 33
	TVOC after 28 days	ISO 16000-9	<5 μg/m³
	Tested flammability standards	EN 45545-2	HL2 Subfloor: Aluminum/Plywood, Adhesive: Eurocol 64
		BS6853	1b
		DIN 5510-2	SF 1-3
		ASTM E.648 ASTM E.662	Class 1 pass
	Slip resistance	EN 13893	DS; ≥ 0.30
	Body voltage	ISO 6356	< 2 kV

Flotex FR is made to order



coral® move FR

Coral Move FR is a tufted carpet solution for rail interiors offering great customisation possibilities to complement interior design and colour schemes.

Benefits:

- Warm and comfortable
- Excellent soil hiding
- Slip resistant
- Acoustic properties
- Reaction to fire EN 45545-2: HL3





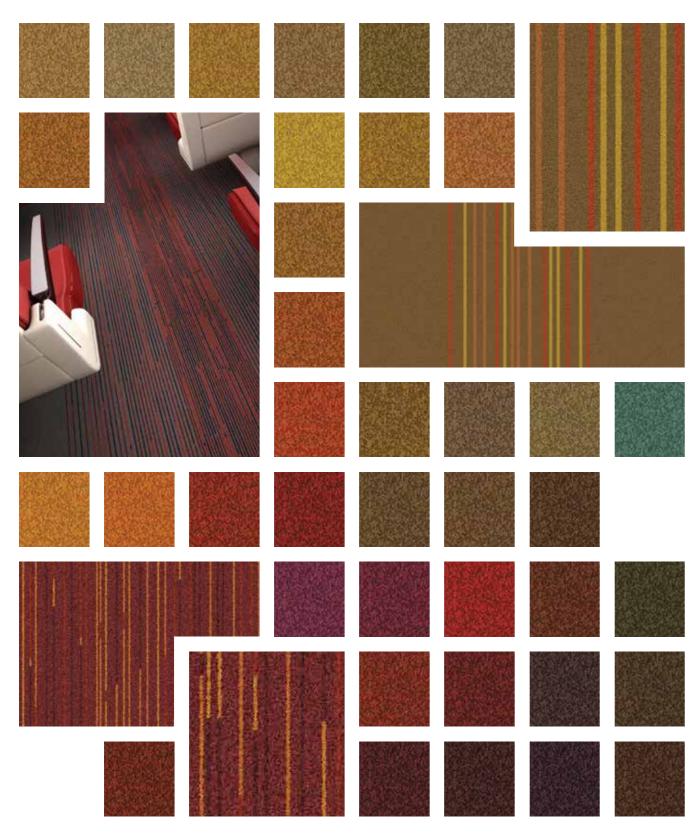


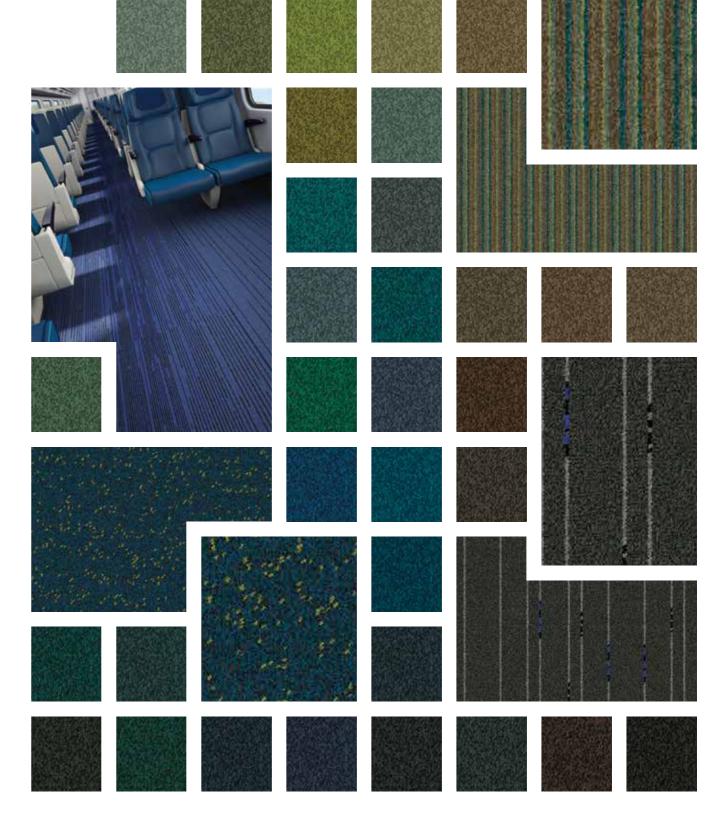
coral® move FR

Coral Move FR is a bespoke made to order product and our design team will work to match design and colour requirements on an individual project by project basis.

Below are just some examples of the designs you can create with Coral Move FR.

