

# Vitreous and Porcelain Stoneware Tiles by V&B Fliesen GmbH

CLASSIFICATION: 09 30 13 CERAMIC TILING

PRODUCT DESCRIPTION: VILLEROY & BOCH'S VITREOUS AND PORCELAIN STONEWARE TILES ARE DRY-PRESSED CERAMIC TILES USED FOR INTERNAL AND EXTERNAL WALLS AND FLOORING, INCLUDING STAIR TREADS, IN BUILDINGS AND INDUSTRIAL BUILDINGS. THIS FORMULATION COVERS MANY TRADE NAME PRODUCT LINES, INCLUDING BUT NOT LIMITED TO: PRO ARCHITECTURA 2213-PN82, 3350-PN00, 3293-PN00, 3295-PN00, AND 3296-PN00.

# Health Product Declaration v2.0

created via: HPDC Online Builder

## Section 1: Summary

### CONTENT INVENTORY

<p>Threshold per material</p> <ul style="list-style-type: none"> <li><input type="radio"/> 100 ppm</li> <li><input checked="" type="radio"/> 1,000 ppm</li> <li><input type="radio"/> Per GHS SDS</li> <li><input type="radio"/> Per OSHA MSDS</li> <li><input type="radio"/> Other</li> </ul>	<p>Residuals and impurities considered in 0 of 1 materials</p> <ul style="list-style-type: none"> <li><input checked="" type="radio"/> see Section 2: Material Notes</li> <li><input checked="" type="radio"/> see Section 5: General Notes</li> </ul>	<p>Based on the selected Content Inventory Threshold:</p> <p>Characterized..... <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Are the Percent Weight and Role provided for all substances?</p> <p>Screened..... <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Are all substances screened using Priority Hazard Lists with results disclosed?</p> <p>Identified..... <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Are all substances disclosed by Name (Specific or Generic) and Identifier?</p>
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### CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

**MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY**  
**GREENSCREEN SCORE | HAZARD TYPE**

CERAMIC TILE [ KAOLINITE UNK FELDSPAR LT-UNK | RES ZIRCON (ZR(SIO4)) LT-UNK  
SILICA, AMORPHOUS LT-P1 NEPHELINE SYENITE LT-UNK BORIC OXIDE LT-1 | REP | DEV | MUL  
DOLOMITE NoGS SILICA, CHRISTOBALITE LT-1 | CAN ALUMINUM OXIDE LT-P1 | RES CALCIUM  
OXIDE LT-P1 MAGNESIUM OXIDE LT-UNK ZINC OXIDE BM-1 | AQU | RES | MUL KAOLIN CLAY LT-  
UNK | CAN KAOLIN, CALCINED LT-UNK BARIUM OXIDE, ANHYDROUS LT-P1 WOLLASTONITE LT-  
UNK IRON LT-UNK SILICON LT-UNK CHROMIUM LT-P1 | RES QUARTZ LT-1 | CAN SODIUM  
OXIDE LT-UNK LITHIUM OXIDE LT-UNK DIPOTASSIUM OXIDE LT-UNK ZIRCONIUM DIOXIDE LT-P1  
]

Number of Greenscreen BM-4/BM3 contents..... 0

Contents highest concern GreenScreen Benchmark or List translator Score..... BM-1

Nanomaterial..... No

### INVENTORY AND SCREENING NOTES:

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

### CERTIFICATIONS AND COMPLIANCE

VOC emissions: VOC testing  
Other: Environmental Product Declaration (EPD) Label  
Other: EU Eco-Management and Audit Scheme (EMAS) Verified Environmental Management

See Section 3 for additional listings.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: March 20, 2017	EXPIRY DATE*: March 20, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: March 23, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details			



## Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: [www.hpd-collaborative.org](http://www.hpd-collaborative.org) and [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org).

