

Floor tiles

Fortelock

Quickly
and easily

FASTER RENOVATION

4x

Fortemix

Fortemix

ReCreating Building Materials

Content

Fortemix	3
Fortelock flooring	5
Production and warehousing	7
Business premises	9
Sports and fitness	11
Car and tire service	13
Electrostatic facilities	15
Garages and workshops	17
Granite collection	19
MAX collection	20
Industry	21
XL	22
Invisible	23
Light	24
Decor	25
ESD and XL ESD	26
Floor moldings, ramps and corners	27
Tile rental, recycling, varnishing	28
Visualization, configurator, onsite inspection	29
Technical data	30
Installation	31



Our philosophy is to protect surroundings for future generations. That is why we produce technically sophisticated patented products which renovate floors without demolition. In addition, thanks to the use of waste, **we save over 2,400,000 kg of plastic from incineration** or landfill every year.



Not only will we prevent plastic from being dumped into landfills, but we will save 4,396,000 kg of CO₂, equivalent emissions of almost 1,000 cars* and in addition we save 580,000,000 liters of water every year.**



Renovating the floor with PVC tiles will also save 80% of emissions compared to a new concrete floor. All our tiles are recyclable, a minimum waste and emission is generated during production, and we also buy old products. We crush production scrap on our own crushers. This way, no defective pieces have to leave the factory and are soon back in production. In addition, we are able to recycle our products even after the end of their service life, which is very long. Our factory was also mainly built from used materials. Most of our halls and offices are built out of old structures, used insulation and panels.

* Calculated from emissions of 2.1 kg CO₂ eq. / kg of primary plastic saved after deducting recycling and processing emissions 0.268 kg CO₂ eq./kg

**Calculated from the water consumed by producing 242 l / kg of primary plastic after deducting recycling and processing emissions 0.268 kg CO₂ eq./kg

A family business which hasn't been focusing only on profit for 30 years.

Every business must be profitable in order to survive. We also believe that companies and their people have more potential and capabilities than just generating profit. Companies should go above and beyond and take more responsibility for their employees and the entire planet.

Production of plastic products Fortelock and Ekoternit

- Highly modern presses for the production of tiles and roofs
- Annual capacity over 250,000 m²
- Modification and preparation of own granules and regranulates
- Our own printing and varnishing line



Abrasive and cement mixture Fortedur production

- Automatic line for mixing dry mixtures
- Capacity >130 000 tones



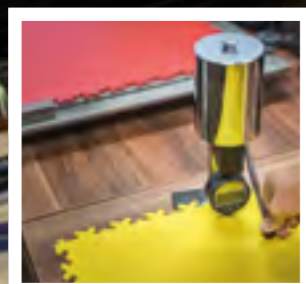
Sales and customer service department

Trusted by customers from more than 31 countries



Our own development department

- Locktest developed by us
- Test injection molding machine
- Our own climate chamber
- Size measurement with an accuracy of 0.001 mm in 6 points



It means to us that ...

... we are approaching waste-free production and buying out old products.

We crush production scrap on our own crushers. This way, no defective pieces have to leave the factory and are soon back in production. In addition, we are able to recycle our products even after the end of their service life, which is very long

... we transform the old into the new.

We save over 2,400,000 kg of plastic from incineration or landfill every year.

... we donate more than 1% of sales annually to help those in need (over CZK 8 million in total so far).

Not everyone is fortunate. Since we usually are the obligation to share at least financially with those who do not have so much. That is why we support, for example, Hospice Ondrášek, inclusive education of People in Need and Charity, The whole Czech Republic reads to children, Centrum pant, Memory of the nation, and server for teaching history Modern history etc. The amount of the donation is up to our employees.

... we mainly build from used materials.


Most of our halls and offices are built out of old structures, used insulation and panels.

...Not only will we prevent plastic from being dumped into landfills, but we will save 4,396,000 kg of CO₂, equivalent emissions of almost 1,000 cars and in addition we save 580,000,000 liters of water every year.


Fortelock PVC tiles


... quickly and easily


The Fortelock system consists of interconnected PVC tiles that can be installed on top of any kind of new and old sub-floor.


