

# ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804

|                          |                                      |
|--------------------------|--------------------------------------|
| Owner of the Declaration | <b>Interface Europe</b>              |
| Programme holder         | Institut Bauen und Umwelt e.V. (IBU) |
| Publisher                | Institut Bauen und Umwelt e.V. (IBU) |
| Declaration number       | EPD-IFF-20120019-CBD1-EN             |
| Issue date               | 18/02/2013                           |
| Valid to                 | 18/02/2018                           |

**Modular carpet tiles**  
**tufted, 100% recycled PA 6, 700-800 g/m<sup>2</sup>, solution-dyed,**  
**Graphlex® backing system**  
**Interface®**




[www.bau-umwelt.com](http://www.bau-umwelt.com) / <https://epd-online.com>



Institut Bauen  
und Umwelt e.V.



**General Information**

|  |   |  |  |   |  |                                     |  |
|--|---|--|--|---|--|-------------------------------------|--|
| <p><b>Interface®</b></p> <hr/> <p><b>Programme holder</b><br/>         IBU - Institut Bauen und Umwelt e.V.<br/>         Rheinufer 108<br/>         D-53639 Königswinter</p> <hr/> <p><b>Declaration number</b><br/>         EPD-IFF-20120019-CBD1-EN</p> <hr/> <p><b>This Declaration is based on the Product Category Rules:</b><br/>         Floor coverings, 07-2012<br/>         (PCR tested and approved by the independent expert committee)</p> <hr/> <p><b>Issue date</b><br/>         18/02/2013</p> <hr/> <p><b>Valid to</b><br/>         18/02/2018</p> <hr/> <p></p> <hr/> <p>Prof. Dr.-Ing. Horst J. Bossenmayer<br/>         (President of Institut Bauen und Umwelt e.V.)</p> <hr/> <p></p> <hr/> <p>Prof. Dr.-Ing. Hans-Wolf Reinhardt<br/>         (Chairman of SVA)</p> | <p><b>Modular carpet tiles tufted, 100% recycled PA 6, 700-800 g/m<sup>2</sup>, solution-dyed, Graphlex® backing system</b></p> <hr/> <p><b>Owner of the Declaration</b><br/>         Interface Europe<br/>         Industrielaan 15<br/>         3925ZG Scherpenzeel</p> <hr/> <p><b>Declared product / Declared unit</b><br/>         Tufted modular carpet tiles having a surface pile of 100% recycled solution-dyed polyamide 6 and a Graphlex® backing system / 1m<sup>2</sup></p> <hr/> <p><b>Scope:</b><br/>         The declaration applies for a group of tufted modular carpet tiles with a total pile material input of 700 - 800 g/m<sup>2</sup> and a Graphlex® backing system. It is only valid in conjunction with a valid PRODIS licence.<br/>         The product is tufted in Craigavon, Ireland or in Scherpenzeel, Netherlands and it is coated in Scherpenzeel, Netherlands.<br/>         The owner of the declaration shall be liable for the underlying information and evidence.</p> <hr/> <p><b>Verification</b></p> <table border="1"> <tr> <td colspan="2">The CEN Norm EN 15804 serves as the core PCR</td> </tr> <tr> <td colspan="2">Independent verification of the declaration and data according to ISO 14025</td> </tr> <tr> <td><input type="checkbox"/> internally</td> <td><input checked="" type="checkbox"/> externally</td> </tr> </table> <hr/> <p></p> <hr/> <p>Dr. Eva Schmincke<br/>         (Independent tester appointed by SVA)</p> | The CEN Norm EN 15804 serves as the core PCR |  | Independent verification of the declaration and data according to ISO 14025 |  | <input type="checkbox"/> internally | <input checked="" type="checkbox"/> externally |
| The CEN Norm EN 15804 serves as the core PCR   |   |  |  |   |  |                                     |  |
| Independent verification of the declaration and data according to ISO 14025  |   |  |  |   |  |                                     |  |
| <input type="checkbox"/> internally  | <input checked="" type="checkbox"/> externally  |  |  |   |  |                                     |  |

**Product**

**Product description**  
 Tufted modular carpet tiles having a surface pile of 100% recycled solution-dyed polyamide 6, a primary backing with recycled content and a Graphlex® backing system with recycled content.  
Graphlex® backing system:  
 Bitumen backing compound (containing recycled materials), glass-fleece reinforcement and polypropylene covering fleece.

