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# **ENVIRONMENTAL PRODUCT DECLARATION**

as per /ISO 14025/ and /EN 15804/

| Owner of the Declaration | Egetaepper a/s                       |
|--------------------------|--------------------------------------|
| Programme holder         | Institut Bauen und Umwelt e.V. (IBU) |
| Publisher                | Institut Bauen und Umwelt e.V. (IBU) |
| Declaration number       | EPD-EGE-20190135-CCC1-EN             |
| Issue date               | 18-09-2019                           |
| Valid to                 | 17-09-2024                           |

# **Woven broadloom carpet** max. total pile material 700 gm<sup>2</sup>, Polyamide 6.6, continous dyed, woven textile backing

# ege®

|                |                                  |                       |        |                                     | _                  |   |
|----------------|----------------------------------|-----------------------|--------|-------------------------------------|--------------------|---|
|                |                                  | Relatienr verwerkt Pl |        |                                     | Klanttype          | G |
|                | nico.bricksandbrains.nl          | 13799                 |        | Brains + Bricks                     | Interm. Projectmgt |   |
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|                |                                  |                       |        |                                     |                    |   |







## **General Information**

ege®

#### Programme holder

IBU - Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany

# Declaration number

EPD-EGE-20190135-CCC1-EN

# This declaration is based on the product category rules: Floor coverings, 02/2018

(PCR checked and approved by the SVR)

### Issue date

18-09-2019

Valid to 17-09-2024

Man Leten

Dipl. Ing. Hans Peters (President of Institut Bauen und Umwelt e.V.)

lout Walls

Dr. Alexander Röder (Managing Director IBU)

#### Product

#### Product description / Product definition

Woven broadloom carpet having a surface pile material of polyamide 6.6 and a woven textile backing out of polypropylene. The carpet is colored by continuous dyeing method. The calculations refer to a total pile weight of 700 g/m<sup>2</sup>.

The declaration applies to a group of products with a maximum total pile weight of 700 g/m<sup>2</sup>. The LCA results are calculated for products with the maximum total pile weight.

For the placing on the market of the product in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) Regulation (EU) No. 305/2011 /CPR/ applies. The products need a Declaration of Performance taking into consideration /EN 14041/ and the CE-marking. The DoP of the products can be found on the manufacturer's technical information section.

### Woven broadloom carpet

total pile material 700 gm<sup>2</sup>, polyamide 6.6, continous dyed, woven textile backing

#### Owner of the declaration

egetaepper a/s Industrivej Nord 25 7400 Herning Denmark

#### Declared product / declared unit

1  $\ensuremath{\text{m}}^2$  woven broadloom carpet, with a pile material made of PA6.6

#### Scope:

The manufacturer declaration applies to a group of similar products with a maximum total pile weight of 700 g/m2.

The carpet is woven at Bentzon Carpets, Roejle, Denmark and it is coloured and backcoated in the ege® manufacturing site Gram, Denmark. It is only valid in conjunction with a valid GUT-/PRODIS/ license of the product.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

#### Verification

The standard /EN 15804/ serves as the core PCR Independent verification of the declaration and data according to /ISO 14025:2010/

internally x externally

Schindler

Angela Schindler (Independent verifier appointed by SVR)

For the application and use of the products the respective national provisions apply.

#### Application

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





#### **Technical Data**

| ormance data listed in the DoP appl | v |
|-------------------------------------|---|
| Jimance data listed in the DOP app  | L |

| Name                | Value                       | Unit |
|---------------------|-----------------------------|------|
| Product Form        | Broadloom                   | -    |
| Type of manufacture | Woven loop pile<br>carpet   | -    |
| Yarn type           | Polyamide 6.6               | -    |
| Coloration          | Continous dyed              |      |
| Secondary backing   | Woven textile made<br>of PP | -    |
| Total pile weight   | max.700                     | g/m² |
| Total carpet weight | max.2494                    | g/m² |

Additional product properties in accordance with /EN 1307/ and performance data of the product in accordance with the Declaration of Performance with respect to its Essential Characteristics according to /EN 14041/ can be found on the Product Information System /PRODIS/ using the /PRODIS/ registration number of the product (www.pro-dis.info) or on the manufacturer's technical information section (www.egecarpets.com).