 **12 year warranty**
25 years service life

 **High load:**
Up to 520 kg/cm²


 **Recycling:**
100% recyclable, ECO variants made out of recycled material


 **Maintenance and resistance:**
Easy to maintain and resistant to chemicals

 **Anti - slip and safety:**
Most tiles have R10 anti - slip and thus protect workers from accidents


 **Speed:**
4 x faster than common floor repairs therefore there is no need to limit operation


 **Unique design:**
We developed a special snake skin pattern which has a unique design and is easier to clean


 **Quiet and warm:**
It reduces noise, vibrations and cold ensuring better work conditions

 **Strong connection:**
Durable locking system withstands weight of up to 463 kg

 **Easy to repair:**
Simply replace only one tile

 **Floor moldings, ramps and corners:**
Everything is custom made in the same shades as the floor

 **Sub-floor:**
May be used on top of any kind of sub-floor therefore saves up to 80% of floor renovation time

 **Varnishing and print:**
Varnishing and customer print option

Production and warehousing

- High mechanical and chemical resistance for industrial loads
- Fortelock Industry floor can withstand a point load of up to 520 kg per 1 cm²
- Can be assembled in parts outside the hours of operation
- Easy MAINTENANCE and surface cleaning
- Anti-slip surface increases safety
- The floor is suitable for areas with forklift operation
- Highlight work zones with colored tiles
- Minimum requirements for sub-floor preparation – up to 80% time SAVING

“The floor is easy to repair and it is immediately walkable. We don't have to stop operation because of that. It is unthinkable for us to stop the operation even for 3-4 days.”

Floordesign

”

For heavy load equipment > **Industry**

(page 21)

For uneven and damaged sub-floor > **Industry**

(page 21)

For seamless appearance > **Invisible**

(page 23)



Business premises

- Installation is easy, you can handle it overnight without limiting operation
- The tiles can be laid on virtually any surface without complicated PREPERATION
- PVC material is quick and easy to maintain and can be disinfected
- Your company logo can be printed on selected tiles
- In case of relocation the tiles can be disassembled, transported and reused
- Tiles can be cleaned mechanically and by hand

For areas with light load traffic > **XL** (page 22)

For areas with higher loads and traffic > **Industry** (page 21)

For seamless appearance > **Invisible** (page 23)

For spaces with a decorative look > **Decor** (page 25)

For uneven and damaged sub-floor > **Industry** (page 21)



Sport and fitness

- The floor can withstand the fall of a dumbbell and long-term load of exercise equipment without damage
- Installation is easy, can be handled overnight without limiting operation
- PVC material is easily disinfected and maintains a hygienically clean environment
- The floor is pleasant to the touch and you do not feel cold when exercising on the floor
- The tiles can be disassembled at any time and reused in a new space
- Easily organized exercise areas thanks to a wide range of colors
- Print the logo of your fitness studio on selected tiles

We used the heavy load tile option because in our gym we are mainly focused on heavy weight lifting. The floor takes a beating and yet in its third year it still looks great. We are extremely satisfied with that. In addition, it is easy to maintain. Guys sweat a lot here and the sweat can be washed away really quickly and easily. Also when compared to the competition they were clearly the cheapest. Another advantage is the fact that it is a Czech product.

