We pride ourselves on offering a truly comprehensive product portfolio with leading edge products specifically designed to cater for each area of a rail project.

From entrance to exit, whether new build or refurbishment, Forbo can help you choose the right floor and wall covering solutions for your projects.

The PRODUCT SELECTOR tool overleaf, is to help illustrate at a glance which products are suitable for different rail vehicle types. Then throughout the brochure you’ll find in depth product range information as well as detailed technical specifications and reference to the installation and cleaning and maintenance guides for our full product portfolio.

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

Within our floor coverings portfolio you will find high performance entrance systems, linoleum flooring, broadloom carpets, flocked floor coverings and the widest range of designs and colourways on the market, giving you a world of choice. We also supply adhesives, accessories and specialist installation tools.

At Forbo, we fully appreciate the logistical challenges for both new build and refurbishment projects. We will work closely with you in understanding your specific requirements, in order to deliver the optimum service levels and solutions.

If you’re looking for a totally unique floor or wall covering design solution, then our in-house design team will work closely with you every step of the way in meeting your design specifications. The entire RAIL portfolio can be fully customized.

Working with Forbo means:

• A sole source of supply for all your flooring requirements
• The largest and most versatile choice of floor and wall coverings
• A custom design service
• Optimal efficiencies through tailored services and logistics
• Global advice, support and cross border project management

You can rely on Forbo to deliver an exceptional floor and wall covering solution for your rail project.
# FORBO RAIL PRODUCT SELECTOR

## FLOOR COVERINGS

<table>
<thead>
<tr>
<th>Product Line</th>
<th>Description</th>
<th>Application</th>
<th>Number of Standard Designs</th>
<th>Bespoke Design/Custom Colouination</th>
<th>Suitable for use on the following vehicle types</th>
<th>Conformity</th>
<th>Thickness</th>
<th>Weight</th>
<th>Acoustic</th>
<th>Wear Layer</th>
<th>Light Resistance</th>
<th>Installation &amp; Service Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic FR</td>
<td>Textile - the ultimate moisture absorber</td>
<td>Ventilated Entrance</td>
<td>13</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>M2</td>
<td>8.5 mm</td>
<td>3.4 kg/m²</td>
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<tr>
<td>Brush FR</td>
<td>Textile - the great all-rounder</td>
<td>Ventilated Entrance</td>
<td>18</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>M3</td>
<td>9 mm</td>
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<td>&gt;5</td>
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<tr>
<td>Duo FR</td>
<td>Textile - the ultimate dirt &amp; moisture sensor</td>
<td>Ventilated Entrance</td>
<td>8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>M2</td>
<td>9 mm</td>
<td>3 kg/m²</td>
<td>ΔLw = 29 dB</td>
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<tr>
<td>Welcome FR</td>
<td>Textile - with a strong break-effect</td>
<td>Ventilated Entrance</td>
<td>8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>M3</td>
<td>8 mm</td>
<td>2.2 kg/m²</td>
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<td>&gt;5</td>
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<tr>
<td>Real FR</td>
<td>Linoleum - classic marked blend</td>
<td>Saloon floor covering</td>
<td>33</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>M3</td>
<td>25 mm</td>
<td>2.9 kg/m²</td>
<td>ΔLw &lt; 5 dB</td>
<td>4</td>
<td>≥ 6</td>
</tr>
<tr>
<td>Fresco FR</td>
<td>Linoleum - subtly blended, tone on tone</td>
<td>Saloon floor covering</td>
<td>38</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>M3</td>
<td>25 mm</td>
<td>2.9 kg/m²</td>
<td>ΔLw &lt; 5 dB</td>
<td>4</td>
<td>≥ 6</td>
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<tr>
<td>Vivace FR</td>
<td>Linoleum - lively, high contrast aesthetic</td>
<td>Saloon floor covering</td>
<td>9</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>M3</td>
<td>25 mm</td>
<td>2.9 kg/m²</td>
<td>ΔLw &lt; 5 dB</td>
<td>4</td>
<td>≥ 6</td>
</tr>
<tr>
<td>Concrete FR</td>
<td>Linoleum - solid marked design</td>
<td>Saloon floor covering</td>
<td>33</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>M3</td>
<td>25 mm</td>
<td>2.9 kg/m²</td>
<td>ΔLw &lt; 5 dB</td>
<td>4</td>
<td>≥ 6</td>
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<tr>
<td>Walton FR</td>
<td>Linoleum - plain with subtle texture</td>
<td>Saloon floor covering</td>
<td>11</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>M3</td>
<td>25 mm</td>
<td>2.9 kg/m²</td>
<td>ΔLw &lt; 5 dB</td>
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<td>≥ 6</td>
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<tr>
<td>Striato FR</td>
<td>Linoleum - with a subtle linear pattern</td>
<td>Saloon floor covering</td>
<td>20</td>
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<td>Yes</td>
<td>Yes</td>
<td>M3</td>
<td>25 mm</td>
<td>2.9 kg/m²</td>
<td>ΔLw &lt; 5 dB</td>
<td>4</td>
<td>≥ 6</td>
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## WALL & CEILING COVERINGS

<table>
<thead>
<tr>
<th>Product Line</th>
<th>Description</th>
<th>Application</th>
<th>Number of Standard Designs</th>
<th>Bespoke Design/Custom Colouination</th>
<th>Suitable for use on the following vehicle types</th>
<th>Conformity</th>
<th>Thickness</th>
<th>Weight</th>
<th>Acoustic</th>
<th>Wear Layer</th>
<th>Light Resistance</th>
<th>Installation &amp; Service Products</th>
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<tr>
<td>Fleet FR</td>
<td>Textile wall and ceiling covering</td>
<td>Ventilated</td>
<td>8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>M2</td>
<td>8 mm acc. To NF EN 1058-1</td>
<td>0.95 kg/m²</td>
<td>ΔLw = 17 dB</td>
<td>&gt;4</td>
<td>&gt;6</td>
</tr>
</tbody>
</table>
Our collections are designed in-house and realised with the most modern printing and manufacturing techniques, resulting in inspiring designs no matter what combination of floor and wall coverings you select. Custom colourations and bespoke designs are possible throughout the portfolio.

We also ensure that our products are produced to the latest technical standards to ensure that your floor and wall coverings will offer outstanding performance throughout their lifetime.
It’s all about getting the right product to the right place, at the right time. In our world, we are recognised as a trusted partner. Our global logistics network ensures that your products arrive when you ask for them, on time and to your total satisfaction.
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.

The robust, hard wearing properties of our Fleet FR wall and ceiling covering, make it ideal to meet high traffic rail environments.

An adhesive-free installation solution, improving efficiencies in time, cost and operation throughout the life of the vehicle.

We pride ourselves on offering a truly comprehensive and compliant floor and wall covering product portfolio for the rail sector. Combining durability, performance, excellent fire resistant properties and great aesthetics.
Coral has been the market leading textile entrance flooring brand for over 50 years and offers more choice than ever before with attractive and sustainable clean-off systems in styles and constructions to suit all applications, budgets and aesthetic requirements.

