



PRODUCT CATALOGUE



INLINE HOCKEY SURFACE AND PUCKS
MULTI SPORTS SURFACES
www.stilmat.cz



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Stilmat is a small family-run business manufacturing and distributing interlocking sports floor all over the World. Our factory is situated in a quiet town under mountains in the eastern part of Czech Republic. It is not so long ago when we were running whole production in a garage the size of a bigger flat. Since the beginning Stilmat has produced their floors only with the best quality materials and under strict quality control of the products, thanks to which we have been delivering the best floors to inline hockey rinks within Europe as well as other continents. Stilmat has become the synonym for interlocking sports floor in inline hockey world.

We moved our production to bigger factory in 2019. The space is almost four times bigger than before, and our three injection moulding machines produce 400 m² of floor per 24 hours. The production is fully automatic, and our 8 employees have enough time to take care of the quality of the products. This has given us the potential to expand to other markets and we deliver Stilmat floors to more than 25 countries all around the World today.

Everything in our firm is based on the sustainable development principles. Our floors are produced out of fully recyclable materials with as little residual waste as possible. All plastic waste is used right away in the production process. The machines are run by electricity from a solar plant that stands right on the roof of the factory. Water that heats or cools our machines is used circularly in the production process and the little percentage that leaves the factory gets soaked into the ground. The office gets heated by the residual heat from the factory. This all makes Stilmat floors circular, and you can be sure that once you have Stilmat, you have it forever with no waste.



History

The first Stilmat floor was produced and installed back in 2001 in Zlin, Czech Republic with the help of the Czech Extraleague Ice Hockey players. Thanks to their enthusiasm and passion for inline hockey Stilmat has become very well known in our country. These helpers happened to be World Champions in inline hockey later and we still feel we owe them a lot, as they have been part of our success.

Stilmat floor was first used for World Inline Hockey Championships in Pisek 2003 with great feedback from the very best players all around the World. Since then, we have cooperated with the International Inline Hockey Federation on development of the sport and the standardisation of the World Championships venues for the best quality performance.

Thanks to the tile construction and the use of the best quality materials Stilmat tile has successfully expanded to various countries in South America, Asia and Africa. Argentina, Colombia or Namibia have been part of the World Championships many times since then and their players are on the best level these days and we believe that Stilmat is also part of their development.