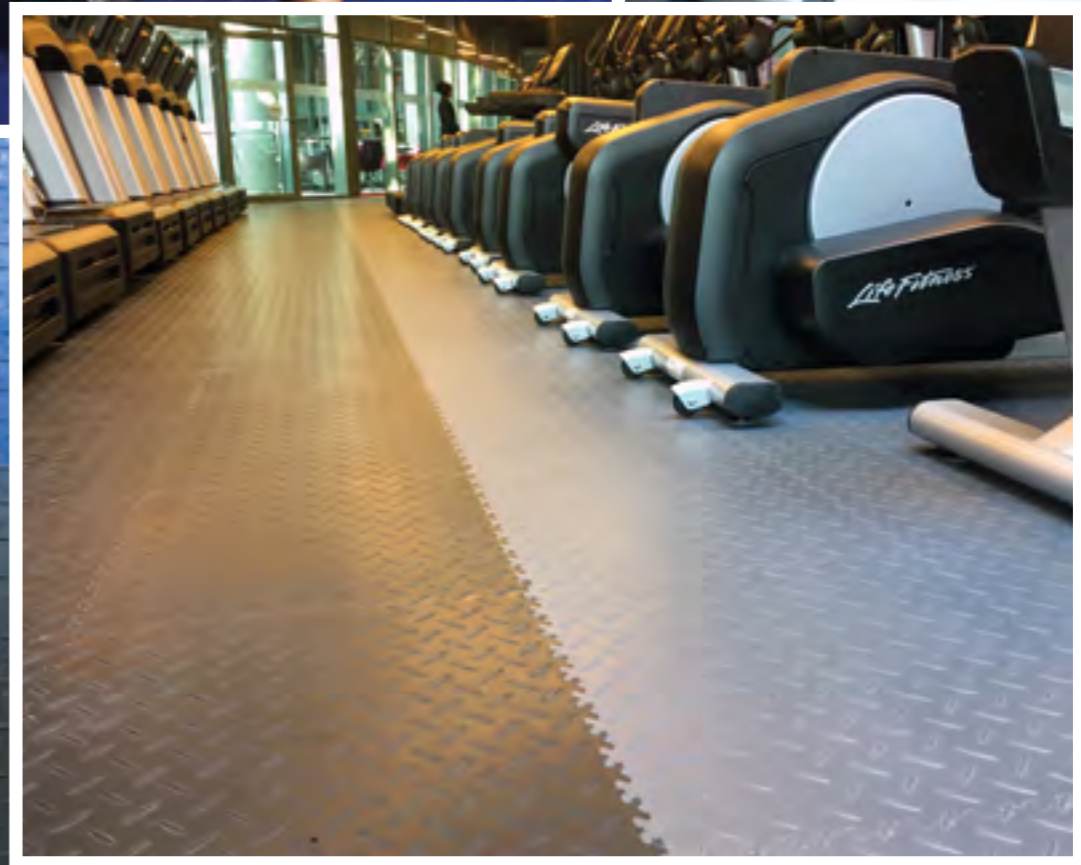
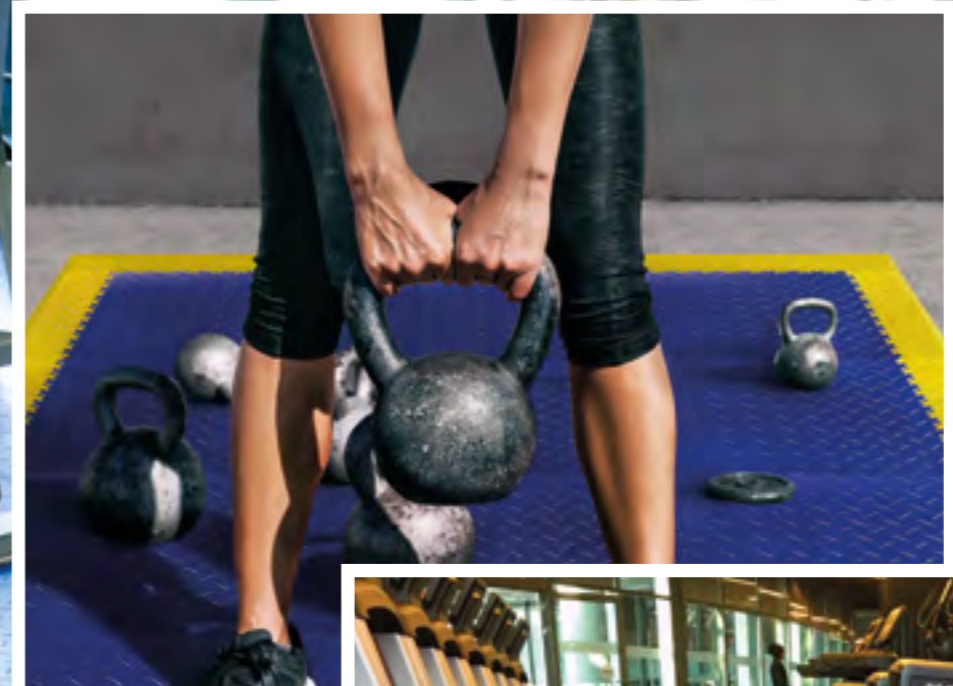
Fitness Ostrava

For heavy exercise equipment and weights > **Industry** (page 21)

For light equipment and gyms > **XL** (page 22)

For seamless appearance > **Invisible** (page 23)

For spaces with a decorative look > **Decor** (page 25)



Car and tire service

- Tile can withstand high mechanical stress and technical fluids
- Easily installed in parts outside the operating hours
- Anti-slip treads to increase adhesion when vehicles approach the ramp
- Colored tiles can be used to highlight dangerous zones under jacks
- The insulation reduces noise and makes working under the car more pleasant