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

- Cut to size/shape option
- Stops up to 95% of dirt and moisture
- Excellent dirt storage/soil hiding
- High moisture absorption
- Reduces cleaning costs and prolongs the lifetime of on board floor coverings and finishes
- PVC and phthalate free
- Available with Pro-Fit backing for quicker installation.
(excludes Coral Duo FR)

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

Please ensure that ‘FR’ is clearly noted on all orders.
Entrance Flooring Systems

Coral Classic FR | 4701FR | anthracite

The ultimate moisture absorber

Research shows that taking just two steps on Coral Classic FR’s moisture retaining construction is enough to absorb half of the foot-borne moisture that would otherwise be carried inside on the soles of passengers’ shoes.

- Cut to size/shape option
- High moisture absorption
- Dirt scraping for effective clean-off
- Excellent dirt storage/soil hiding
- Advanced colouring and design choice
- Reaction to fire EN 45545-2 : HL2
- Available with Pro-Fit backing for quicker installation

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
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<tr>
<td>Moquette material</td>
<td>100% polyamide-BCF solution dyed</td>
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<tr>
<td>Collection size</td>
<td>Heavy use</td>
</tr>
<tr>
<td>Number of yarns</td>
<td>EN 45545-2</td>
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<tr>
<td>Thermal resistance</td>
<td>EN ISO 8117-2</td>
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<tr>
<td>Slip resistance</td>
<td>EN 13893</td>
</tr>
<tr>
<td>Body voltage</td>
<td>ISO 6356</td>
</tr>
<tr>
<td>Thermal resistance</td>
<td>ISO 8302</td>
</tr>
</tbody>
</table>

*EN45545-2 testing has been carried out on various different substrates. This is the highest achieved result. Please ask for a full overview of specific results on different substrates by emailing transport@forbo.com

Please note: Digital representations may vary from actual product. Please order a physical sample to see the full effect by emailing transport@forbo.com

Full technical specifications are available on page 68.
**Coral Brush FR**

**The great all-rounder**

Coral Brush FR is suitable for all types of entrance areas, absorbing moisture and removing dry soiling as the weather demands.

- Cut to size/shape option
- High moisture absorption
- Dirt scraping for effective clean-off
- Excellent dirt storage/soil hiding
- Advanced colouring and design choice
- Reaction to fire EN 45545-2 : HL3
- Available with Pro-Fit backing for quicker installation

<table>
<thead>
<tr>
<th>Colour Reference</th>
<th>Description</th>
<th>LRV 1</th>
<th>LRV 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>5716FR</td>
<td>coriander brown</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5723FR</td>
<td>cardinal red</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5705FR</td>
<td>bondi blue</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5727FR</td>
<td>stratos blue</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5730FR</td>
<td>vulcan black</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5709FR</td>
<td>royal purple</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5715FR</td>
<td>charcoal grey</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5710FR</td>
<td>asphalt grey</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5706FR</td>
<td>brick red</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5754FR</td>
<td>straw brown</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5767FR</td>
<td>slate blue</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5724FR</td>
<td>chocolate brown</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5718FR</td>
<td>lead grey</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5719FR</td>
<td>lapis blue</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5721FR</td>
<td>hurricane grey</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5764FR</td>
<td>petrified grey</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5722FR</td>
<td>cornflower blue</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5714FR</td>
<td>shark grey</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5716FR</td>
<td>coriander brown</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5710FR</td>
<td>asphalt grey</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5706FR</td>
<td>brick red</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
<tr>
<td>5715FR</td>
<td>charcoal grey</td>
<td>LRV 1</td>
<td>LRV 2</td>
</tr>
</tbody>
</table>

*EN45545-2 testing has been carried out on various different substrates. This is the highest achieved result. Please ask for a full overview of specific results on different substrates by emailing transport@forbo.com*

*Please note: Digital representations may vary from actual product. Please order a physical sample to see the full effect by emailing transport@forbo.com*

Full technical specifications are available on page 68.
Coral Duo FR

The ultimate dirt and moisture remover

Coral Duo FR is the ideal solution when you need maximum dirt removal, unrivalled dirt retention and exceptional moisture absorption, all in just a couple of paces.

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

**Description**
- Tufted cut pile

**Dimensions**
- Roll width 185 cm
- Roll length ≤ 27.5 m

**Total thickness ISO 1765**
- 9.0 mm

**Pile weight**
- 670 g/m²

**Yarn**
- 100% polyamide of which 66% is regenerated ECONYL® Nylon

**Collection size**
- 8

**Area of use**
- Heavy use

**Impact noise reduction EN-ISO 717-2**
- ΔLw = approx. 29 dB

**Tested flammability standard EN 45545-2**
- HL2*

**Slip resistance EN 13893**
- µ ≥ 0.30

**Body voltage ISO 6356**
- < 2 kV

**Thermal resistance ISO 8302**
- 0.140 m².K/W

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Full technical specifications are available on page 68.
Where design meets environment

With its contemporary linear design and rich, deep pile, Coral Welcome FR packs the style and aesthetic appeal of a luxury carpet and makes an unequivocal statement in any entrance area.

- Cut to size/shape option
- High moisture absorption
- Dirt scraping for effective clean-off
- Excellent dirt storage/soil hiding
- Advanced colouring and design choice
- Reaction to fire EN 45545-2: HL3
- Available with Pro-Fit backing for quicker installation

**Description**
- Tufted cut pile

**Dimensions**
- Roll width: 190cm
- Roll length: ≤ 27.5m

**Total thickness**
- ISO 1765: 8.0mm

**Pile weight**
- 780g/m²

**Yarn**
- 100% regenerated ECONYL® polyamide

**Collection size**
- 8

**Area of use**
- Heavy Use

**Impact noise reduction**
- EN-ISO 717-2: ΔLw = approx. 27 dB

**Tested flammability standard**
- EN 45545-2: HL3*

**Slip resistance**
- EN 13893: µ ≥ 0.30

**Body voltage**
- ISO 6356: < 2 kV

**Thermal resistance**
- ISO 8302: 0.090 m².K/W

---

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Full technical specifications are available on page 68.
Real FR is our classic aesthetic, consisting of many carefully selected individual colour tones that combine to create beautifully graded colours, from warm neutrals and calm greys to exciting brights and trend led shades. Developed to create choice, Real FR can be mixed together or combined with other Marmoleum designs to provide more imaginative compositions.

Fresco FR has a strong palette of subtly blended tone-on-tone items, each creating a fresh, delicate and balanced aesthetic. The soft contrast of its refined marbled structure gives a gentle feel which sets the stage for calm and soothing interiors. The softness of Fresco FR enables it to sit well next to all other Marbled and Striato FR items.

Presenting the pure character of linoleum. The solid identity of Marmoleum Walton FR with its smooth surface and minimal, unpretentious material expression makes it the ultimate and pure representative of our linoleum flooring. Its plain visual makes Walton FR easily adaptable to the context it is used in, and the subtle texture gives it a soft and natural look.

The solid marble design of Marmoleum Concrete FR differentiates itself from the classic Marmoleum FR flooring with its subtle concrete structure. The color palette is neutral with both warm and cool tones, yet with an extension of 6 bright colours for creating a powerful accent in your floor design.

Vivace FR is our liveliest and most outspoken aesthetic made with six to eight tones in each colourway. The differentiated elements combine to create a chameleon-like product that adapts well to a multitude of interiors, co-ordinating easily with many other surface finishes and colours. The high-contrast construction of Vivace FR makes it a smart choice for areas prone to soiling, where the superior appearance retention of the product is valued.