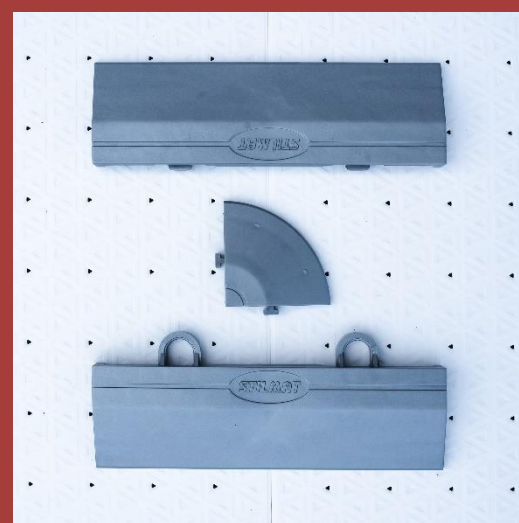
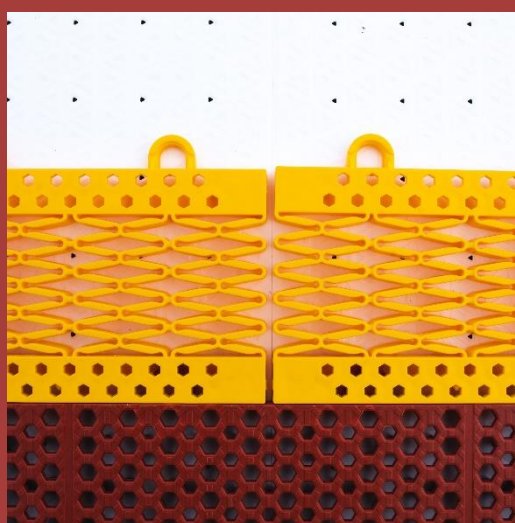
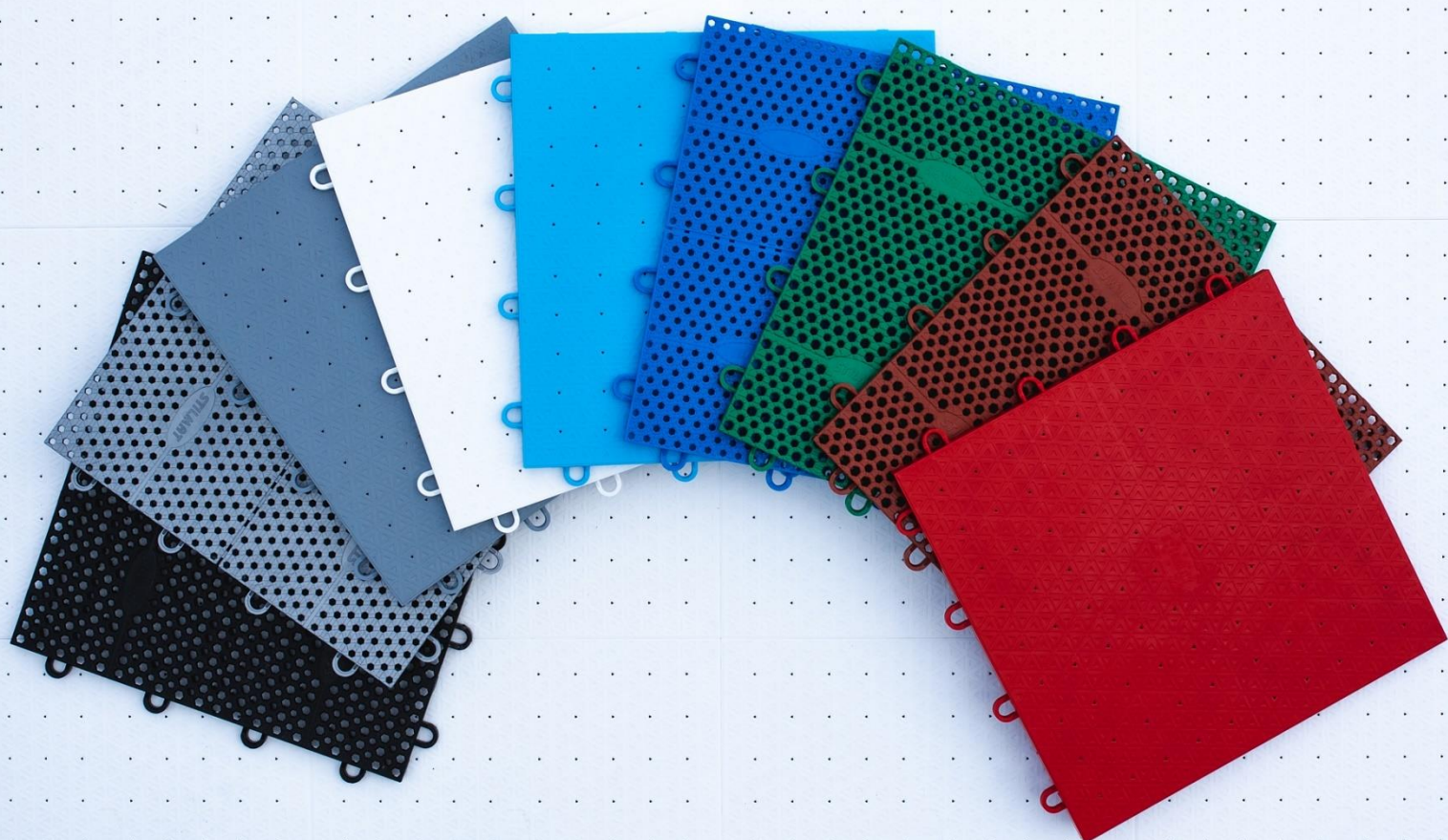
History

Years 2019-2020 were a real breakthrough in the company's history. First, Stilmat moved to bigger factory and got the chance to expand to new markets. And second, the company expanded to USA market, the cradle of inline hockey with the best players, tournaments, and leagues in the World. We can now proudly say that Stilmat has become The Inline Hockey Floor for the most successful country in the history of the sport.

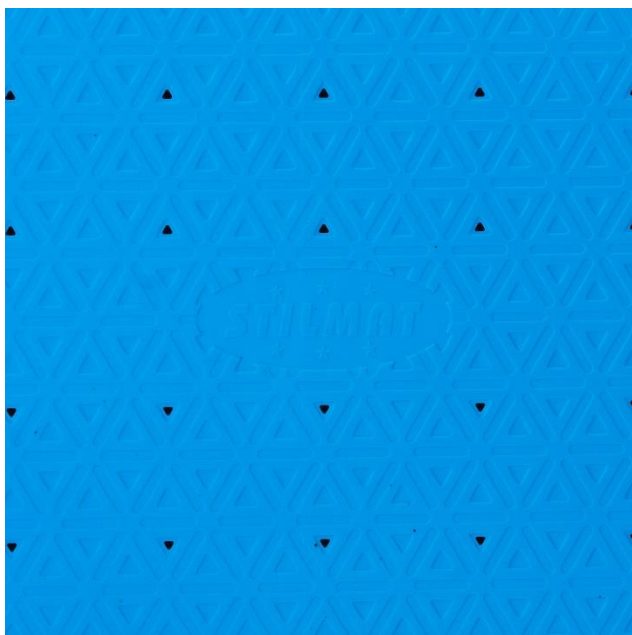
Stilmat developed and started to produce inline hockey pucks in 2009. We are the only manufacturer that produce pucks that can slide well with the height of almost 130 grams to be sure that passes and shots are precise enough. The Stilmat pucks is also played with in the best leagues in the World and is the only official puck of the World Championships and World Games.