For heavy load in the workshop > **Industry**

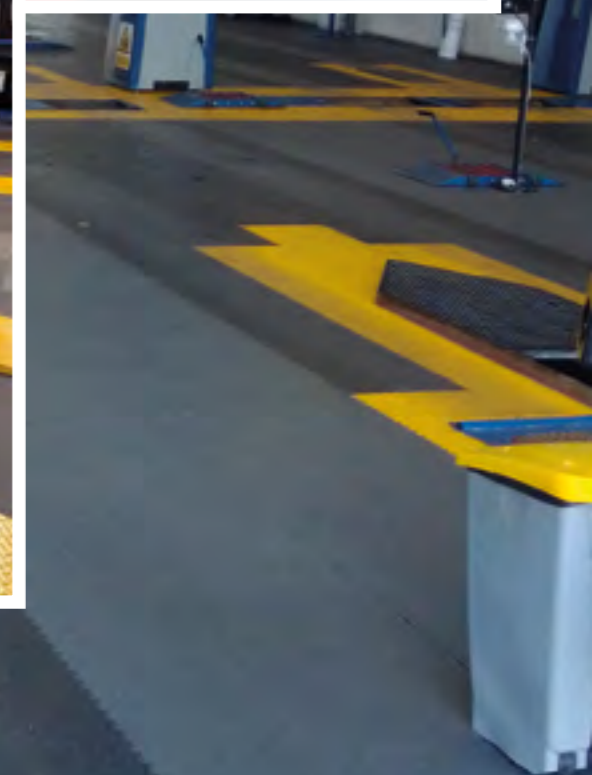
(page 21)

For seamless appearance > **Invisible**

(page 23)

“ It is really just like a puzzle. There was no need to call installers. We were able to handle it by ourselves. No need to glue. We just put it together the way we liked it.

Auto Kelly a.s.



Electrostatic facilities (ESD)

- Fortelock ESD tiles prevent electrostatic discharges
- Installation is easy, you can do it yourself overnight without limiting operation
- The tiles can be laid on virtually any previous surface without complicated ADJUSTMENTS
- Especially suitable for areas with the production of electrical and automotive components, as well as areas with a risk of explosion, electrical substations, data centers, laboratories, pharmaceutical centers and other special facilities
- Excellent chemical resistance, easy MAINTENANCE and disinfection

”

The installation time is even shorter than we expected.

“



Garages and workshops

- Easy installation without gluing
- High mechanical and chemical resistance
- Premium look for your garage at an affordable price
- The color combination of tiles will make your unique car stand out
- Easy MAINTENANCE and the possibility of disassembly and replacement of tiles
- The insulation of the tiles makes working on the floor more enjoyable

“Cleaning and treatment is easier, the tiles also reduce noise, are anti-slippery and resistant to heavier loads, do not absorb oil which is sometimes on the floor.”

End client Ostrava



For heavy handling machinery > **Industry** (page 21)

For even sub-floor or lower loads > **Light** (page 24)

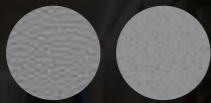
For seamless look > **Invisible** (page 23)

GRANITE Collection

The GRANITE collection offers 15 basic patterns of grainy print, which vary in grain size and color combinations. The seemingly disparate print lets you optically break up the monotonous appearance of a floor which can occur if only one color is used.

This collection is printed on a modern UV printer and 3x repainted with a UV varnish. The varnish improves the abrasion resistance and the cleanability of the tiles. In addition, thanks to only a partial overlap of the original color of the base tile any potential scratches are almost invisible.

