

# Environmental Product Declaration

 **EPD**  
INTERNATIONAL EPD SYSTEM



In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

## ***Rewind Contract - 900***

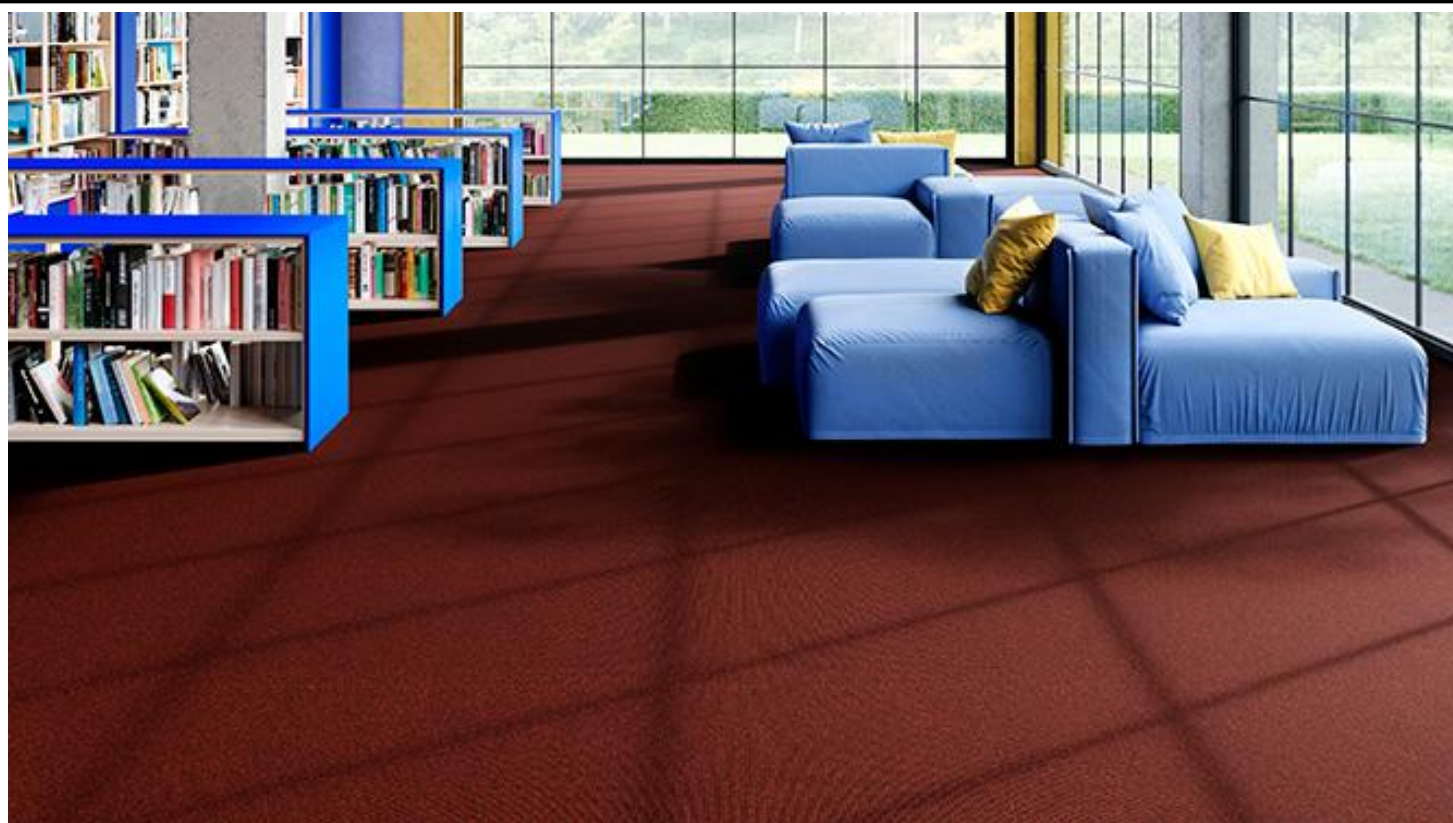
from

***BFS Europe NV***



|                          |                                                                                                                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Programme:               | The International EPD System, <a href="http://www.environdec.com">www.environdec.com</a>                                                                                                                                     |
| Programme operator:      | EPD International AB                                                                                                                                                                                                         |
| Type of EPD:             | EPD of multiple products from a company, based on a representative product<br>Products included: all colours of Rewind 900 BRL, Rewind 900 Dilour, Rewind 900 Flat, Rewind 900 Rib AXA, Rewind 900 Rib MC, Rewind 900 Rib SC |
| EPD registration number: | EPD-IES-0031734:001                                                                                                                                                                                                          |
| Version date:            | 2026-05-06                                                                                                                                                                                                                   |
| Validity date:           | 2031-05-05                                                                                                                                                                                                                   |

*An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see [www.environdec.com](http://www.environdec.com)*



## GENERAL INFORMATION

| Programme Information |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <b>Programme:</b>     | The International EPD® System                                       |
| <b>Address:</b>       | EPD International AB<br>Box 210 60<br>SE-100 31 Stockholm<br>Sweden |
| <b>Website:</b>       | <a href="http://www.environdec.com">www.environdec.com</a>          |
| <b>E-mail:</b>        | <a href="mailto:support@environdec.com">support@environdec.com</a>  |

| Product Category Rules (PCR)                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CEN standard EN 15804 serves as the Core Product Category Rules (PCR)</b>                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Product Category Rules (PCR):</b> 2019:14: Construction products version (EN 15804+A2) 2.0.1                                                                                                                                                                                                                                                                                                                                                      |
| <b>PCR review was conducted by:</b> The Technical Committee of the International EPD System. See <a href="http://www.environdec.com">www.environdec.com</a> for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat <a href="http://www.environdec.com/support">www.environdec.com/support</a> .<br>UN CPC code: 272 Carpets and other textile floor coverings. |
| <b>c-PCR:</b> 2019:14-c-PCR-004 - Resilient, textile and laminate floor coverings (EN 16810:2017) 1.0.0                                                                                                                                                                                                                                                                                                                                              |

| Third-party Verification                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:                                                                                                                     |
| <input checked="" type="checkbox"/> <b>Individual EPD verification without a pre-verified LCA/EPD tool</b><br>Third-party verifier: Matt Fishwick (Fishwick Environmental Ltd)<br>Approved by: International EPD System |
| Procedure for follow-up of data during EPD validity involves third party verifier:                                                                                                                                      |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                     |

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs of floor covering products may not be comparable if they do not comply with EN 16801:2017.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

## INFORMATION ABOUT EPD OWNER

Owner of the EPD: BFS Europe NV.