#### Base materials / Ancillary materials

| Name                               | Value | Unit |
|------------------------------------|-------|------|
| Polyamide 6.6                      | 28.1  | %    |
| Polyester                          | 7.8   | %    |
| Polypropylene                      | 8.7   | %    |
| Limestone                          | 16.8  | %    |
| Aluminium hydroxide                | 20.6  | %    |
| Polymer dispersion (solid content) | 18.0  | %    |

The products are registered in the GUT-/PRODIS/ Information System. The /PRODIS/ system ensures the compliance with limitations of various chemicals and Volatile Organic Compound (VOC)-emissions and a ban on the use of all substances that are listed as 'Substances of Very High Concern' (SVHC) under /REACH/.

This product contains substances listed in the candidate list (27.06.2018) exceeding 0.1 percentage by mass: no

#### **Reference service life**

A calculation of the reference service life according to /ISO 15686/ is not possible.

The service life of textile floor coverings strongly depends on the correct installation taking into account the declared use classification and the adherence to cleaning and maintenance instructions. A minimum service life of 10 years can be assumed, technical service life can be considerably longer.

## LCA: Calculation rules

#### **Declared Unit**

| Name                      | Value | Unit           |
|---------------------------|-------|----------------|
| Declared unit             | 1     | m <sup>2</sup> |
| Conversion factor to 1 kg | 0.4   | -              |
| Mass reference            | 2,49  | kg/m²          |

The declared unit refers to 1 m<sup>2</sup> produced textile floor covering. The Output of module A5 'Assembly' is 1 m<sup>2</sup> installed textile floor covering.

#### System boundary

#### Type of EPD: Cradle-to-grave

<u>System boundaries of modules A, B, C, D:</u> Modules C3, C4 and D are indicated separately for

- three end-of-life scenarios:
- 1 landfill disposal
- 2 municipal waste incineration
- 3 recovery in a cement plant

#### 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 disposal of residual waste (except radioactive waste). Benefits for generated electricity and steam due to the incineration of production waste are aggregated.

#### A4 Transport:

Transport of the packed textile floor covering from factory gate to the place of installation.

#### A5 Installation:

Installation of the textile floor covering, processing of installation waste and packaging waste up to the landfill disposal of residual waste (except radioactive waste), the production of the amount of carpet that occurs as installation waste including its transport to the place of installation.

Generated electricity and steam due to the incineration of waste are listed in the result table as exported energy.

Floor preparation and auxiliary materials (adhesives, fixing agents, PET connectors) are beyond the system boundaries and not taken into account.

#### <u>B1 Use:</u>

Indoor emissions during the use stage. After the first year, no product related Volatile Organic Compound



(VOC) emissions are relevant due to known VOC decay curves of the product.

#### B2 Maintenance:

Cleaning of the textile floor covering 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 by the assumed service life of the floor covering in the building in question.

#### B3 - B7:

The modules are not relevant and therefore not declared.

#### C1 De-construction:

The floor covering is de-constructed manually and no additional environmental impact is caused.

#### C2 Transport:

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

#### C3 Waste processing:

C3-1: Landfill disposal needs no waste processing. C3-2: Impact from waste incineration (plant with R1>0.6), generated electricity and steam are listed in the result table as exported energy. C3-3: Collection of the carpet waste, waste processing

(granulating).

#### C4 Disposal

C4-1: Impact from landfill disposal,

### 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. The indicated values refer to the declared functional unit of the product.

| Name  | Value | Unit    |
|---|-------|---------|
| Litres of fuel (truck, EURO 0-6 mix)        | 0.006 | l/100km |
| Transport distance                          | 700   | km      |
| Capacity utilisation (including empty runs) | 85    | %       |

#### Installation in the building (A5)

| Name          | Value | Unit |
|---------------|-------|------|
| Material loss | 0.224 | kg   |
|               |       |      |

Packaging waste and installation waste are considered to be incinerated in a municipal waste incineration plant.

