BUILDING PRODUCT DECLARATION BPD 3
in compliance with the guidelines of the Ecocycle Council, June 2007

1 Basic data

<table>
<thead>
<tr>
<th>Product identification</th>
<th>Document ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td></td>
</tr>
<tr>
<td>Kährs 15mm</td>
<td></td>
</tr>
</tbody>
</table>

- **Product no/ID designation**
- **Oil finish**
- **Product group**
  - 03102

- **New declaration**
- **Revised declaration**

**In the case of a revised declaration**
- **Has the product been changed?**
  - ☑ No
  - ☐ Yes
- **The change relates to**
- **Changed product can be identified by**

- **Drawn up/revised on (date) 2013-05-16**
- **Inspected without revision on (date)**

**Other information:** TVOC and Formaldehyde emission testing, company FSC/PEFC certified, LCA >25 years

2 Supplier information

<table>
<thead>
<tr>
<th>Company name</th>
<th>Company reg. no/DUNS no</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB Gustaf Kähr</td>
<td>556017-3600</td>
</tr>
</tbody>
</table>

- **Address**
  - Dunderbergsgatan 10
  - 382240 SE Nybro         Sweden

- **Contact person**
- **Telephone**
  - 011 46 481 460 00

- **Website:**
  - www.kahrs.com

- **E-mail**
  - info@kahrs.com

- **Does the company have an environmental management system?**
  - ☑ Yes
  - ☐ No

- **The company possesses certification in compliance with**
  - ☑ ISO 9000
  - ☑ ISO 14000
  - ☐ Other

- **Other information:**
  - We File an audited EMAS Environmental Report each year since 1997

3 Product information

- **Country of final manufacture**
  - Sweden

- **If country cannot be stated, please state why**

- **Area of use**
  - flooring

- **Is there a Safety Data Sheet for this product?**
  - ☑ Not relevant
  - ☐ Yes
  - ☐ No

- **Classification**

- **Labelling**

- **Is the product registered in BASTA?**
  - ☑ Yes
  - ☐ No

- **Has the product been eco-labelled?**
  - ☐ Criteria not found
  - ☑ Yes
  - ☐ No

- **If “yes”, please specify:**
  - Floorscore certified, M1 RTS Finland certified, Most products Nordic Eco Label - Swan certified, CARB 2 certified, E1 EU certified, German DIBt certified, French VOC A+ Certified, BPD3 this form, certified as recommended, Blue Angel Germany certified

- **Is there a Type III environmental declaration for the product?**
  - ☐ Yes
  - ☑ No

- **Other information**

4 Contents (To add a new green row, select and copy an entire empty row and paste it in)

<table>
<thead>
<tr>
<th>Constituent materials/components</th>
<th>Constituent substances</th>
<th>Weight % or g</th>
<th>EG no/ CAS no (or alloy)</th>
<th>Classification</th>
<th>Comments</th>
</tr>
</thead>
</table>

**At the time of delivery,** the product comprises the following parts/components, with the chemical composition stated:

*Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.*
### Surface treatment
- Based on natural oils and hardwax finish
- \(<0.1\%\)
- \(\text{n/a}\)
- \(\text{n/a}\)

### Surface layer
- Chemically untreated wood surface
- \(\approx 30\%\)
- \(\text{n/a}\)
- \(\text{n/a}\)

### Middle layer
- Chemically untreated wood in the form of lamellas of pine (principally) and spruce. Birch plywood on each end made of FSC certified wood.
- \(\approx 57\%\)
- \(\text{n/a}\)
- \(\text{n/a}\)

### Bottom layer
- Chemically untreated spruce veneer
- Adhesive 1271 UF In accordance with Regulation (EC) No. 1907/2006 (REACH)
- \(\approx 9\%\)
- \(\text{n/a}\)
- \(\text{n/a}\)

### Glue
- Filler
- \(\approx 0.1\%\)
- \(\text{n/a}\)
- \(\text{n/a}\)

### Other components

Other information:
- If the chemical composition of the product after it is built in differs from that at the time of delivery, the content of the finished built in product should be given here. If the content is unchanged, no data need be given in the following table.

