

Declaration of performance

VO (EU) no. 305/2011 of 9 March 2011

No.: 2013-1

Product type identification:

Dry-pressed ceramic tiles with water absorption $E_b \leq 0.5\%$, group BIa

Use:

Relevant clauses for ceramic tiles used for floorings
for internal and external floorings, including stair treads in buildings and industrial buildings
Relevant clauses for ceramic tiles used for walls
for internal and external walls for buildings and industrial buildings

Manufacturer:

V&B Fliesen GmbH
Rotensteiner Weg
D-66663 Merzig



Assessment system:

System 4

Harmonized norm for construction products: EN 14411:2012

Declared performance:

Main characteristics	performance	harmonized technical specification
Fire behaviour	Class A1 / A1 _{FL}	EN 14411: 2012
Breaking strength in N	≥ 1300 N (Tile strength $\geq 7,5$ mm) ≥ 700 N (Tile strength $< 7,5$ mm)	EN 14411: 2012
Durability for		
- indoor application - outdoor application Freeze-thaw-cycles resistance	passed passed	EN 14411: 2012
Tactility ***	No performance determined	Tested in accordance with CEN/TS 15209:2008
Composite strength / Adhesion		
- cementitious mortar Type C2 - dispersion adhesives - Reaction resin adhesives - Mortar	$\geq 1,0$ N/mm ² $\geq 1,0$ N/mm ² $\geq 2,0$ N/mm ² No performance determined	EN 12004:2017; 4.1 EN 12004:2017; 4.2 EN 12004:2017; 4.3 Not testing
Thermal shock resistance	passed	EN 14411: 2012
Anti-Slip resistance **	Ramp test	shoes 0° - > 35° Barefoot 0° - > 24°
	Pendulum friction test-PTV	0 - 36+
	Friction coefficient with GMG 200	0 - >45μ
Lead and cadmium release		
- Cadmium - Lead - other	No performance determined	EN 14411: 2012
** Only necessary when required by corresponding national statutory regulations; for product-specific data see technical information in our V&B product range overview *** (only for tactile floorings, meaning if requested for blind and visually impaired): as a description of the surface		

The performance of the product is in conformity with the performance declared above. This declaration of performance is issued under the sole responsibility of the manufacturer.

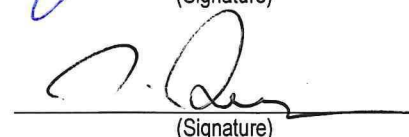
Signed for and on behalf of the manufacturer by:

Irfan Topal CFO (Head of Finance & Administration)
(Name und Function)


(Signature)

Merzig, 06.09.2019
(Place and date of issue)

Gerhard Helfen (Quality and Environmental Manager)
(Name and Function)


(Signature)

Declaration of performance

VO (EU) no. 305/2011 of 9 March 2011

No.: 2013-2

Product type identification:

Dry-pressed ceramic tiles with water absorption $0.5\% \leq E_b \leq 3\%$, group Blb

Use:

Relevant clauses for ceramic tiles used for floorings
for internal and external floorings, including stair treads in buildings and industrial buildings
Relevant clauses for ceramic tiles used for walls
for internal and external walls for buildings and industrial buildings

Manufacturer:

V&B Fliesen GmbH
Rotensteiner Weg
D-66663 Merzig



Assessment system:

System 4

Harmonized norm for construction products: EN 14411:2012

Declared performance:

Main characteristics	performance	harmonized technical specification
Fire behaviour	Class A1 / A1 _{FL}	EN 14411: 2012
Breaking strength in N	$\geq 1100 \text{ N}$ (Tile strength $\geq 7,5\text{mm}$) $\geq 700 \text{ N}$ (Tile strength $< 7,5\text{mm}$)	EN 14411: 2012
Durability for		
- indoor application - outdoor application Freeze-thaw-cycles resistance	passed passed	EN 14411: 2012
Tactility ***	No performance determined	Tested in accordance with CEN/TS 15209:2008
Composite strength / Adhesion		
- cementitious mortar Type C2 - dispersion adhesives - Reaction resin adhesives - Mortar	$\geq 1,0 \text{ N/mm}^2$ $\geq 1,0 \text{ N/mm}^2$ $\geq 2,0 \text{ N/mm}^2$ No performance determined	EN 12004:2017; 4.1 EN 12004:2017; 4.2 EN 12004:2017; 4.3 Not testing
Thermal shock resistance	passed	EN 14411: 2012
Anti-Slip resistance **	Ramp test	shoes $0^\circ - > 35^\circ$ Barefoot $0^\circ - > 24^\circ$
	Pendulum friction test-PTV	0 – 36+
	Friction coefficient with GMG 200	0 - >45 μ
Lead and cadmium release		
- Cadmium - Lead - other	No performance determined	EN 14411: 2012

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*** (only for tactile floorings, meaning if requested for blind and visually impaired): as a description of the surface

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(Name und Function)

p.a. [Signature]
(Signature)

Merzig, 06.09.2019
(Place and date of issue)

Gerhard Helfen (Quality and Environmental Manager)
(Name and Function)

[Signature]
(Signature)

Declaration of performance

VO (EU) no. 305/2011 of 9 March 2011

No.: 2013-3

Product type identification: Dry-pressed ceramic tiles with water absorption $E_b > 10\%$, group BIII

Use: Relevant clauses for ceramic tiles used for walls
for internal walls for buildings and industrial buildings

Manufacturer: V&B Fliesen GmbH
Rotensteiner Weg
D-66663 Merzig



Assessment system: System 4

Harmonized norm for construction products: EN 14411:2012

Declared performance:

Main characteristics	Performance	Harmonized technical specification
Reaction to fire	Class A1	EN 14411: 2012
Modulus of rupture in N/mm ²	≥ 12 N/mm ² (Tile strength ≥ 7.5 mm) ≥ 15 N/mm ² (Tile strength < 7.5 mm)	EN 14411: 2012
Durability for:		
- indoor application	Passed	EN 14411: 2012
Bond strength / Adhesion for:		
- Cementitious adhesives, type C2	≥ 0.5 N/mm ²	EN 12004:2017; 4.1
- Dispersion adhesives	≥ 1.0 N/mm ²	EN 12004:2017; 4.2
- Reaction resin adhesives	≥ 2.0 N/mm ²	EN 12004:2017; 4.3
- Mortar	No performance determined	not testing
Thermal shock resistance	Passed	EN 14411: 2012
Release of dangerous substances, for:		
- Cadmium	No performance determined	EN 14411: 2012
- Lead		
- other		

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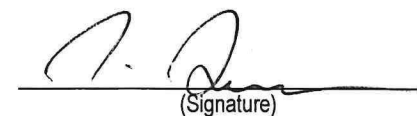
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Gerhard Helfen (Quality and Environmental Manager)
(Name und Function)


(Signature)