mFLOR design floors offer a host of benefits. They look like natural wood or stone floors, but without the drawbacks that they bring.

The advantages:

- True-to-life appearance.
- Water-resistant and therefore suitable for humid spaces, such as bathrooms and kitchens.
- Easy to clean.
- Highly resistant to wear and tear, and easy to maintain.
- Quiet underfoot.
- Suitable for underfloor heating and cooling.
- Ultra-low emissions of volatile organic compounds for a healthy indoor climate.
- Guaranteed for up to 15 years.

mFLOR design floors therefore offer the ideal flooring solution.

Innovative designs
mFLOR is all about innovative designs:

- Natural appearances developed in-house.
- Ability to cover very large areas.
- In Register Embossing, which ensures that the structure of the wear layer is in line with the design. All mFLOR ‘Authentic’ collections make use of this technique, which makes the strips look and feel exactly like natural wood products.
- Use of the very latest printing techniques, ensuring that no strip or tile looks like any other. This is important, as in nature everything is unique and nothing is replicated exactly.

Highest quality
mFLOR creates floors that not only are extremely attractive, but are also safe and durable. We go to great lengths to ensure the highest standard of quality. So this is not only reflected in beautiful designs, but also in the composition of the product:

- mFLOR only uses raw and auxiliary materials with low levels of chemical emissions, enabling us to keep the impact on the air quality and exposure to chemical components to a minimum.
- mFLOR uses only the purest vinyl, so that it is crystal clear.
- And because only the purest vinyl is used, all mFLOR floors provide full dimensional stability across their entire surface area.

This way you can rest assured that when you choose mFLOR, you are choosing the very highest quality.
MFLOR and the environment

MFLOR cares about the environment and surroundings that we live in. We are continuously investing in environmentally friendly products and production processes. The MFLOR factory is ISO-14001 certified, meaning its production activities have a neutral effect on the local environment.

MFLOR products are designed to provide maximum wear resistance with minimum weight in order to minimize the energy costs of their transportation. The high quality of MFLOR products ensures a long service life, whilst their physical characteristics make them easy to clean using limited quantities of water and no harmful chemicals.

Emissions

Unfortunately there is no uniform European standard for emissions, rather each EU member state is permitted to develop its own standard.

The most stringent of standards within Europe is the AgBB/DIBt standard used in Germany:

- All MFLOR floors possess extremely low emission values. This means our products are more than full the German AgBB/DIBt standard, which is the most stringent European standard for emissions and a healthy internal climate. MFLOR is also certified by the German Institute for Building Technology (Deutsches Institut für Bautechnik).

In addition to the various country-specific standards, there are many voluntary standards that have been developed in this field, such as the Blaue Engel in Germany. All of these standards are assessed by standardised laboratory test methods.

The many different standards can cause some degree of confusion. That is why Eurofins – the leading international testing laboratory – has developed its own, more comprehensive Indoor Air Quality standard. The Indoor Air Quality Gold Standard is an extension of this and tests for a wider range substances, setting lower permissible emission values than any of the individual national standards. This is shown in the diagram below, which compares the limits of standards against the test results of MFLOR products.

This demonstrates that:
- The most stringent European standards allow a total VOC (Volatile Organic Compound) emission rate of 160 μg/m³.
- The Eurofins voluntary standard (i.e. not legally binding) allows a total VOC emission rate of 1000 μg/m³.
- The test results show that MFLOR products emit a mere 27 μg/m³ of VOC, guaranteeing a minimal impact on air quality when you opt for MFLOR.

Product composition

- Chemicals that may be harmful to health or the environment in Europe are centrally classified by the ‘European Chemicals Agency (ECHA)’ under EU Regulation No. 1907/2006.
- This is achieved by means of the ‘Registration, Evaluation, Authorisation and restriction of Chemicals (REACH)’ system.
- For certain specific high-risk products, such as toys and childcare items that can be placed in the mouth, it is stipulated exactly which chemicals may or may not be present, and in what quantities.

MFLOR design floors – as safe as children’s toys that they can put in their mouth!

Our products have always met the highest ECHA standards for the use of plastic materials in buildings. In 2013, we modified our product composition and, as a result, our floors now comply with the same regulations as the standard for plastic materials in toys and children’s items that they can put in their mouth. The GREEN designation added behind our brand name demonstrates compliance with these REACH regulations.

So you can be sure that your floor is completely safe – which is very good to know.

This is achieved by means of the ‘Registration, Evaluation, Authorisation and restriction of Chemicals (REACH)’ system.

As well as exceeding the requirements of DIBt, French A+ air quality standard, Blaue Engel and Eurofins Gold Standard, MFLOR products also comply with: M1 standard (NS-EN 15251-2007) for buildings designed to BREEAM NO R standard.

MFLOR products are also eligible to score points when used in buildings designed to LEED protocols.