Preparation of the floor and auxiliaries (adhesives, fixing agents, PET connectors etc.) are not taken into account.

#### Maintenance (B2)

The values for cleaning refer to 1 m<sup>2</sup> floor covering used in commercial areas per year.

Depending on the application based on EN ISO 10874, the technical service life recommended by the manufacturer and the anticipated strain on the floor by customers, the case-specific useful life can be

C4-2: The carpet waste leaves the system in module C3-2, C4-3: The pre-processed carpet waste leaves the system in module C3-3.

#### D Recycling potential:

Calculated benefits result from materials exclusive secondary materials (net materials). D-A5: Benefits for generated energy due to incineration of packaging and installation waste (incineration plant with R1 > 0.6), D-1: Benefits for generated energy due to landfill disposal of carpet waste at the end-of-life, D-2: Benefits for generated energy due to incineration

of carpet waste at the end-of-life (incineration plant with R1 > 0.6), D-3: Benefits for saved fossil energy and saved

inorganic material due to recovery of the carpet in a cement plant at the end-of-life, transport from the reprocessing plant to the cement kiln.

#### 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.

Background data are taken from the /GaBi 8.7/, service pack 37 and from the /ecoinvent 3.5/ (2018) database

established. The effects of Module B2 need to be calculated on the basis of this useful life in order to obtain the overall environmental impacts.

| Name                                   | Value | Unit           |
|--|-------|----------------|
| Maintenance cycle (wet cleaning)       | 1.5   | 1/year         |
| Maintenance cycle (vacuum<br>cleaning) | 208   | 1/year         |
| Water consumption (wet cleaning)       | 0.004 | m <sup>3</sup> |
| Cleaning agent (wet cleaning)          | 0.09  | kg             |
| Electricity consumption                | 0.314 | kWh            |
|  | 0.314 |                |

Further information on cleaning and maintenance see www.egecarpets.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 1: 100% landfill disposal

Scenario 2: 100% municipal waste incineration (MWI) with R1>0.6

Scenario 3: 100% recycling in the cement industry

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



EOL-impact = x% impact (Scenario 1) + y% impact (Scenario 2) + z% impact (Scenario 3)

The following applies:

x + y + z = 100

Name

| Name   | Value | Unit |
|--|-------|------|
| Collected as mixed construction waste (scenario 1 and 2) | 2.49  | kg   |
| Collected separately (scenario 3)                        | 2.49  | kg   |
| Landfilling (scenario 1)                                 | 2.49  | kg   |
| Energy recovery (scenario 2)                             | 2.49  | kg   |
| Energy recovery (scenario 3)                             | 1.56  | kg   |
| Recycling (scenario 3)                                   | 0.93  | kg   |

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

Recovery or recycling potentials due to the three endof-life scenarios (module C) are indicated separately.

#### <u>Recycling in the cement industry (scenario 3)</u> /VDZ e.V./

The organic material of the carpet is used as secondary fuel in a cement kiln. It mainly substitutes for lignite (62.2%), hard coal (27.3%) and petrol coke (10.5%).

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



## LCA: Results

The results refer to all declared products with a maximum total pile weight of 700 g/m<sup>2</sup>.

The declared result figures in module B2 have to be multiplied by the assumed service life (in years) of the floor covering in the building under consideration.

