

PRODUCT INFORMATION – MULTI-SPORT

Pattern: Multi-Sport has a 'snowflake' pattern. When the tiles are placed together the effect is seamless. The pattern creates very small triangular holes in the tile which allows water to drain and air to circulate. They also create grip for the feet.

Edgetiles: required in doorways and along exposed edges to provide a neat finish and prevent a trip hazard. Edgetiles can be attached onto any side of the Multi-Sport tile.

Expansiontiles: in order to allow for thermal movement, Expansiontiles should be inserted into the floor every 7 to 10 tiles in each direction. Cross pieces are available for intersections. Multi-Sport Expansiontiles are smaller and stronger than the normal Expansiontiles, to allow for the demands of sports use.

Corners: required where 2 outer Edgetiles meet

Colours: Grass Green, Dark Blue, Light Blue, Silver Grey, Light Grey.

Suitable for: Five-a-Side Football, Basketball, Netball, Handball, Volleyball, Tennis, Badminton and Inline Hockey. Can be used indoors and out; maintenance free.

	TactTiles are also available for use in industrial, marine and residential applications.	
Material	Environmentally friendly recyclable UV-stabilized polypropylene with mineral filling substance	
Size	303 x 303 mm	
Thickness	13,7 mm	
Wearing course/resistance	4,40mm	
Weight per tile	385 g	
Point weight in room temperature +19 °C	Weighted area	Pressure
	1 cm ²	170 kg
	4 cm ²	550 kg
	1 dm ²	5000 kg

	Test method	Test method	Units	Rate
Skid resistancy	ZH1/571	DIN 51 130	°	13,7°= R10
Drainage capacity	ZHI/571	DIN 51 130	cm ³ /dm ²	>10,0= V10
Fire Category	UL 94, DIN 4102		-	HB, B3
Impact resistance +23 °C	ISO 180/1A	ASTM D 746	kJ/m ²	C15
Stretchability	ISO R 527	ASTM D 638	%	10
Density	ISO 1183	ASTM D 1505	kg / m ³	980
Water absorption 24 h		ASTM D 170	%	<0,1
Tensile strength	ISO R 527	ASTM D 638	Mpa	26
Flexural modules	ISO 178	ASTM D 790	Mpa	1250
Coefficient of linear expansion		ASTM D 696-44		

EXPLANATION OF EXPANSION IN VARIOUS TEMPERATURES

Expansion: 0,0075 % per 1 °C

Formula for the size of the expansion: $(0,000075 \times \text{length of the floor}) \times (\text{number of increased degrees})$

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

Example	Length of floor	Calculation	Expansion	Length of floor after expansion
±0°C -> +10°C	10 m	$0,000075 \times 10\text{m} \times 10^\circ$ 0,0075 m (= 0,75 cm)	0,75 cm	10,0075 m
±0°C -> +30°C	10 m	$0,00075 \times 10\text{m} \times 30^\circ$ 0,0225m (= 2,25 cm)	2,25 cm	10,0225 m
+20°C -> +40°C	20 m	$0,00075 \times 20\text{m} \times 20^\circ$ 0,03m (= 3 cm)	3,00 cm	20,03 m

Surface Evaluation for In-Line Skating

An evaluation questionnaire was handed out to six players of the Swiss National In-Line Hockey team and they were asked to grade the performance of Sport Court and Bergo Multi-Sport (TactTiles).

The team were asked to grade the two floors using a scale 1 to 4 where 1 was the highest and 4 the lowest

	Sport Court	Bergo MultiSport (TactTiles)
Skating conduct	2	1.5
Grip	2	1.6
Braking Manoeuvre	1.8	1.8
Level of Noise	1.6	1.4
Speed of Puck	2	1
Puck rolling on the edges	2.25	1.16
Puck Conduct	2.2	1.33

The conclusion of the team leader, Jörg Eberle:

'The new surface has been evaluated better considering all criterions. Concerning the braking manoeuvre it allows fewer mistakes. The speed of the puck is definitely faster. The grip at line up and acceleration is better. The curve conduct is about the same as on the Sportcourt. The tests are absolutely positive.'

The Swiss have gone on to purchase a number of Bergo MultiSport floors for their teams.

This test was undertaken in March 1997