

TECHNICAL DATA



Standards
 Requirements as per the EN ISO 14411 standard:
 - Annex G, dry pressed ceramic tiles of low water absorption from group B1a (Eb ≤ 0.5%)
 - Annex H, dry pressed ceramic tiles of low water absorption from group B1b (0.5 < Eb ≤ 3%)
 Tests carried out in compliance with the EN ISO 10545 standard section 1-16

Length and width	Acceptable difference between the average dimension of each tile and the manufacturing size	N < 7 cm (2.34)	± 0.5mm (1/64)	ISO 10545-2
		7 cm (2.76) ≤ N < 15 cm (6)	± 0.9mm (3/32)	
Thickness	Acceptable difference between the average thickness of each tile and the production thickness	N ≥ 15 cm (6)	± 0.6% with a maximum of ± 2.0mm (9/64)	
		N < 7 cm (2.34)	± 0.5mm (1/64)	
Edge straightness	Maximum acceptable straightness difference compared to the manufacturing sizes	7 cm (2.76) ≤ N < 15 cm (6)	± 0.5mm (1/64)	
		N ≥ 15 cm (6)	± 0.6% with a maximum of ± 2.0mm (9/64)	
Angularity	Maximum acceptable angularity difference compared to the manufacturing sizes	7 cm (2.76) ≤ N < 15 cm (6)	± 0.75mm (3/32)	
		N ≥ 15 cm (6)	± 0.5% with a maximum of ± 2.0mm (9/64)	
Surface flatness	Central curve compared to the diagonal, calculated from the manufacturing sizes	7 cm (2.76) ≤ N < 15 cm (6)	± 0.75mm (3/32)	
		N ≥ 15 cm (6)	± 0.5% with a maximum of ± 2.0mm (9/64)	
Bare feet	Deformation compared to the diagonal calculated using the manufacturing sizes	7 cm (2.76) ≤ N < 15 cm (6)	± 0.75mm (3/32)	DIN 51097
		N ≥ 15 cm (6)	± 0.5% with a maximum of ± 2.0mm (9/64)	
Wearing footwear	12x12mm (1/2x1/2); 20x20mm (3/4x3/4); 50x50mm (2x2); anti-slip 50x50mm (2x2); R11 100x100mm (4x4); R12 100x100mm (4x4); R12 150x150mm (6x6); 25mm hexagon (1); 50mm hexagon (2); 150mm hexagon (6); 100mm octagon (4) + 35mm dot (1/8)	C		
		100x100mm (4x4); 150x150mm (6x6); 200x200mm (7.8x7.8); 100mm hexagon (4); 150mm octagon (6) + 50mm dot (2)	B	
Anti-slip properties	200x200mm (7.8x7.8); 150mm hexagon (6)	R9		
		12x12mm (1/2x1/2); 20x20mm (3/4x3/4); 50x50mm (2x2); 50x50mm structure (2x2); 100x100mm (4x4); 150x150mm (6x6); 25mm hexagon (1); 50mm hexagon (2); 100mm Hexagon (4); 100mm octagon (6) + 35mm dot (1/8); 150mm octagon (6) + 50mm dot (2)	R10	DIN 51130
Water drainage volume	R11 anti-slip 100x100mm (4x4) R12 anti-slip 100x100mm (4x4); R12 150x150mm (6x6)	R11		
		R12		
Bending breaking load	Thickness ≥ 7.5mm (9/64) Thickness < 7.5mm (9/64)	V8		
		V6		
Breaking strength	No alterations to the appearance visible to the naked eye after 100 freeze-thaw cycles.	F ≥ 1100 N	EN ISO 10545-4	
		F ≥ 700 N	EN ISO 10545-4	
Frost resistance	Resistance to low concentrations of acids and bases	Minimum 32 N/mm ²	EN ISO 10545-12	
			EN ISO 10545-12	
Chemical resistance	Resistance to high concentrations of acids and bases	Class: 3	EN ISO 10545-13	
		Class: 3	EN ISO 10545-13	
Stain resistance	Resistance to staining agents that leave a mark	Class: 2	EN ISO 10545-14	
		Class: 2	EN ISO 10545-14	
Volatiles Organic Compounds	Resistance to staining agents with chemical/oxidising actions	Class: 2		
	None			



UPEC RATINGS



UPEC rating presentation

Most of our tiles have a UPEC rating making it possible to identify the technical specifications and compatibility depending on different uses. This UPEC rating, which is optional and obtained through a voluntary approach, is intended to guide professionals in their flooring recommendations.