Information on un-declared modules:

Modules B3 - B7 are not relevant during the service life of the carpet and are therefore not declared. Modules C1, C3/1 and C4/2 cause no additional impact (see chapter "LCA: Calculation rules" in this document) and are therefore not declared. Module C2 represents the transport for scenarios 1, 2 and 3. Column D represents module D/A5. The calculations are based on the /CML/ characterization factors (version January 2016).

| DESC                   | RIPT                       |   | OF THE  | SYST   | EM BC   | UND                                    | ARY (                                  | X = 11                                     | NCLUE  | DED IN                                    | LCA; I  | /ND =   | MOD  | ULE                          |                               | DECLA                                | RED)                           |
|------------------------|----------------------------|---|---|--|---|--|--|--|--|---|---|---|--|------------------------------|-------------------------------|--------------------------------------|--------------------------------|
| PROE                   | DUCT S                     | STAGE                                     | ON PR   | IRUCTI<br>OCESS<br>AGE                           |   | USE STAGE END OF LIFE STAGE            |  |  |  |   |   | LC<br>BEYO<br>SY:                               | TITS AND<br>DADS<br>DND THE<br>STEM<br>IDARIES |                              |                               |                                      |                                |
| Raw material<br>supply | Transport                  | Manufacturing                             | Transport from the gate to the site               | Assembly   | Use   | Maintenance                            | Repair                                 | Replacement                                | Refurbishment                                  | Operational energy<br>use                 | Operational water<br>use                      | De-construction<br>demolition                   | Transport                                      | Waste processing             | Disposal                      | Reuse-<br>Recovery-                  | Recycling-<br>potential        |
| A1                     | A2                         | A3  | A4  | A5   | B1  | B2                                     | B3                                     | B4   | B5   | B6  | B7  | C1  | C2   | C3                           | C4                            |                                      | D                              |
| Х                      | Х                          | X   | X   | X  | Х   | Х                                      | MNR                                    | MNF  | R MNR  | MND                                       | MND   | MND   | Х  | X                            | X                             |                                      | Х                              |
| RESU                   | JLTS                       | OF TH                                     | HE LCA  | A - ENV  | <b>IRON</b>                                     | IENT.                                  | AL IM                                  | IPAC                                       | T: 1 m <sup>2</sup>                            | ² floor c                                 | coverir                                       | ng  |  |                              |                               | ·                                    |                                |
| Param<br>eter          | U                          | Init                                      | A1-A3   | A4   | A5  | B                                      | 1                                      | B2   | C2   | C3/2                                      | C3/3  | C4/1  | 1  | <b>b</b>                     | D/1                           | D/2                                  | D/3                            |
| GWP                    |                            | O <sub>2</sub> -Eq.]                      | 1.27E+1   | _  |   | _                                      |  | .02E-1                                     | 5.87E-3  |   | -   | _   |  |                              | 0.00E+0                       | -1.89E+0                             | -4.64E-1                       |
| ODP<br>AP              |                            | C11-Eq.]<br>O <sub>2</sub> -Eq.]          | 6.63E-9   | _  |   | _                                      |  | .30E-8<br>.23E-3                           | 9.74E-19<br>2.42E-5                            |   |   | _   | 16 -1.56                                       |                              | ).00E+0<br>).00E+0            | -2.58E-14<br>-3.17E-3                | -2.64E-15<br>-1.91E-3          |
| EP                     |                            | <u>O₂-⊑q.]</u><br>D₄) <sup>3-</sup> -Eq.] | 3.55E-3   |  |   |  |  | .45E-4                                     | 6.13E-6  | -   |   |   |  | -                            | ).00E+0                       | -3.43E-4                             | -2.03E-4                       |
| POCP                   |                            | ene-Eq.]                                  |   |  |   |  | -                                      | .56E-4                                     | -9.92E-6                                       |   |   |   |  |                              | 0.00E+0                       | -2.51E-4                             | -2.02E-4                       |