Marmoleum Striato FR offers a palette that is neutral with warm tones and grey-infused hues spanning from light to dark, delivering natural looking floors that are great on their own and in combination with other floor coverings. The subtle linear pattern will easily pick up colours from its environment and works well with other materials.

Please ensure that ‘FR’ or ‘FR’ is clearly noted on all orders.
Marmoleum® FR² / marmoleum® striato FR

Marmoleum has a track record of over 150 years. A natural floor covering that is associated with sustainability, durability, high quality and innovative design.

For the rail sector, Marmoleum FR² and Marmoleum Striato FR, offer total versatility in terms of colour and design, but what makes these floor coverings really stand out is the fact that they are created using a high percentage of natural raw materials, with renewable and recycled contents.

- Homogeneous durable construction
- A sustainable floor covering
- Low life cycle costs – can be renovated and repaired
- A floor covering that is naturally bacteriostatic
- Reaction to fire EN45545-2: HL3
- Lightweight at 2.9kg/m²
- Wide range of designs and colourways
- Aquajet cut to shape/size service available
- Suitable for use with underfloor heating

Environmental leadership:

71% natural raw materials
29% of raw materials are rapidly renewable
44% recycled material content

*The above results are for Marmoleum FR². There is a small variation in results for Striato FR. Please ask for further details.

Infection control & Allergy UK

Independent testing by the University of Glasgow has proved that Marmoleum has a unique suitability for a diverse range of environments where hygiene and control of bacteria are important. Marmoleum FR²/Striato FR is also an Allergy UK approved floor covering.

Topshield²

All Marmoleum FR²/Striato 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, it is the ideal solution for heavy traffic rail vehicles.

Welding

In the majority of installations, Marmoleum does not need to be welded as it is completely dimensionally stable and will not shrink after proper installation. However, if welding is the preferred option, there are matching welding cords for every Marmoleum FR²/Striato FR design.

Aquajet

Forbo recognise that sometimes you may wish 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 the 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.

Forbo’s Marmoleum FR² and Striato FR have been independently confirmed as CO₂ neutral floor coverings in the cradle to gate phase of the product’s life cycle, without the need for offsetting.

In simple terms, the CO₂ produced in the extraction, transportation and manufacturing process of Marmoleum FR²/Striato FR is balanced by the removal of CO₂ through the growing of its natural ingredients such as flax, jute and rosin.

As such, Forbo Marmoleum FR²/Striato FR is the best flooring choice for every sustainable interior. By using durable materials in your rail projects, you can also contribute to a better environment.

A floor covering made from natural materials. Key materials from which Marmoleum FR²/Striato FR is created:

- linseed oil from the seeds of the flax plants
- fibres from jute stems
- rosin from pine trees
- upcycled wood residues from controlled sustainable forestry
- limestone
- pigments

For Marmoleum FR² introduction

MARMOLEUM FR² NATURALLY

Marmoleum FR² / Marmoleum® striato FR

MARMOLEUM FR² LINOLEUM

Forbo’s Marmoleum FR² and Striato FR have been independently confirmed as CO₂ neutral floor coverings in the cradle to gate phase of the product’s life cycle, without the need for offsetting.

In simple terms, the CO₂ produced in the extraction, transportation and manufacturing process of Marmoleum FR²/Striato FR is balanced by the removal of CO₂ through the growing of its natural ingredients such as flax, jute and rosin.

As such, Forbo Marmoleum FR²/Striato FR is the best flooring choice for every sustainable interior. By using durable materials in your rail projects, you can also contribute to a better environment.
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Marmoleum Striato FR offers a palette that has neutral and bright colours with warm tones and grey-infused hues spanning from light to dark, delivering natural looking floors that are great on their own and in combination with other floor coverings.

The subtle linear pattern will easily pick up colours from its environment and works well with other materials.
### Marmoleum FR²/Striato FR References by Design

<table>
<thead>
<tr>
<th>Marmoleum Options</th>
<th>Real FR²</th>
<th>Fresco FR²</th>
<th>Vivace FR²</th>
<th>Walton FR²</th>
<th>Concrete FR²</th>
<th>Striato FR</th>
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</thead>
<tbody>
<tr>
<td>2499FR² sand</td>
<td>2099FR² black</td>
<td>3403FR² Asian tiger</td>
<td>3315FR² Berlin red</td>
<td>3366FR² delta lace</td>
<td>3575FR² trace of nature</td>
<td></td>
</tr>
<tr>
<td>2631FR² dove grey</td>
<td>3125FR² golden sunset</td>
<td>3411FR² sunny day</td>
<td>3368FR² petrol</td>
<td>3301FR² moon</td>
<td>3575FR² white cliffs</td>
<td></td>
</tr>
<tr>
<td>2626FR² siber</td>
<td>3126FR² Tokyo</td>
<td>3413FR² green melody</td>
<td>3351FR² bottle green</td>
<td>3320FR² fluid clay</td>
<td>3516FR² Pacific beach</td>
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Flotex FR Vision | Traverse

32 Flocked Flooring

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

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

Flocked Flooring

Flotex FR is a unique, textile, flocked floor covering, combining the cleaning properties and durability of a resilient flooring with the comfort, slip resistance and acoustic properties usually associated with textiles.

- High definition print offers you complete freedom of design
- Bespoke design service
- Lightweight approximately 1225 gram/m²
- Easy to clean
- Impervious backing makes it suitable for wet cleaning
- Excellent acoustic properties up to 22 dB
- Slip resistance > 0.30
- Durable construction: using Nylon 6.6
- Dimensionally stable
- Improved indoor air quality (independently proven by Allergy UK)
- Easy to repair any damaged areas
- Ortho-phthalate free
- Cut to size/shape option
- Reaction to fire EN 45545-2 : HL2.

Flotex FR can be digitally printed. Its high definition quality and specialist printing technology allow for large endless pattern repeats and vivid lifelike colours. This creates a new dimension for Flotex FR and provides ultimate design flexibility for rail environments.

Flotex FR construction

- Glassfibre net reinforcement
- Flock adhesive
- Fibreglass nonwoven
- Closed cell PVC foam
- Nylon 6.6 pile

Please ensure that ‘FR’ is clearly noted on all orders.
fotex® colour FR

A collection of four semi-plain designs. The full colour palette can be viewed on pages 38 and 39.

**Metro FR**

Metro FR is a versatile semi-plain floor design which covers a wide and modern colour bank. The understated pattern conveys texture without definite form, creating an authentic feel that is unique to Flotex flooring.

Available in 35 colourways.

**Penang FR**

Flotex Penang FR offers a stunning look for any modern environment. It creates a subtle linear effect and comes in a range of rich modern shades.

Available in 21 colourways.

**Calgary FR**

Flotex Calgary FR offers a wide colour choice in a soft, natural design that works well in larger areas. The pattern can be easily combined with complementary Flotex or resilient ranges and is the perfect choice for application areas that require a muted ambience.

Available in 22 colourways.

**Canyon FR**

Flotex Canyon FR is a heavily grained semi-plain inspired by natural earth and rock. It has a distinctive strong texture with a medium contrast.

Available in 12 colourways.