### CERAMIC TILE

#: 100.0000 HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

#### KAOLINITE

ID: 1318-74-7

#: 40.0000 - 60.0000

GS: UNK

RC: None

NANO: NO

ROLE: Structure

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

#### FELDSPAR

ID: 68476-25-5

#: 29.8000 - 59.8000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Structure

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES:

#### ZIRCON (ZR(SIO4))

ID: 14940-68-2

#: 12.0000 - 20.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Glaze

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

#### SILICA, AMORPHOUS

ID: 7631-86-9

#: 11.0000 - 34.0000

GS: LT-P1

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

## SUBSTANCE NOTES:

## NEPHELINE SYENITE

ID: 37244-96-5

%: 10.0000 - 15.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

## SUBSTANCE NOTES:

## BORIC OXIDE

ID: 1303-86-2

%: 9.0000 - 23.0000

GS: LT-1

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

REPRODUCTIVE

EU - R-phrases

R60 - May impair fertility

DEVELOPMENTAL

EU - R-phrases

R61 - May cause harm to the unborn child

REPRODUCTIVE

EU - SVHC Authorisation List

Toxic to reproduction - Prioritized for listing

REPRODUCTIVE

EU - GHS (H-Statements)

H360FD - May damage fertility. May damage the unborn child

REPRODUCTIVE

EU - REACH Annex XVII CMRs

Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans

MULTIPLE

ChemSec - SIN List

CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant

REPRODUCTIVE

EU - Annex VI CMRs

Reproductive Toxicity - Category 1B

## SUBSTANCE NOTES:

## DOLOMITE

ID: 16389-88-1

%: 7.9000 - 11.9000

GS: NoGS

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

SILICA, CHRISTOBALITE

ID: 14464-46-1

%: 7.9000 - 11.9000

GS: LT-1

RC: None

NANO: NO

ROLE: Glaze

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

IARC

Group 1: Agent is carcinogenic to humans - inhaled from occupational sources

CANCER

US NIH - Report on Carcinogens

Known to be Human Carcinogen (respirable size - occupational setting)

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

SUBSTANCE NOTES:

ALUMINUM OXIDE

ID: 1344-28-1

%: 6.5000 - 16.0000

GS: LT-P1

RC: None

NANO: NO

ROLE: Glaze

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES:

CALCIUM OXIDE

ID: 1305-78-8

%: 5.0000 - 13.5000

GS: LT-P1

RC: None

NANO: NO

ROLE: Glaze

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MAGNESIUM OXIDE

ID: 1309-48-4

%: 5.0000 - 13.5000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

## SUBSTANCE NOTES:

**ZINC OXIDE**

ID: 1314-13-2

%: 5.0000 - 12.0000

GS: BM-1

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life

CHRON AQUATIC

EU - GHS (H-Statements)

H410 - Very toxic to aquatic life with long lasting effects

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

## SUBSTANCE NOTES:

**KAOLIN CLAY**

ID: 1332-58-7

%: 5.0000 - 10.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

## SUBSTANCE NOTES:

**KAOLIN, CALCINED**

ID: 92704-41-1

%: 2.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

## SUBSTANCE NOTES:

**BARIUM OXIDE, ANHYDROUS**

ID: 1304-28-5

%: 1.0000 - 3.0000

GS: LT-P1

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**WOLLASTONITE**

ID: 13983-17-0

%: 0.8000 - 5.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**IRON**

ID: 7439-89-6

%: 0.1000 - 1.5000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Structure

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**SILICON**

ID: 7440-21-3

%: 0.1000 - 1.5000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Structure

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**CHROMIUM**

ID: 7440-47-3

%: 0.1000 - 1.5000

GS: LT-P1

RC: None

NANO: NO

ROLE: Structure

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES:

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QUARTZ

ID: 14808-60-7

%: 0.1000 - 0.6000

GS: LT-1

RC: None

NANO: NO

ROLE: Structure

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**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 1: Agent is carcinogenic to humans - inhaled from occupational sources

CANCER

US NIH - Report on Carcinogens

Known to be Human Carcinogen (respirable size - occupational setting)

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

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SUBSTANCE NOTES:

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SODIUM OXIDE

ID: 1313-59-3

%: 0.0000 - 3.5000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Glaze

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**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

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SUBSTANCE NOTES:

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LITHIUM OXIDE

ID: 12057-24-8

%: 0.0000 - 2.5000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Glaze

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**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

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SUBSTANCE NOTES:

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DIPOTASSIUM OXIDE

ID: 12136-45-7

%: 0.0000 - 2.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Glaze

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**HAZARDS:**

None Found

**AGENCY(IES) WITH WARNINGS:**

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:****ZIRCONIUM DIOXIDE**

ID: 1314-23-4

%: 0.0000 - 1.0000

GS: LT-P1

RC: None

NANO: NO

ROLE: Glaze

**HAZARDS:**

None Found

**AGENCY(IES) WITH WARNINGS:**

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:****Section 3: Certifications and Compliance**

