

Mosa. Tiles.

Glazed Wall tiles

Product description

Glazed, dry-pressed ceramic wall tiles, with white body, in accordance with EN 14411 BIII, with a water absorption > 10%, not frost resistant, manufactured using a double-firing process. The glazed wall tile collection is divided into various series. These can contain decor tiles as well as strips. For more information about the available series see www.mosa.nl/en.

Cradle to Cradle (C2C) Silver certified; designed for the technosphere and safe for the biosphere.

Product advantages

Mosa wall tiles exceed the quality required by the EN 14411 BIII standard. Virtually all Mosa wall tiles are modular, based on a 3 mm grout line, and can be combined with modular floor tiles from Mosa. Mosa wall tiles usually have at least one fully glazed edge, which allows for easy construction of external corners.

Sustainability and Cradle to Cradle

Mosa tiles are Cradle to Cradle (C2C) Silver certified. The composition of Mosa tiles is pure, clean and suitable for inclusion in the cradle-to-cradle cycle. This means that they do not release any hazardous substances during or after their long service life. Mosa tiles are produced in our own factories in Maastricht (NL). We utilise renewable energy sources and local materials whenever possible, resulting in a favourable CO2 balance. Specific data about Mosa tiles are included in the National Environmental Database for calculation of the material-related environmental performance in conformance with the Dutch Building Decree. An Environmental Product Declaration (EPD type III) and MRPI sheet (containing environmentally-related product information) are available upon request via info@mosa.nl. Mosa tiles are ideally suited for use in sustainable buildings and contribute to the award of hallmarks or points from organisations such as LEED and BREEAM. For current information see www.mosa.nl/en under Sustainability.

NEN-EN-ISO 14001

Since 2007, Mosa has organized her environmental management system according to the international ISO 14001 standard.

Recycling

Mosa glazed wall tiles contain 22% or 25% recycled material, depending on the product type.

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Technical data

Properties	ISO test	EN 14411 Bill standard	Mosa standard
Length and width	10545-2	< 15 cm: +/- 0,75mm ≥ 15 cm: +/- 0,5%, max. +/- 2,0 mm	L ≤ 151mm: +/- 0,3% L > 151mm: +/- 0,2% L > 447mm: +/- 0,15%
Thickness	10545-2	< 15 cm: +/- 0,5mm ≥ 15 cm: +/- 10%, max. +/- 0,5mm	d ≤ 6.3mm: +/- 4% d > 6.3mm: +/- 3%
Straightness of sides	10545-2	< 15 cm: +/- 0,5mm ≥ 15 cm: +/- 0,3%, max. +/- 1,5mm	+/- 0,2%
Rectangularity	10545-2	< 15 cm: +/- 0,75mm ≥ 15 cm: +/- 0,5%, max. +/- 2,0 mm	L < 447mm: +/- 0,3% L ≥ 447mm: +/- 0,2%
Centre curvature	10545-2	< 15 cm: - 0,5 / + 0,75mm ≥ 15 cm: - 0,3% max. - 1,5 mm / + 0,5 % max. + 2,0 mm	-0,2/+0,4%, max. 1,5mm
Edge curvature	10545-2	< 15 cm: - 0,5 / + 0,75mm ≥ 15 cm: - 0,3% max. - 1,5 mm / + 0,5 % max. + 2,0 mm	-0,2/+0,3%, max. 1,3mm
Warpage	10545-2	< 15 cm: 0,75mm ≥ 15 cm: 0,5%, max. 2,0 mm	-0,4% / + 0,2%, max. 1,3mm
Water absorption	10545-3	> 10%	satisfactory
Bending strength	10545-4	d < 7,5mm: 15 N/mm ² d ≥ 7,5mm: 12 N/mm ²	d < 7,5mm: 24 N/mm ² d ≥ 7,5mm: 20N/mm ²
Breaking load	10545-4	d < 7,5mm: 200 N d ≥ 7,5mm: 600 N	d < 7,5mm: 300 N d ≥ 7,5mm: 900 N
Coefficient of linear thermal expansion	10545-8	9 x 10 ⁻⁶ [K ⁻¹]	7,5 x 10 ⁻⁶ [K ⁻¹]
Thermal shock resistance	10545-9	required	satisfactory
Frost resistance	10545-12	not required	not resistant
Chemical resistance (excluding metallic glazes) against: Household chemicals Swimming pool salts	10545-13	≥ GB	GA*
Stain resistance	10545-14	≥ class 3	class 5**
Cradle to Cradle			Silver***

* Chemical resistance against acids and alkalis: Classe GLA (low concentrations) and GHA (high concentrations); A = highest classe (no visible effects).

** With the exception of Matt Collection

*** Does not apply to some colours. Search in the collection at www.mosa.nl for detailed information.

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Glazed edge

On average, 50% of the wall tiles per box have a glazed edge.