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www.indoor-air-comfort.com
MFLOR – glue down design floors

MFLOR offers an extensive collection of high-quality vinyl floors that are glued down to the subfloor. MFLOR design floors consist of multiple high-grade layers and environmentally friendly materials. MFLOR is available in wood, stone and concrete designs. These designs are indistinguishable from the original products, but are quieter, more wear-resistant, more water-resistant and easier to clean.

MFLOR glue down design floors are available in the 20-03 and 25-05 collections.

20-03 These collections are 2mm thick and have a 0.3mm wear layer, which makes them suitable for domestic use.

25-05 These collections are 2.5mm thick and have a 0.55mm wear layer, which makes them suitable for commercial use.

Both collections come with an additional protective layer of polyurethane (PU), providing extra protection for transport and processing in particular.

All MFLOR products exceed the requirements of DIBt, French A+ air quality standard, Blaue Engel and Eurofins Gold Standard.
Argyll Fir
Total thickness 2.0mm with 0.3mm wear layer.
Dimensions of strips: 121.92 x 22.86cm. 12 strips per pack (3.34m²).

Hokido Ash
Total thickness 2.0mm with 0.3mm wear layer.
Dimensions of strips: 121.92 x 22.86cm. 12 strips per pack (3.34m²).
Woburn Woods

Total thickness 2.0mm with 0.3mm wear layer.
Dimensions of strips: 121.92 x 18.29cm, 15 strips per pack (3.34m²).
In Register Embossing

The wear layer of vinyl flooring can be given a texture; this is known as embossing, and it makes the floor look even more realistic. The latest development is known as In Register Embossing, which ensures that the texture of the wear layer follows the design of the film layer precisely. This makes the strips look and feel exactly like natural wood products. In short, if you see knots, with In Register Embossing you can actually feel them.

All MYLOR design floors labelled ‘Authentic’ have been made using this special In Register Embossing technique. What is more, the ‘Authentic’ collections are composed of two films per design instead of one. This use of two films makes the floor look even more natural and vibrant.

See also our Authentic GRAND collection on page 33.

Authentic Langster Plank

Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips 137.16 x 18.42cm, 12 strips per pack (3.03m²).

- 82213 Silver Spruce
- 82214 Norway Larch
- 82215 Longleaf Pine
- 82216 Grey Fir
**Authentic Oak**
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips 121.92 x 22.86cm. 12 strips per pack (3.34m²).

**Authentic Plank**
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips 121.92 x 18.42cm. 15 strips per pack (3.37m²).

[Images of various wood samples labeled with codes such as 56281 Heartwood, 81011 Mocha, 56282 Water Oak, 81013 Verde, 56283 Chinkapin, 81014 Lilylam, 56284 Tanoak, 81015 Shade, 56285 Scarlet Oak, 81016 Cupric, 56286 Shumard, 81017 Lumin, 81021 Brazil]
**Broad Leaf**
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips: 121.92 x 18.42cm. 15 strips per pack (3.37m²).

**English Oak**
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips: 121.92 x 18.42cm. 15 strips per pack (3.37m²).
Estrich Stone
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of tiles: 60.96 x 60.96cm. 9 tiles per pack (3.34m²).

Flagstone Bauxite
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of tiles: 91.44 x 45.72cm. 8 tiles per pack (3.34m²).
Fonteyn
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of tiles: 91.44 x 91.44cm. 6 tiles per pack (5.02m²).

Harbour Plank
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips: 91.44 x 15.24cm. 24 strips per pack (3.34m²).
Langster Plank
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips: 137.16 x 18.42cm. 12 strips per pack (3.03m²).

Nuance
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of tiles: 91.44 x 45.72cm. 8 tiles per pack (3.34m²).
Pine Wood
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips: 121.92 x 18.42cm. 15 strips per pack (3.37m²).
Stylestone

Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of tiles: 60.96 x 30.48cm. 18 tiles per pack (3.34m²).

Zebrano Wood

Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips: 91.44 x 15.24cm. 24 strips per pack (3.34m²).
The MFLOR GRAND collections consist of planks of an especially large size. The GRAND planks are no less than 200cm long and 20cm wide, allowing you to create an even more realistic appearance for your wood plank floor.

MFLOR is the only manufacturer of vinyl floors with 2m planks that are produced using the hot press method. Despite the large plank size, this production method actually guarantees an even sturdier and more stable product.

The GRAND collections are available in the 25-05 collections, with 2.5mm thick strips and a 0.55mm wear layer that is suitable for commercial use.

The MFLOR Authentic GRAND Country Willow collection (page 33) even features In Register Embossing, which in combination with the large size gives the floor the most natural and realistic appearance possible.

For more information about In Register Embossing, see page 14.
GRAND Chesham Oak
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips: 200 x 20cm. 10 strips per pack (4m²).

GRAND Laurel
Total thickness 2.5mm with 0.55mm wear layer.
Dimensions of strips: 200 x 20cm. 10 strips per pack (4m²).