The declaration applies for a group of products with a total pile-material input of 700-800 g/m<sup>2</sup>. The calculations refer to the average pile-material input of 750g.  
Recycled content (post and pre-consumer) out of total weight: 61,3%

**Application**  
 According to the use class as defined in EN 1307 the products can be used in all professional area which require **class 33** or less.

**Technical Data**

**Constructional data**

| Name                | Value   | Unit             |
|---------------------|---|------------------|
| Product Form        | Tiles   | -                |
| Type of manufacture | Tufted  | -                |
| Yarn type           | 100% recycled PA6                               | -                |
| Secondary backing   | Heavy backing bitumen based with textile bottom | -                |
| Total carpet weight | 4540  | g/m <sup>2</sup> |
| Total pile weight   | 750   | g/m <sup>2</sup> |

Additional product properties according to EN 1307 can be found on the "Product Information System (PRODIS)" using the PRODIS registration number of the product.  
[www.pro-dis.info](http://www.pro-dis.info)

## Base materials / Ancillary materials

| Name                | Value | Unit |
|---------------------|-------|------|
| Polyamide 6         | 16,9  | %    |
| Polyester           | 1,9   | %    |
| Polypropylene       | 1,1   | %    |
| Limestone           | 48,8  | %    |
| Bitumen             | 16,7  | %    |
| Aluminium hydroxide | 5,8   | %    |
| SBR-latex           | 7,4   | %    |
| Glass fibre         | 0,8   | %    |
| Additives           | 0,6   | %    |

## Reference service life

The service life of textile floorcoverings strongly depends on the correct installation taking into account the declared use classification and the adherence of cleaning and maintenance instructions.

A minimum service life of 10 years could be assumed, technical service life can be considerably longer.

## LCA: Calculation rules

### Declared Unit

#### Declared unit

| Name  | Value | Unit              |
|---|-------|-------------------|
| Declared unit                               | 1     | m <sup>2</sup>    |
| Conversion factor to 1 kg (average product) | 0.22  | -                 |
| Mass reference (average product)            | 4,54  | kg/m <sup>2</sup> |

### System boundary

Type of the EPD: Cradle to grave.

System boundaries of the modules A, B, C, D:

#### A1-A3 Production:

Energy supply and production of the basic material, processing of secondary material, auxiliary material, transport of the material to the manufacturing site, emissions, waste water treatment, packaging material and waste processing up to the landfill of residual waste (except radioactive waste). Credits for electricity and steam from the incineration of production waste are aggregated.

#### A4 Transport:

Transport of the packed textile floorcovering from manufacturing gate to the place of installation.

#### A5 Installation:

Installation of the textile floorcovering, production and transport of auxiliary material, waste processing up to the landfill of residual waste (except radioactive waste), the production of the amount of carpet that occurs as installation waste incl. its transport to the place of installation.

Credits for electricity and steam from the incineration of installation waste leave the product system.

#### B1 Use:

Indoor emissions during the use stage. Due to known VOC-decay curves of the product after the first year no product related VOC-emissions are relevant.

#### B2 Maintenance:

Cleaning of the textile floorcovering for a period of 1 year:

- Vacuum cleaning – electricity supply

- Wet cleaning – electricity, water consumption, production of the cleaning agent, waste water treatment.

The declared values in this module have to be multiplied with the assumed service time of the floor covering in the building considered.

#### B3 - B7:

The modules are not relevant and therefore not declared.

#### C1 De-construction:

De-construction of the floorcovering is made by handcraft and causes no additional impacts.

#### C2 Transport:

Transport of the carpet waste to landfill, to the municipal waste incineration (MWI) or to the waste collection for recycling.