---

**flotex® vision FR**

With over 500 individual items to choose from, plus the option to re-colour several designs, Flotex Vision FR is best viewed on our digital library (www.forbo-flooring.com/flotexvision) which is continuously updated. The designs fall into six broad categories of floral, image, lines, naturals, pattern and shape. High definition digital print designs that create superior textures and almost 3D like aesthetics.

**Floral FR**

A selection of eight floral designs, ranging from abstract, graphic flower motifs to romantic images of roses and butterflies. Each of the eight design types in this category is available in a variety of colourways.

**Image FR**

This design category contains a wide variety of photographic images that have been transformed into interesting and unique floors. Grass, leaves, water drops, buttons or zebra print are just some of the possibilities amongst the wide range of images.

**Lines FR**

Eight linear/stripe designs, each with their own characteristics, ranging from muted and sophisticated colourways to very complex and multi-colour.

**Naturals FR**

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

**Pattern FR**

The intricate play of networks and patterns creates a textured, non-directional visual. Each design in this category is available in a number of colourways.

**Shape FR**

A collection of organic shapes and motifs delivering beautiful all-over patterns, including both contemporary and traditional designs.
FLOTEX FR – CUSTOM DESIGN SERVICE

Create your own masterpiece using our custom design service alongside our high definition printing technology. Our experienced designers can help at any stage in the design process, depending on what involvement you require.

If you are looking for design ideas, re-colouration of existing designs or help with the development of a unique design that works perfectly with your rail interior design scheme, then we have the resource to help. Alternatively, you can choose from over 500 existing references in our Colour and Vision collections.

STEPS IN THE CUSTOM DESIGN PROCESS:

1. DESIGN BRIEF AND SAMPLES SENT VIA YOUR LOCAL FORBO REPRESENTATIVE.

2. FORBO DESIGN TEAM DEVELOP THE DESIGN.

3. MATCHING ANY PANTONE/NC/S/RAL OR MATERIAL SAMPLES SUPPLIED.

4. GRAPHIC DESIGN TO BE SENT TO THE CUSTOMER TO ENSURE THAT THE BRIEF IS FULFILLED.

5. A PHYSICAL SAMPLE IS THEN PRODUCED AND SENT TO THE CUSTOMER FOR THEIR APPROVAL. DISPATCHED WITHIN 10 WORKING DAYS.

6. ONCE ALL IS APPROVED BY THE CUSTOMER, THE ORDER CAN THEN BE PRODUCED.
Flotex® colour FR
metro FR | penang FR | calgary FR | penang FR

Description: Flocked flooring

Dimensions: EN ISO 24341
Roll width: 2m
Roll length: ≤ 30m

Total thickness: ISO 1765 3.3mm

Collection size: 90

Area of use: Heavy Use

Impact noise reduction: EN-ISO 717-2 ΔLw = ≥ 22 dB

Tested flammability: EN 45545-2 HL2*

Slip resistance: EN 13893 µ ≥ 0.30

Body voltage: ISO 6356 < 2 kV

Thermal resistance: ISO 8302 0.041 m².K/W

*EN45545-2 testing has been carried out on various different substrates. This is the highest achieved result. Please ask for a full overview of specific results on different substrates by emailing transport@forbo.com

Please note: Digital representations may vary from actual product. Please order a physical sample to see the full effect by emailing: transport@forbo.com

Full technical specifications are available on page 70.
GO ONLINE AND DISCOVER OVER 500 DESIGNS FOR YOUR FLOOR

STEPS IN THE FLOTEX VISION FR DESIGN PROCESS:

1. ACCESS:
   www.forbo-flooring.com/flotexvision

2. CHOOSE THE DESIGN CATEGORY (E.G. FLOTEX VISION PATTERN SHEET)

3. CLICK ON THE PRODUCT TAB TO SEE ALL THE DIFFERENT DESIGN AND COLOURWAY OPTIONS AVAILABLE IN THAT DESIGN CATEGORY.

4. CHOOSE THE REFERENCE THAT YOU PREFER (E.G. FLOTEX VISION – S570011 GRID)

5. CLICK ON THE FLOORPLANNER LINK UNDERNEATH THE SAMPLE IMAGE – HERE YOU CAN VIEW THAT REFERENCE IN A ROOM SETTING. YOU CAN CHANGE THE ROOM SCENE AND THE FLOORING PRODUCT/DESIGN/COLOUR IN ORDER TO GET A GOOD FEEL FOR HOW THAT REFERENCE LOOKS IN A RAIL VEHICLE.

6. IF YOU SEE A DESIGN THAT YOU LIKE BUT THE COLOURWAY OPTIONS DON’T WORK FOR YOUR PROJECT THEN CONTACT US AT TRANSPORT@FORBO.COM TO ENQUIRE IF IT WOULD BE POSSIBLE TO RE-COLOUR THAT PARTICULAR DESIGN. ALTERNATIVELY YOU CAN LOOK TO CREATE SOMETHING COMPLETELY BESPOKE.

Shown here is only a selection of the many different designs available. Most designs are available in numerous different colourway options. Flotex Vision is best viewed on our 'up-to-date' digital library: www.forbo-flooring.com/flotexvision

All designs are available in multiple colourways
THE PROVEN CLEANABILITY OF FLOTEX FR

With an unbeatable combination of performance attributes, Flotex flocked floor coverings have seen a huge rise in popularity in recent years and are now challenging conventional carpets in all sectors, including the global rail market where demanding conditions require flooring to be subjected to particularly rigorous cleaning regimes in order to maintain appearances.

Here, we discuss why operators in the rail sector are increasingly specifying flocked floor coverings for their rail vehicle projects, and with reference to recent research, show how the construction of this innovative type of floor covering offers unrivalled cleanability when compared with other textile floor coverings.

Key performance benefits

Flotex FR, electrostatically flocked floor coverings offer exceptional performance and provide a unique flooring solution, combining properties found in conventional resilient and textile flooring. Like resilient floor coverings, they are safe, hygienic, durable and washable, yet at the same time they offer the warmth, comfort, acoustic characteristics and slip resistance of textile flooring. These properties, together with the availability of fire resistant ranges and a phenomenal choice of aesthetic styling options, make flocked floor coverings an ideal solution for rail interiors.

Cleanability

The dense surface pile of a flocked floor covering makes it extremely durable, while its upright nylon filaments and impermeable PVC backing means it can be cleaned right down to the base. The nylon pile captures airborne allergens and fine dust, which is easily released with regular use of a standard upright vacuum cleaner. This contributes towards a superior indoor air quality – indeed Flotex FR is the only textile floor covering for rail to carry the Allergy UK Seal of Approval™

A recent Cleaning Research International study compared the cleanability of a flocked pile floor covering with a loop pile and cut pile carpet. Identically sized samples were conditioned, weighed and then soiled in accordance with BS EN 1269:1997 following Method B, using 10g of standard soil. They were then reconditioned and reweighed before being vacuumed with an upright cleaner fitted with a brush, a spray extraction, and a contra-rotating brush cleaner. At each stage, when dry, the samples were reconditioned and weighed to determine how much soil had been removed. The results below clearly demonstrate the superior cleanability of the flocked floor covering which had the least amount of soil remaining after each cycle, with a 77.7% mean of soil removed after the use of a contra-rotating brush cleaner.