Premise and product rating

Every housing, commercial or public (such as stations, airports, hospitals) building has a UPEC rating broken down as follows:

- **U**: indicates the wear caused by walking and standing resulting in abrasion, soiling, scratching or a change in surface appearance.

The U rating varies from 2 (least resistance) to 4 (very high resistance suitable for public areas, shopping malls, station halls, etc.).

- **P**: indicates the mechanical effects due to the presence, movement and use of static or mobile furniture and the risk of more or less heavy falling items.

The P rating varies from 2 (premises in which falling items are occasional and low intensity) to 4s (highest resistance).

- **E**: indicates the tiling performance in contact with water, in particular relative to handling and maintenance activities.

The E rating varies from 1 (occasional presence of water) to 3 (frequent and/or extended presence of water).

- **C**: indicates the resistance to domestic chemical and staining agents that can have an impact on durability and can, for example, cause indelible stains.

The C rating can vary from 0 (minimum risk environment but never risk-free) to 2 (frequent contact with chemical or staining products).

The "Notice sur le Classement U.P.E.C. des locaux" document (Cahiers du CSTB n° 3782), can be viewed at the following address <https://evaluation.cstb.fr/doc/classement/upec/e-cahier-3782-v2.pdf>, and gives a summary of all the premise rating tables.

UPEC rating per product

Format	Dimensions	Thickness	UPEC rating
Square	12 x 12mm (5x5')	3.8mm (3/64")	U4 P3 E3 C2
Square	20 x 20mm (8x8')	3.8mm (3/64")	U4 P3 E3 C2
Square	35 x 35mm (1 3/8 x 1 3/8')	9mm (3/64")	U4 P4 E3 C2
Square	50 x 50mm (2x2')	5mm (3/64")	U4 P3 E3 C2, U4 P3 E3 C1 ⁽¹⁾
Square	50 x 50mm (2x2')	9mm (3/64")	U4 P3 E3 C2
Square	100 x 100mm (4x4')	9mm (3/64")	U4 P4+ E3 C2, U4 P4 E3 C2 ⁽²⁾ , U4 P4+ E3 C1 ⁽³⁾
Square	100 x 100mm (4x4')	11mm (7/64")	U4 P4S E3 C2; U4 P4+ E3 C1 ⁽⁴⁾
Square	150 x 150mm (6x6')	9mm (3/64")	U4 P4+ E3 C2; U4 P4+ E3 C1 ⁽⁵⁾
Square	200 x 200mm (7 7/8 x 7 7/8')	9mm (3/64")	U4 P4+ E3 C2; U4 P4+ E3 C1 ⁽⁶⁾
Square one round edge R10	50 x 50mm (2x2')	5mm (3/64")	U4 P3 E3 C2; U4 P3 E3 C1 ⁽¹⁾
Square one round edge R10	100 x 100mm (4x4')	9mm (3/64")	U4 P4+ E3 C2; U4 P4 E3 C1 ⁽²⁾ ; U4 P4+ E3 C1 ⁽¹⁾
Square anti-slip one round edge R10	50 x 50mm (2x2')	5mm (3/64")	U4 P3 E3 C2; U4 P3 E3 C1 ⁽¹⁾
Square anti-slip one round edge R10	100 x 100mm (4x4')	9mm (3/64")	U4 P4+ E3 C2; U4 P4 E3 C2 ⁽²⁾ ; U4 P4+ E3 C1 ⁽¹⁾
Square anti-slip R10	50 x 50mm (2x2')	5mm (3/64")	U4 P3 E3 C2; U4 P3 E3 C1 ⁽¹⁾
Square anti-slip R10	100 x 100mm (4x4')	9mm (3/64")	U4 P4+ E3 C2; U4 P4 E3 C2 ⁽²⁾ ; U4 P4+ E3 C1 ⁽¹⁾
Hexagon	50mm (2")	5mm (3/64")	U4 P3 E3 C2; U4 P3 E3 C1 ⁽¹⁾
Hexagon	100mm	9mm (3/64")	U4 P4+ E3 C2
Hexagon	150mm (6")	9mm (3/64")	U4 P4+ E3 C2; U4 P4+ E3 C1 ⁽⁶⁾
Octagon	100mm (4")	9mm (3/64")	U4 P4+ E3 C2; U4 P4+ E3 C1 ⁽⁷⁾
Octagon	150mm (6")	9mm (3/64")	U4 P4+ E3 C2; U4 P4+ E3 C1 ⁽⁸⁾
Rectangle	50 x 23.5mm (2x1")	5mm (3/64")	U4 P3 E3 C2; U4 P3 E3 C1 ⁽¹⁰⁾
Rectangle	100 x 200mm	9mm (3/64")	U4 P4 E3 C2
Step tread	50 x 50mm (2x2')	5mm (3/64")	U4 P3 E3 C2; U4 P3 E3 C1 ⁽¹⁾
Step tread	100 x 100mm (4x4')	9mm (3/64")	U4 P4+ E3 C2; U4 P4 E3 C2 ⁽²⁾ ; U4 P4+ E3 C1 ⁽¹⁾