PRODUCTS



Stilmat R-Evo

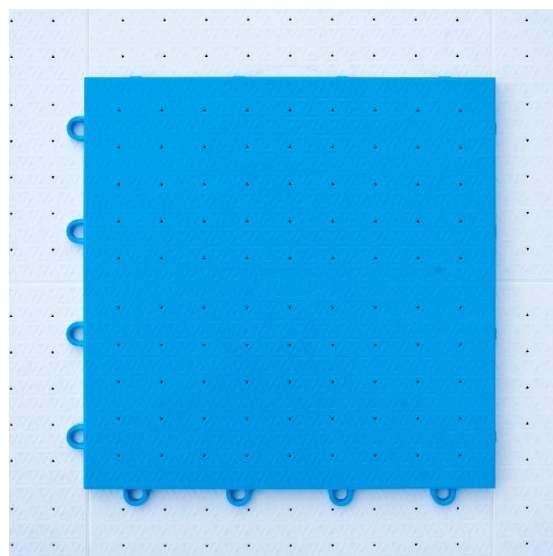
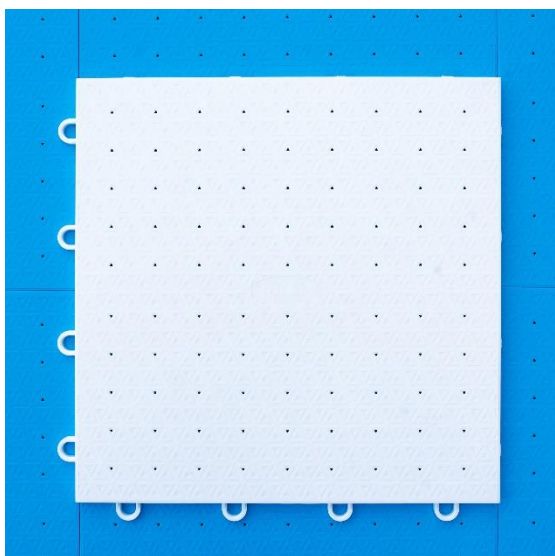


Stilmat R-Evo is the most advanced and matured indoor tile Stilmat has ever produced. Yes, this is **R-Evolution**.

Stilmat R-Evo has been developed especially for inline hockey, but it can be used for various sports from futsal or basketball to floorball and badminton. Stilmat R-Evo's specifically designed surface gives you 100 % sureness on skates or shoes, high speed, and great slip of puck. Its

perfectly flat shape protects passes and shots from bouncing and its strong and stable material shows you what it can withstand after years (a lot of years!) of use.

Years of cooperation with **professional inline hockey clubs and players** all over the world have helped us to bring you the most developed tile in the World. Only four but strong locks make it possible to be combined with our outdoor tiles and other products. Our Stilmat Indoor tiles have been used for **FIRS Inline Hockey World Championships** and we will carry on with this cooperation with our revolutionary tile.



Stilmat R-Evo

We offer tiles in wide range of various colours for our customers to lay down floor of their needs. Stilmat R-Evo provides comfortable slip together with stability and thanks to its solidity also very good ball bounce when used on solid surface. Special coloured flexible tape or paint is used for courts line marking.

Stilmat R-Evo is also suitable for **disabled athletes** and various **wheelchair sports** can be performed on this floor.

The tile is made from **100 % recyclable** material and when used out, it can be grinded, and the material used for new floor.