Drying times

How long it takes for a floor covering to dry will also be of major concern to transport operators keen to minimise turnaround times. The research study also looked specifically at this aspect and tested the drying characteristics of flocked floor coverings alongside six different carpet constructions. Each floor covering was subjected to two passes using an industrial spray extraction machine and the remaining moisture content was measured after various periods of time, to establish how long each type took to dry.

The graph opposite shows that after just two hours, the flocked pile sample was substantially drier than all the other constructions of carpet, with only 0.57% moisture remaining, and after five hours, the pile was almost completely dry whereas other samples still retained significant amounts of moisture.

A superior solution for transport applications

Flocked floor coverings are clearly different to any other carpets on the market in terms of cleanability alone. Add in their more rapid drying times, their durability, allergy benefits, acoustic and slip resistant properties, fantastic styling options and the availability of an FR collection (reaction to fire EN 45545-2 : HL2), and it’s clear to see why this innovative floor covering is really going places in the rail sector.

Drying times

Here we show why operators in the rail sector are increasingly specifying flocked floor coverings for their rail vehicle projects, and with reference to recent research, show how the construction of this innovative type of floor covering offers unrivalled cleanability when compared with other textile floor coverings.

% Moisture content measured after two passes using an industrial spray extraction machine

% Soil Removal – Flocked v Cut Pile/Loop Pile Carpets

% Soil Removal

Cleaning & Maintenance Guide

You can find our latest rail specific cleaning and maintenance guides for the full portfolio of floor, wall and ceiling coverings on our website: www.forbo-flooring.com/transport

Alternatively you can scan the QR code to view and download the Rail Flotex FR Cleaning Video.

Source: Cleaning Research International
Tessera FR tufted carpets are renowned for their aesthetic styling and outstanding performance, even in the most demanding of heavy traffic environments. Tessera FR collection includes contemporary and classic styles to enhance a wide variety of rail vehicle interiors.

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.

- Durability and appearance retention, made from 100% nylon
- Flexibility for colourisation
- Slip resistance
- Reaction to fire EN 45545-2 : HL2
- Cut to size/shape option
- Available with Pro-Fit backing for quicker installation

Please ensure that ‘FR’ is clearly noted on all orders.

Tessera Nexus FR
Merging a metallic web overlay with a sophisticated striated ground, Tessera Nexus creates a network of connections.
**tessera® alignment FR**

Sophisticated and cleverly textured to complement the most contemporary rail interior design. Tessera Alignment FR is available in 24 colours.

---

**Description**
Tufted multi-height cut and loop pile carpet

**Dimensions**
- Roll width: 185cm
- Roll length: ≤ 27.5m

**Total thickness**
ISO 1765 6.0mm ± 10%

**Pile weight**
ISO 8543 730g/m²

**Yarn**
100% polyamide

**Collection size**
24

**Area of use**
Heavy Use

**Impact noise reduction**
EN-ISO 717-2 ΔLw = 25 dB

**Tested flammability standard**
EN 45545-2 HL2*

**Slip resistance**
EN 13893 µ ≥ 0.30

**Body voltage**
ISO 6356 < 2 kV

*EN45545-2 testing has been carried out on various different substrates. This is the highest achieved result. Please ask for a full overview of specific results on different substrates by emailing transport@forbo.com.

Please note: Digital representations may vary from actual product. Please order a physical sample to see the full effect by emailing: transport@forbo.com.

Full technical specifications are available on page 71.
An understated linear design, combining rich texture and visual appeal. Tessera Helix FR is available in 13 colours.

**Tessera Helix FR Carpet**

- **Description:** Tufted multi-height loop pile carpet
- **Dimensions:** EN-ISO 24341 Roll width 185cm
  Roll length ≤ 27.5m
- **Total thickness ISO 1765:** 6.0mm ± 10%
- **Pile weight ISO 8543:** 740g/m²
- **Yarn:** 100% polyamide
- **Collection size:** 13
- **Area of use:** Heavy Use
- **Impact noise reduction EN-ISO 717-2:** ΔLw = 26 dB
- **Tested flammability standard EN 45545-2:** HL2*
- **Slip resistance EN 13893:** µ ≥ 0.30
- **Body voltage ISO 6356:** < 2 kV

*EN45545-2 testing has been carried out on various different substrates. This is the highest achieved result. Please ask for a full overview of specific results on different substrates by emailing transport@forbo.com

Please note: Digital representations may vary from actual product. Please order a physical sample to see the full effect by emailing: transport@forbo.com

Full technical specifications are available on page 71.
Merging a metallic web overlay with a sophisticated striated ground, Tessera Nexus FR creates a network of connections in 9 contemporary colourways.
Designed specifically for rail interiors Coral Move FR is an exceptionally versatile, premium cut pile carpet solution offering extensive design possibilities and colourways to complement a wide range of interior design schemes.

Coral Move FR is a luxurious made-to-order floor covering, manufactured from 100% regenerated Econyl yarn, that offers the aesthetic styling, durability and longlasting appearance retention required for heavily trafficked carriage interiors.

Each Coral Move FR carpet is bespoke and our dedicated design team will work with you to deliver the desired aesthetic (design and colour), on a project by project basis.

- Extensive customisation possibilities, including high definition digital printing (Coral Move Vision FR)
- Premium cut-pile carpet specification achieves luxurious ambience and underfoot comfort
- Durability and appearance retention due to 100% nylon construction
- 100% of Coral Move FR yarn is Econyl® regenerated solution dyed polyamide
- Natural latex backing from rapidly renewable source
- Carpet pile density delivers slip resistance and outstanding acoustic properties
- Ease of maintenance due to open cut pile construction
- Reaction to fire EN 45545-2: HL3
- Available with Pro-Fit backing for quicker installation

Please ensure that ‘FR’ is clearly noted on all orders.
**DESIGN FLEXIBILITY**

Coral Move FR carpet allows for numerous tufting design styles which can give very different overall aesthetics. Six different design styles are shown here, but these are only suggestions.

Each Coral Move FR carpet is bespoke and our dedicated design team will work with you to match carpet design and colour requirements on an individual project by project basis.

There are 140+ colourways in the standard yarn collection, but special colours can be matched to RAL/Pantone references as required.

**Suggested design styles**

- Plain
- Flex
- Tweed
- Diagonal
- Dot
- Linear
The digital printing process makes non-linear type designs possible, is perfect for more complicated designs or when there are many different colourways within a design. Pantone and RAL colours can be matched.

You can work with our dedicated design team on an individual project basis to ensure that the resulting Coral Move Vision FR carpet meets your precise design and colour requirements.
Coral Move Vision FR – CUSTOM DESIGN SERVICE

Create your own masterpiece using our custom design service alongside our digital printing technology. Our experienced designers can help at any stage in the design process, depending on what involvement you require.

If you are looking for design ideas, re-colouration of existing designs or help with the development of a unique design that works perfectly with your rail interior design scheme, then we have the resource to help.

STEPS IN THE CUSTOM DESIGN PROCESS:

1. **Design Brief and Samples Sent In Via Your Local Forbo Representative.**

2. **Forbo Design Team Develop the Design.**

3. **Matching Any Pantone/NCS/RAL or Material Samples Supplied.**

4. **Graphic Design to Be Sent to the Customer to Ensure That the Brief is Fulfilled.**

5. **A Physical Sample Is Then Produced and Sent to the Customer for Their Approval.**

6. **Once All Is Approved by the Customer, the Order Can Then Be Produced.**
The robust, hard wearing properties of Fleet FR wall and ceiling covering, meets the demands of high traffic rail environments that require long lasting performance and ease of maintenance.

