

# Mosa. Tiles.

## Glazed Wall tiles

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### **Collections**

10thirty®, 15thirty Collection, 30thirty, Combination Quartz®, Global Collection, Kho Liang le Collection®, Linea Led, Mix & Mozaïcs, More than white, Mosa Colors®, Mosa Matt Collection®, Mosa Murals®, Mosa Scenes, The White Collection, Trocadero.

### **Product description**

Glazed, dry-pressed ceramic wall tiles, with white body, in accordance with ANSI A137.1 class P4, 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/us](http://www.mosa.nl/us). Cradle to Cradle (C2C) Silver certified; designed for the technosphere and safe for the biosphere.

### **Product advantages**

Mosa wall tiles meet or exceed the quality required by the ANSI A137.1 standard. Virtually all Mosa wall tiles are modular, based on a 1/8 inch grout line, and can be combined with modular floor tiles from Mosa. For indoor use in residential and commercial areas, not suitable for exterior use. 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 conform 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](mailto: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/us/mosa/sustainability](http://www.mosa.nl/us/mosa/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. Our tiles do not contain lead particles hazardous to health or environment. Consult [www.mosa.nl/us/mosa/sustainability](http://www.mosa.nl/us/mosa/sustainability).

### **Our limited warranty**

Royal Mosa warrants that its first choice ceramic wall tiles are manufactured to specifically mentioned ASTM and ISO standards and meet or exceed the requirements of those standards, unless specifically excluded, and excluding other standards. Please consult Royal Mosa's sales conditions for complete product warranty details.

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### Technical data

Properties	ASTM test	ISO test	ANSI A137.1 P4 requirements <sup>A</sup>	Mosa standard
Facial dimensions (range)	C 499		calibrated: +/- 0,3% or +/- 0.04" rectified: +/- 0.25% or +/- 0.08"	L ≤ 6": +/- 0.3% L > 6": +/- 0.2% L > 18": +/- 0.15%
Actual thickness (range)	C 499		≤ 0.031"	< 0.015"
Warpage edge	C 485		min: - 0.3% or - 0.04", max: +0.4% or + 0.05"	min: -0.2% or -0.04" max: 0.3% or 0.05"
Warpage diagonal	C 485		min: - 0.3% or - 0.05" max: +0.4% or + 0.07"	min: -0.2% or -0.05" max: 0.3% or 0.07"
Wedging	C 502		calibrated: +/- 0.4% or +/- 0.05" rectified: +/- 0.25% or +/- 0.03"	L < 18": +/- 0.3% L ≥ 18": +/- 0.2%
Water absorption	C 373		< 20%	Pass
Thermal shock resistance	C 484		Pass	Pass
Bond strength	C 482		≥ 50psi	> 55psi
Crazing	C 424		Pass	Pass
Frost resistance			Not required	Not resistant
Breaking strength	C 648	10545-4	≥ 125 Lbf d < 7.5 mm (0.295"): 200 N (45 lbs) d ≥ 7.5 mm (0.295"): 600 N (135 lbs)	Pass <sup>C</sup> d < 7.5 mm (0.295"): 300 N (67 lbs) d ≥ 7.5 mm (0.295"): 600 N (135 lbs)
Modulus of rupture		10545-4	d < 7.5 mm (0.295"): 15 N/mm <sup>2</sup> ( 2175 psi) d ≥ 7.5 mm (0.295"): 12 N/mm <sup>2</sup> (1740 psi)	≥ 16 N/mm <sup>2</sup> (2320 psi)
Stain resistance	C 1378			Class A <sup>D</sup>
Chemical resistance	C 650			Class A
Cradle to Cradle				Silver <sup>E</sup>

A Breaking strength and Modulus of Rupture (ISO 10545-4) produced in accordance to EN 14411 BIII.

B Actual thickness depends on size and series.

C Except 6" x 6" in 0.22" (< 125lbf)

D Except Mosa Matt Collection

E Except a few colors; see Mosa documentation or website 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.

Size	Glazed edge
4" x 4"	Yes
4" x 8"	Yes, 8" edge
4" x 12"	Yes, 4" edge; 12" edge on special request
6" x 6"	Yes, except Mosa Murals (Change, Lines)
6" x 8"	Yes, 8" edge
6" x 12"	Yes, 6" edge except Mosa Murals (Change, Lines); 12" edge on special request
8" x 10"	Yes, 10" edge
8" x 24"	Yes, 8" edge
12" x 12"	Yes, except Mosa Murals (Change, Lines)
12" x 18"	Yes, 18" edge
12" x 24"	Yes, 12" edge except Mosa Murals (Change, Lines); 24" edge on special request

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 (6x6 inch) is equivalent to a manufacturing size of 147 x 147 mm. The tiles are intended for installation with a 3 mm (1/8 inch) 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 (1/16 inch).

### 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 shade differences may occur. Mosa sorts products by shade, which is indicated on the box.

### 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**

<b>45260</b>	color	
<b>015020</b>	modular format 15 x 20 cm (6 x 8 inch)	
<b>L</b>	glazed edge	L long side for rectangular format. K short side for rectangular format. Not applicable for square formats.
<b>1</b>	grade	Mosa only packages and delivers grade 1 tiles.
<b>00</b>	calibre designation	Mosa's precise process control limits the calibre designation for wall tiles to 00 (or 77 for Global and Colors 6 x 6 inch).
<b>TL</b>	shade designation	
<b>0</b>	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.
<b>C33</b>	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), determined in accordance to ASTM C609, 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 colors. LRV is important for tasks such as preparing a lighting plan and selecting colors for non-ventilated facades. See the Mosa documentation or [www.mosa.nl/us](http://www.mosa.nl/us) for the LRV for each color.

### 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 and grout compounds (ANSI 108 and 118 or ISO 13007) suitable for use with ceramic wall tiles. Consult the tile adhesive manufacturers' installation instructions. For additional installation recommendations see [www.mosa.nl/us](http://www.mosa.nl/us).

### Maintenance

General: Refer to the Mosa documentation or [www.mosa.nl/us](http://www.mosa.nl/us).

Metallic-colored 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 neutral or light alkaline cleaner, in the concentration prescribed by the manufacturer. For daily cleaning please refer to the current maintenance recommendations at [www.mosa.nl/us](http://www.mosa.nl/us).

### General questions and samples

Sales Support: [info@mosausa.com](mailto:info@mosausa.com)



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Our tiles should be installed in accordance with the current application guides of the Tile Council of America and/or American National Standards Institute guides and standards. Errors and omissions excepted. 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. This technical product sheet replaces all previous versions. For the most actual version see [www.mosa.nl](http://www.mosa.nl).