

# Xtreme Glass, Steel, Ceramics

**Product description** Modular collection of tiles made from glass, stainless steel and Ultragres-ceramics matching both in thickness and size making them easily compatible. The modular sizes include a 4 mm joint. Sizes 45 x 45 and 60 x 60 cm may be installed with a minimum 2 mm joint.

## Xtreme Glass

Tempered and non-tempered glass tiles. Suitable only for interior floor and wall applications.

## Xtreme Steel

Stainless steel tiles on a ceramic base. Suitable only for interior floor and wall applications.

## Xtreme Ceramics

Unglazed, fully vitrified floor tile, manufactured according to the Ultragres-process, in accordance with EN 14411 Bla, with a surface water absorption of < 0.05% and < 0.3% on the underside. Mat surface finish with a natural appearance, obtained through a random scattering of ceramic dust particles during the production process. The surface does have a certain 'direction' which should be taken into consideration when installing.

Suitable for floor and wall applications both internally and externally.

## Xtreme Glass

### Product specification Xtreme Glass

#### Dimensions, article numbers and colours

Modular size in cm incl. 4 mm joint	Production size in mm	Article code		Colour
		Tempered	Non-tempered	
30 x 30	296 x 296 x 10	301V	301NT	White
30 x 30	296 x 296 x 10	304V	304NT	Matt white
45 x 45	446 x 446 x 10	301V	301NT	White
45 x 45	446 x 446 x 10	302V	302NT	Light grey
45 x 45	446 x 446 x 10	303V	303NT	Mid grey
45 x 45	446 x 446 x 10	304V	304NT	Matt white
45 x 45	446 x 446 x 10	305V	305NT	Matt light grey
45 x 45	446 x 446 x 10	311V	311NT	Light grey metallic
45 x 45	446 x 446 x 10	312V	312NT	Mid grey metallic
45 x 45	446 x 446 x 10	313V	313NT	Anthracite metallic
45 x 45	446 x 446 x 10	314V	314NT	Blue metallic
45 x 45	446 x 446 x 10	315V	315NT	Green metallic
60 x 60	596 x 596 x 12	301V	301NT	White
60 x 60	596 x 596 x 12	304V	304NT	Matt white

V = tempered safety glass for application on floor and wall, CANNOT be cut to size.

NT = non-tempered float glass, may be cut to size, use only as insert pieces!

#### Technical data Xtreme Glass

Thickness	Base: 2 mm. Glass: 8 mm at 30 x 30 cm / 45 x 45 cm and 10 mm at 60 x 60 cm
Quality	Tempered (= V) and non-tempered (= NT) float glass
Slip resistance	R9 (DIN 51130) = 301/302/303/311/312/313/314/315 (V/NT) R10 (DIN 51130) = 304/305 (V/NT) Results of dynamic friction coefficient FSC 2000: Leather/dry: ≤ 0.38 = reasonably safe Rubber/dry: ≤ 1.00 = very safe Synthetic/dry: ≤ 0.75 = very safe Leather/wet: ≤ 0.71 = very safe Rubber/wet: ≤ 0.32 = reasonably safe Synthetic/wet: ≤ 0.30 = reasonably safe Dry 'walk-off mats' recommended!
Scratch resistance	Mohs 5-6. The use of glass is subject to scratching. Therefore dry 'walk-off mats' are recommended to minimise the effects of sand (quartz particles)! The scratch resistance of tempered and non-tempered glass is equal.
Wear resistance	Volume loss after 6,000 rotations 0.2120 g (EN 154). After a certain length of time dependant on situation, conditions of use and, level of pollution a certain deterioration of surface quality may occur.
Application	Suitable only for interior floor and wall applications.
Chemical resistance	Caustic: level 1-2 (DIN 52322) Acids: level 1 (DIN 1249)
Coefficient of expansion	$9 \times 10^{-6} [K^{-1}]$
Colour fastness	Moisture and UV radiation combined may cause discoloration.

# Xtreme Glass, Steel, Ceramics

## Installation instructions Xtreme Glass

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**General**

Installing Xtreme Glass, whether in combination with ceramic tiles or not, is not a simple matter. Therefore these installation instructions must be followed carefully. Xtreme Glass is intended exclusively for use on interior floors and walls (and is not suitable for use outside).