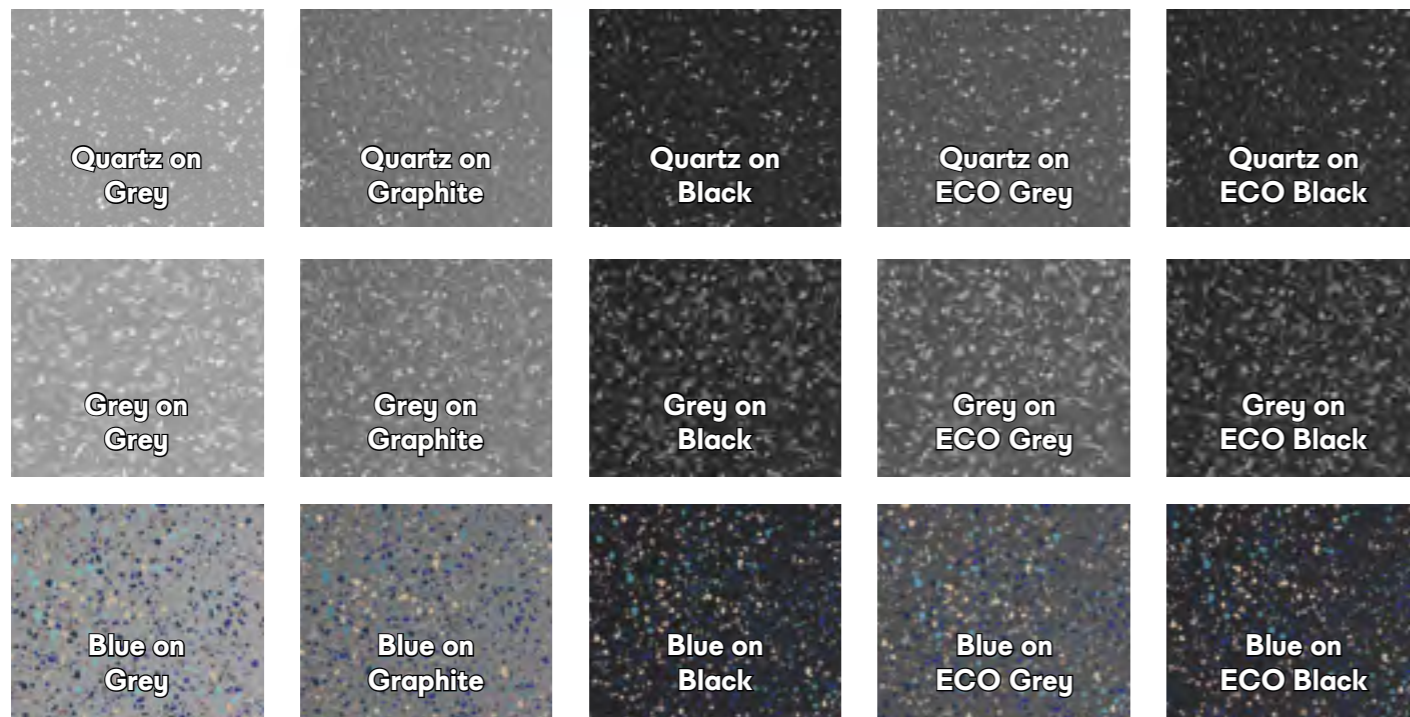
Pattern:



The base tile types:



Colors:



MAX Collection

The MAX collection contains 7 pre-selected motifs for which it is hard to tell if it is a print or a real material.

This collection is printed on a modern UV printer and 3x repainted with a UV varnish. The varnish improves the abrasion resistance and the cleanability of the tiles.

The base tile types:



Pattern:



Colors:



Tiles Industry

Dimensions:	510,5 x 510,5 mm
Thickness:	7 mm
Weight:	2,2 kg
Lock:	visible

- The Industry line is designed for the heavy industrial loads including forklifts and pallet trucks
- Easy color combination
- Possibility to create corridors, paths and guidance lanes
- Suitable for areas with heavy point or dynamic load (warehouses, garages, fitness centers, police and fire stations)
- Can be assembled in parts without interrupting operation
- Chemical and abrasion resistance, thermal and sound insulation
- **Composition:** highly durable homogeneous 100% PVC (100% recyclable)
- Easy MAINTENANCE and surface cleaning
- Also available in ECO variant made of recycled material (ECO Black, ECO Grey) ♻️
- **Resistant lock system, 12 years warranty, 25 years service life**

Colors:

Pattern:

Accessories and service:

- Ramps Industry
- Corners Industry
- Floor molding
- Varnishing
- Pictograms OSH
- Customer print



Tiles XL

Dimensions:	653 x 653 mm
Thickness:	4 mm
Weight:	2,3 kg
Lock:	visible

- The XL line is designed for spaces with a medium load and a level sub-floor
- Great for basements, garages, public spaces and shops
- Unique snakeskin pattern with reflection and easier CLEANING
- Large-format tiles (2,5 pieces of tiles cover 1 m²)
- The tiles can be printed with ready-made patterns or your own graphics
- **Composition:** highly durable homogeneous 100% PVC (100% recyclable)
- Available also in ECO variant made out of recycled material (ECO Black, ECO Grey) ♻️
- Easy installation, MAINTENANCE, surface cleaning and disinfection
- **Resistant lock system, 12 years warranty, 25 years service life**

Colors:

Pattern:

Accessories and service:

- Ramp XL
- Corner XL
- Floor molding
- Varnishing
- Customer print

Tiles Invisible

Dimensions:	468 x 468 mm
Thickness:	6,7 mm
Weight:	1,7 kg
Lock:	hidden



- The Invisible line is designed for commercial, residential, industrial and warehouse spaces
- Hidden locks (after laying the floor the locks are invisible)
- Unique snakeskin pattern with reflection and easier CLEANING
- Easy to combine colours and create corridors, paths and navigation lanes
- Can be assembled in parts without interrupting operation
- Resistance to loads, chemicals and abrasion, thermal and sound insulation
- **Composition:** highly durable homogeneous 100% PVC (100% recyclable)
- Easy MAINTENANCE and surface cleaning
- Also available in ECO variant made from recycled material (ECO Black, ECO Grey)
- **Resistant lock system, 12 years warranty, 25 years service life**