<table>
<thead>
<tr>
<th>Constituent materials/components</th>
<th>Constituent substances</th>
<th>Weight % or g</th>
<th>EG no/ CAS no (or alloy)</th>
<th>Classification</th>
<th>Comments</th>
</tr>
</thead>
</table>

Other information:

#### 5 Production phase

**Resource utilisation and environmental impact during production of the item is reported in one of the following ways:**
- 1) Inflows (goods, intermediate goods, energy etc) for the registered product into the manufacturing unit, and the outflows (emissions and residual products) from it, i.e. from “gate-to-gate”.
- ✗ 2) All inflows and outflows from the extraction of raw materials to finished products i.e. “cradle-to-gate”.
- 3) Other limitation. State what:

The report relates to unit of product:
- □ Reported product
- □ The product’s product group
- ✗ The product’s production unit

Indicate **raw materials and intermediate goods** used in the manufacture of the product:
- □ Not relevant

<table>
<thead>
<tr>
<th>Raw material/intermediate goods</th>
<th>Quantity and unit</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardwood</td>
<td>(\approx 2500 \text{ g/m2})</td>
<td></td>
</tr>
<tr>
<td>Softwood middle and veneer</td>
<td>(\approx 4800 \text{ g/m2})</td>
<td></td>
</tr>
<tr>
<td>Glue</td>
<td>(\approx 280 \text{ g/m2})</td>
<td></td>
</tr>
<tr>
<td>Oil</td>
<td>(\approx 11 \text{ g/m2})</td>
<td></td>
</tr>
</tbody>
</table>

Indicate **recycled materials** used in the manufacture of the product:
- □ Not relevant

<table>
<thead>
<tr>
<th>Type of material</th>
<th>Quantity and unit</th>
<th>Comments</th>
</tr>
</thead>
</table>

Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.
Enter the **energy** used in the manufacture of the product or its component parts  □ Not relevant

<table>
<thead>
<tr>
<th>Type of energy</th>
<th>Quantity and unit</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>sustainable hydropower electricity</td>
<td>≈8,5 kWh/m²</td>
<td>nybro factory site</td>
</tr>
<tr>
<td>biofuel heat energy, wood byproduct</td>
<td>≈10 kWh/m²</td>
<td>nybro factory site</td>
</tr>
</tbody>
</table>

Enter the **transportation** used in the manufacture of the product or its component parts  □ Not relevant

<table>
<thead>
<tr>
<th>Type of transportation</th>
<th>Proportion %</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>transport trucks</td>
<td>≈23%</td>
<td></td>
</tr>
<tr>
<td>container ships</td>
<td>≈76%</td>
<td></td>
</tr>
<tr>
<td>railway</td>
<td>≈1%</td>
<td></td>
</tr>
</tbody>
</table>

Enter the **emissions to air, water or soil** from the manufacture of the product or its component parts  □ Not relevant

<table>
<thead>
<tr>
<th>Type of emission</th>
<th>Quantity and unit</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td>≈0,7 g/m²</td>
<td></td>
</tr>
<tr>
<td>dust - collected</td>
<td>≈0,7 g/m²</td>
<td></td>
</tr>
</tbody>
</table>

Enter the **residual products** from the manufacture of the product or its component parts  □ Not relevant

<table>
<thead>
<tr>
<th>Residual product</th>
<th>Waste code</th>
<th>Quantity</th>
<th>Proportion recycled</th>
<th>Material recycled %</th>
<th>Energy recycled %</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>paper waster, plastic, metal</td>
<td>215 ton</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mixed waste hazardous waste/incinerated</td>
<td>160 ton</td>
<td>0%</td>
<td>0% 0% 30%</td>
<td>96%</td>
<td></td>
<td>4% to landfill estimated energy generated</td>
</tr>
<tr>
<td>mixed waste hazardous waste/incinerated</td>
<td>160 ton</td>
<td>0%</td>
<td>0% 30%</td>
<td>96%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Is there a description of the data accuracy for the manufacturing data?  □ Yes  □ No
If “yes”, please specify:
Kährs audited EMAS report, found at Kahrs.com