- 11107 Coledale
- 17101 Stainforth
- 11108 Mosedale
- 17102 Downholland
- 11109 Newlands
- 17103 Selby
- 11110 Calder
- 17104 Greasby
- 11112 Ashstead
- 17105 Dibbin
- 11113 Wonder
- 17106 Weaver
GRAND Peterhouse Pine
Total thickness 2.5mm with 0.55 wear layer
Dimensions of strips: 200 x 20cm. 10 strips per pack (4m²).

GRAND Stockton Oak
Total thickness 2.5mm with 0.55 wear layer
Dimensions of strips: 200 x 20cm. 10 strips per pack (4m²).
Specifications **MFLOR 20-03 & 25-05**

**MFLOR 20-03**
- Floorcovering to ISO 10581
- ISO 14001
- ISO 9001
- ISO 20480 Thickness of wear layer: 0.30 mm + Polyurethane
- ISO 20486 Total thickness: 2.5mm
- ISO 20487 Weight: ca. +/-3.50kg/m²
- ISO 20489 Dimensional stability
- EN 1081 Electrical resistance: Horizontal: >1 x 10¹³ Ω
- Vertical: 1.0 x 10¹² Ω
- EN 1815 Anti-slip performance
- Rubber sole: >50kN
- PVC sole: >24kN
- ISO 10140-1 Maximum acoustic insulation: Rₜₚ=38 dB
- EN 12667/ISO 6932 Thermal resistance: ø=0.055 m²·K/W
- EN 13511-1 – 1.2077 Bending behaviour: 8 s, x = 1
- ISO 20487/ISO 8932 Peel strength: 1.8 mm
- ISO 4518 Scratch resistance
- EN 12893 Slip resistance: 0.40µm (B10)
- ISO 105772 Usage category: 22 – General domestic use
- ISO 20488/ISO 8932 Resistance to chemicals: Class O – Good
- EN 71 Toxicity: Non-toxic
- AGB/DIBt Low-V.O.C. Certified
- EN ISO 15862 Light fastness: 6-8, Depends on design
- Underfloor heating: 28ºC

**MFLOR 25-05**
- Floorcovering to ISO 10581
- ISO 14001
- ISO 9001
- ISO 20480 Thickness of wear layer: 0.55 mm + Polyurethane
- ISO 20486 Total thickness: 2.5mm
- ISO 20487 Weight: ca. +/-4.35kg/m²
- ISO 20489 Dimensional stability
- EN 1081 Electrical resistance: Horizontal: >1 x 10¹³ Ω
- Vertical: 1.0 x 10¹² Ω
- EN 1815 Anti-slip performance
- Rubber sole: >50kN
- PVC sole: >24kN
- ISO 10140-1 Maximum acoustic insulation: Rₜₚ=38 dB
- EN 12667/ISO 6932 Thermal resistance: ø=0.055 m²·K/W
- EN 13511-1 – 1.2077 Bending behaviour: 8 s, x = 1
- ISO 20487/ISO 8932 Peel strength: 0.51mm
- ISO 4518 Scratch resistance
- EN 13893 Slip resistance: 0.3µm (B10)
- ISO 105772 Usage category: 33 – General commercial use
- ISO 20488/ISO 8932 Resistance to chemicals: Class O – Good
- EN 71 Toxicity: Non-toxic
- AGB/DIBt Low-V.O.C. Certified
- EN ISO 15862 Light fastness: 6-8, Depends on design
- Underfloor heating: 28ºC

**Cleaning and maintenance**

**MFLOR Cleaner Mat**
A cleaning product for regular maintenance.

**MFLOR Polish Mat**
A specially developed protection product for periodic maintenance.

**Feature Strip Inlays**
Special inlays are available for all MFLOR design floors. Available in the following colours and sizes, they can add a distinctive new look to your flooring.

**BEIGE**
- 2.8mm and 3.4mm

**GREY**
- 2.8mm, 3.4mm and 5mm

**BROWN**
- 2.8mm and 3.4mm

**BLACK**
- 2.8mm, 3.4mm and 5mm

**Design your very own floor**

On our website www.mflor.com, you will find our handy tool MFLOR Studio.

The tool contains a wide variety of photographs of interiors to choose from and you can view any of them with the MFLOR floor of your choice. You can also select the furnishings, wall colours and laying patterns of the floor, in line with your wishes. That way, you can create an MFLOR floor of your very own.

**MFLOR app for iPhone and Android**

MFLOR has developed an inspiring app that enables you to visualise an MFLOR floor in your own living environment!

Simply use your smartphone to take a photo of your room, browse through the innovative collections of design floors from MFLOR and try out as many MFLOR floors as you like! With this app, deciding which MFLOR floor looks best in your room(s) is simplicity itself! You can even upload your photos to Facebook or Twitter.