| ADPE<br>ADPF           |                            | 6b-Eq.]<br>MJ]                            | 4.69E-6   | _  |   | _                                      |  | .08E-6<br>.87E+0                           | 4.59E-10<br>7.99E-2                            |   |   |   |  |                              | 0.00E+0                       | -3.38E-7<br>-2.65E+1                 | -3.10E-7<br>-4.67E+1           |
|                        |                            | _   |   |  |   |  |  |  |  | spheric oz                                | -   |   |  |                              |                               |                                      |                                |
| Captio                 |                            |   |   |  | = Format  | ion pote                               | ntial of                               | troposp                                    | heric ozo                                      | ne photoc                                 | hemical c                                     | xidants; A                                      | ADPE =   |                              |                               |                                      |                                |
| RESU                   | JLTS                       | OF TH                                     | HE LCA  | A - RES  | OURC  | E US                                   | E: 1 n                                 | n² flo                                     | or cov   | ering                                     |   |   |  |                              |                               |                                      |                                |
| Parame                 | eter                       | Unit                                      | A1-A3   | A4   | A5  | B1                                     | 1                                      | B2   | C2   | C3/2                                      | C3/3  | C4/1  |  |                              | D/1                           | D/2                                  | D/3                            |
| PER                    |                            | · · ·                                     | 4.51E+1   | 8.26E-2  | 1.35E+0   | 0.00E                                  |  |  | 4.65E-3  | 2.35E-1                                   | 1.05E-1                                       | 1.86E-  | _  |                              |                               | -6.71E+0                             | -5.90E-1                       |
| PERI<br>PER            |                            |   | 0.00E+0<br>4.51E+1                                | 0.00E+0<br>8.26E-2                               | 0.00E+0<br>1.35E+0                              | 0.00E                                  |  |  | 0.00E+0<br>4.65E-3                             | 0.00E+0<br>2.35E-1                        | 0.00E+0<br>1.05E-1                            | 0.00E+  | _  |                              | .00E+0                        | 0.00E+0<br>-6.71E+0                  | 0.00E+0<br>-5.90E-1            |
| PENF                   |                            | <u> </u>                                  | 1.96E+2   | 1.42E+0  | 7.40E+0   | 0.00L                                  |  |  | 4.03L-3<br>8.02E-2                             | 5.21E+1                                   | 5.06E+1                                       | 2.70E+  | _  |                              | .00E+0                        | -3.33E+1                             | -3.90L-1                       |
| PENR                   | M                          | [MJ]                                      | 5.04E+1   | 0.00E+0  | 0.00E+0   | 0.00E                                  | +0 0.0                                 | 0E+0                                       | 0.00E+0  | -5.04E+1                                  | -5.04E+1                                      | 0.00E+  | 0.00 C   | E+0 0                        | .00E+0                        | 0.00E+0                              | 0.00E+0                        |
| PENF                   |                            | · · ·                                     | 2.46E+2   | 1.42E+0  | 7.40E+0   | 0.00E                                  |  |  | 8.02E-2  | 1.74E+0                                   | 2.61E-1                                       | 2.70E+  | _  |                              | .00E+0                        | -3.33E+1                             | -4.72E+1                       |
| SM<br>RSF              |                            | . 0.                                      |   | 0.00E+0<br>0.00E+0                               | 0.00E+0<br>0.00E+0                              | 0.00E                                  |  |  | 0.00E+0<br>0.00E+0                             | 0.00E+0<br>0.00E+0                        | 0.00E+0<br>0.00E+0                            |   | _  |                              | .00E+0                        | 0.00E+0<br>0.00E+0                   | 9.96E-1<br>0.00E+0             |
| NRS                    |                            |   | 0.00E+0   | 0.00E+0  | 0.00E+0   |  |  |  | 0.00E+0  | 0.00E+0                                   | 0.00E+0                                       |   |  |                              | .00E+0                        | 0.00E+0                              | 5.04E+1                        |