Address of EPD owner: Groenedreef 15a, 9770 Kruisem – Belgium.

Contact of EPD owner: Seppe Van Loo, [seppe.van.loo@bintg.com](mailto:seppe.van.loo@bintg.com).

Address and contact information of the LCA practitioner commissioned by the EPD owner: Seppe Van Loo.

Description of the organisation:

BFS Europe, a business unit of Beaulieu International Group, specializes in the production of needle felt carpet. Beaulieu Needle Felt is a world leader in needle felt solutions, trusted globally for our quality and reliability. We specialize in durable, versatile floor coverings that meet the highest standards across a wide range of applications, from events and exhibitions to contract and residential spaces.

Our success is built on a commitment to excellence, continuous innovation, and a strong customer focus. As one of our most successful innovations, our product Rewind Contract represents our vision for the future.

Product-related or management system-related certifications:

BFS Europe operates under ISO 9001 (Quality Management System), ISO 14001 (Environmental Management System) and ISO 45001 (Occupational Health and Safety) certified management systems.

## PRODUCT INFORMATION

Product name: Rewind Contract – 900 product group.

Product identification: Rewind Contract is a needle felt carpet made of 100% Polypropylene (PP) fibre blend with a weight of approximately 900 g/m<sup>2</sup>. This Environmental Product Declaration (EPD) covers multiple products, namely all colours of Rewind 900 BRL, Rewind 900 Dilour, Rewind 900 Flat, Rewind 900 Rib AXA, Rewind 900 Rib MC, and Rewind 900 Rib SC.

This EPD is based on a representative product. The selected representative product is Rewind 900 Dilour. The representative product has been selected as it is considered representative for the product group in terms of composition, production process, and environmental impact. In addition, this product represents the highest sales volume / most common specification within the group, and therefore provides a conservative and realistic basis for the assessment.

Visual representation of the product:



UN CPC code: 272 - Carpets and other textile floor coverings.

Product description:

Rewind Contract is a durable needle felt carpet designed for long-term use in commercial environments such as offices, public buildings, schools and healthcare facilities. These spaces often require comfortable, functional and aesthetically pleasing flooring that can withstand intensive daily use. Rewind Contract provides a soft walking experience, improves acoustic performance, and contributes to a more sustainable interior design thanks to its fully recyclable composition. Rewind Contract is suitable for installation in interior, dry conditions. It is not intended for outdoor use or areas permanently exposed to the weather. Installation and use shall follow the manufacturer's instructions to ensure optimal performance and durability.

The manufacturing process consists of fibre preparation, needle-punching to form the carpet structure, and thermal consolidation. The product is designed with only one material, supporting the recycling of the material at end of life.

Technical lifespan: The expected technical service life of Rewind Contract is 5 years under normal use conditions in commercial environments, assuming proper installation, use and maintenance.

Technical data:

| Characteristics        | Unit                 |
|------------------------|----------------------|
| Type of manufacture    | Needle felt carpet   |
| Pile fibre composition | 100% Polypropylene   |
| Total thickness        | 8,6 mm               |
| Total carpet mass      | 900 g/m <sup>2</sup> |

Name and location of production sites: BFS's needle felt production sites in Oostrozebeke and Kruisem, Belgium.

Website for further details: <https://www.beaulieu-needlefelt.com/en/rewind/rewind-contract>

## CONTENT DECLARATION

This EPD covers multiple products within the product family. The content declaration below refers to the representative product selected for this EPD (Rewind 900 Dilour). This representative product reflects the average composition and properties of the product group as defined in the PCR.

The mass (weight) of one unit of a product, per declared unit: 900 g/m<sup>2</sup> for the representative product.

Information on the environmental and hazardous/toxic properties of a substances contained in the product: To the best of our knowledge, no substance included in the Candidate List of Substances of Very High Concern (SVHC) for authorization under the REACH Regulations is present in the products covered by this LCA and EPD either above the threshold for registration with the European Chemicals Agency or above 0,1% (wt/wt). Under normal storage and use conditions, the product can be handled with no particular precautions or special protective equipment.

| Product content | Mass, kg, per declared unit | Post-consumer recycled material, mass-% of declared unit | Biogenic material, mass-% of declared unit | Biogenic material, kg C/ declared unit |
|-----------------|-----------------------------|----------------------------------------------------------|--------------------------------------------|----------------------------------------|
| Polypropylene   | 0,900                       | 0                                                        | 0                                          | 0                                      |
| TOTAL           | 0,900                       | 0                                                        | 0                                          | 0                                      |

| Packaging materials         | Mass, kg, per declared unit | Mass-% (versus the product) | Biogenic material, kg C/declared unit |
|-----------------------------|-----------------------------|-----------------------------|---------------------------------------|
| Cardboard tube              | 0,0288                      | 3,12                        | 0,0135                                |
| Polyethylene packaging foil | 0,0057                      | 0,62                        | 0                                     |
| HDPE Plug                   | 0,0011                      | 0,12                        | 0                                     |
| TOTAL                       | 0,0356                      | 3,86                        | 0,0135                                |

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO<sub>2</sub>.

## LCA INFORMATION

Functional unit: 1 m<sup>2</sup> of installed floorcovering (Rewind Contract - 900) with a approx. weight of 900 g/m<sup>2</sup>, 1 year of use (RSL), produced by BFS.