Colors:

Pattern:

Accessories and service:

- Ramp Invisible
- Corner Invisible
- Floor molding
- Varnishing
- Pictograms
- Customer print



Tiles Light

Dimensions:	510,5 x 510,5 mm
Thickness:	7 mm
Weight:	1,4 kg
Lock:	visible



- The Light line is designed for medium loads areas without forklift and pallet truck traffic
- Quick and easy installation, can be assembled in parts without interrupting operation
- Compatible locks enable combination with the Industry line
- Suitable for schools, commercial premises and households (basements, furnace rooms, garages)
- **Composition:** highly durable homogeneous 100% PVC (100% recyclable)
- Easy maintenance and surface cleaning
- **Resistant lock system, 12 years warranty, 25 years service life**

Colors:

Pattern:

Accessories and service:

- Ramp Light
- Corner Light
- Floor molding
- Varnishing
- Pictograms
- Customer print

Tiles Decor

Dimensions:	472 x 472 mm
Thickness:	6,5 mm
Weight:	1,9 kg
Lock:	hidden



- The DECOR line is designed for representative commercial spaces, offices and even households
- Hidden locks (not visible after laying) create undisturbed design
- High wear resistance, including castor-wheeled chairs resistance
- Easy installation, possible to disassemble and reuse in new premises
- Easy MAINTENANCE, surface cleaning and disinfection, anti-allergic environment
- Anti-slip surface
- **Composition:** highly resistant heterogeneous tiles (combination of PVC and PUR)
- **Resistant lock system, 12 years warranty, 25 years service life**

Pattern:



Accessories and service:



Ramp Decor

Corner Decor

Floor molding



Tiles ESD XL ESD

Dimensions:	510,5 x 510,5 mm
Dimensions XL:	653 x 653 mm
Thickness:	7 mm
Thickness XL:	4 mm
Weight:	2,2 kg
Weight XL:	2,3 kg
Lock:	visible

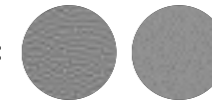


- The ESD line is designed for rooms with a requirement for electrostatically conductive floor design
- **Areas of application:** electrical components production areas, automotive industry, areas with risk of explosion, electrical substations, data centers, healthcare laboratories and others
- Complies with IEC 61340-5-1
- The highest mechanical resistance prevents damage to the surface by handling equipment or massive point loads
- Can be assembled in parts without interrupting operation
- Highly durable homogeneous material
- **Durable interlocking system, 12 years warranty, 25 years service life**
- Use XL ESD if you want a more economical option in heavy foot traffic areas

Colors:



Pattern:



Accessories and service:



Ramp ESD

Corner ESD

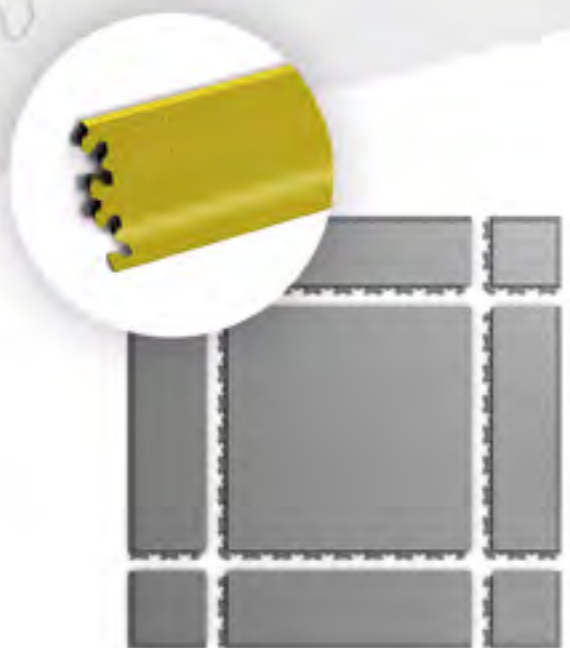
ESD Grounding set and strip

Floor molding

Pictograms



Floor molding, ramps & corners



- Moldings, ramps and corners are available in the same colors and patterns as tiles, as they are made from the same batch.
- Moldings easily cover the expansion joint and protect the walls from damage or dirt
- Simple and quick assembly of the rails using glue or screws
- Ramps and corners take care of transitions between the old floor and our tiles

Colors:

Pattern:

*we do not produce molding in Decor line



Tile trial rental



We offer the option to test and try out the tile. You can choose the desired tile pattern.



