

Green Building with ceramic tiles

Product information for BREEAM Assessors



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STEINZEUG

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AGROB BUCHTAL

Jasba

Applicable for the current BREEAM schemes



Dear BREEAM Assessor,

This brochure provides all the information about Deutsche Steinzeug Cremer & Breuer AG's ceramic tiles that you need for BREEAM assessments. We hope to make your work easier and more effective by providing comprehensive information in a compact format.

At Deutsche Steinzeug Cremer & Breuer AG we take sustainability seriously – and not only at corporate level. We see transparent provision of environmental data as a way of supporting green building. We are also one of the first companies to have issued an Environmental Product Declaration (EPD) for ceramic tiles.

Deutsche Steinzeug Cremer & Breuer AG works to high social and environmental standards. We are committed to continuous improvement of our environmental footprint and have installed an energy management system in accordance with ISO 50001. All materials are responsibly sourced and nearly all raw materials are extracted close to our production sites in Germany.

To support sustainable architecture and design at the level of individual buildings, we have developed this brochure with experts in the various green building rating schemes.

We understand that collecting the documentation required for planning, construction and certification is time-consuming. Save time! On the following pages we have brought together all the sections in the BREEAM rating scheme that are relevant for Deutsche Steinzeug Cremer & Breuer AG's ceramic tiles.

Management



Audi Forum Ingolstadt, Germany
Raumwerk, Frankfurt, Germany

Life cycle cost analysis
Man 12 (former Man 05)**Aim**

To recognize and encourage the development of a life cycle cost (LCC) analysis model for the project to improve design, specification and through-life maintenance and operation.

Requirement

One BREEAM credit is awarded for carrying out a life cycle cost analysis. A second credit is awarded if the results of the LCC analysis have been implemented in the specification, design and final construction of the assessed building.

To obtain the credit for the life cycle cost analysis, the LCC has to be carried out based on the proposals developed during RIBA Work Stages C/D (concept design/design development), or equivalent.

The life cycle cost analysis based on the concept design/design development proposals covers the following stages:

- a. Construction
- b. Operation
- c. Maintenance (including planned maintenance, replacements and repairs, cleaning)
- d. End of life

Product rating

Deutsche Steinzeug Cremer & Breuer AG ceramic tiles can contribute to lower life cycle costs through:

- a reduced need for cleaning, due to the HT coating (see page 11)
- the durability of the tiles compared to other floor or wall finishes.

The renewal cycle for ceramic tiles is more than 50 years, significantly higher than for other floor coverings such as carpets or laminate. The longer lifetime of ceramic tiles can therefore reduce the life-cycle costs involved in renewal and renovation.

Certificates and documentation

No special documentation is required from the producer.

Health



Studio setting, Bianca Lautenschläger, Design In Architektur, Darmstadt, Germany

Volatile organic compounds (VOCs) **Hea 09 (formerly part of Hea 02 indoor air quality)**

Aim

To recognize and encourage a healthy internal environment through the specification of internal finishes and fittings with low emissions of volatile organic compounds (VOCs).

Requirement

The indoor air concentrations after completion of the building must be less than or equal to 300µg/m³ for VOCs and 100µg/m³ for formaldehyde. To achieve this, low-emission materials must be used.

There are no product requirements for ceramic tiles without organic coatings.

Product rating

Deutsche Steinzeug Cremer & Breuer AG's ceramic tiles are certified A+, the highest quality, by the French VOC label „Émissions dans l'air intérieur“ and meet all the requirements for low-emission flooring. The tiles have no negative impact on indoor air quality and can therefore contribute to achieving points in this credit.

Certificates and documentation

The document for low-emitting products (French VOC label „Émissions dans l'air intérieur“) is attached.



Note on adhesives

As mentioned above, there are no requirements for our ceramic tiles within this credit. However, BREEAM sets requirements for the VOC content of adhesives. Adhesives must be free of carcinogenic or sensitizing, volatile substances (proof according to EN 13999-2:2007 - Volatile Organic Compounds).

Please consider these requirements, when choosing adhesives.

Materials



King's Cross Tube Station, London, Great Britain
John McAslan + Partners, London, Great Britain

Life cycle impact of materials

Mat 01 (formerly “Materials specification (major building elements)”)

Aim

To recognize and encourage the use of robust and appropriate life cycle assessment tools and consequently the specification of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building.

Requirement

To use products with a high “Green Guide Calculator” rating. The calculator identifies products with a low carbon footprint and a low environmental impact.

Life cycle assessment data is required for the majority of individual products/materials used in the building. Such data must be provided for the mandatory building elements identified in the “Materials assessment scope” section of the BREEAM International Mat 01 calculator.

The individual product/materials data will be used in the life cycle assessment that measures the life cycle environmental impact of the building as a whole.