Stilmat R-Evo

Technical data of:

R-EVO STILMAT TILE

	Polypropylene sports floor Stilmat to be used for multisport use, use in industrial area, on boats and in ports or residential space	
Material	Polypropylene with mineral fillers, ecological	
Dimensions	335 x 335 mm	
Thickness	12,3 mm	
Thickness of the upper wall	1,85 mm	
Weight of tile	480 g	
Surface load at temperature +19 °C	Surface:	Max. load:
	1 cm ²	100 kg
	1 dm ²	1 000 kg
	1 m ²	3 500 kg
Weight of 1000 m ²		4 329 kg

			Unit	Rate
Slip resistance			o	13,7 o= R10
Absorption of water 24h			%	<0,1
Move resistance			Mpa	32
Flection resistance			Mpa	1340
Coefficient of linear expansion			% per 1°C	0,007
Friction	EN 13036-4		PTV	85
Shock absorption	EN 14808	With 6 mm foil	%	27,3
Vertical deformation	EN 14809	With 6 mm foil	mm	1,05
Resistance to rolling load	EN 1569		mm	0,25
Resistance to wear/abrasion	EN ISO 5470-1		mg	3,5
Reaction to fire, classification	EN 13238, 13501-1			B/fi-s2

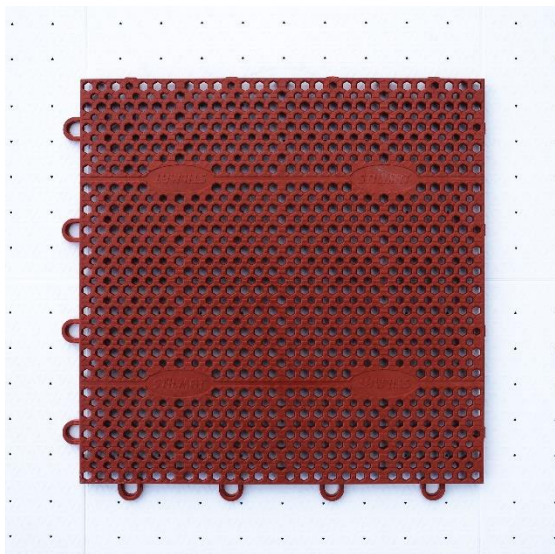
Thermal dilatation:

Extension 0,007 % per 1°C

Calculation figure of prolongation: (0,00007 x floor length) x (temperature difference in °C)

Calculation figure of length after prolongation: original length + extension

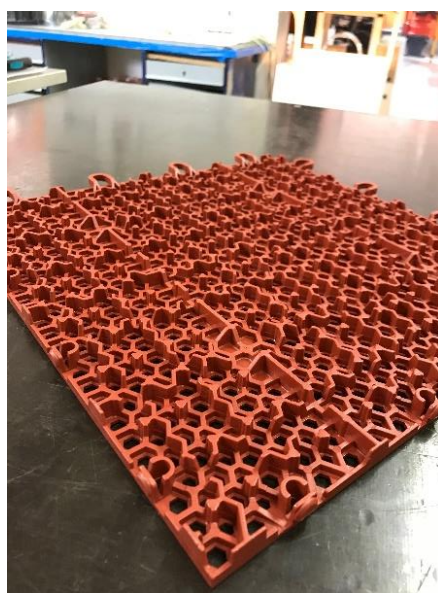
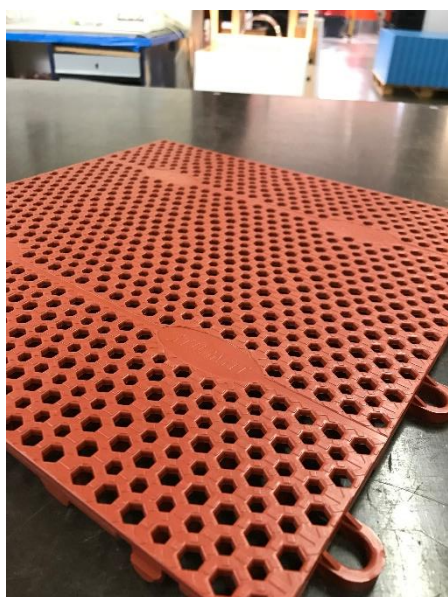
Stilmat Outdoor Multisport



Stilmat Outdoor Multisport tile is a new tile for various sports played outdoor.

It can be used for inline hockey, but it was developed specifically for playgrounds and fields for ball sports like volleyball, football, basketball or badminton played outdoor. Thanks to its solidity Stilmat Outdoor Multisport tile provides perfect ball bounce and ball control while it is non-slippery for shoes when dry.

This type of tile with lot of big holes in its surface can breathe through and **gets dry very quickly**. Thanks to the perforation it is also easily maintained. This kind of flooring can be used also for industrial use or residential areas. Thanks to its system of supporting bridges on the bottom side the tile can be used on top of plastic tile element artificial ice rink systems. This allows customers to build up **all-year-round multiuse ice rink**. There is no need to disassembly the floor for winter season as the tile can be frozen through and ice can be made upon the top of the tile.