Reference service life: In accordance with EN 16810:2017, the reference service life (RSL) is set to 1 year. The environmental impacts are therefore declared per m<sup>2</sup> of installed flooring per year of use, in line with the declared unit. The assessment includes relevant use stage parameters as described in Table 15 of EN 16810:2017, including cleaning, maintenance, and replacement assumptions where applicable.

- Declared product properties: according to EN 1307 user class 33 for Rewind 900 Flat, user class 32 for the rest of the Rewind Contract - 900 collection.
- Only normal indoor use of Rewind Contract – 900.
- The carpet must be properly installed by a professional fitter in accordance with CEN/TS 14472-2 (no do-it-yourself).

Time representativeness: The temporal scope for primary data collection spans the period from January to December 2024. All data used for Rewind Contract (UB900) reflects the actual production conditions and technologies in place during this time frame at the aforementioned locations.

Geographical scope: The geographical scope of this study covers the production of Rewind Contract (UB900) at BFS's needle felt production facilities, which are located partially at the Kruisem site and partially at the Oostrozebeke site in Belgium, using raw materials from Europe. The use (module B) and end-of-life (module C) of the product's performance been modelled to represent Europe.

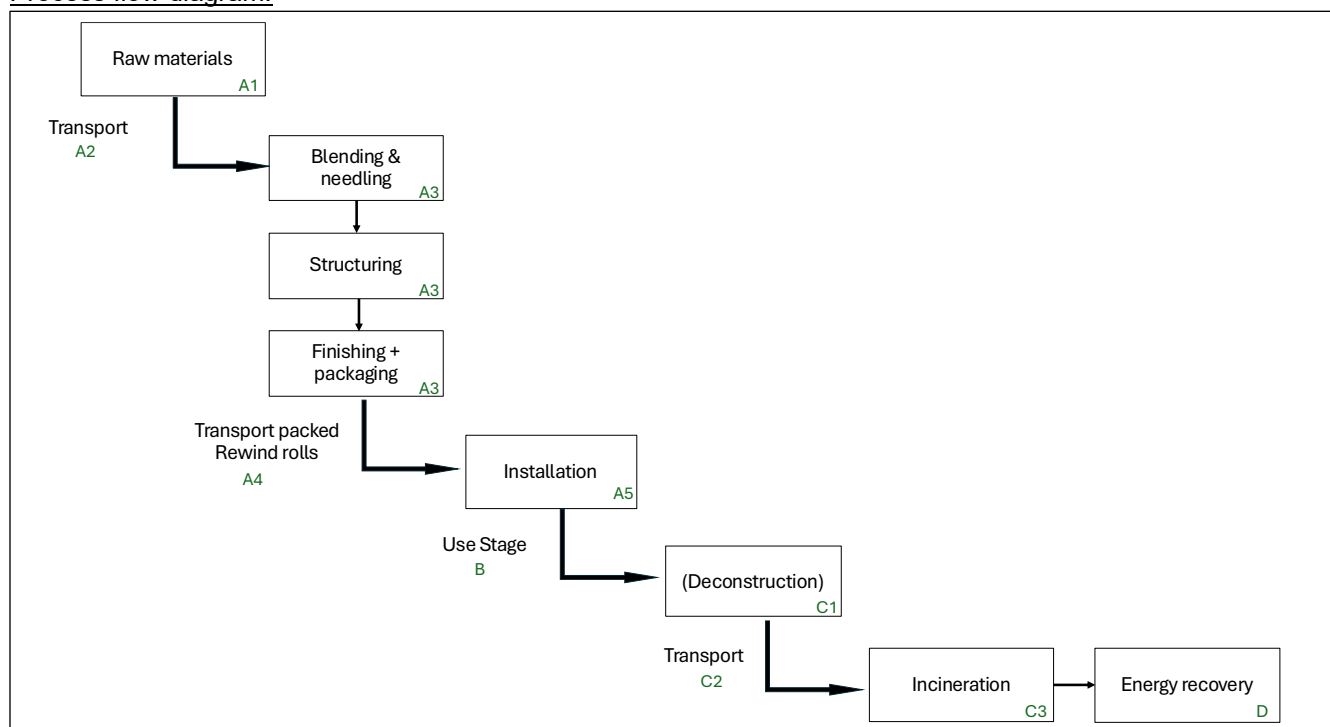
Databases and LCA software used:

Sphera LCA for Experts version 10.9.1.17 and database version 2025.1.

Description of system boundaries:

Cradle to grave and module D (A + B + C + D). The system boundaries cover the production of the carpet, from raw material resources to packaged roll (modules A1-A3), the transport of Rewind Contract to the customer and its installation (modules A4-A5), the use-stage (only maintenance B2 declared) the de-installation, the transport to a processing plant and the end of life treatment of Rewind Contract (module C1-C4) and finally the energy recovery potential of Rewind Contract (module D).

### Process flow diagram:



No recycled materials are used as input in the production process. All raw materials (A1) are virgin materials and are considered products upon entering the system boundary. Therefore, no end-of-waste state is applicable for input material flows. At the end-of-life stage, the carpet is assumed to be fully treated by incineration with energy recovery (C3). As no recycling or material recovery takes place, no end-of-waste state is reached. Packaging materials are treated separately and reach the end-of-waste state at the processing facility. Energy recovered during incineration is accounted for in module D.

### More information:

#### Product stage (A1–A3)

This module takes into account the extraction and processing of all raw materials and energy, the transportation to the production site, and manufacturing of the carpet. For the PP fibres, which are the main raw material of the carpet, supplier-specific data were used in the form of a published EPD (S-P-09689). The production of other raw and auxiliary materials (e.g. spin finish, packaging) is based on secondary data.

Manufacturing consists of fibre opening and needling, optional structuring, finishing and packaging. The specific electricity mix of the manufacturing site was considered. Waste fibres generated during production and carpet trim are sent to external recycling. Manufacturing of packaging materials (cardboard tube, polyethylene packaging foil and HDPE plugs) is included in this module.

#### Construction process stage (A4–A5)

##### A4 – Transport to the building site

A default distance of 900 km from the manufacturing site to the customer is considered, representing typical European distribution.

