

# 10thirty wall tiles frost resistant

**Product description** Glazed, dry pressed wall tiles on white biscuit, in accordance with EN 14411 B1b. Water absorption < 3%, frost resistant, produced by a double fired system. For more information regarding this series, see [www.mosa.nl](http://www.mosa.nl).

**Product advantages** Mosa frost resistant wall tiles exceed the quality standards required by EN 14411 B1b. May also be used in areas where the temperature may go below zero Celsius, e.g. external facades.

**Product specification** **Dimensions and appearances**

Modular size in cm incl. 3 mm joint	Production size in mm	Article code	Colour	Appearance	Surface structure
10 x 30	97 x 297 x 7.8	13210..1030	White	Matt	Flat
10 x 30	97 x 297 x 7.8	13310..1030	White	Gloss	Flat
10 x 30	97 x 297 x 7.8	13410..1030*	Metallic	Matt	Flat
10 x 30	97 x 297 x 7.8	13411..1030*	Metallic	Matt	Relief

\* Not frost proof.

**Price groups**

Article code 13210/13310: U 396

Article code 13410: U 471

Article code 13411: U 509

**Shades**

Tiles are a natural product. Minor shade differences may occur. Mosa sorts products according shade which is printed on the box.

**Technical data**

**Properties according standard EN 14411 B1b and Mosa standard**

Property	ISO-Test	Standard EN 14411 B1b	Mosa standard
Length and width	10545-2	+/- 0.5%	+/- 0.4 %
Thickness	10545-2	+/- 0.6 mm	+/- 0.4 mm
Straightness of sides	10545-2	+/- 0.3%	+/- 0.2%
Warpage	10545-2	+/- 0.5%	+/- 0.4%
Water absorption	10545-3	< 3%	< 3%
Bending strength	10545-4	27 N/mm <sup>2</sup>	40 N/mm <sup>2</sup>
Coefficient of linear thermal expansion	10545-8	9 x 10 <sup>-6</sup> [K <sup>-1</sup> ]	8 x 10 <sup>-6</sup> [K <sup>-1</sup> ]
Thermal shock resistance	10545-9	Required	Resistant
Frost resistance	10545-12	Required	Resistant
Chemical resistance (except metallic glaze) against: Household chemicals Swimming pool salts	10545-13	Required	GA*
Acids and alkalis		Required	GLA**
Staining agents	10545-14	≥ 3	5

\* GA = no visible effect, not even with the pencil test.

\*\* GLA = no visible effect, (low concentration).

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<b>Installation instructions</b>	<b>Wall tiles</b> All kinds of suitable mortars or adhesives can be used to install Mosa wall tiles. Please consult guidelines from Adhesive manufacturers.  <b>Metallic-coloured wall tiles</b> Metallic-coloured wall tiles (colour codes 13410 and 13411) are sensitive to acid and chlorine containing liquids, even in diluted form. Tiles may stain. Cement residue can only be removed with a light alkalide cleaner, for example HMK R55 or HG Marble cement remover (diluted).
<b>Relevant Technical product sheets</b>	Glazed Wall Tiles
<b>Maintenance</b>	Please consult Mosa documentation or <a href="http://www.mosa.nl">www.mosa.nl</a>  <b>Metallic-coloured wall tiles</b> Most normal household all purpose cleaners are suitable providing they don't contain any acid or chlorine components; rinse with water immediately after cleaning. Abrasive cleaners should not be used.
<b>Sampling</b>	<a href="mailto:showroomservice@mosa.nl">showroomservice@mosa.nl</a> Tel: +31 (0)43 368 93 23
<b>General inquiries</b>	International Service Desk: <a href="mailto:servicedesk@mosa.nl">servicedesk@mosa.nl</a> Tel: +31 (0)43 368 92 29; Fax: +31 (0)43 368 93 56

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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 current state-of-the-art knowledge. This Technical product sheet contains information about Mosa products, properties and applications, and therefore may not to be used as a guarantee for the stated recommendations. Mosa will not be held responsible should this information be used as a guarantee. For warranties and liability we refer to our General Terms and Conditions of Sale. No rights can be derived from the contents of this Technical product sheet. Errors and price alterations excepted. For the most actual version see [www.mosa.nl](http://www.mosa.nl).

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NEN-EN 14411