Stilmat Outdoor Multisport

Special expanding tiles are used together with all our outdoor tiles to prevent damage to tiles from excessive expand of floor, its twist, movement of whole floor due to different temperatures in various parts of floor, or its elevation. Lining of fields is painted on the tiles. Floor edge can be covered with **Stilmat Edge Ramps**.



Stilmat Outdoor Multisport

Technical data of:

MULTISPORT OUTDOOR STILMAT TILE

	Polypropylene sports floor Stilmat to be used for multisport use, use in industrial area, on boats and in ports or residential space	
Material	Environmentally friendly UV stabilized polypropylene with mineral filling substance	
Dimensions	335 x 335 mm	
Thickness	13 mm	
Thickness of the upper wall	3 mm	
Weight of tile	441 g	
Surface load at temperature +19 °C	Surface:	Max. load:
	1 cm ²	100 kg
	1 dm ²	1 000 kg
Weight of 1000 m2	1 m ²	3 500 kg
		3 969 kg

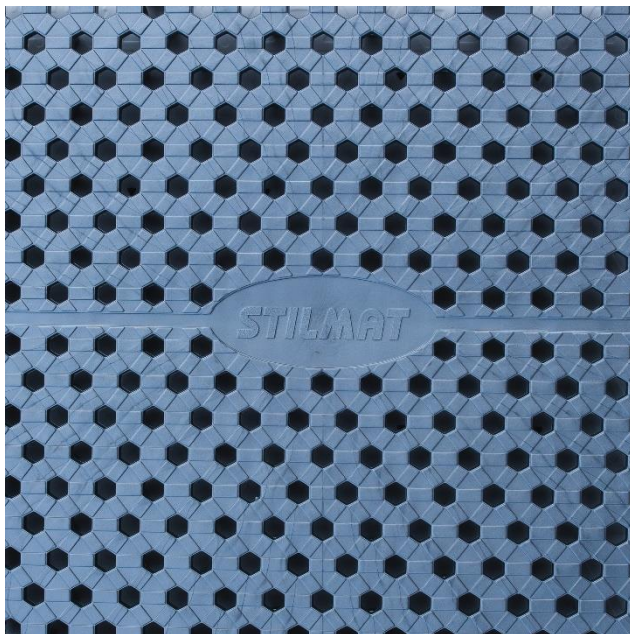
			Unit	Rate
Anti-slip resistance values on dry and wet conditions			%	95 dry cond. 65 wet cond.
Water absorption	EN 12 616	min. 150 mm / hour	mm / hour	4 500
Shock absorption	EN 14 808		%	49
Deformation D			mm	1
Flexural strength			Mpa	1 340
Coefficient of linear expansion			% per 1°C	0,008
Relative height of bounce of basket ball			%	97
Relative height of bounce of tennis ball			%	99
Anti-slip resistance -values on dry and wet conditions			%	95 dry cond. 65 wet cond.
Water absorption	EN 12 616	min. 150 mm / hour	mm / hour	4 500

Expansion: 0,008 % per 1°C:

Formula for the size of the expansion: (0,00008 x length of the floor) x (number of increased degrees)

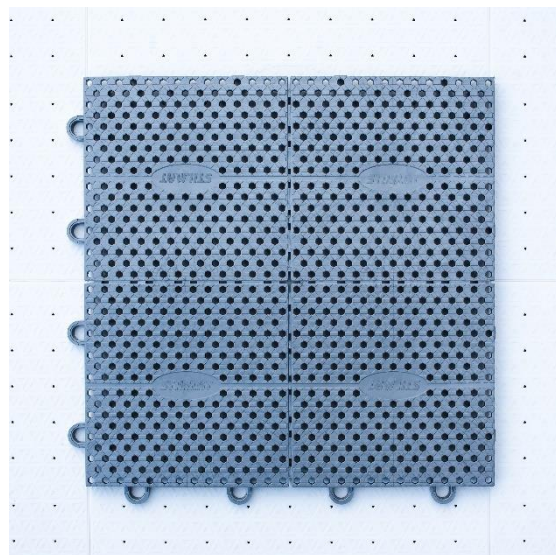
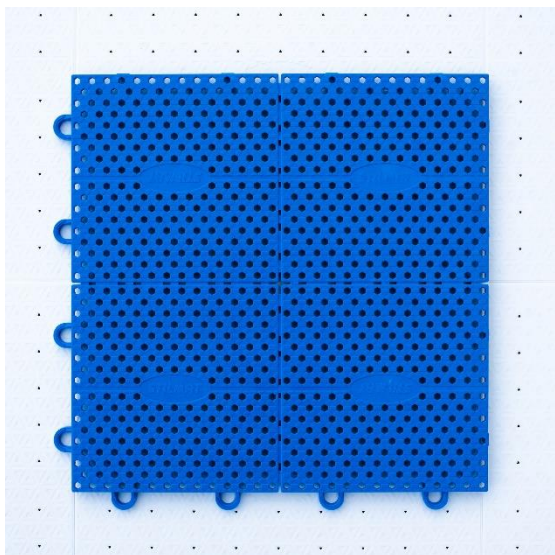
Formula for the length of floor after the expansion: Initial length + Length of the expansion