#### C3 Waste processing:

C3-0, C3-1: Landfill and waste incineration need no waste processing.

C3-2: Collection of the carpet waste, waste processing (granulating).

#### C4 Disposal

C4-0, C4-1: Impacts from landfill or from waste incineration (credits leave the system boundaries), C4-2: The processed carpet waste leaves the system and need no disposal.

#### D Recycling potential:

D-0, D-1: Energy credits from landfill and from waste incineration (processing with < 60% efficiency),

D-2: Transport from the reprocessing plant to the cement plant, substitution of material and fuel input in the cement kiln (substantial and energetic credits).

## Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to EN 15804 and the building context, respectively the product-specific characteristics of performance, are taken into account.

**LCA: Scenarios and additional technical information**

The following information refer to the declared modules and are the basis for calculations or can be used for further calculations. All indicated values refer to the declared functional unit.

Recycling in the cement industry (scenario 2)

The organic material of the carpet is used as secondary fuel in a cement kiln. It substitutes mainly lignite (62,7%), hard coal (27,3%) and petrol coke (10,0%).

The inorganic material is substantially integrated in the cement clinker and substitutes original material input.

**Transport to the construction site (A4)**

| Name  | Value | Unit              |
|---|-------|-------------------|
| Litres of fuel (truck, EURO 0-5 mix)        | 29.4  | l/100km           |
| Transport distance                          | 700   | km                |
| Capacity utilisation (including empty runs) | 85    | %                 |
| Gross density of products transported       | 700   | kg/m <sup>3</sup> |

**Installation in the building (A5)**

| Name                       | Value | Unit |
|----------------------------|-------|------|
| Auxiliary (PET-connectors) | 0.004 | kg   |
| Material loss              | 0.14  | kg   |

Cardboard waste (packaging material) leaves the system for recycling. Installation waste is considered to be incinerated in a municipal waste incineration plant.

**Maintenance (B2)**

Indication per m<sup>2</sup> and year

| Name                                | Value | Unit           |
|-------------------------------------|-------|----------------|
| Maintenance cycle (wet cleaning)    | 1,5   | 1/year         |
| Maintenance cycle (vacuum cleaning) | 208   | 1/year         |
| Water consumption (wet cleaning)    | 0.003 | m <sup>3</sup> |
| Cleaning agent (wet cleaning)       | 0,06  | kg             |
| Electricity consumption             | 0.314 | kWh            |

Further information on cleaning and maintenance see [www.interface.com](http://www.interface.com)

**End of Life (C1-C4)**

Three different end-of-life scenarios are declared and the results are indicated separately in module C. Each scenario is calculated as a 100% scenario.

Scenario 0: 100% landfill

Scenario 1: 100% municipal waste incineration (MWI)

Scenario 2: 100% recycling in the cement industry

If combinations of these scenarios have to be calculated this should be done according to the following scheme:

$$\begin{aligned} \text{EOL-impact} &= x\% \text{ impact (Scenario 0)} \\ &+ y\% \text{ impact (Scenario 1)} \\ &+ z\% \text{ impact (Scenario 2)} \end{aligned}$$

| Name   | Value | Unit |
|--|-------|------|
| Collected as mixed construction waste (scenario 0 and 1) | 4.54  | kg   |
| Collected separately (scenario 2)                        | 4.54  | kg   |
| Landfilling (scenario 0)                                 | 4.54  | kg   |
| Energy recovery (scenario 1)                             | 4.54  | kg   |
| Energy recovery (scenario 2)                             | 2,00  | kg   |
| Recycling (scenario 2)                                   | 2.54  | kg   |

**Reuse, recovery and/or recycling potentials (D), relevant scenario information**

The recovery or recycling potentials due to the three end-of-life scenarios (module C) are indicated separately.

**LCA: Results**

**Information on not declared modules:**

The modules B3 - B7 are not relevant during the service time of the carpet and are therefore not declared. Module C1 causes no additional impact (see "LCA: Calculation rules", "C1 De-construction") and is therefore not declared. Module C2 represents the transport for scenario 0, 1 and 2.

**DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE NOT DECLARED)**

| PRODUCT STAGE       |           |               | CONSTRUCTION PROCESS STAGE |                                   | USE STAGE |             |        |                           |                             |                        |                       | END OF LIFE STAGE          |           |                  |          | BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES |  |
|---------------------|-----------|---------------|----------------------------|-----------------------------------|-----------|-------------|--------|---------------------------|-----------------------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|---|--|
| Raw material supply | Transport | Manufacturing | Transport                  | Construction-installation process | Use       | Maintenance | Repair | Replacement <sup>1)</sup> | Refurbishment <sup>1)</sup> | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-potential              |  |
| A1                  | A2        | A3            | A4                         | A5                                | B1        | B2          | B3     | B4                        | B5                          | B6                     | B7                    | C1                         | C2        | C3               | C4       | D   |  |
| X                   | X         | X             | X                          | X                                 | X         | X           | MND    | MND                       | MND                         | MND                    | MND                   | MND                        | X         | X                | X        | X   |  |

**RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: 1 m<sup>2</sup> floorcovering**

| Parameter | Unit                                    | A1 - A3 | A4       | A5      | B1      | B2      | C2       | C3     | C3/1   | C3/2    | C4      | C4/1    | C4/2   | D        | D/1      | D/2      |
|-----------|---|---------|----------|---------|---------|---------|----------|--------|--------|---------|---------|---------|--------|----------|----------|----------|
| GWP       | [kg CO <sub>2</sub> -Äq.]               | 7.78E+0 | 1.92E-1  | 5.04E-1 | 3.14E-3 | 2.92E+0 | 1.06E-2  | 0.0E+0 | 0.0E+0 | 3.08E-2 | 5.76E+0 | 8.56E+0 | 0.0E+0 | -2.6E-1  | -2.8E+0  | -4.72E-1 |
| ODP       | [kg CFC11-Äq.]                          | 8.22E-8 | 7.1E-11  | 2.53E-9 | 0.0E+0  | 1.63E-7 | 3.9E-12  | 0.0E+0 | 0.0E+0 | 2.01E-9 | 8.2E-10 | 7.4E-10 | 0.0E+0 | -1.7E-8  | -3.98E-8 | -1.18E-7 |
| AP        | [kg SO <sub>2</sub> -Äq.]               | 2.62E-2 | 8.76E-4  | 1.04E-3 | 0.0E+0  | 1.31E-2 | 4.83E-5  | 0.0E+0 | 0.0E+0 | 1.31E-4 | 1.24E-3 | 5.64E-3 | 0.0E+0 | -1.11E-3 | -4.1E-3  | -3.08E-3 |
| EP        | [kg PO <sub>4</sub> <sup>3-</sup> -Äq.] | 5.06E-3 | 2.03E-4  | 2.05E-4 | 0.0E+0  | 1.96E-3 | 1.12E-5  | 0.0E+0 | 0.0E+0 | 7.05E-6 | 5.83E-3 | 1.48E-3 | 0.0E+0 | -5.94E-5 | -3.64E-4 | -6.54E-4 |
| POCP      | [kg Ethen Äq.]                          | 2.5E-3  | -3.17E-4 | 8.3E-5  | 1.11E-4 | 1.77E-3 | -1.75E-5 | 0.0E+0 | 0.0E+0 | 7.99E-6 | 1.5E-3  | 4.03E-4 | 0.0E+0 | -6.73E-5 | -4.53E-4 | -4.19E-4 |
| ADPE      | [kg Sb Äq.]                             | 3.97E-4 | 7.57E-9  | 1.15E-5 | 0.0E+0  | 5.36E-6 | 4.2E-10  | 0.0E+0 | 0.0E+0 | 2.53E-9 | 4.67E-8 | 1.62E-6 | 0.0E+0 | -2.13E-8 | -1.3E-7  | -7.59E-8 |
| ADPF      | [MJ]                                    | 157     | 2.65     | 5.12    | 0       | 54.1    | 0.146    | 0      | 0      | 0.351   | 3.39    | 6.81    | 0      | -2.96    | -42.4    | -77.8    |