Transport to the building site is modelled using a Global Euro 3 diesel truck with a gross vehicle weight of more than 32 tons and a payload capacity of approximately 24,7 t. It is expected the Euro-type will be higher, but a conservative approach was chosen. An average load factor of 33% (including empty returns) is assumed (8500 sqm in 1 truck) with a bulk density of 90 kg/m<sup>3</sup>.

#### A5 – Construction installation

During installation, the carpet is fixed to the subfloor using a water-based tackifier. The tackifier remains on the subfloor after carpet removal and is therefore not part of the carpet waste stream. For installation losses occur during cutting and fitting a loss factor of 7% is applied, meaning 1,07 m<sup>2</sup> of carpet is required per 1 m<sup>2</sup> installed. This assumption reflects typical installation waste rates for textile floor coverings (commonly reported in the range of 2–10% in industry EPDs and practice). The applied 7% is therefore considered a conservative average value depending on room geometry and installation conditions. The environmental impacts related to installation waste (upstream production and transportation [A1-A4] and waste treatment) are included in module A5.

Packaging waste generated during installation is assumed to be treated according to European waste management practice (recycling of cardboard and HDPE; mixed recycling/incineration for PE film). Carpet installation waste is assumed to be collected separately and incinerated with energy recovery. The impact of minor equipment used during installation is negligible. No significant energy or water consumption is required during installation, and no material direct emissions to air are considered.

#### **Use stage (B1–B7)**

EN 16810 requires that use classes from EN ISO 10874 form the basis for determining use conditions and service life scenarios. Therefore, Rewind Contract - 900 EN ISO 10874 classification (Class 32) is used as the reference for RSL modelling and use-stage assumptions.

Maintenance assumptions are based on typical use scenarios for textile floor coverings as described in EN 16810 and commonly applied in EN 15804-compliant EPDs for carpets. Weekly vacuuming and annual deep cleaning represent standard European facility management practice for commercial carpet applications.

Only the use stage B2 (maintenance) is relevant for carpets, as per EN16810:217. The Reference Service Life (RSL) of the carpet is assumed to be 1 year for the purpose of the modelling scenario. The carpet is assumed to be vacuumed weekly and deep-cleaned once a year. The energy consumption for vacuum cleaning is assumed to be 0,1352 kWh/m<sup>2</sup> per cleaning cycle, based on LCA background data for commercial vacuum cleaning processes used in previous projects. Deep cleaning once per year includes water and cleaning agents according to typical European carpet maintenance practice. The carpet will not be replaced at the end of its service.

#### **End of life stage (C1–C4)**

##### C1 – De-construction demolition

The floor covering is de-constructed manually; no additional environmental impact is considered.

##### C2 – Transport

The distance for transport to incineration with energy recovery is 300 km, based on the location of the incineration plants that are nearly always within this radius.

##### C3 – Waste processing

At end-of-life, the carpet is assumed to be collected together with mixed construction waste.

Although Rewind is designed to be recycled, unfortunately in practice it is not always recycled yet. An incineration scenario is hence modelled as basecase, considering waste-to-energy.

#### C4 – Disposal

The product is not modelled as being landfilled; therefore C4 is not applicable.

#### **Resource recovery stage (D)**

Module D is calculated using an open-loop substitution approach in accordance with EN 15804 and PCR 2019:14, where secondary materials or recovered energy substitute equivalent primary products beyond the system boundary. Module D includes benefits from the electricity and heat generated during waste incineration of the carpet. The carpet is assumed to be collected with mixed construction waste and transported 300 km to a municipal solid waste incineration plant with energy recovery. Incineration is modelled with combined electricity and heat recovery typical for European waste-to-energy plants (overall energy recovery efficiency > 60 %). All burdens are assigned to module C3. Module D includes substitution benefits from exported electricity and thermal energy replacing average European electricity and steam production. An open-loop allocation factor of 1,0 is applied. Module D credits are calculated from the physical output flows at end-of-life in accordance with EN 15804+A2 and PCR 2019:14: recovered electricity and heat; no material output. Energy credits are based on substitution of average European electricity and thermal energy mixes.

#### **Cut-off criteria**

All inputs and outputs expected to contribute 1% or more to the total mass or energy flow of the representative product have been included in the EPD. In total, the sum of omitted flows does not exceed 5% of the total mass, energy, or environmental impact, in accordance with the relevant PCR requirements.

#### **General exclusions**

The following processes are excluded from the system boundaries as they are not expected to contribute significantly to the environmental impacts of the product system:

- Business travel of employees
- Employee commuting
- Administrative activities (office work, ICT, marketing, sales, finance)
- Downstream human activities not directly related to product manufacturing or use
- Third-party overhead processes with negligible environmental relevance

These exclusions are consistent with the PCR, as they do not materially influence the results.

#### **Infrastructure inclusion/exclusion**

##### *Foreground system*

Foreground infrastructure (e.g., buildings, production halls, machinery) is excluded. This exclusion is justified because infrastructure impacts are typically small relative to the product system and fall below cut-off thresholds.

##### *Background system*

Infrastructure related to background processes (e.g., electricity generation, raw material production) is included, because such infrastructure models are embedded within the background datasets of the Sphera LCA database and cannot be removed or disaggregated.

### **A3 electricity mix**

The electricity mix used in the manufacturing process in A3, is based on the residual mix for Belgium from AIB and the electricity coming from onsite generation via solar panels. 5,1% is coming from the onsite generation. This results in a climate impact of 0,137 kg CO<sub>2</sub> eq./kWh.

| Electricity mix                            |        |
|--------------------------------------------|--------|
| Electricity from hard coal                 | 3,77%  |
| Electricity from heavy fuel oil            | 0,01%  |
| Electricity from natural gas               | 23,05% |
| Electricity from nuclear                   | 52,09% |
| Electricity from biomass                   | 1,11%  |
| Electricity from solar                     | 16,88% |
| Electricity from wind                      | 2,51%  |
| Electricity from hydro                     | 0,58%  |
| Emission factor (kg CO <sub>2</sub> e/kWh) | 0,137  |

### **Data quality assessment**

All relevant data to ensure the goal and scope of this study are available and complete. The data used for this EPD study is primary data from BFS's needle felt production plants in Kruisem and Oostrozebeke, where Rewind Contract is produced. The primary data used for the assessment of the foreground system refer to the year 2024. The background data is up to date and sufficient for the goal and scope of the study.