Stilmat Outdoor Inline



Stilmat Outdoor Inline skating tile with its newly designed surface provides great stability on skates while its surface brings you easy slip of puck. Very low friction provided by specially adjusted surface of Stilmat Outdoor Inline tiles helps inline hockey players feel the puck on their sticks and handle it as easy as on Stilmat Indoor. Also, other sports are played on this tile like football, basketball, volleyball, or badminton. Stilmat Outdoor Inline was

developed specifically for outdoor use. It is made from mixture of materials that makes tiles stable when temperature varies a lot. Tiles have expanding lines itself, so there do not have to be used as many expanding tiles as with Stilmat Outdoor Multisport. Less expanding tiles means more Stilmat Outdoor Inline tiles and better skating brakes, turns and puck handling on floor. Material of Stilmat Outdoor Inline is so strong and stable that floor can be covered by ice, and it does not have to be removed from rink over winter. This tile can be laid down either on even solid surface or on soft surface when textile or gum is used underneath. Floor edge can be covered with **Stilmat Edge Ramps**.



Stilmat Outdoor Inline

Technical data of:

INLINE OUTDOOR STILMAT TILE

	Polypropylene sports floor Stilmat to be used for multisport use, use in industrial area, on boats and in ports or residential space	
Material	Environmentally friendly UV stabilized polypropylene with mineral filling substance	
Dimensions	335 x 335 mm	
Thickness	13 mm	
Thickness of the upper wall	3 mm	
Weight of tile	412 g	
Surface load at temperature +19 °C	Surface:	Max. load:
	1 cm ²	100 kg
	1 dm ²	1 000 kg
	1 m ²	3 500 kg
Weight of 1000 m2		3 708 kg

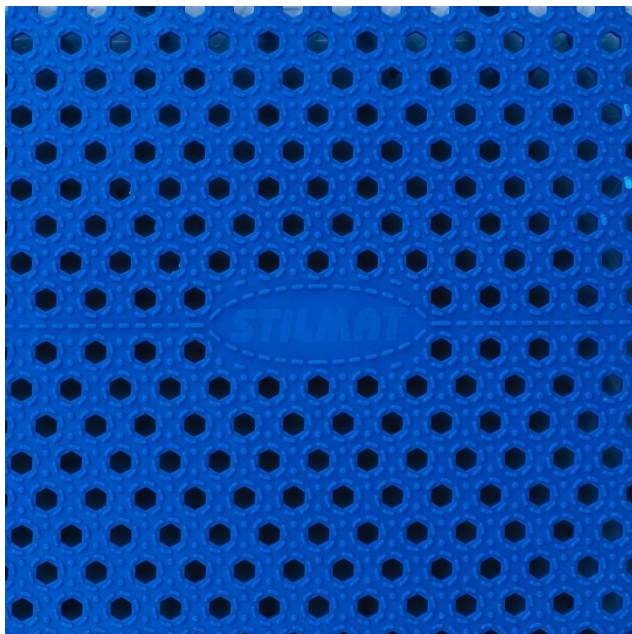
			Unit	Rate
Anti-slip resistance values on dry and wet conditions			%	95 dry cond. 65 wet cond.
Water absorption	EN 12 616	min. 150 mm / hour	mm / hour	4 500
Shock absorption	EN 14 808		%	49
Deformation D			mm	1
Flexural strength			Mpa	1 340
Coefficient of linear expansion			% per 1°C	0,008
Relative height of bounce of basket ball			%	97
Relative height of bounce of tennis ball			%	99
Anti-slip resistance -values on dry and wet conditions			%	95 dry cond. 65 wet cond.
Water absorption	EN 12 616	min. 150 mm / hour	mm / hour	4 500

Expansion: 0,008 % per 1°C:

Formula for the size of the expansion: $(0,00008 \times \text{length of the floor}) \times (\text{number of increased degrees})$

Formula for the length of floor after the expansion: $\text{Initial length} + \text{Length of the expansion}$