Coral Move is available in 136 colours

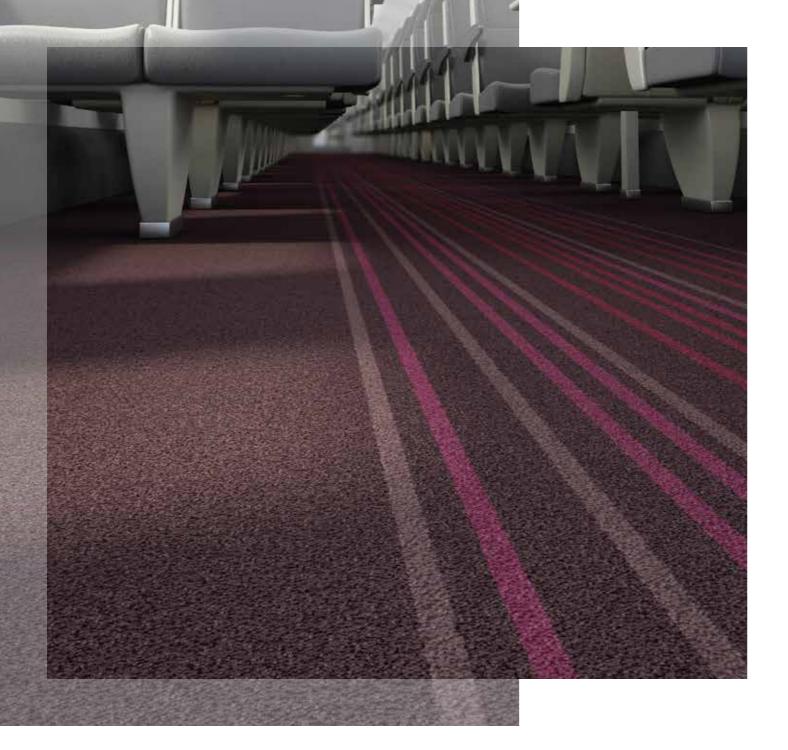




Above is only a selection of the colours available, for further information on the full range, please contact us.

42

All Coral Move material is made to order.



coral® move FR



TECHNICAL SPECIFICATIONS

Technica	al specifications	
	sp c ccas	

Coral meets the requirements of EN 1307		Coral move FR	
Total thickness	ISO 1765	8 mm	
Roll width	EN-ISO 24341	185 cm (customizable)	
Roll length	EN-ISO 24341	27.5 m (customizable)	
Minimum order quantity		500 m ²	
Total weight	ISO 8543	3000 gram/m²	
Pile installation weight	ISO 8543	750 gram/m²	
Pile thickness	ISO 1766	5.5 mm	
Pile material		100% polyamide BCF ECONYL®	
Colour fastness ratings:			
Light	EN ISO 105/B02	8	
Rubbing	EN ISO 105/X12	4-5	
Water	EN ISO 105/E01	4-5	
Seawater	EN ISO 105/E02	5	
Water stains	EN 1307 annex G	5	
Shampoo	BS 1006	4-5	
Organic solvents	EN ISO 105/X05	5	
Contact sound insulation	EN ISO 717-2	∆ Lw = 28 dB	
Application	EN 1307	Class 32	
TVOC after 28 days	ISO 16000-9	<50 μg/m³	
Tested flammability standards	EN 45545-2	HL3 Subfloor: Plywood Adhesive: Eurocol 640	
Coral meets the requirements of	EN 14041		
Fire behaviour	EN 13501-1	B _{ri} -s1	
Body voltage	ISO 6356	< 2 kV	
Thermal conductivity	EN 12524	0.108 m² K/W	

Coral move FR is made to order

SERVICE PRODUCTS





Multicolour welding rod

Welding hygiene easy to c water fro

Welding rods

Welding rods ensure high levels of hygiene because they make seams easy to clean while preventing water from penetrating the floor covering. Forbo offers welding rods in matching colours with each item.



Adhesives Forbo Floorin



Forbo Flooring offers their own adhesives for all of their flooring products, we can offer the best adhesive for your specific type of application.

Installation tools and training

Based on our experience and our continuous research we can recommend and supply a complete assortment of high-grade installation tools. These will help you to achieve a simple and professional installation of our floor coverings. Forbo can provide you with an off- or onsite installation training.

Aquajet

We recognise that sometimes a client wishes to create something totally unique, perhaps something specific to a particular project, such as signage to facilitate the restrictions and safety guidelines within the train. Whatever may be required, our in-house design team has skills and experience to turn ideas into reality.

From an initial concept, detailed drawing, or computer file, our design team prepares a flooring design that is transferred electronically to our Aquajet cutting

machines. These computer-controlled machines represent state-of-the-art cutting technology and produce precision cut items accurate to a fraction of a millimetre. The pattern is inlaid and, importantly, retains all the performance characteristics of the original product. Whether it is a complete rail layout in floor covering, a company logo, signage or thematic design, the possibilities are limitless.



Cleaning and Maintenance data sheets are available online at forbo-flooring.com/transport