Mosa recommends that only safety (tempered) glass is to be used for floors and walls (article code Xtreme Glass ...V). The breaking strength is considerably higher than non-tempered glass. Non-tempered glass tiles (article code Xtreme Glass ...NT) may also be used for walls owing to the smaller loads involved. Where cutting or drilling is necessary, only non-tempered glass tiles (article code Xtreme Glass ...NT) may be used. A black rubber mat covers the back of the Xtreme Glass tile. This protects against possible damage (scratches, etc.) during laying and against the penetration of moisture and other possible harmful substances from the substrate. The rubber mat should not be removed!

Xtreme Glass tiles must be fixed correctly to achieve a satisfactory bond. Ambient temperature from fixing to grouting must not exceed 25°C / 77°F. The substrate must be completely flat and dry. After measurement, the percentage moisture content of the substrate should not be higher than 0.5% for a calcium sulphate based floor screed, 2% for a concrete floor and 4% for a cement screed floor. In the case of **wall** installation, the Xtreme Glass must be supported with **spacers** until grouting. Do not remove the spacers earlier than 15 minutes before grouting starts (remove spacers only in places where you are going to grout immediately; leave other spacers until you need to grout). Moisture accumulation under the tiles should be avoided. After fixing glass tiles, the adhesive should be allowed to dry for a minimum of 72 hours before grouting! The joints should be completely filled. Only water proof grout should be used. For the walls, Mosa recommends a water proof, cement-based grout with a maximum bonding time of 8 hours.

Following consultation with the manufacturers of tile adhesives and grout, Mosa recommends the following products.

**Adhesives**

**Eurocol:** Water Tight Adhesive 705, Eurolight 747, 701 Epoxy Adhesive /  
**Omnicol:** Omnicem PL85 Prof, Omnipox ELV /  
**Mapei:** Keraflex, Ultraflex 2 (USA), Kerapoxy / **Ceresit:** CM 18 Easyflex /  
**Weber Broutin:** Fermatop, Fermaplus / **Laticrete:** 317 - 333, Latapoxy / **Schönox:** SK, KR

**Grouting**

**Wall:**  
**Eurocol:** 706 WD / **Omnicol:** Omnifill 100WD / **Mapei:** Ultracolor / **Ceresit:** CE 31 - 32 - 33 /  
**Weber Broutin:** Fermajoint F / **Laticrete:** Spectra Lock / **Schönox:** WD-Flex

**Floor:**  
**Eurocol:** 706 WD, Spout Epoxy 703 / **Omnicol:** Omnifill 100WD, Omnipox ELV /  
**Mapei:** Ultracolor, Kerapoxy / **Ceresit:** CE 31 - 32 - 33 / **Weber Broutin:** Fermajoint F /  
**Laticrete:** Spectra Lock / **Schönox:** SU, CF

**Cutting**

Only non-tempered (= NT) glass tiles may be cut to size. Use either an oil glass cutter (like K\*Star or Three Stars) and then break with pliers or preferably use the aqua jet method.

Different or incorrect laying may affect the appearance of the Xtreme Glass. If the correct laying instructions are not used, Mosa cannot be held liable for any ensuing damage. Mosa will also accept no liability for slipping or falling tiles or for damage to the sides and/or bottom of the colour coating of the glass tiles through moisture accumulation resulting from a damp or wet substrate, the use of the wrong grout, unsound joints (open or broken) or failure to strictly follow these installation instructions. Mosa also excludes all liability for the exterior use of Xtreme Glass.

No rights can be derived from the contents of these installation instructions. For the most actual version see [www.mosa.nl](http://www.mosa.nl).

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**Important:** users should familiarize themselves before starting with the product properties, installation guidelines and safety precautions of the manufacturers involved.

## Cleaning and maintenance Xtreme Glass

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**General**

After the initial 'Builders Clean' cleaning it is necessary to dry the floor immediately to avoid lime scale stains. Mosa recommends the use of the following products when cleaning Ultragres and Xtreme glass floor tiles.

**Initial 'Builders Clean'** HG Extra / Möller HMK R63 / Lithofin KF-cement film remover

**Daily maintenance** HG Quick / Möller HMK P15 / Lithofin FZ-Pflegereiniger

**Periodical maintenance** HG Superremover / Möller HMK R61 / Lithofin FZ-Intensiv cleaner

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**Important:** users should familiarize themselves before starting work with the product properties, installation guidelines and safety precautions of the manufacturers involved.

**Liability:** under wet conditions Xtreme-floor tiles may become slippery. Mosa cannot be held responsible for any damage or injury caused.