Rent up to 5m² PVC tile for a month

Fortelock used tile recycling



Return the tile and we take care of recycling of the waste material and its reuse.

We offer the option to take back the unwanted Fortelock PVC tile as a part of ecological program. Thanks to this service you will save time, worries and money spent on disposal and together we will contribute to the protection of the environment.



Varnishing

Varnishing will give the floor presentable appearance, increased durability and ease of maintenance.

• Varnishing printed tiles

When ordering tiles with a print, varnishing is recommended as a final step. The used PU varnish protects the selected print, prolongs its durability during cleaning and enhances the colors.

• Varnishing tiles without print

We also offer the possibility of varnishing even ordinary Fortelock tiles. This process is not necessary. The tiles are durable and anti-slip already in their raw state. Customers use this option if they want to facilitate subsequent maintenance and improve the appearance.

Varnished tiles can also be returned to us as part of the **recycling service**.





Visualization



Take advantage of the state of the art visualization software and change the floor color scheme according to your expectation.

Configurator



Enter the desired dimensions of your space, click on the required selection of parameters and you will get the minimum number of tiles required for laying the floor. It couldn't get any easier.



Onsite inspection



We offer expert assessment and proposal of possible solutions for your floor onsite.

Print

The **PRINT** line is an innovative design solution for your interior.

The **GRANITE** collection contains 3 standard grain print patterns, which vary in grain size and color combinations.

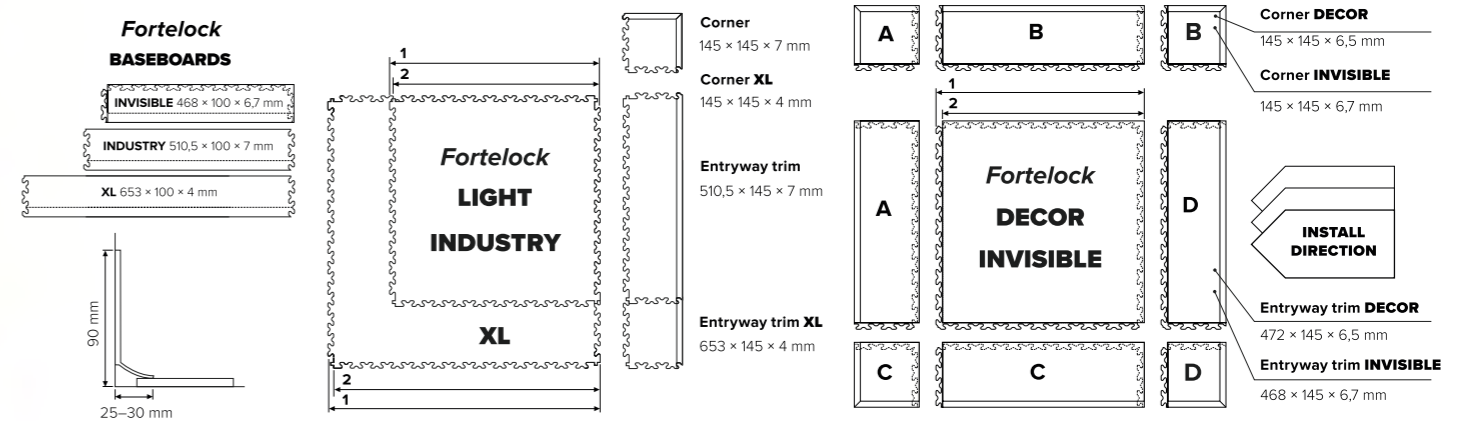
The **MAX** collection will add a modern industrial design to your interior. If you prefer natural materials you can hardly distinguish print from the real material.

The **CUSTOM** collection includes custom tile print.