- Durable, high quality polyester fibres
- EN45545-2 (R1) : HL2*
- Reduces ambient noise, making it ideal for use in places that require a tranquil atmosphere and a minimum of noise distraction – sound absorption 4000 Hz : $\alpha_w = 0.25$
- Lightweight at 550g/m²**
- Self-adhesive backing allows for quick and easy installation, saving time and money
- Custom colouration can match NCS/RAL colours, to complement any design scheme

Please ensure that ‘FR’ is clearly noted on all orders.

*EN45545-2 testing has been carried out on a variety of different substrates. For details on all specific test results please email Forbo at transport@forbo.com

**This weight includes adhesive.
Fleet FR is available in the 8 colourways as shown below or can be manufactured in custom colourways to match any NCS/RAL reference.

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<td>7200227FR</td>
<td>violet</td>
<td>LRV 5</td>
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<td>7200210FR</td>
<td>LRV 20</td>
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</tbody>
</table>

**Fleet FR**

Wall and Ceiling Covering

**Dimensions**
- ISO 24341: Roll width 200 cm
- Roll length 25 lm

**Thickness**
- NF EN 29073-2: 3 mm

**Weight with adhesive**
- NF EN 29073-1: 550 g/m²

**Composition**
- NF ISO 1833-1: Polyester fibres + PSA rubber based adhesive

**Peeling strength**
- NF EN 1372: ≥ 0.5 N/mm

**Resistance to pilling**
- NF EN ISO 12951: 3

**Collection size**
- 8

**Impact noise reduction**
- NF EN ISO 717-2: $A_{SN} = 17.88$

**Fire test**
- EN 45545-2: E1

*Fleet FR (72) testing has been conducted on various substrates. For details on all specific test results, please email transport@forbo.com

Please note: Digital representations may vary from actual product. Please order a physical sample to see the full effect by emailing transport@forbo.com

Full technical specifications are available on page 73.
**PRO-FIT – THE INNOVATIVE INSTALLATION SYSTEM**

Pro-Fit is an adhesive free installation system, improving efficiencies in time, cost and operation throughout the life of the vehicle. It comprises an integral velour backing to the floor covering and a special fire retardant hook tape adhered to the sub-floor.

The Pro-Fit system is available for use with:

- **Coral FR entrance systems**
  (Classic FR/Brush FR/Welcome FR)
- **Coral Move FR/Coral Move Vision FR**
  broadloom carpet
- **Tessera FR broadloom carpet**
  (Nexus FR/Helix FR/Alignment FR)

Customers who use this system experience far shorter first installation times (normal adhesive installations require 24 hours drying time). For renewals the advantages are even greater as it is simply ‘pull up the old and drop down the new floor covering’ that is required. No glue removal, no difficult sanding, no drying time.

These advantages over traditional fully bonded adhesive systems mean cost savings for train operators as a result of:

- **Quicker and easier installation and replacement**
- **No need to wait for the adhesive to dry**
- **No waiting time before the carpet can be walked on**
- **Immediate use of the train after installation**

Please ensure that ‘FR Pro-Fit’ is clearly noted on all orders.

For example ‘Coral Classic 4751 FR Pro-Fit’. The Pro-Fit velour backing cannot be added to latex backed material after production.

Detailed Pro-Fit installation instructions are available on our website at: [www.forbo-flooring.com/transport](http://www.forbo-flooring.com/transport)
BESPOKE DESIGN SERVICE

The floor covering is a crucial element of any rail interior design; it creates the first impression and sets the tone. Whether you are looking to recreate a logo or design feature, match that perfect colour for your interior or visualise an entire rail flooring design scheme, we have the knowledge and technology to help and guide you every step of the way.

Our design team can offer support, guidance and advice based on their experience of rail design providing step by step assistance through the creative process from initial brief to approved samples.

**coral® FR**
Custom colourways are an option for each of the Coral FR entrance flooring system products.

**coral® logo FR**
Inset logos can be designed to match your requirements.

**flotex® vision FR**
Whether you are looking for a new colourway in an existing design or a bespoke design, our design team can help.

**marmoleum® FR2**
Re-colour any of the existing Marmoleum FR designs.

**marmoleum® striato FR**
Re-colour any of the existing Marmoleum FR/Striato FR designs.

**coral® move FR**
Each Coral Move FR carpet is bespoke. Different tufting styles give very different overall aesthetics.

**coral® move vision FR**
The digital printing process allows for extensive customisation possibilities in terms of design and colour.

**tessera® FR**
Re-colour any of the Tessera FR designs to tie into your interior design colour scheme.

**fleet® FR**
Custom colouration (matching to Pantone/RAL) is available for the wall and ceiling, Fleet FR product.

For all enquiries please contact your local Transport Key Account Manager to find out more or email: transport@forbo.com

SERVICES

In addition to the breadth of our rail portfolio combined with the flexibility in creating custom design and colour solutions tailored for your project, we realise that service is equally important in ensuring optimal efficiencies in time and cost management.

Forbo offer a range of services for both new build and refurbishment projects that ensure maximum efficiencies from delivery to storage, from labelling to packaging and from installation to operation.

**Cut to shape**
In order to save time and cost during installation, we are able to cut to specific roll lengths or to detailed floor plans, so that material can be dropped easily into place.
- Any geometry (including steps)
- Highly accurate in-house cutting technology
- Drawing plans can be imported for cutting e.g. DWG, DXF files

**Packaging**
Whether you need all deliveries on a specific pallet size or type, specific boxes, crates, or custom wrapping, Forbo will make sure that the packaging is to your specification and satisfaction.

**Material scheduling**
Appreciating that the flooring specifications and requirements for each carriage or car-set can vary, we can help by grouping together all materials specific to your build program ensuring the right materials find the right location. For example, this could include, the entrance matting for the vestibule area along with the saloon floor covering and any accessories such as Pro-Fit tape, all pre-cut, labelled and packaged as a kit.

**Bespoke labelling**
We offer a fully customized labelling service for all products tailored to your specifications, whether that be, part numbers, project references or barcodes for example. We’ll agree with you what information is required and will then create something unique for your project.

**Just in time logistics**
We understand that customers do not wish to be burdened with huge stocks of floor coverings for the duration of the project. Working to an agreed schedule of requirements Forbo will ensure that only the products required are delivered in accordance with your program.