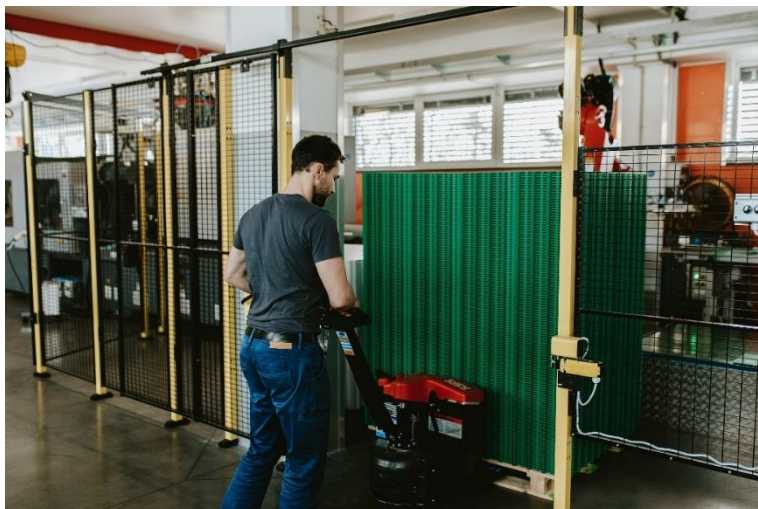
Stilmat Outdoor Tennis



Stilmat Outdoor Tennis tile shape is based on older product used for outdoor inline hockey and other sports. Its surface is specially adjusted for needs of running athletes and for tennis ball bounce and rotation. Its little dots on the surface provides 100% stability of shoes and great friction of ball (tennis ball especially). Thanks to its specific surface floor provides very good friction even when wet and is used around swimming pools, too.

Stilmat Outdoor Tennis has been given a certificate for ball hockey and has been used as floor for ball hockey World Championships. It is not recommended for inline hockey because its sharp surface and high friction can damage inline hockey skates' wheels quickly. Stilmat Outdoor Tennis gives you 100% certainty and safety with your shoes with your runs, turns and breaks even when it is raining or when you run barefoot around swimming pool.

This tile can be laid down either on even solid surface or on soft surface when textile or rubber underlay is used underneath. Floor edge can be covered with **Stilmat Edge Ramps**.



Stilmat Outdoor Tennis

Technical data of:

TENNIS OUTDOOR STILMAT TILE

	Polypropylene sports floor Stilmat to be used for multisport use, use in industrial area, on boats and in ports or residential space	
Material	Environmentally friendly UV stabilized polypropylene with mineral filling substance	
Dimensions	335 x 335 mm	
Thickness	13 mm	
Thickness of the upper wall	3 mm	
Weight of tile	412 g	
Surface load at temperature +19 °C	Surface:	Max. load:
	1 cm ²	100 kg
	1 dm ²	1 000 kg
	1 m ²	3 500 kg
Weight of 1000 m2		3 708 kg

			Unit	Rate
Anti-slip resistance values on dry and wet conditions			%	95 dry cond. 90 wet cond.
Water absorption	EN 12 616	min. 150 mm / hour	mm / hour	4 500
Shock absorption	EN 14 808		%	49
Deformation D			mm	1
Flexural strength			Mpa	1 340
Coefficient of linear expansion			% per 1°C	0,008
Relative height of bounce of basket ball			%	97
Relative height of bounce of tennis ball			%	99
Anti-slip resistance -values on dry and wet conditions			%	95 dry cond. 90 wet cond.
Water absorption	EN 12 616	min. 150 mm / hour	mm / hour	4 500

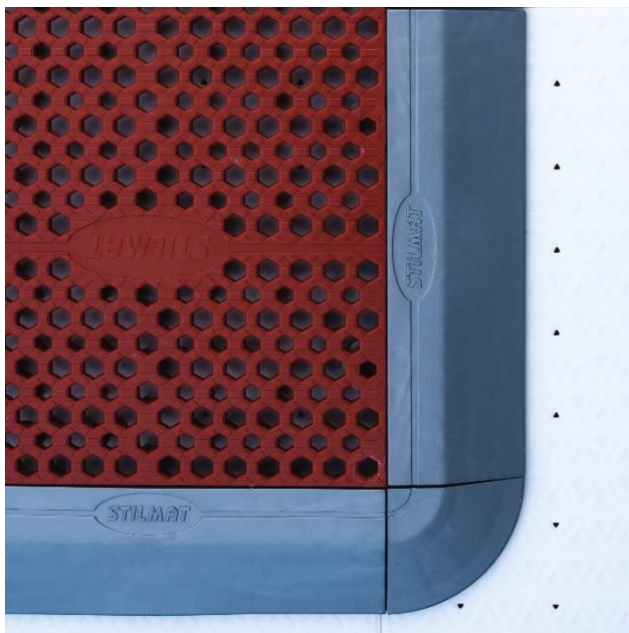
Expansion: 0,008 % per 1°C:

Formula for the size of the expansion: (0,00008 x length of the floor) x (number of increased degrees)

Formula for the length of floor after the expansion: Initial length + Length of the expansion

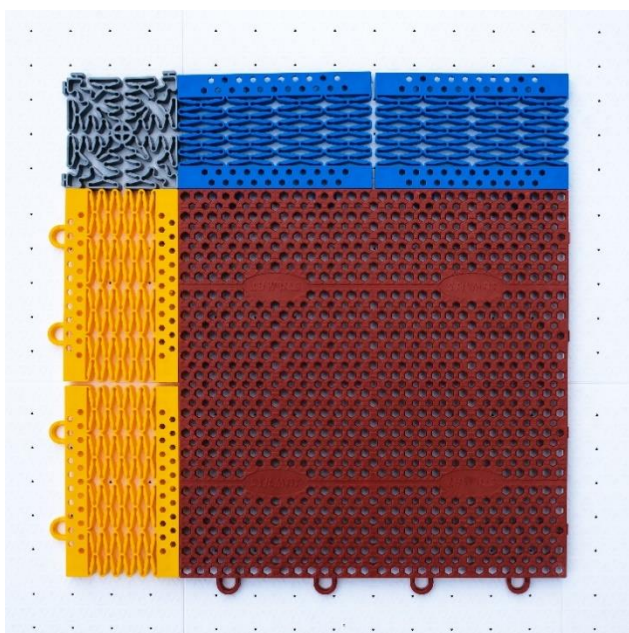
Stilmat Accessories

Stilmat Edge Ramps



Stilmat Edge Ramps are used for covering flooring edges in open space. They can be combined with all type of our tiles. Floor looks better, game is safer.

Stilmat Expanding Tile



Stilmat Expanding Tiles are used for outdoor flooring to cover temperature differences for the floor to stay flat and in the initial position. Expanding line positions are suggested by Stilmat upon dimensions of floor ordered. There is no extra cost for use of expanding tiles.

Stilmat Inline Puck



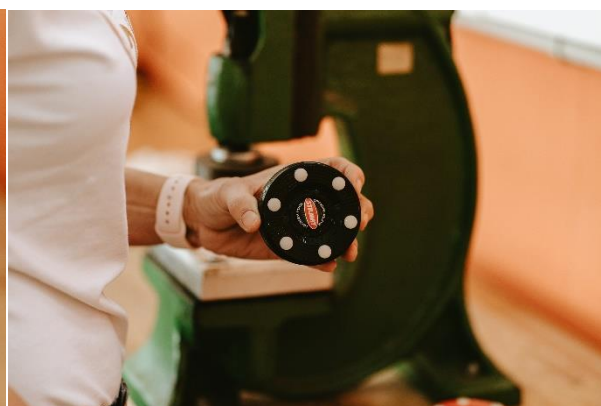
Stilmat Inline Puck is the only Official Inline Hockey Puck for The World Skate International events.

Many years of development together with inline and ice hockey players have brought you the best puck inline hockey is played with.

We worked on its form and design for lot of years and at the end the Puck was brought to you perfect. Thanks to its higher weight the passes and shots

are very precise as well as stick handling is easy.

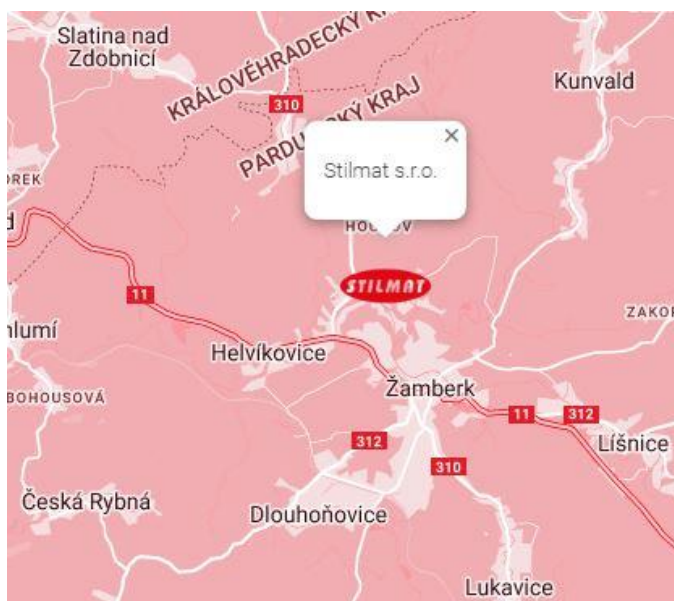
The pegs are made from material so slippery that the puck slides well even over the weight like ice hockey puck. It is offered in 2 colours- black and red.



Contact



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