# Xtreme Glass, Steel, Ceramics

## Xtreme Steel

### Product specification Xtreme Steel

#### Dimensions, article numbers and structure

Modular size in cm incl. 4 mm joint	Production size in mm	Colour code and structure
30 x 30	296 x 296 x 10	321 brushed
45 x 45	446 x 446 x 10	321 brushed 322 linen structure 323 Point structure
60 x 60	596 x 596 x 12	321 brushed

#### Technical data Xtreme Steel

Thickness	Stainless steel 1.5 mm; Base 8.5 mm at 30 x 30 cm / 45 x 45 cm and 10.5 mm at 60 x 60 cm
Quality	RVS: ALZ 304 – EN 1.4301
Slip resistance	R9 (DIN 51130) = 321V/322V R10 (DIN 51130) = 323V Suitable for floors in public areas Recommendation: supply dry 'walk-off mats'
Scratch resistance	The use of stainless steel can cause scratching. Recommended are dry 'walk-off mats' to minimise the effect of sand (quartz particles)!
Wear resistance	82 Rockwell Ball
Application	Only interior floors and walls
Chemical resistance	For info see <a href="http://www.bssa.org.uk">www.bssa.org.uk</a> .
Electrical conduction resistance	0.73 $\Omega$ mm <sup>2</sup> / m
Coefficient of expansion	16.5 x 10 <sup>-6</sup> [K <sup>-1</sup> ]
Colour fastness	Rust proof; not applicable (no colour application)

#### Installation instructions Xtreme Steel

General	The combination of stainless steel with ceramic tiles is not an every day task. Mosa recommends in co-operation with leading manufacturers of tile adhesives and grouts the products mentioned below.
Adhesives	Standard tile adhesives for ceramic floor tiles
Grouting	Eurocol 706 WD / Schönox SU / Mapei Ultracolor / Ceresit CE 31 - 32 - 33 / Weber Broutin / Laticrete
Cutting	Stainless steel tiles can be cut with electric water-cooled diamond blade. Start with stainless steel side at the top. Don't force the tile through the blade. As soon as the quality of the cut deteriorates the blade should be sharpened with limestone. Cut edges may be smoothed with a file.

Xtreme Steel is intended exclusively for use on interior floors and walls.  
Mosa excludes all liability for the exterior use of Xtreme Steel.  
If the correct laying instructions are not used, Mosa cannot be held liable for any ensuing  
damage.

**Important:** users should familiarize themselves before starting work with regards to product properties, installation guidelines and  
safety precautions of the manufacturers involved.

# Xtreme Glass, Steel, Ceramics

## Cleaning and maintenance Xtreme Steel

General	Mosa recommends the products mentioned below for cleaning and maintenance of Ultragres and stainless steel tiles.
Initial cleaning	HG marble and grout film remover / HMK R 55 / Lithofin KF-Sanit�rreiniger
Daily maintenance	HG Quick / M�ller HMK P15 / Lithofin FZ-Pflegereiniger
Periodical maintenance	HG Quick / M�ller HMK R61 / Lithofin FZ-Intensivreiniger

**Important:** users should familiarize themselves before starting work with the product properties, installation guidelines and safety precautions of the manufacturers involved.

**Liability:** under wet conditions Xtreme-floor tiles may become slippery. Mosa cannot be held responsible for any damage or injury caused.

## Xtreme Ceramics

### Product specification Xtreme Ceramics

#### Dimensions, article numbers

Modular size in cm incl. 4 mm joint	Production size in mm	Article code
30 x 30	296 x 296 x 10	202V, 203V, 206V, 209V, 216V
45 x 45	446 x 446 x 10	202V, 203V, 206V, 209V, 216V
60 x 60	596 x 596 x 12	202V, 203V, 206V, 209V, 216V

For technical data and other relevant information on Xtreme Ceramics: see Technical product sheet Ultragres Terra Maastricht.

#### Relevant Technical product sheets

Ultragres Terra Maastricht

#### Maintenance

Please consult Mosa documentation or [www.mosa.nl](http://www.mosa.nl)

#### Sampling

[showroomservice@mosa.nl](mailto:showroomservice@mosa.nl) Tel: +31 (0)43 368 93 23

#### General inquiries

International Service Desk: [servicedesk@mosa.nl](mailto:servicedesk@mosa.nl) Tel: +31 (0)43 368 92 29; Fax: +31 (0)43 368 93 56

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).



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  
[info@mosa.nl](mailto:info@mosa.nl)  
[www.mosa.nl](http://www.mosa.nl)