Other information: EMAS - eco management audit scheme, EU enviromental supported reporting, audited by DNV

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**6 Distribution of finished product**

Does the supplier put into practice a system for returning load carriers for the product?  □ Not relevant  □ Yes  □ No

Does the supplier put into practice any systems involving multi-use packaging for the product?  □ Not relevant  □ Yes  □ No

Does the supplier take back packaging for the product?  □ Not relevant  □ Yes  □ No

Is the supplier affiliated to REPA?  □ Not relevant  □ Yes  □ No

Other information: REPA today is Green Dot, we are a part of this organization

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**7 Construction phase**

Are there any special requirements for the product during storage?  □ Not relevant  □ Yes  □ No
If “yes”, please specify: read instructions

Are there any special requirements for adjacent building products because of this product?  □ Not relevant  □ Yes  □ No
If “yes”, please specify: read instructions

Other information: To avoid damage it is important that the relative humidity (RH) during and after installation is below 60%. During the floor flatness and humidity should be known, any unevenness should be leveled and moisture protection is used. kährs.com

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*Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.*
8 Usage phase

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
<th>If “yes”, please specify:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does the product have any special requirements for intermediate goods regarding operation and maintenance?</td>
<td>☒</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Does the product have any special energy supply requirements for operation?</td>
<td>☐</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Estimated technical service life for the product is to be entered according to one of the following options, a) or b):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Reference service life estimated as being approx.</td>
<td>☐ 5 years</td>
<td>☐ 10 years</td>
<td>☒ 15 years</td>
</tr>
<tr>
<td>b) Reference service life estimated to be in the interval of</td>
<td>years</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other information: Read the installation instructions, use floor care products in Kährs instructions.

9 Demolition

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Not relevant</th>
<th>Yes</th>
<th>No</th>
<th>If “yes”, please specify:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the product ready for disassembly (taking apart)?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Does the product require any special measures to protect health and environment during demolition/disassembly?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
<td></td>
</tr>
</tbody>
</table>

Other information:

10 Waste management

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Not relevant</th>
<th>Yes</th>
<th>No</th>
<th>If “yes”, please specify:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is it possible to re-use all or parts of the product?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Is it possible to recycle materials for all or parts of the product?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Is it possible to recycle energy for all or parts of the product?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Does the supplier have any restrictions and recommendations for re-use, materials or energy recycling or waste disposal?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
<td></td>
</tr>
</tbody>
</table>

Enter the waste code for the supplied product 170201 EU

<table>
<thead>
<tr>
<th>Is the supplied product classed as hazardous waste?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

If the chemical composition of the product differs after having been built in from that which it had at the time of delivery, meaning that another waste code is given to the finished built in product, then this should be entered here. If it is unchanged, the following details can be omitted.

Enter the waste code for the built in product

| Is the built in product classed as hazardous waste? | Yes | ☒ | No |

Other information:

11 Indoor environment (To add a new green row, select and copy an entire empty row and paste it in)

<table>
<thead>
<tr>
<th>Type of emission</th>
<th>Quantity [µg/m²h] or [mg/m³h]</th>
<th>Method of measurement</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOC</td>
<td>28 days: 0.086 mg/m³³</td>
<td>TVOC measured with Tenax sampling and subsequent thermodesorption</td>
<td></td>
</tr>
</tbody>
</table>

Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.
<table>
<thead>
<tr>
<th>Requirements</th>
<th>Value</th>
<th>Unit</th>
<th>Method of measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>14 days: 0.01 mg/m³ air</td>
<td>717-1</td>
<td>and analysis by GC/MSD DIN ISO 16000-6.</td>
</tr>
</tbody>
</table>

Can the product itself give rise to any noise?  
☐ Not relevant  ☑ Yes  ☒ No

Can the product give rise to electrical fields?  
☐ Not relevant  ☑ Yes  ☒ No

Can the product give rise to magnetic fields?  
☐ Not relevant  ☐ Yes  ☑ No

Other information: Chamber method, formaldehyde chamber method, protocol 2013-04-23

References

Appendices