Caption: GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources

**RESULTS OF THE LCA - RESOURCE USE: 1 m<sup>2</sup> floorcovering**

| Parameter | Unit              | A1 - A3 | A4      | A5      | B1     | B2      | C2      | C3     | C3/1   | C3/2    | C4      | C4/1    | C4/2   | D        | D/1      | D/2      |
|-----------|-------------------|---------|---------|---------|--------|---------|---------|--------|--------|---------|---------|---------|--------|----------|----------|----------|
| PERE      | [MJ]              | 1.59E+1 | 1.04E-1 | 4.89E-1 | 0.0E+0 | 4.47E+0 | 5.72E-3 | 0.0E+0 | 0.0E+0 | 7.86E-2 | 1.64E-1 | 3.31E-1 | 0.0E+0 | -6.62E-1 | -1.56E+0 | -1.84E-1 |
| PERM      | [MJ]              | 0.0E+0  | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0   | 0.0E+0   | 0.0E+0   |
| PERT      | [MJ]              | 1.59E+1 | 1.04E-1 | 4.89E-1 | 0.0E+0 | 4.47E+0 | 5.72E-3 | 0.0E+0 | 0.0E+0 | 7.86E-2 | 1.64E-1 | 3.31E-1 | 0.0E+0 | -6.62E-1 | -1.56E+0 | -1.84E-1 |
| PENRE     | [MJ]              | 97.26   | 2.66    | 5.46    | 0      | 65.6    | 0.147   | 0      | 0      | 0.538   | 3.55    | 7.35    | 0      | -4.54    | -46.1    | -78.3    |
| PENRM     | [MJ]              | 70.74   | 0       | 0       | 0      | 0       | 0       | 0      | 0      | 0       | 0       | 0       | 0      | 0        | 0        | 0        |
| PENRT     | [MJ]              | 168     | 2.66    | 5.46    | 0      | 65.6    | 0.147   | 0      | 0      | 0.538   | 3.55    | 7.35    | 0      | -4.54    | -46.1    | -78.3    |
| SM        | [kg]              | 2.96E+0 | 0.0E+0  | 8.06E-2 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0   | 0.0E+0   | 0.0E+0   |
| RSF       | [MJ]              | 2.58E-3 | 1.89E-5 | 8.17E-5 | 0.0E+0 | 1.84E-3 | 1.04E-6 | 0.0E+0 | 0.0E+0 | 7.16E-6 | 2.78E-3 | 2.01E-4 | 0.0E+0 | -6.04E-5 | -4.51E-4 | -2.2E-5  |
| NRSF      | [MJ]              | 2.71E-2 | 1.98E-4 | 8.56E-4 | 0.0E+0 | 1.93E-2 | 1.09E-5 | 0.0E+0 | 0.0E+0 | 7.51E-5 | 6.62E-3 | 2.08E-3 | 0.0E+0 | -6.33E-4 | -4.73E-3 | -2.26E-4 |
| FW        | [m <sup>3</sup> ] | 1.91E+1 | 1.0E-2  | 5.67E-1 | 0.0E+0 | 8.3E+0  | 5.51E-4 | 0.0E+0 | 0.0E+0 | 1.12E-1 | 1.28E-1 | 3.5E-1  | 0.0E+0 | -9.44E-1 | -2.23E+0 | -3.53E-1 |