A detailed data quality assessment has been performed in the background report, including an evaluation of technological, geographical and temporal representativeness, as well as precision, in line with EN 15804+A2 requirements.

- **Technological representativeness:**

All datasets are rated as *good* to *very good*, with only a limited number rated as *fair*. These cases relate to proxy datasets (e.g. lubricants), where no exact match is available. The impact of these datasets is negligible (below 0,1% of total environmental impact) and therefore does not materially influence the results.

- **Geographical representativeness:**

The majority of datasets are representative for Belgium or Europe (RER). In cases where datasets from other countries (e.g. Germany) are used due to lack of Belgian data, the selected datasets are considered conservative and suitable proxies. All datasets are rated *fair* or better.

- **Temporal representativeness:**

Primary data refer to 2024, and all background datasets are within the required time validity ( ≤10 years for generic data, ≤5 years for specific data). Most datasets are rated *very good* in terms of temporal representativeness.

No datasets with low data quality (i.e. "poor" or "very poor") were used in the study. Datasets rated as "fair" have been justified and shown to have no significant influence on the overall results.

The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories.

| Process                                                   | Source type    | Source               | Reference year | Data category                | Share of primary data, of GWP-GHG results for A1-A3 |
|-----------------------------------------------------------|----------------|----------------------|----------------|------------------------------|-----------------------------------------------------|
| Production PP fibres                                      | EPD            | EPD Fibres S-P-09689 | 2023           | Primary data, secondary data | 61,6%                                               |
| Manufacturing: Bale opening - Mixing - Needling           | Collected data | EPD owner            | 2024           | Primary data                 | 4,2%                                                |
| Manufacturing: Thermoconsolidation Fibroline Orotex       | Collected data | EPD owner            | 2024           | Primary data                 | 6,8%                                                |
| Total share of primary data, of GWP-GHG results for A1-A3 |                |                      |                |                              | 73%                                                 |

Modules declared, geographical scope, share of primary data (in GWP-GHG results) and data variation (in GWP-GHG results):

|                       | Product stage       |           |               | Distribution/<br>installation stage |                           | Use stage |             |        |             |               |                        |                       | End-of-life stage          |           |                  |          | Beyond product life cycle          |
|-----------------------|---------------------|-----------|---------------|-------------------------------------|---------------------------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|------------------------------------|
|                       | Raw material supply | Transport | Manufacturing | Transport                           | Construction installation | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-potential |
| Module                | A1                  | A2        | A3            | A4                                  | A5                        | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                                  |
| Modules declared      | X                   | X         | X             | X                                   | X                         | X         | X           | X      | X           | X             | X                      | X                     | X                          | X         | X                | X        | X                                  |
| Geography             | BE/<br>EU27         | BE        | BE            | EU 27                               | EU 27                     | EU 27     | EU 27       | EU 27  | EU 27       | EU 27         | EU 27                  | EU 27                 | EU 27                      | EU 27     | EU 27            | EU 27    | EU 27                              |
| Share of primary data | 73%                 |           |               | -                                   | -                         | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |
| Variation – products  | 0%                  |           |               | -                                   | -                         | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |
| Variation – sites     | N/A <sup>1</sup>    |           |               | -                                   | -                         | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                  |

<sup>1</sup> The two sites are not making identical products, rather they are both involved in the production process of products included in this EPD.

## ENVIRONMENTAL PERFORMANCE

### LCA results of the products - main environmental performance results

The following tables provide the environmental performance results for Rewind Contract – 900, expressed per 1 m<sup>2</sup> of installed floorcovering. The results are calculated according to EN 15804+A2 and include all mandatory impact categories across the full life cycle. Negative values in module D represent potential benefits and/or credits beyond the system boundary.

