

# Glazed Floor Tiles

**Product description** Glazed, dry pressed, ceramic floor tiles for use on interior floors and walls, in accordance with EN norm. 14411 (group B - dry pressed). The glazed floor tile collection is divided into series.

For further information on these series, see [www.mosa.nl](http://www.mosa.nl).

NEN-EN 14411, Bla Group with a water absorption of  $E \leq 0.5\%$   
 NEN-EN 14411, Blb Group with a water absorption of  $0.5 < E \leq 3\%$   
 NEN-EN 14411, Blc Group with a water absorption of  $3 < E \leq 6\%$   
 NEN-EN 14411, BIII Group with a water absorption of  $E > 10\%$

The product norms are given per series under the Product specification.

**Product advantages** Very hard-wearing floor tile. Extreme resistance to rupture and breaking. Resistant to chemicals. Easy in maintenance. Dimensionally stable. Suitable to use in combination with underfloor heating. Mosa floor tiles exceed the quality standard of EN 14411 (see technical data).

NB. Glazed floor tiles from the Bla group with water absorption of  $\leq 0.5\%$  are also suitable for outdoor use.  
 NB. Not all Mosa glazed floor tiles are modular with Mosa wall tiles.

**Product specification** **Series names, dimensions, frost / wear resistance**

Mosa Series name	Manufacturing dimension in mm	Colour code	Frost resistance		Wear resistance PEI class	EN 14411
			Yes	No		
480	147 x 147 x 6	483V, 484V	X		IV	Blb
		485V	X			
Carthago*	197 x 197 x 7,5	3020		O	III	BIII
Casa	197 x 197 x 6	454V, 455V,		O	IV	BIIa
		456V, 457V		O		
Combisol	197 x 197 x 6	811SV, 812SV, 813SV		O	IV	BIIa
	247 x 247 x 7	821SV, 822SV, 823SV		O		
Unisol	197 x 197 x 6	410SV, 414SV - 416SV		O	IV	BIIa
		419SV		O		
	247 x 247 x 7	417SV, 418SV, 469SV			III	BIIa
		417SV, 469SV		O	III	
Vesta	197 x 197 x 6	458SV, 459SV, 460SV		O	IV	BIIa
The White Collection	297 x 297 x 7	525VM, 526VM		O	IV	BIIa
		527VM, 528VM		O		
The Stone Collection	450 x 450 x 10,5**	852V	X		IV	Bla
	446 x 446 x 10,5	852PL	X			

\* As a floor tile, only suitable for residential bathrooms.

\*\* Do not fit modularly to Mosa wall tiles.

**Application** The tiles in group Bla are frost resistant  
 The tiles in group Blb are frost resistant  
 The tiles in group BIIa are not frost resistant  
 The tiles in group BIII are not frost resistant

**Advice on tile use**

PEI class (wear resistance)	Area of application
PEI II	Bathroom, bedroom
PEI III	Residential, including kitchens
PEI IV	Residential, including kitchens

**Price groups** See price groups under series at [www.mosa.nl](http://www.mosa.nl) or in Mosa Documentation.

**Shades** Tiles are a natural product. Small shade differences may occur. Mosa sorts products by shade, which is given on the box.