| FW                     |                            |   | 5.50E-2   | 1.40E-4  | 2.23E-3   | -                                      |  |  | 7.87E-6  | 1.19E-2                                   | 1.24E-4                                       | -   |  |                              |                               | -7.92E-3                             | -4.33E-3                       |
| Caption                | rene<br>r<br>rene<br>of se | wable p<br>non-rene<br>wable p<br>econdar | rimary er<br>ewable pr<br>primary er<br>y materia | nergy res<br>rimary en<br>nergy res<br>Il; RSF = | ources us<br>ergy excl<br>ources u<br>Use of re | ed as r<br>uding n<br>sed as<br>newabl | aw mai<br>on-rene<br>raw ma<br>e secoi | terials;<br>ewable<br>terials;<br>ndary fi | PERT =<br>primary<br>PENRT<br>uels; NR<br>wate | energy re<br>= Total us<br>SF = Use<br>er | of renew<br>sources<br>se of non<br>of non-re | vable prin<br>used as r<br>-renewat<br>enewable | nary en<br>aw mat<br>ble prim                  | ergy re<br>erials;<br>ary en | esources<br>PENRM<br>ergy res | s; PENRE<br>1 = Use of<br>sources; S | = Use of<br>f non-<br>SM = Use |
|                        |                            | OF TH<br>cover                            |   | x - 00   | TPUT F  | LOW                                    | S AN                                   | D WA                                       | ASTE C   | ATEG                                      | ORIES   |   |  |                              |                               |                                      |                                |
| Parame                 | eter                       | Unit                                      | A1-A3   | A4   | A5  | B1                                     |  | B2   | C2   | C3/2                                      | C3/3  | C4/1  | D  |                              | D/1                           | D/2                                  | D/3                            |
| HWD                    |                            |   | 2.01E-5   | 7.95E-8  | 5.96E-7   | 0.00E                                  |  |  | 4.48E-9  | 8.15E-9                                   | 1.25E-10                                      |   |  |                              |                               | -1.37E-8                             | -3.36E-9                       |
| NHW                    |                            |   | 3.84E-1<br>5.87E-3                                | 1.16E-4  | 2.50E-2<br>1.77E-4                              |  |  |  | 6.52E-6  | 4.39E-1<br>7.19E-5                        | 1.90E-4<br>4.20E-5                            |   |  |                              |                               | -1.43E-2<br>-2.68E-3                 | -2.61E-1                       |
| CRL                    |                            | 1.51                                      | 5.87E-3<br>0.00E+0                                | 1.93E-6<br>0.00E+0                               | 0.00E+0   | 0.00E                                  |  |  | 1.09E-7<br>0.00E+0                             | 7.19E-5<br>0.00E+0                        |   |   |  |                              |                               | -2.68E-3                             | -1.75E-4<br>0.00E+0            |
| MFF                    | 2                          | [kg] (                                    | 0.00E+0   | 0.00E+0  | 0.00E+0   | 0.00E                                  | +0 0.0                                 | 0E+0                                       | 0.00E+0  | 0.00E+0                                   | 9.32E-1                                       | 0.00E+  | 0.00   | E+0 0                        | .00E+0                        | 0.00E+0                              | 0.00E+0                        |
| MEF                    |                            |   | 0.00E+0   |  | 0.00E+0   |  |  |  | 0.00E+0  |   |   |   |  |                              |                               | 0.00E+0                              |                                |
| EEE<br>EET             |                            |   | 0.00E+0<br>0.00E+0                                |  | 4.79E-1   |  |  |  |  | 7.94E+0<br>1.43E+1                        |   |   |  |                              |                               | 0.00E+0                              |                                |
| Caption                | HW                         | ) = Haz                                   | ardous w  | aste disp  | osed; NH  | IWD = I                                | Non-ha                                 | zardou<br>laterial                         | s waste o                                      | disposed;<br>rgy recove                   | RWD = I                                       | Radioacti                                       | ve was   | te disp                      | osed; C                       | RU = Cor                             | nponents                       |

#### /IBU 2016/

IBU (2016): General Programme Instructions for the Preparation of EPDs at the Institut Bauen und Umwelt e.V., Version 1.1 Institut Bauen und Umwelt e.V., Berlin.

www.ibu-epd.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+A1 2013/, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products

#### /PCR Part A/

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