#### Mandatory impact category indicators according to EN 15804

| Results per 1 m <sup>2</sup> of installed floorcovering (Rewind Contract - 900) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |          |          |           |          |          |          |          |          |           |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|
| Indicator                                                                       | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1-A3     | A4       | A5       | B1, B3-B7 | B2       | C1       | C2       | C3       | C4       | D         |
| GWP-total                                                                       | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,77E+00  | 1,50E-01 | 6,70E-01 | 0,00E+00  | 6,91E-02 | 0,00E+00 | 2,59E-02 | 2,89E+00 | 0,00E+00 | -1,31E+00 |
| GWP-fossil                                                                      | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,81E+00  | 1,48E-01 | 6,22E-01 | 0,00E+00  | 5,58E-02 | 0,00E+00 | 2,56E-02 | 2,89E+00 | 0,00E+00 | -1,30E+00 |
| GWP-biogenic                                                                    | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -3,54E-02 | 0,00E+00 | 4,79E-02 | 0,00E+00  | 0,00E+00 | 0,00E+00 | 4,84E-05 | 8,69E-05 | 0,00E+00 | 0,00E+00  |
| GWP-luluc                                                                       | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5,33E-04  | 1,57E-03 | 4,58E-04 | 0,00E+00  | 1,33E-02 | 0,00E+00 | 2,72E-04 | 2,44E-05 | 0,00E+00 | -1,91E-03 |
| ODP                                                                             | kg CFC 11 eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7,27E-11  | 2,54E-14 | 2,57E-12 | 0,00E+00  | 1,01E-12 | 0,00E+00 | 4,39E-15 | 1,61E-13 | 0,00E+00 | -1,24E-11 |
| AP                                                                              | mol H <sup>+</sup> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,43E-03  | 1,27E-03 | 8,76E-04 | 0,00E+00  | 1,67E-04 | 0,00E+00 | 2,20E-04 | 2,90E-04 | 0,00E+00 | -2,32E-03 |
| EP-freshwater                                                                   | kg P eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2,07E-06  | 4,12E-07 | 1,04E-06 | 0,00E+00  | 3,49E-07 | 0,00E+00 | 7,13E-08 | 1,96E-08 | 0,00E+00 | -2,19E-06 |
| EP-marine                                                                       | kg N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4,45E-04  | 6,38E-04 | 2,57E-04 | 0,00E+00  | 4,29E-05 | 0,00E+00 | 1,11E-04 | 6,24E-05 | 0,00E+00 | -6,63E-04 |
| EP-terrestrial                                                                  | mol N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4,66E-03  | 6,94E-03 | 2,83E-03 | 0,00E+00  | 5,63E-04 | 0,00E+00 | 1,21E-03 | 1,37E-03 | 0,00E+00 | -7,43E-03 |
| POCP                                                                            | kg NMVOC eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1,44E-03  | 1,20E-03 | 9,10E-04 | 0,00E+00  | 1,26E-04 | 0,00E+00 | 2,07E-04 | 1,85E-04 | 0,00E+00 | -1,72E-03 |
| ADP-minerals&metals*                                                            | kg Sb eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9,02E-07  | 1,02E-08 | 2,79E-05 | 0,00E+00  | 6,23E-08 | 0,00E+00 | 1,76E-09 | 1,82E-09 | 0,00E+00 | -1,36E-07 |
| ADP-fossil*                                                                     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3,36E+01  | 1,96E+00 | 1,53E+01 | 0,00E+00  | 1,15E+00 | 0,00E+00 | 3,39E-01 | 3,39E-01 | 0,00E+00 | -2,14E+01 |
| WDP*                                                                            | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3,48E-02  | 7,00E-04 | 1,93E-02 | 0,00E+00  | 1,00E-01 | 0,00E+00 | 1,21E-04 | 2,66E-01 | 0,00E+00 | -1,40E-01 |
| Acronyms                                                                        | GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption |           |          |          |           |          |          |          |          |          |           |

\* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

## Additional mandatory and voluntary impact category indicators

### Results per 1 m<sup>2</sup> of installed floorcovering (Rewind Contract - 900)

| Indicator              | Unit                                                                                                                                                                                                                                                                                                                                                                             | A1-A3    | A4       | A5       | B1, B3-B7 | B2       | C1       | C2       | C3       | C4       | D             |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|---------------|
| GWP - GHG <sup>2</sup> | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                           | 1,81E+00 | 1,50E-01 | 6,23E-01 | 0,00E+00  | 6,91E-02 | 0,00E+00 | 2,59E-02 | 2,89E+00 | 0,00E+00 | -<br>1,31E+00 |
| PM                     | Disease incidences                                                                                                                                                                                                                                                                                                                                                               | 1,32E-08 | 9,70E-09 | 7,75E-09 | 0,00E+00  | 1,77E-09 | 0,00E+00 | 1,58E-09 | 1,70E-09 | 0,00E+00 | -1,84E-08     |
| IRP                    | kBq U235 eq.                                                                                                                                                                                                                                                                                                                                                                     | 2,34E-01 | 5,31E-04 | 1,69E-02 | 0,00E+00  | 2,35E-02 | 0,00E+00 | 9,19E-05 | 3,11E-03 | 0,00E+00 | -2,88E-01     |
| ETP-fw                 | CTUe                                                                                                                                                                                                                                                                                                                                                                             | 1,25E+01 | 2,55E+00 | 9,05E+00 | 0,00E+00  | 2,90E-01 | 0,00E+00 | 4,41E-01 | 1,25E-01 | 0,00E+00 | -<br>4,07E+00 |
| HTP-c                  | CTUh                                                                                                                                                                                                                                                                                                                                                                             | 4,63E-10 | 3,46E-11 | 1,59E-10 | 0,00E+00  | 1,84E-11 | 0,00E+00 | 5,98E-12 | 1,84E-11 | 0,00E+00 | -2,86E-10     |
| HTP-nc                 | CTUh                                                                                                                                                                                                                                                                                                                                                                             | 2,13E-08 | 1,93E-09 | 3,04E-09 | 0,00E+00  | 4,69E-10 | 0,00E+00 | 3,33E-10 | 8,48E-11 | 0,00E+00 | -6,94E-09     |
| SQP                    | Pt                                                                                                                                                                                                                                                                                                                                                                               | 2,82E+00 | 8,67E-01 | 9,23E-01 | 0,00E+00  | 2,86E+00 | 0,00E+00 | 1,50E-01 | 1,06E-01 | 0,00E+00 | -<br>1,37E+01 |
| Acronyms               | GWP-GHG = Global Warming Potential –Greenhouse Gas; PM = Potential incidence of disease due to PM emissions; IRP = Potential Human exposure efficiency relative to U235; ETP-fw = Potential Comparative Toxic Unit for ecosystems; HTP-c = Potential Comparative Toxic Unit for humans; HTP-nc = Potential Comparative Toxic Unit for humans; SQP = Potential soil quality index |          |          |          |           |          |          |          |          |          |               |