Product rating

Ceramic tiles are classified by default in stage B in the “Green Guide Calculator”. www.bre.co.uk/greenguide/calculator/

Environmental Product Declaration (EPD) data, verified according to ISO 14025, is also recognized.

Deutsche Steinzeug Cremer & Breuer AG tiles have a verified EPD and therefore contribute to BREEAM credits in this section.

Certificates and documentation

“Green Guide Calculator” and verified EPD (Manufacturer or Trade Association) data according to ISO 14025, ISO 21930 or EN 15804.

Responsible sourcing of materials
Mat 03 (formerly Mat 05)**Aim**

To recognize and encourage the specification of responsibly sourced materials for key building elements.

Requirement

The building elements used must be documented as being responsibly sourced. According to the product group, this can be done through environmental management systems and certification, such as ISO 14001 or BES 6001.

Product rating

Deutsche Steinzeug Cremer & Breuer AG follows high social and environmental standards. All materials are responsibly sourced and the vast majority of raw materials are extracted in Germany where the tiles are manufactured/the tiles are manufactured in the regions of Germany where the bulk of raw materials are extracted. Despite this, Deutsche Steinzeug Cremer & Breuer AG does not have an environmental management system according to ISO 14001.

Certificates and documentation

No relevant certificates available



Studio setting, Sylvia Leydecker, 100% interior, Köln, Germany

HT: the effect

Specifying wall and floor tiles with the innovative HT coating determines three significant advantages: the tiles have an antibacterial effect, are easy to clean and capable of eliminating odours.

The antibacterial effect of HT is based on the principle of the photocatalysis. Light activates the oxygen molecules, which decompose bacteria and germs. The HT effect is reversible regenerating itself when exposed to light.

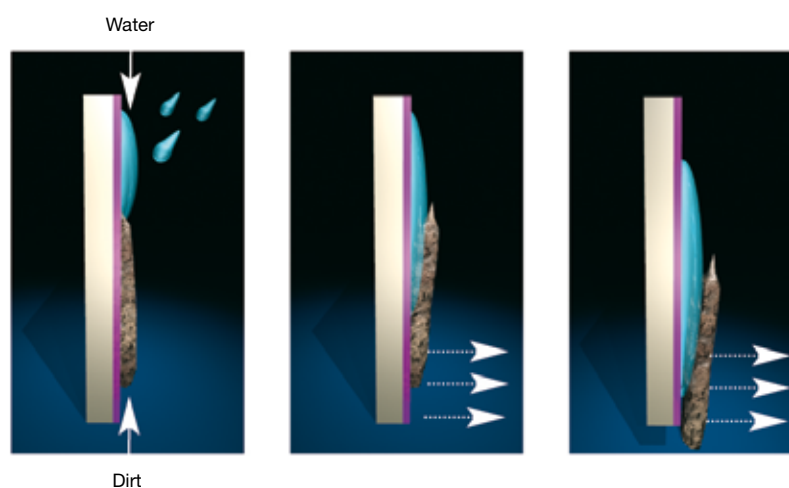
HT makes tile surfaces hydrophilic. Water is not repelled, but spreads to form a thin film on the tile surface. In this way, dirt is washed down and can be easily removed.

In contrast to conventional hydrophobic solutions (e.g. Lotus effect), coatings or impregnation, HT is so robust that both wall and floor tiles can be coated with it.

The third function is also based on the photocatalytic principle: disagreeable and harmful odours such as formaldehyde or ammonia are eliminated by the activated oxygen, and thus a lasting improvement of the air quality is achieved.

More information: www.clean-air-ceramics.de/en

No chance for dirt, oil and grease



With HT, dirt is washed down by the water and can then be easily wiped off.

Deutsche Steinzeug Cremer & Breuer AG

Servaisstraße 9-11
D-53347 Alfter-Witterschlick

Postfach 2540
D-53015 Bonn

Telefon: +49 (228) 391-0
Telefax: +49 (228) 391-301006

E-Mail: info@deutsche-steinzeug.de

DEUTSCHE
STEINZEUG  **AGROB BUCHTAL**

AGROB BUCHTAL GmbH

Buchtal 1
D-92521 Schwarzenfeld

Telefon: +49 (0) 94 35-391-0
Telefax: +49 (0) 94 35-391-34 52

E-Mail: agrob-buchtal@deutsche-steinzeug.de
www.agrob-buchtal.de

Jasba 

Jasba Mosaik GmbH

Im Petersborn 2
56244 Ötzingen

Telefon: +49 (0) 26 02-682-0
Telefax: +49 (0) 26 02-682-1506

E-Mail: info@jasba.de
www.jasba.de



Spec Tile Ltd

Unit 2 Poplar Grove
Crewe
Cheshire
CW1 4AZ
Tel: 01270 256666
Email: sales@spectile.co.uk
Web: www.spectile.co.uk