Series	Standard	PVC flooring Fortelock						
		LIGHT	INDUSTRY	INVISIBLE	XL	HOME DECOR	BUSINESS DECOR	SOLID DECOR
Product Numbers – Tiles		2050 – diamond 2060 – leather 2080 – coin	2010 – diamond 2020 – leather 2040 – coin	2030	2230	2110	2120	2130
Product Numbers – Entryway trims		2015 – diamond 2025 – leather 2045 – coin	2015 – diamond 2025 – leather 2045 – coin	2035 – type A 2034 – type B 2038 – type C 2032 – type D	2235	2115 – type A 2114 – type B 2113 – type C 2112 – type D	2125 – type A 2124 – type B 2123 – type C 2122 – type D	2135 – type A 2134 – type B 2133 – type C 2132 – type D
Product Numbers – Corners		2016 – diamond 2026 – leather 2046 – coin	2016 – diamond 2026 – leather 2046 – coin	2036 – type A 2037 – type B 2038 – type C 2039 – type D	2236	2116 – type A 2117 – type B 2118 – type C 2119 – type D	2126 – type A 2127 – type B 2128 – type C 2129 – type D	2136 – type A 2137 – type B 2138 – type C 2139 – type D
Product Numbers – Baseboards		2011 – diamond 2021 – leather 2041 – coin	2011 – diamond 2021 – leather 2041 – coin	2031	2231			
The area of use (classification according to ČSN EN ISO 10581 and 10582)		commercial and residential premises, garages, workshops (commercial use of the load class 32, 33)	industry, heavy-duty storage (industrial use, load classes 42, 43)	commercial and residential premises, garages, workshops, industry, heavy-duty storage (industrial use, load classes 42, 43)	commercial and residential premises, garages, workshops (commercial use of the load class 32, 33)	residential – housing premises with common use class 22, commercial use of classes 32, 33	commercial use, classes 33, 34 or industrial use, class 41	industrial use, classes 42, 43
The size of the tile with locks 1		510,5 × 510,5 mm		468 × 468 mm	653 × 653 mm	472 × 472 mm		
Actual coverage size 2		496,5 × 496,5 mm		453 × 453 mm	639 × 639 mm	456 × 456 mm		
Type		homogeneous flooring				heterogeneous flooring		
Weight (± 10 %) *		1,7 kg	2,3 kg	1,8 kg	2,3 kg	2,04 kg	2,04 kg	2,04 kg
Floor finish		PVC				Fatra DOMO	Fatra Novoflor Extra	Tarkett Premium Collection
Finish		leather/diamond/coins	leather/diamond/coins	snakeskin				
Surface layer		PVC				PUR		
Thickness		7 mm	7 mm	6,7 mm	4 mm	6,5 mm	6,5 mm	
Surface (wear) layer thickness	ČSN EN ISO 24340	7 mm		6,7 mm	4 mm	0,2 mm	0,8 mm	2 mm
Dimensional stability *	ČSN EN ISO 23999	≤ 0,4 %						
Resistance to chemicals	ČSN EN ISO 26987	good						
Reaction to fire *	ČSN EN ISO 13501-1+A1	Bfl-s1						
Resistance to bacteria	ČSN EN ISO 846	passed						
Hardness *	ČSN EN ISO 868	92±3 Shore A						
Deformation after static loading *	ČSN EN ISO 24343-1	< 0,1 mm						
Influence of a castor chair	ČSN EN ISO 425	suitable						
Abrasion resistance *	ČSN EN ISO 660-2	T						
Anti-slip property	DIN 51130:2014-02	R10						
Side length, edge straightness and squareness	ČSN EN ISO 24342	<=±0,20% of nominal length						
Colour fastness to artificial light		>5 (without damage) (ČSN EN 20105-A02)				≥ 6 (ČSN EN ISO 105-B02)		
Warranty		up to 12 years						
Number of pieces in 1 m ²		4	5	2,5	5			
Compressive strength *	ČSN EN ISO 604-1	520 kg/cm ²						
Electrostatic Behaviour	ČSN EN 1815	< 2 000 V						

* cannot be guaranteed with the floor tiles made of recycled material.



Installation



Allow the tiles to acclimate for 24 hours before laying and level and sweep the floor.

1



Use chalk line in the widthwise and lengthwise direction of the space. It is essential that the tiles are kept in a rectangular position to each other.

2

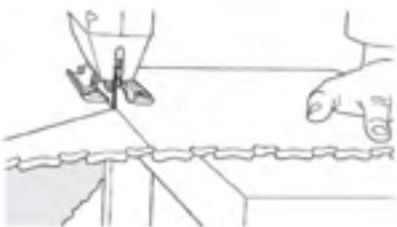


3



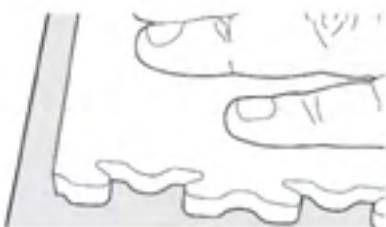
Finally cut and lay the tiles.

4



Leave at least 5 mm space at the wall.

5



Done.
Congratulations.

6



 **Fortemix**

ReCreating Building Materials

Fortemix s.r.o.
Kirilovova 812
739 21 Paskov, CZ

Phone: +49 152 026 762 55
E-mail: info@fortelock.com
Web: www.fortelock.com