For rectangular sizes, the installation orientation recommended by Mosa determines which edge is glazed:

- wall tiles intended for horizontal installation have a short edge glazed;
- wall tiles intended for vertical installation have a long edge glazed.

Deviations to this rule are possible for the 15x20 cm format. Please consult the Mosa documentation for additional information.

Dimensions

Modular dimensions and manufacturing dimensions

Production is based on manufacturing dimensions, in accordance with Mosa's modular system. The modular size is expressed in centimetres, while the manufacturing size is expressed in millimetres.

A modular size of 15x15 cm is equivalent to a manufacturing size of 147x147 mm. The tiles are intended for installation with a 3 mm grout line.

Manufacturing dimensions are measured at the front surface of the tile. Non-rectified tiles taper outwards slightly toward the back side.

Rectified

Rectified wall tiles from the Linea LED collection have ground-to-size edges and can be installed with a minimum grout line width of 2 mm.

Non-modular

The Holland and Cerawall series include some non-modular tiles in the 151x151 mm format.

Modular installation

'Modular installation' means that wall and floor tiles can be installed with matching grout lines, following a standard grid pattern, such as 100 mm or 150 mm or multiples thereof, based on the manufacturing dimensions (calibres). The manufacturing dimensions (calibre) determine the grout line width.

Shades

Tiles are a natural product. Minor colour differences are normal. Mosa sorts products by shade, which is indicated on the box.

Some wall tile collections include decorated tiles; shade differences between regular field tiles and decorated tiles of the same colour are possible.

Article coding on the packaging

The following information can be derived from the coding on the packaging:

Sample article coding on packaging: **45260 L 015020 1 00 TL 0 C33**

45260	colour	
1520	modular format 15x20cm	
L	glazed edge	L long side for rectangular format K short side for rectangular format Not applicable for square formats
1	grade	Mosa only packages and delivers grade 1 tiles
00	calibre designation	Mosa's precise process control makes it unnecessary to utilise calibres for wall tiles. The calibre designation for wall tiles is therefore always 00.
TL	tint designation	
0	thickness designation	Standard 0. If a standard article is to be produced in a non-standard thickness, a different thickness designation will be shown here.
C33	packaging code	Indicates the type of box and the number of pieces per box.

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Light reflectance value

The light reflectance value (LRV) is the ratio of the total quantity of light reflected from a surface to the total quantity of incident light on the surface. The LRV can be used to determine the contrast between different colours. LRV is important for tasks such as preparing a lighting plan and selecting colours for non-ventilated facades. See the Mosa documentation or www.mosa.nl/en for the LRV for each colour.

HACCP

Mosa glazed wall tiles have an impermeable glazed surface that is chemically resistant. The Global Collection and Holland 2040 series feature matching, modular quarter-round strips and internal and external corners for rounded transitions from vertical to horizontal surfaces. In combination with the thin coved skirting (DP) a curved transition can be made from floor to wall, which is particularly recommended in areas subject to HACCP requirements, such as:

- bakeries
- fruit and vegetable processing areas
- hotels, restaurants and cafés
- supermarkets
- slaughterhouses and butcher shops
- fish processing and retailing areas
- food preparation areas
- dairy production and processing areas
- breweries
- changing and shower rooms

Tiling recommendations

Mosa wall tiles can be installed with any conventional tiling method, using any mortars, adhesives (EN 12004 type C2) and grout compounds (EN 13888) suitable for use with wall tiles.

Consult the tile adhesive manufacturers' installation instructions. For additional installation recommendations see www.mosa.nl/en.

Maintenance

General: Refer to the Mosa documentation or www.mosa.nl/en

Metallic-coloured wall tiles and strips, natural stone strips, aluminium strips and decors, and glass strips and decors are susceptible to acid and chlorinated or abrasive products, even when diluted. Deterioration may occur in the form of spots or scratches. Cement or grout residue may only be removed with a light alkaline floor cleaner, such as HMK R155 acid-free cement residue and lime remover (Moeller Stonecare), in the concentration prescribed by the manufacturer.

For daily cleaning please refer to the current maintenance recommendations at www.mosa.nl/en.

Samples

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General questions

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The text for this Technical product sheet replaces all preceding versions and has been composed with the utmost care and in cooperation with the leading mortar and adhesive producers. All recommendations are based on the latest research. This Technical Product Sheet contains information about Mosa products, properties and applications, and should not be construed as a guarantee based on the provided recommendations. Mosa accepts no liability based on the content of this document. For information concerning warranties and liability please refer to our General Terms and Conditions of Sale. No rights can be derived from the contents of this Technical Product Sheet. We take no responsibility for typographical errors. For the latest version, see www.mosa.nl.