Whatever your requirements are, we will work with you to ensure that the project runs smoothly and returns the maximum efficiencies in time and cost.
### TECHNICAL SPECIFICATIONS – CORAL FR

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th>Coral classic FR</th>
<th>Coral brush FR</th>
<th>Coral duo FR</th>
<th>Coral welcome FR</th>
</tr>
</thead>
<tbody>
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<td>Total thickness</td>
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<td>185 cm</td>
<td>185 cm</td>
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<tr>
<td>Roll length</td>
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<td>27.5 m</td>
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<td>3000 g/m²</td>
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<td>Pile installation weight</td>
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<td>920 g/m²</td>
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<td>6.0 mm</td>
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<td>100% polyamide of which 66% is regenerated Econyl polyamide</td>
<td>100% regenerated Econyl polyamide</td>
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<tr>
<td>Light fastness</td>
<td>EN ISO 105/B02</td>
<td>&gt; 7 &gt; 5 &gt; 5</td>
<td>&gt; 5</td>
<td>&gt; 5</td>
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<tr>
<td>Electrical resistance</td>
<td>ISO 10066</td>
<td>&gt; 10² Ω &gt; 10¹ Ω</td>
<td>&gt; 10¹ Ω &gt; 10¹ Ω</td>
<td>&gt; 10⁸ Ω</td>
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<tr>
<td>Impact noise reduction</td>
<td>EN ISO 717-2</td>
<td>ΔLw = approx. 31 dB</td>
<td>ΔLw = approx. 32 dB</td>
<td>ΔLw = approx. 29 dB</td>
</tr>
<tr>
<td>Area of use</td>
<td>Heavy Use</td>
<td>Heavy Use</td>
<td>Heavy Use</td>
<td>Heavy Use</td>
</tr>
<tr>
<td>Tested flammability</td>
<td>EN 45545-2</td>
<td>HL2*</td>
<td>HL3*</td>
<td>HL2*</td>
</tr>
<tr>
<td>flammability standards</td>
<td>ASTM E.648 Class 1</td>
<td>ASTM E.662 Class 1</td>
<td>ASTM E.662 Class 1</td>
<td>ASTM E.662 Class 1</td>
</tr>
<tr>
<td>Slip resistance</td>
<td>EN 13893</td>
<td>μ ≥ 0.30</td>
<td>μ ≥ 0.30</td>
<td>μ ≥ 0.30</td>
</tr>
<tr>
<td>Body voltage</td>
<td>ISO 6336</td>
<td>&lt; 2 kV</td>
<td>&lt; 2 kV</td>
<td>&lt; 2 kV</td>
</tr>
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<td>Thermal resistance</td>
<td>ISO 8302</td>
<td>0.15 m²·K/W</td>
<td>0.09 m²·K/W</td>
<td>0.140 m²·K/W</td>
</tr>
</tbody>
</table>

*EN45545-2 testing has been carried out on different substrates/adhesives. This is the highest achieving result.

Forbo Flooring Systems does its best to ensure that the contents of these technical documents are accurate at the time of publication. However for up to date technical specifications please refer to our website at: [www.forbo-flooring.com/transport](http://www.forbo-flooring.com/transport)

---

### TECHNICAL SPECIFICATIONS – MARMOLEUM FR² & STRIATO FR

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th>Marmoleum FR² Concrete FR²</th>
<th>Fresco FR²/Real FR²/Vivace FR²</th>
<th>Marmoleum Striato FR</th>
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<td>Topshield²</td>
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<td>≤ 32 m</td>
</tr>
<tr>
<td>Roll length</td>
<td>EN ISO 24341</td>
<td>≤ 32 m</td>
<td>≤ 32 m</td>
</tr>
<tr>
<td>Total weight</td>
<td>EN ISO 22997</td>
<td>approx. 2600 g/m²</td>
<td>approx. 2600 g/m²</td>
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<td>Residual indentation</td>
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<td>≤ 0.15 mm</td>
<td>≤ 0.15 mm</td>
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<tr>
<td>Physical properties</td>
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<td>Light fastness</td>
<td>ISO 105-B02 method 3a</td>
<td>Method 3a blue scale minimum 6</td>
<td>Method 3a blue scale minimum 6</td>
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<td>Impact noise reduction</td>
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<td>ΔLw = approx. 5 dB</td>
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<td>Area of use</td>
<td>Heavy Use</td>
<td>Heavy Use</td>
<td>Heavy Use</td>
</tr>
<tr>
<td>Tested flammability</td>
<td>ASTM E.648 Class 1</td>
<td>Class 1</td>
<td>Class 1</td>
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<tr>
<td>flammability standards</td>
<td>ASTM E.662 flaming Pass</td>
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<td>Pass</td>
</tr>
<tr>
<td>Slip resistance</td>
<td>EN 13893</td>
<td>μ ≥ 0.30</td>
<td>μ ≥ 0.30</td>
</tr>
<tr>
<td>Body voltage</td>
<td>EN 1815</td>
<td>≤ 2 kV</td>
<td>≤ 2 kV</td>
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<tr>
<td>Thermal conductivity</td>
<td>EN 13524</td>
<td>0.17 W/m²·K</td>
<td>0.178 W/m²·K</td>
</tr>
</tbody>
</table>

*EN45545-2 testing has been carried out on different substrates/adhesives. This is the highest achieving result.

Forbo Flooring Systems does its best to ensure that the contents of these technical documents are accurate at the time of publication. However for up to date technical specifications please refer to our website at: [www.forbo-flooring.com/transport](http://www.forbo-flooring.com/transport)
### TECHNICAL SPECIFICATIONS – FLOTEX FR

<table>
<thead>
<tr>
<th>Specification</th>
<th>Flotex FR</th>
<th>Flotex vision FR</th>
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<tr>
<td>Total thickness</td>
<td>ISO 1765</td>
<td>3.3 mm</td>
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<td>Total weight</td>
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<td>EN ISO 105/882</td>
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<td>Electrical resistance</td>
<td>ISO 10965</td>
<td>≥ 10⁹ Ω</td>
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<td>EN ISO 717-2</td>
<td>ΔLw ≥ 22 dB</td>
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<td>Heavy Use</td>
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<tr>
<td>Tested flammability standards</td>
<td>EN 45545-2</td>
<td>HL2*</td>
</tr>
<tr>
<td>Slip resistance</td>
<td>EN 13893</td>
<td>μ ≥ 0.30</td>
</tr>
<tr>
<td>Body voltage</td>
<td>ISO 6356</td>
<td>&lt; 2 kV</td>
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<tr>
<td>Thermal resistance</td>
<td>ISO 8107</td>
<td>0.041 m²/KW</td>
</tr>
</tbody>
</table>

*EN45545-2 testing has been carried out on different substrates/adhesives. This is the highest achieving result.

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### TECHNICAL SPECIFICATIONS – TESSERA FR

<table>
<thead>
<tr>
<th>Specification</th>
<th>Tessera nexus FR</th>
<th>Tessera helix FR</th>
<th>Tessera alignment FR</th>
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<td>2500 g/m²</td>
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<td>Electrical resistance</td>
<td>ISO 10965</td>
<td>&gt; 10⁹ Ω</td>
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</tr>
<tr>
<td>Impact noise reduction</td>
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<td>ΔLw = 25 dB</td>
<td>ΔLw = 26 dB</td>
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<tr>
<td>Tested flammability standards</td>
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<td>HL2*</td>
<td></td>
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<tr>
<td>Slip resistance</td>
<td>EN 13893</td>
<td>μ ≥ 0.30</td>
<td></td>
</tr>
<tr>
<td>Body voltage</td>
<td>ISO 6356</td>
<td>&lt; 2 kV</td>
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</tr>
</tbody>
</table>

*EN45545-2 testing has been carried out on different substrates/adhesives. This is the highest achieving result.