Caption: PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water

**RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES: 1 m<sup>2</sup> floorcovering**

| Parameter | Unit | A1 - A3 | A4      | A5      | B1     | B2      | C2      | C3     | C3/1   | C3/2    | C4      | C4/1    | C4/2    | D        | D/1      | D/2      |
|-----------|------|---------|---------|---------|--------|---------|---------|--------|--------|---------|---------|---------|---------|----------|----------|----------|
| HWD       | [kg] | 1.42E-2 | 0.0E+0  | 1.86E-2 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 6.05E-1 | 0.0E+0  | 0.0E+0   | 0.0E+0   | 0.0E+0   |
| NHWD      | [kg] | 8.16E+0 | 9.37E-3 | 2.62E-1 | 0.0E+0 | 5.9E+0  | 5.16E-4 | 0.0E+0 | 0.0E+0 | 1.15E-1 | 3.46E+0 | 8.3E-1  | 0.0E+0  | -9.71E-1 | -2.3E+0  | -6.08E+1 |
| RWD       | [kg] | 3.66E-3 | 3.7E-6  | 1.13E-4 | 0.0E+0 | 3.86E-3 | 2.04E-7 | 0.0E+0 | 0.0E+0 | 7.69E-5 | 6.33E-5 | 2.2E-4  | 0.0E+0  | -6.48E-4 | -1.52E-3 | -1.27E-4 |
| CRU       | [kg] | 0.0E+0  | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0  | 0.0E+0  | 0.0E+0   | 0.0E+0   | 0.0E+0   |
| MFR       | [kg] | 7.67E-2 | 0.0E+0  | 1.66E-1 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0  | 2.53E+0 | 0.0E+0   | 0.0E+0   | 0.0E+0   |
| MER       | [kg] | 0.0E+0  | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0  | 0.0E+0  | 0.0E+0   | 0.0E+0   | 0.0E+0   |
| EEE       | [MJ] | 0.0E+0  | 0.0E+0  | 1.22E-1 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0 | 0.0E+0  | 1.91E+0 | 4.06E+0 | 0.0E+0  | 0.0E+0   | 0.0E+0   | 0.0E+0   |
| EET       | [MJ] | 0.0E+0  | 0.0E+0  | 8.36E-1 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 0.0E+0 | 0.0E+0 | 0.0E+0  | 0.0E+0  | 2.77E+1 | 0.0E+0  | 0.0E+0   | 0.0E+0   | 0.0E+0   |

Caption: HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy

The declared values in module B2 have to be multiplied with the assumed service time (in years) of the floor covering in the building considered.



## References

### **Institut Bauen und Umwelt 2011**

Institut Bauen und Umwelt e.V., Königswinter (pub.):  
Generation of Environmental Product Declarations  
(EPDs);

### **General principles**

for the EPD range of Institut Bauen und Umwelt e.V.  
(IBU), 2011-09  
[www.bau-umwelt.de](http://www.bau-umwelt.de)

### **PCR 2011, Part A**

Institut Bauen und Umwelt e.V., Königswinter (pub.):  
Product Category Rules for Construction Products  
from the range of Environmental Product Declarations  
of Institut Bauen und Umwelt (IBU), Part A: Calculation  
Rules for the Life Cycle Assessment and  
Requirements on the Background Report. September  
2012  
[www.bau-umwelt.de](http://www.bau-umwelt.de)

### **ISO 14025**

DIN EN ISO 14025:2011-10: Environmental labels and  
declarations — Type III environmental declarations —  
Principles and procedures

### **EN 15804**

EN 15804:2012-04: Sustainability of construction  
works — Environmental Product Declarations — Core  
rules for the product category of construction products

### **PCR 2011, Part B**

Institut Bauen und Umwelt e.V., Königswinter (pub.):  
Product Category Rules for Construction Products  
from the range of Environmental Product Declarations  
of Institut Bauen und Umwelt (IBU),  
Part B: Requirements on the EPD for floor coverings,  
June 2011  
[www.bau-umwelt.de](http://www.bau-umwelt.de)

### **EN 1307**

DIN EN 1307: 2008-08: Textile floor coverings -  
Classification of pile carpets

### **EN 14041**

DIN EN 14041: 2008-05: Resilient, textile and laminate  
floor coverings

### **ISO 10874**

DIN EN ISO 10874: 2012-04: Resilient, textile and  
laminate floor coverings - Classification

### **EN 13501-1:**

DIN EN 13501-1: 2010-01: Fire classification of  
construction products and building elements - Part 1:  
Classification using data from reaction to fire tests

### **VDZ e.V.:**

Umweltdaten der deutschen Zementindustrie 2010



Institut Bauen  
und Umwelt e.V.

**Publisher**

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