(1) Colours: BAU; PYR

(2) Colours: 503; 504; 506; 507; 510

(3) Colours: BAU; ONT; PYR

(4) Colour: VEU

(5) Colours: ONT; VEU

(6) Colours: BAU; ONT; VEU; PYR

(7) Colour: ONT

(8) Colours: ONT; PYR

(9) Colours: 503; 506; 507; 510

(10) Colours: BAU; RSY

As UPEC certification is a voluntary and optional procedure, the table above only features our UPEC certified formats.
The detail of our UPEC ratings is available online at <https://webapp.cstb.fr/upec-ceramique/>



IMPORTANT INFORMATION

Size variations

As our tiles belong to the dry pressed tile with low water absorption family, their size can vary according to the tolerances defined by the approved organisations (Cahier du CSTB and applicable EN 14411 standard). As a result, it is essential to provide for a grout width of 2 to 3mm for all our tiles supplied loose, with possible adjustments needed due to this constraint.

Storage

All packages must be stored away from humidity, in particular mosaics assembled with frontpaper to preserve their adhesive properties. Returns will not be accepted for packages previously exposed to humidity.

Grouting recommendations

It is strongly recommended to plan for a 2 to 3mm ^(3/64" to 1/8") grout space between the different tiles which should be filled with a grey cement based grouting product. Coloured grouting products (in particular black) are strongly advised against due to the risk of stains.

Use of a sealer product

This operation must be done after the tiles have been installed and only on perfectly clean and dry tiles (with all cementitious grout haze removed). It is necessary for all highly exposed areas such as showers, kitchen splashbacks and for all outside projects to make sure no stain appears over time.

Outdoor use

Our tiles are perfectly suitable for outdoor use (hot or cold and dry or wet environments). Refer to the technical data sheet for more information.

Tile colours and shades

Our tiles are made of natural products, especially clay, and shades may therefore vary from one batch to another. To ensure that you receive tiles of a same shade, we suggest that you place a single order only for one and the same surface area. If, however, you need a specific shade, please contact our Sales Department to check availability.

NOTES

As accessories and tiles are produced differently, slight variations in shade may be noted.

Samples

We supply samples to help you make your choice. Feel free to contact us to get a colour chart or a specific sample. Sample shades, even though close, may vary slightly compared to the delivered product (see Tile colours and shades above).

Acknowledgements

Alessio Mei
Atelier Jeanne Dumont (@atelierjeannedumont)
Bertrand Monfait (www.bertrandmb.fr)
Bob Reinjnders (@bob.photographer)
Boys Play Nice (@boysplaynice)
Chambre Noire (@chambre noire.studio)
Dagmar Stepanova (@fomatata)
Eclat Korea Séoul (@eclatkorea_official)
Eyedall (@eyedallfactory)
Florence Girard (@florence.girard)
Getaz (www.getaz-miauton.ch)
Gloria Jurado (@glorijurado_)
Intercodam Amsterdam (@intercodam)
Karine Lewkowicz (@karinelewkowicz)
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Vincent Lopes-Demay
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