Mosa.
Glazed Wall tiles

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.com/en-us. Cradle to Cradle (C2C) Gold 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) Gold 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.com. 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.com/en-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 up to 33% recycled material, depending on the product type.

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.

KOMO Quality Certificate
Mosa glazed wall tiles are KOMO certified (certificate number IKB1466) in accordance with BRL 1010 and therefore meet stricter requirements regarding dimensional accuracy, flatness and crazing resistance compared to EN 14411, type BIII. Mosa tiles also comply with the requirements for materials used in accordance with URL35-101, Chapter 4, for obtaining the KOMO process certificate for the installation of ceramic tiling (BRL 1017).

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Technical data

Properties	ASTM test	ISO test	ANSI A137.1 P4 requirements[A]	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)[B]	C 499		≤ 0.031”	≤ 0.248”: +/- 4% > 0.248”: +/- 3%
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: 0.4% 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[C] d < 7.5 mm (0.295"): 300 N (67 lbs) d ≥ 7.5 mm (0.295"): 800 N (202 lbs)
Modulus of rupture		10545-4	d < 7.5 mm (0.295"): individual 15 N/mm² (2175 psi) d ≥ 7.5 mm (0.295"): average 12 N/mm² (1740 psi)	d < 7.5 mm (0.295"): individual 24 N/mm² (3480 psi) d ≥ 7.5 mm (0.295"): average 20N/mm² (2900 psi)
Stain resistance	C 1378			Class A
Chemical resistance	C 650			Class A
Cradle to Cradle				Gold[D]

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" and 8” x 10” in 0.21" (< 125lbf)

D Except a few colors 4” x 4”; see Mosa documentation or website for detailed information.

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 from the installation direction specified above are possible. 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.

- 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 Packaging
The packaging contains the following information: the article number and an information table indicating the tile thickness, the number of m^2 per box, the number of pieces per box, and the weight per box. In addition, the calibre designation, manufacturing dimensions, and shade designation are specified.

HACCP
Mosa glazed wall tiles have an impervious glazed surface and are chemically resistant. In combination with the slim cove skirting tile (DP), a smooth, curved transition from floor to wall can be achieved. This is particularly recommended in areas where the HACCP system applies, such as:
- Bakeries
- Fruit and vegetable processing facilities
- Catering and hospitality establishments
- Supermarkets
- Slaughterhouses and butcher shops
- Fish processing and trading facilities
- Food processing facilities
- Dairy production and processing facilities
- Breweries
- Changing rooms and shower facilities

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.com/us for the LRV for each color.

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.com/en-us.

Maintenance
General: Refer to the Mosa documentation or www.mosa.com/en-us.

General questions and samples
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Mosa.

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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