**Accessories** See Mosa Documentation.

# Glazed Floor Tiles

Technical data	Properties						
	ISO-Test	EN 14411 requirement Bla / Blb	Mosa-norm	EN 14411 requirement Blla	Mosa-norm	EN 14411 requirement Blll	Mosa-norm
Length and width	10545-2	+/- 0,5%	15 x 15: +/- 0,3% 20 x 20: +/- 0,3% 25 x 25: +/- 0,3% 30 x 30: +/- 0,3% 45 x 45: +/- 0,2%	+/- 0,5%	15 x 15: +/- 0,3% 20 x 20: +/- 0,3% 25 x 25: +/- 0,3% 30 x 30: +/- 0,3% 45 x 45: +/- 0,2%	+/- 0,5%	+/- 0,25%
Thickness	10545-2	+/- 5%	+/- 3%	+/- 5%	+/- 3%	+/- 10%	+/- 4%
Straightness of sides	10545-2	+/- 0,5%	15 x 15: +/- 0,5% 20 x 20: +/- 0,5% 25 x 25: +/- 0,3% 30 x 30: +/- 0,3% 45 x 45: +/- 0,2%/0,02%*	+/- 0,5%	15 x 15: +/- 0,5% 20 x 20: +/- 0,5% 25 x 25: +/- 0,3% 30 x 30: +/- 0,3% 45 x 45: +/- 0,2%/0,02%*	+/- 0,3%	+/- 0,2%
Rectangularity	10545-2	+/- 0,6%	15 x 15: +/- 0,5% 20 x 20: +/- 0,5% 25 x 25: +/- 0,5% 30 x 30: +/- 0,5% 45 x 45: +/- 0,4%/0,04%*	+/- 0,6%	15 x 15: +/- 0,5% 20 x 20: +/- 0,5% 25 x 25: +/- 0,5% 30 x 30: +/- 0,5% 45 x 45: +/- 0,4%/0,04%*	+/- 0,5%	+/- 0,4%
Center curvature	10545-2	+/- 0,5%	15 x 15: +/- 0,4% 20 x 20: +/- 0,5% 25 x 25: +/- 0,3% 30 x 30: +/- 0,3% 45 x 45: +/- 0,3%	+/- 0,5%	15 x 15: +/- 0,4% 20 x 20: +/- 0,5% 25 x 25: +/- 0,3% 30 x 30: +/- 0,3% 45 x 45: +/- 0,3%	+0,5%/-0,3%	+0,4%/-0,2%
Edge curvature	10545-2	+/- 0,5%	15 x 15: +/- 0,3% 20 x 20: +/- 0,3% 25 x 25: +/- 0,3% 30 x 30: +/- 0,3% 45 x 45: +/- 0,2%	+/- 0,5%	15 x 15: +/- 0,3% 20 x 20: +/- 0,3% 25 x 25: +/- 0,3% 30 x 30: +/- 0,3% 45 x 45: +/- 0,2%	+0,5%/-0,3%	+0,4%/-0,2%
Warpage	10545-2	+/- 0,5%	15 x 15: +/- 0,5% 20 x 20: +/- 0,5% 25 x 25: +/- 0,3% 30 x 30: +/- 0,3% 45 x 45: +/- 0,3%	+/- 0,5%	15 x 15: +/- 0,5% 20 x 20: +/- 0,5% 25 x 25: +/- 0,3% 30 x 30: +/- 0,3% 45 x 45: +/- 0,3%	+/- 0,5%	+/- 0,4%
Water absorption Bla Blb	10545-3	≤0,5% 0,5% < E ≤3%	<0,3% <3%	3% < E ≤6%	<6%	>10%	19%
Bending strength	10545-4	27 N/mm <sup>2</sup>	40 N/mm <sup>2</sup>	20 N/mm <sup>2</sup>	>22 N/mm <sup>2</sup>	15 N/mm <sup>2</sup>	24 N/mm <sup>2</sup>
Coefficient of linear thermic expansion	10545-8	9 x 10 <sup>-6</sup> [K <sup>-1</sup> ]	8 x 10 <sup>-6</sup> [K <sup>-1</sup> ]		8 x 10 <sup>-6</sup> [K <sup>-1</sup> ]	9 x 10 <sup>-6</sup> [K <sup>-1</sup> ]	7,5 x 10 <sup>-6</sup> [K <sup>-1</sup> ]
Thermal shock resistance	10545-9	Required	Resistant	Required	Resistant	Required	Resistant
Frost resistance	10545-12	Required	Resistant	Not required	Not resistant	Not required	Not resistant
Chemical resistance (except for metallic glazes) against: Household chemicals Swimming pool additives	10545-13	≥GB	UA****	≥GB	GA**	≥GB	GA**
Acids and alkalis		Required	UA****	Required	GLA***	Required	GLA***
Staining agents	10545-14	≥3	5	≥3	5	≥3	5

\* for rectified tiles 45 x 45

\*\* GA = no visible damage, also not in pencil test

\*\*\* GLA = no visible damage (at low concentration)

\*\*\*\* UGA = highest class = no visible damage, also not in pencil test

<b>Advice</b>	<p><b>For application on interior floors</b></p> <p>Mosa glazed floor tiles can be placed using any mortars, adhesives and grouting agents suitable for floor tiles, according to all standard fixation methods. Please refer to the information provided by the adhesives manufacturer for information of suitability and working guidelines. If laid in a fresh mortar, a contact coating on the damp mortar is recommended for tiles from 20 x 20 cm and essential from 40 x 40 cm.</p> <p>Tiles from the Carthago series can also be laid in a cement mortar, with a ratio of 1:5 cement / fine sand.</p> <p>The floor must be sufficiently even, and when laying tiles of 40 x 40 cm and larger, absolutely even, stable, pressure and tensile resistant, permanently dry and free from dirt, separating agents and cracks.</p> <p>When gluing, the adhesive contact surface with the tile surface must be at least 90%.</p> <p>Tiles can be cut to size using a tile cutter with Widia-blade or using a water-cooled diamond saw. Dilatation should be made in conformation with instructions of constructor or specifications. Grouting should be done according specifications grout-manufacturer.</p>
<b>Related Technical Product sheets</b>	<p>Ultragres Anti-slip</p> <p>Glazed wall tiles</p>
<b>Maintenance</b>	Please consult the Mosa documentation or <a href="http://www.mosa.nl">www.mosa.nl</a> .
<b>Samples</b>	<a href="mailto:showroomservice@mosa.nl">showroomservice@mosa.nl</a> ; Tel: +31 (0)43 368 93 23
<b>General questions</b>	Sales Support: <a href="mailto:servicedesk@mosa.nl">servicedesk@mosa.nl</a> ; Tel: +31 (0)43 368 92 29; Fax +31 (0)43 368 93 56

---

The text of this Technical Product sheet replaces all previous versions and has been compiled with the greatest care, in collaboration with leading adhesives manufacturers. The advice is based on state-of-the-art know-how. This Technical Product sheet is intended as a source of information on Mosa products, properties and applications, and therefore cannot be construed as any form of warranty for such advice. Mosa explicitly denies any liability. For warranties and liability, please refer to our general sales, delivery and payment conditions. No rights may be derived from the contents of this Technical product sheet. Subject to printing errors and price changes. For the latest version, see [www.mosa.nl](http://www.mosa.nl).

---



**Royal Mosa**

Meerssenerweg 358  
P.O. Box 1026  
NL-6201 BA Maastricht - The Netherlands  
T +31 (0)43 368 92 29  
F +31 (0)43 368 93 56  
[servicedesk@mosa.nl](mailto:servicedesk@mosa.nl)  
[www.mosa.nl](http://www.mosa.nl)

