

PRODUCT INFORMATION - MATRIX (XL Range)

Pattern: Matrix has a rounded 'snowflake' pattern and flexible connections between the tiles. The holes in the tile allow water to drain and air to circulate. They also create grip for the feet. The tiles fit with a slight gap between each tile which allows for thermal expansion and creates a paved effect. Matrix is free draining underneath and easy to lift up if required for cleaning underneath.

Edgetiles: are required in doorways and along exposed edges to provide a neat finish and prevent a trip hazard. Edgetiles can clip onto any side of the Matrix tile.

Corners: required where 2 outer Edgetiles meet.

Colours: Metal Grey, Stone Grey, Graphite Grey, Rich Brown. Edgetiles and Corners are also available in Dark Green, Grass Green, Steel Blue, Sand, Terracotta.

Examples of Uses: Balconies, Terraces, Play Areas, Changing Rooms, Poolsides, Store Rooms, Cellars, Exhibition Stands.

Material	Environmentally friendly recyclable UV-stabilized polypropylene	
Size	378 x 378 mm	
Thickness	10,1 mm	
Weight per tile	350 g	
Point weight in room temperature +19°C	Weighted area	Pressure
	1 cm ²	85 kg
	4 cm ²	370 kg
	1 dm ²	2500 kg
	1 m ²	250 ton

	Test method	Test method	Units	Rate
Skid resistancy	ZH1/571	DIN 51 130	°	13,7°= R10
Drainage capacity	ZH1/571	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	902
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: 0,15 % per 10 °C

Formula for the size of the expansion: (0,0015 x length of the floor) x (number of increased degrees /10)

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

Example	Length of floor	Calculation	Expansion	Length of floor after expansion
0°C-10°C	10 m	0,0015 x 10m =0,015m 0,015m x (10°/10) = 0,015	1,5 cm	10,015 m
0°C-30°C	10 m	0,0015 x 10m =0,015m 0,015m x (30°/10) = 0,045	4,5 cm	10,045 m
20°C-40°C	20 m	0,0015 x 20m = 0,030m 0,030m x (20°/10) = 0,060	6,0 cm	20,060m

For Matrix the expansion-extension uptakes in the flexible connections.