Forbo Flooring Systems does its best to ensure that the contents of these technical documents are accurate at the time of publication. However for up to date technical specifications please refer to our website at: www.forbo-flooring.com/transport
### TECHNICAL SPECIFICATIONS – CORAL MOVE FR & CORAL MOVE VISION FR

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th>Coral move FR</th>
<th>Coral Move Vision FR</th>
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<td>Light fastness</td>
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<td>≥ 6</td>
</tr>
<tr>
<td>Electrical resistance</td>
<td>ISO 10965</td>
<td>≥ 10 Ω</td>
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<tr>
<td>Impact noise reduction</td>
<td>EN ISO 717-2</td>
<td>ΔLw ≥ 28 dB</td>
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<td>Area of use</td>
<td>Heavy Use</td>
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<tr>
<td>Tested flammability standards</td>
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<td>Slip resistance</td>
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<td>Body voltage</td>
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<td>Thermal resistance</td>
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</tbody>
</table>

*EN45545-2 testing has been carried out on different substrates/adhesives. This is the highest achieving result.

For a full overview of specific results on aluminium and plywood subfloors please ask.

Forbo Flooring Systems does its best to ensure that the contents of these technical documents are accurate at the time of publication. However for up to date technical specifications please refer to our website at www.forbo-flooring.com/transport

### TECHNICAL SPECIFICATIONS – FLEET FR

<table>
<thead>
<tr>
<th>Technical specifications</th>
<th>Fleet FR</th>
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<tr>
<td>Roll length</td>
<td>EN-ISO 24341</td>
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<tr>
<td>Composition</td>
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<tr>
<td>Thickness (under 0.1 kPa)</td>
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<tr>
<td>Weight with adhesive</td>
<td>NF EN 29073-1</td>
</tr>
<tr>
<td>Peeling strength</td>
<td>NF EN 1372</td>
</tr>
<tr>
<td>Resistance to pilling (Lisson test)</td>
<td>NF EN ISO 12951</td>
</tr>
<tr>
<td>Colour fastness</td>
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<tr>
<td>Colour fastness to light</td>
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<tr>
<td>Colour fastness to rubbing dry</td>
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<tr>
<td>Colour fastness to rubbing wet</td>
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<tr>
<td>Colour fastness to rubbing organic solvent</td>
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<td>Fire test</td>
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</tbody>
</table>

*EN45545-2 (B1) testing has been carried out on a variety of different substrates. For details on all specific test results please email Forbo at transport@forbo.com

Forbo Flooring Systems does its best to ensure that the contents of these technical documents are accurate at the time of publication. However for up to date technical specifications please refer to our website at www.forbo-flooring.com/transport
INSTALLATION, CLEANING & MAINTENANCE

Installation Guide
You can find our latest rail specific installation guide for the full portfolio of floor, wall and ceiling coverings on our website: www.forbo-flooring.com/transport

Alternatively you can scan the QR code to view and download the Rail installation guide pdf.

Cleaning & Maintenance Guide
You can find our latest rail specific cleaning and maintenance guide for the full portfolio of floor, wall and ceiling coverings on our website: www.forbo-flooring.com/transport

Alternatively you can scan the QR code to view and download the Rail cleaning and maintenance guide.

Any queries regarding installation or cleaning and maintenance guidelines for the rail portfolio of floor and wall products please contact your local Key Account Manager or contact us:

Email: transport@forbo.com
Tel: +44 (0)1773 744121

FURTHER INFORMATION

Online services
Access Forbo 24/7 to find inspiration and information by visiting www.forbo-flooring.com/rail. You can also follow the Forbo Transport page on Linkedin and Twitter, for up-to-date product information, new projects, events happening and general industry news. Alternatively contact us by email at transport@forbo.com

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@forbotransport

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www.forbo-flooring.com/transpress

Sample service
To request a brochure, sample cards or specific sampling material, please send your request to transport@forbo.com. We aim to dispatch transport requests same day/next day whenever possible.

For more information about any of the products or services offered by Forbo Flooring Systems, contact us on:

Email: transport@forbo.com
Website: www.forbo-flooring.com/rail
Tel: +44 (0)1773 744121
From how they’re made to how they perform, we make outstanding floors that are truly sustainable. That’s because our floors are good for people, good for their applications and good for the environment. So, from the train that they’re in, to the world outside, we’re helping our customers work, live, travel and relax in better environments.

**It’s about the things you can’t see**

A Forbo floor is always beautiful and stylish to look at. A floor that’s comfortable to live, work and play on. But looks aren’t everything; often, it’s the things you can’t see that really matter. We believe true sustainability is about creating links of shared responsibilities and values between all stakeholders.

**From how it’s made, our footprint…**

From how we run our factories to how we choose our ingredients, the way we make our floors is a big part of how we meet our mission to create better environments.

We reduce, reuse, recycle and renew whenever possible. We also make our flooring in clean, efficient factories, powered by 100% renewable electricity.

**…to how it performs, your footsteps…**

We include the whole life of a floor when we think about its sustainability performance. Which means we make sure our floors start performing from the moment they’re installed.

**Creating Better Environments**

We’ll only keep Creating Better Environments if we keep improving and innovating our products and services.

So, while we’re proud of our existing certifications, we’ll always be working to achieve better results – for you and the environment.

**Coral FR**

Coral FR entrance flooring can stop up to 95% of dirt being walked into your rail vehicles. Entrance systems can reduce your cleaning bills by up to 65% thus saving you money, energy and chemical cleaners. They also reduce your environmental impact.

From old carpet fluff to abandoned fishing nets, many of our Coral FR collections are made from ECONYL® – a high quality yarn made from 100% regenerated polyamide.

We make Coral FR in a factory that runs entirely on green electricity and sends virtually zero waste to landfill.

**Flotex FR**

The unique design of Flotex FR means it releases twice as many allergens on cleaning than standard carpet. Flotex is proven to have a positive effect on the lives of allergy sufferers and is the only textile floor covering to receive the prestigious Allergy UK Seal of Approval™.

Our Flotex FR flooring has an impervious backing making it suitable for wet cleaning and it often just needs water and standard cleaning materials (without chemicals).

Recent research by Cleaning Research International has shown that the cleanability and durability of flocked floor coverings are unsurpassed amongst textile floor coverings which, along with the allergy benefits makes them particularly suited to high-traffic spaces.

**Marmoleum FR2**

Marmoleum FR2 is made from 71% natural raw materials, 29% of which are rapidly renewable and will grow back within ten years. It is also made with 44% recycled material content, to reduce the need for virgin raw materials.

At the end of its long life, Marmoleum FR2 is 100% biodegradable under controlled conditions.

We finish Marmoleum FR2 and Striato FR with Topshield®, which, together with its natural bacteriostatic properties means the floor is hygienic and needs less cleaning with less harmful chemicals.

**Tessera FR**

We’re reducing the amount of virgin materials we use. For example, instead of throwing away yarn ends, we rewind them and tuft them into our Tessera carpet tiles.

All tufted Tessera carpets are manufactured using 100% renewable energy (electricity & biogas).
Forbo Flooring Systems is part of the Forbo Group, a global leader in flooring and movement systems, and offers a full range of flooring products for commercial and affordable housing and new build markets. High quality linoleum, vinyl, textile, flocked and entrance flooring products combine functionality, colour and design, offering total flooring solutions for any environment.