## Resource use indicators

### Results per 1 m<sup>2</sup> of installed floorcovering (Rewind Contract - 900)

| Indicator | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1-A3    | A4       | A5        | B1, B3-B7 | B2       | C1       | C2       | C3       | C4       | D             |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-----------|-----------|----------|----------|----------|----------|----------|---------------|
| PERE      | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,42E+01 | 1,48E-01 | 1,20E+00  | 0,00E+00  | 9,02E-01 | 0,00E+00 | 2,55E-02 | 9,31E-02 | 0,00E+00 | -<br>9,47E+00 |
| PERM      | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4,32E-01 | 0,00E+00 | -4,32E-01 | 0,00E+00  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00      |
| PERT      | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,47E+01 | 1,48E-01 | 7,65E-01  | 0,00E+00  | 9,02E-01 | 0,00E+00 | 2,55E-02 | 9,31E-02 | 0,00E+00 | -<br>9,47E+00 |
| PENRE     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3,36E+01 | 1,96E+00 | 1,53E+01  | 0,00E+00  | 1,15E+00 | 0,00E+00 | 3,39E-01 | 3,39E-01 | 0,00E+00 | -<br>2,14E+01 |
| PENRM     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4,34E+01 | 0,00E+00 | -2,84E+00 | 0,00E+00  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 4,06E+01 | 0,00E+00 | 0,00E+00      |
| PENRT     | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7,70E+01 | 1,96E+00 | 1,25E+01  | 0,00E+00  | 1,15E+00 | 0,00E+00 | 3,39E-01 | 4,02E+01 | 0,00E+00 | -<br>2,14E+01 |
| SM        | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,70E-02 | 0,00E+00 | 1,89E-03  | 0,00E+00  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00      |
| RSF       | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00  | 0,00E+00  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00      |
| NRSF      | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,00E+00 | 0,00E+00 | 0,00E+00  | 0,00E+00  | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00      |
| FW        | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6,25E-03 | 7,30E-05 | 2,76E-03  | 0,00E+00  | 2,88E-03 | 0,00E+00 | 1,26E-05 | 6,24E-03 | 0,00E+00 | -6,20E-03     |
| Acronyms  | 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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water |          |          |           |           |          |          |          |          |          |               |

<sup>2</sup> The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

## Waste indicators

| Results per 1 m <sup>2</sup> of installed floorcovering (Rewind Contract - 900) |      |          |          |          |              |          |          |          |          |          |           |
|---------------------------------------------------------------------------------|------|----------|----------|----------|--------------|----------|----------|----------|----------|----------|-----------|
| Indicator                                                                       | Unit | A1-A3    | A4       | A5       | B1,<br>B3-B7 | B2       | C1       | C2       | C3       | C4       | D         |
| Hazardous waste disposed                                                        | kg   | 1,99E-08 | 7,86E-11 | 1,09E-08 | 0,00E+00     | 1,19E-09 | 0,00E+00 | 1,36E-11 | 1,85E-10 | 0,00E+00 | -1,47E-08 |
| Non-hazardous waste disposed                                                    | kg   | 2,85E-02 | 2,74E-04 | 1,42E-02 | 0,00E+00     | 1,48E-03 | 0,00E+00 | 4,73E-05 | 1,14E-02 | 0,00E+00 | -1,30E-02 |
| Radioactive waste disposed                                                      | kg   | 1,75E-03 | 3,70E-06 | 1,43E-04 | 0,00E+00     | 1,42E-04 | 0,00E+00 | 6,40E-07 | 1,95E-05 | 0,00E+00 | -1,75E-03 |

## Output flow indicators

| Results per 1 m <sup>2</sup> of installed floorcovering (Rewind Contract - 900) |      |          |          |          |              |          |          |          |          |          |          |
|---------------------------------------------------------------------------------|------|----------|----------|----------|--------------|----------|----------|----------|----------|----------|----------|
| Indicator                                                                       | Unit | A1-A3    | A4       | A5       | B1,<br>B3-B7 | B2       | C1       | C2       | C3       | C4       | D        |
| Components for re-use                                                           | kg   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00     | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Material for recycling                                                          | kg   | 7,33E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00     | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery                                                   | kg   | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00     | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity                                                    | MJ   | 0,00E+00 | 0,00E+00 | 4,31E-01 | 0,00E+00     | 0,00E+00 | 0,00E+00 | 0,00E+00 | 6,16E+00 | 0,00E+00 | 0,00E+00 |
| Exported energy, thermal                                                        | MJ   | 0,00E+00 | 0,00E+00 | 7,70E-01 | 0,00E+00     | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,10E+01 | 0,00E+00 | 0,00E+00 |

## Additional LCA results (other environmental performance results) of the products - alternative end-of-life scenario (100% recycling)

In addition to the reference end-of-life scenario (incineration with energy recovery), an alternative scenario assuming 100% recycling of the floor covering is assessed. This scenario reflects the technical recyclability of the product and the potential for separate collection and material recovery at end-of-life.

The carpet is assumed to be separately collected. A transport distance of 500 km to the recycling facility is assumed, representing a conservative estimate for transport to specialized mechanical recycling installations in Europe. The waste is processed into secondary polypropylene (PP) granulate. A material loss of 16% during collection, sorting, washing and re-granulation is assumed, resulting in 84% secondary PP output.

Recycling is modelled up to end-of-waste status in module C3. Module D includes substitution benefits from secondary PP replacing virgin polypropylene in plastic applications outside the product system. Substitution is modelled using an open-loop avoided-burden approach with an economic allocation factor of 0,525, reflecting the market value ratio between recycled mixed-colour PP and virgin PP (reference year 2024).

### Mandatory impact category indicators according to EN 15804

#### Additional results (100% recycling scenario) per 1 m<sup>2</sup> of installed floorcovering (Rewind Contract - 900)

| Indicator           | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | C1       | C2       | C3       | C4       | D         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|-----------|
| GWP-total           | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,00E+00 | 4,32E-02 | 2,64E-01 | 0,00E+00 | -8,50E-01 |
| GWP-fossil          | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,00E+00 | 4,27E-02 | 2,61E-01 | 0,00E+00 | -8,45E-01 |
| GWP-biogenic        | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,00E+00 | 0,00E+00 | 2,09E-03 | 0,00E+00 | 0,00E+00  |
| GWP-luluc           | kg CO <sub>2</sub> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,00E+00 | 4,54E-04 | 5,29E-04 | 0,00E+00 | -1,60E-04 |
| ODP                 | kg CFC 11 eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0,00E+00 | 7,32E-15 | 3,55E-12 | 0,00E+00 | -3,06E-12 |
| AP                  | mol H <sup>+</sup> eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,00E+00 | 3,67E-04 | 4,03E-04 | 0,00E+00 | -1,21E-03 |
| EP-freshwater       | kg P eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0,00E+00 | 1,19E-07 | 2,24E-06 | 0,00E+00 | -1,08E-06 |
| EP-marine           | kg N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0,00E+00 | 1,85E-04 | 1,02E-04 | 0,00E+00 | -2,94E-04 |
| EP-terrestrial      | mol N eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0,00E+00 | 2,01E-03 | 1,14E-03 | 0,00E+00 | -3,13E-03 |
| POCP                | kg NMVOC eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0,00E+00 | 3,44E-04 | 2,60E-04 | 0,00E+00 | -1,38E-03 |
| ADP-minerals&metals | kg Sb eq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0,00E+00 | 2,93E-09 | 6,29E-08 | 0,00E+00 | -8,55E-08 |
| ADP-fossil          | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,00E+00 | 5,65E-01 | 3,64E+00 | 0,00E+00 | -2,77E+01 |
| WDP                 | m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0,00E+00 | 2,02E-04 | 4,85E-02 | 0,00E+00 | -1,24E-02 |
| Acronyms            | GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption |          |          |          |          |           |