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

**OTHER**

CERTIFYING PARTY: Second Party

APPLICABLE FACILITIES:

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: V&B Fliesen GmbH has been awarded the Environmental Product Declaration (EPD) label, according to ISO 14025 and EN 15804, by the IBU (Institut für Bauen und Umwelt e.V.). The Environmental Product Declaration provides relevant, verifiable and comparable information on the environmental impact of products. This certification allows architects and planners to utilize our products in all properties that have been certified as satisfying the BREEAM, LEED, DGNB or other comparable international requirements for sustainable building. The IBU, as the administrator of the German EPD program, is part of the ECO PLATFORM, through which it works to promote the harmonization of national EPD programs at the European level.

**Environmental Product Declaration (EPD) Label**

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2014-12-01	0000-00-00	IBU (Institut für Bauen und Umwelt e.V.)

**OTHER**

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: V&amp;B Fliesen GmbH Rotensteiner Weg 66663 Merzig

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: Registration No: DE-170-00081. This certification recognizes an environmental management system according to Regulation (EC) No 1221/2009 and EN ISO 14001:2004 section 4 "to promote the continual improvement of environmental performance, regularly publishes an environmental statement, has let the environmental management system be verified, and the environmental statement be validated by an independent and accredited verifier."

**EU Eco-Management and Audit Scheme (EMAS) Verified Environmental Management**

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2010-09-17	2019-07-14	IHK Saarland

**VOC EMISSIONS**

CERTIFYING PARTY: Self-declared

APPLICABLE FACILITIES: V&amp;B Fliesen GmbH Rotensteiner Weg D-66663 Merzig

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: VOC testing indicates that V&B dry-pressed ceramic tiles with water absorption values of Eb ? 0.5%, 0.5% ? Eb ? 3%, and Eb > 10% achieve a VOC emission score of "A+" (for France only) according to EN ISO 16000-6:2012.

**VOC testing**

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2015-08-04	0000-00-00	Villeroy & Boch





## Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.



## Section 5: General Notes



### MANUFACTURER INFORMATION

MANUFACTURER: V&B Fliesen GmbH

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### KEY

**OSHA MSDS** Occupational Safety and Health Administration Material Safety Data Sheet

**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

#### Hazard Types

**AQU** Aquatic toxicity

**GLO** Global warming

**PHY** Physical Hazard (reactive)

**CAN** Cancer

**MAM** Mammalian/systemic/organ toxicity

**REP** Reproductive toxicity

**DEV** Developmental toxicity

**MUL** Multiple hazards

**RES** Respiratory sensitization

**END** Endocrine activity

**NEU** Neurotoxicity

**SKI** Skin sensitization/irritation/corrosivity

**EYE** Eye irritation/corrosivity

**OZO** Ozone depletion

**LAN** Land Toxicity

**GEN** Gene mutation

**PBT** Persistent Bioaccumulative Toxic

**NF** Not found on Priority Hazard Lists

#### GreenScreen (GS)

**BM-4** Benchmark 4 (prefer-safer chemical)

**LT-P1** List Translator Possible Benchmark 1

**BM-3** Benchmark 3 (use but still opportunity for improvement) BM-2  
Benchmark 2 (use but search for safer substitutes)

**LT-1** List Translator Likely Benchmark 1

**BM-1** Benchmark 1 (avoid - chemical of high concern)

**LT-UNK** List Translator Benchmark Unknown (insufficient  
information from List Translator lists to benchmark)

**BM-U** Benchmark Unspecified (insufficient data to benchmark)

**UNK** Unknown (no data on List Translator Lists)

#### Recycled Types

**PreC** Preconsumer (Post-Industrial)

**PostC** Postconsumer

**Both** Both Preconsumer and Postconsumer

**Unk** Inclusion of recycled content is unknown

**None** Does not include recycled content

#### Other

**Nano** Composed of nanoscale particles or nanotechnology

#### Declaration Level

**Self-declared** Manufacturer's self-declaration (First Party)

**Independent Lab** Manufacturer's self-declaration using results from an independent lab

**Second Party** Verification by trade association or other interested party

**Third Party** Verification by independent certifier

**Applicable facilities** Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator, and when available, full GreenScreen assessments. The HPD Open Standard does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD Open Standard noted.