## ADDITIONAL ENVIRONMENTAL INFORMATION

The technical service life of the product depends on the use conditions, maintenance practices and installation quality.

At the end of its service life the product may be collected and treated according to local waste management practices. Depending on the available infrastructure the product may be subject to energy recovery or material recycling. BFS Europe supports collection and recycling initiatives where available.

## ADDITIONAL SOCIAL AND ECONOMIC INFORMATION

BFS Europe operates under ISO 9001 (Quality Management System), ISO 14001 (Environmental Management System) and ISO 45001 (Occupational Health and Safety) certified management systems.

## ABBREVIATIONS

| Abbreviation                 | Definition                                                                    |
|------------------------------|-------------------------------------------------------------------------------|
| <b>General Abbreviations</b> |                                                                               |
| EN                           | European Norm (Standard)                                                      |
| EF                           | Environmental Footprint                                                       |
| GPI                          | General Programme Instructions                                                |
| ISO                          | International Organization for Standardization                                |
| CEN                          | European Committee for Standardization                                        |
| CLC                          | Co-location centre                                                            |
| CPC                          | Central product classification                                                |
| GHS                          | Globally harmonized system of classification and labelling of chemicals       |
| GRI                          | Global Reporting Initiative                                                   |
| SVHC                         | Substances of Very High Concern                                               |
| ND                           | Not Declared                                                                  |
| RSL                          | Reference service life                                                        |
| PP                           | Polypropylene                                                                 |
| EPD                          | Environmental Product Declaration                                             |
| PCR                          | Product Category Rules                                                        |
| c-PCR                        | Complementary Product Category Rules                                          |
| LCA                          | Life Cycle Assessment                                                         |
| AIB                          | Association of Issuing Bodies (electricity residual mix)                      |
| HDPE                         | High-Density Polyethylene                                                     |
| PE                           | Polyethylene                                                                  |
| MJ                           | Megajoule                                                                     |
| CTUe / CTUh                  | Comparative Toxic Unit (ecosystems / humans)                                  |
| GWP                          | Global Warming Potential                                                      |
| GHG                          | Greenhouse Gas                                                                |
| GWP-total                    | Global Warming Potential – total                                              |
| GWP-fossil                   | Global Warming Potential – fossil fuels                                       |
| GWP-biogenic                 | Global Warming Potential – biogenic carbon                                    |
| GWP-luluc                    | Global Warming Potential – land use & land use change                         |
| ODP                          | Ozone Depletion Potential                                                     |
| AP                           | Acidification Potential                                                       |
| EP-freshwater                | Eutrophication Potential – freshwater                                         |
| EP-marine                    | Eutrophication Potential – marine                                             |
| EP-terrestrial               | Eutrophication Potential – terrestrial                                        |
| POCP                         | Photochemical Ozone Creation Potential (tropospheric ozone formation)         |
| ADP-minerals & metals        | Abiotic Depletion Potential – minerals & metals                               |
| ADP-fossil                   | Abiotic Depletion Potential – fossil resources                                |
| WDP                          | Water Deprivation Potential                                                   |
| GWP-GHG                      | Global Warming Potential – Greenhouse Gases (excl. biogenic CO <sub>2</sub> ) |

|        |                                                        |
|--------|--------------------------------------------------------|
| PM     | Particulate Matter – disease incidence potential       |
| IRP    | Ionizing Radiation Potential                           |
| ETP-fw | Ecotoxicity Potential – freshwater                     |
| HTP-c  | Human Toxicity Potential – carcinogenic                |
| HTP-nc | Human Toxicity Potential – non-carcinogenic            |
| SQP    | Soil Quality Potential                                 |
| PERE   | Renewable primary energy (excluding raw materials)     |
| PERM   | Renewable primary energy used as raw materials         |
| PERT   | Total renewable primary energy                         |
| PENRE  | Non-renewable primary energy (excluding raw materials) |
| PENRM  | Non-renewable primary energy used as raw materials     |
| PENRT  | Total non-renewable primary energy                     |
| SM     | Secondary materials                                    |
| RSF    | Renewable secondary fuels                              |
| NRSF   | Non-renewable secondary fuels                          |
| FW     | Net freshwater use                                     |

## REFERENCES

- a) General Programme Instructions of International EPD System. Version 5.0.1
- b) PCR 2019:14. Construction products. Version 2.0.1
- c) 2019:14-c-PCR-004 - Resilient, textile and laminate floor coverings (EN 16810:2017) 1.0.0
- d) EN 16810:2017 – Resilient, textile and laminate floor coverings – Environmental product declarations
- e) EN ISO 10874 – Classification for resilient, textile and laminate floor coverings
- f) ISO 14025:2006, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.
- g) EN 15804 EN 15804:2012+A2:2019+AC:2021, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.
- h) CEN/TS 14472-2 – Installation of textile floor coverings
- i) EPD Background Document: Rewind Contract 900 version 3.0, March 2026
- j) The processes for this study are modelled according to ISO 14040/14044 in the software from Sphera LCA for Experts version 10.9.1.17 + database version 2025.1
- k) AIB – European Residual Mix 2024 (Association of Issuing Bodies)

## VERSION HISTORY

**Original Version of the EPD, 2026-05-06.**

