

# EPD & SUSTAINABILITY FEATURES OVERVIEW – APRIL 2026

creating better environments



FLOORING SYSTEMS

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Click [here](#) to go to the CO<sub>2</sub> calculator



Click [here](#) to go to the recycled content factsheet



Click [here](#) to download the Environmental Product Declaration (EPD) for a specific product

# SUSTAINABILITY PRODUCT FEATURES

## All flooring products are:

- REACH compliant
- Phthalate-free
- Low VOC emissions level
- Made in Europe (EU 27+UK and Switzerland)

Product	Sustainability features
<b>Marmoleum sheet (2.0/2.5/3.2 mm), Marmoleum Soul (2.5 mm) and Marmoleum R10 (2.5 mm)</b> Linoleum	<ul style="list-style-type: none"> <li>• Climate positive: carbon negative from cradle to gate without offsetting</li> <li>• Bio-based, made from up to 98% natural raw materials of which 59-78% renewable</li> <li>• 29-38% recycled content coming from our own factory, from other industries (such as wood flour and upcycled cocoa husks) as well as materials from our Back to the Floor take-back scheme</li> <li>• Made with 100% renewable electricity</li> <li>• Unpigmented option available in Marmoleum Soul Origin which has the highest amount of natural materials (99%) and a remarkably low embodied carbon: <math>-1.90 \text{ kg CO}_2\text{e/m}^2</math> (A1-A3, cradle to gate)</li> <li>• PVC-free, phthalate-free, and plasticizer-free</li> <li>• Refurbishment: linoleum can be renovated with a water-based UV-curing renovation varnish extending the useful life of the product</li> <li>• Recyclability and recovery: installation cut-offs and end-of-life (depending on country) via Back to the Floor take-back scheme*</li> <li>• Blue Angel, Nordic Swan Ecolabel, Austrian Ecolabel (Umweltzeichen), Declare Red List Free, USDA Certified Biobased Product, Indoor Air Comfort Gold, Allergy UK Seal of Approval</li> </ul>
<b>Marmoleum Modular and Click</b> Linoleum	<ul style="list-style-type: none"> <li>• Reduced cutting waste compared to sheet material</li> <li>• Bio-based, made from up to 92% natural raw materials of which 50-84% renewable</li> <li>• 14-48% recycled content coming from our own factory, from other industries (such as wood flour) as well as materials from our Back to the Floor take-back scheme</li> <li>• Made with 100% renewable electricity</li> <li>• PVC-free, phthalate-free, and plasticizer-free</li> <li>• Reusability: Marmoleum click's loose-lay construction enables circular pathways like reuse and recycling</li> <li>• Recyclability and recovery: installation cut-offs and end-of-life (depending on country) via Back to the Floor take-back scheme*</li> <li>• Blue Angel, Nordic Swan Ecolabel, Austrian Ecolabel (Umweltzeichen), Declare Red List Free, USDA Certified Biobased Product, Indoor Air Comfort Gold, Allergy UK Seal of Approval</li> </ul>
<b>Marmoleum Acoustic, Decibel (3.0/3.5 mm), Corkment</b> Acoustic Linoleum	<ul style="list-style-type: none"> <li>• 28-44% recycled content coming from our own factory, from other industries (such as wood flour and upcycled cocoa husks) as well as materials from our Back to the Floor take-back scheme</li> <li>• Made with 100% renewable electricity</li> <li>• PVC-free, phthalate-free, and plasticizer-free</li> <li>• Marmoleum Decibel 3.5 mm is climate positive (carbon negative from cradle to gate without offsetting) and bio-based, made from up to 94% natural raw materials of which 57-75% renewable</li> <li>• Marmoleum Acoustic has a layer of Corkment made from recycled cork</li> <li>• Corkment underlay made from recycled cork can be used in combination with regular Marmoleum to achieve an impact sound reduction of at least 14 dB (according ISO 717-2)</li> <li>• Recyclability and recovery: installation cut-offs and end-of-life (depending on country) via Back to the Floor take-back scheme*</li> <li>• Blue Angel, Nordic Swan Ecolabel, Austrian Ecolabel (Umweltzeichen), Declare Red List Free, Indoor Air Comfort Gold, Allergy UK Seal of Approval</li> </ul>

\*including closed-loop and open-loop recycling or, where not feasible, used in cement industry and energy recovery

Product	Sustainability features
<b>Marmoleum Sport (3.2/4.0 mm)</b> Sport Linoleum	<ul style="list-style-type: none"> <li>• Climate positive: carbon negative from cradle to gate without offsetting</li> <li>• Bio-based, made from up to 85% natural raw materials of which 77% renewable</li> <li>• 35-36% recycled content coming from our own factory, from other industries (such as wood flour) as well as materials from our Back to the Floor take-back scheme</li> <li>• Made with 100% renewable electricity</li> <li>• PVC-free, phthalate-free, and plasticizer-free</li> <li>• Recyclability and recovery: installation cut-offs and end-of-life (depending on country) via Back to the Floor take-back scheme*</li> <li>• Blue Angel, Nordic Swan Ecolabel, Austrian Ecolabel (Umweltzeichen), Indoor Air Comfort Gold, Allergy UK Seal of Approval</li> </ul>
<b>Marmoleum FR</b> Fire resistant linoleum	<ul style="list-style-type: none"> <li>• Bio-based, made from up to 70% natural raw materials of which up to 55% renewable</li> <li>• 30% recycled content coming from our own factory, from other industries (such as wood flour) as well as materials from our Back to the Floor take-back scheme</li> <li>• Made with 100% renewable electricity</li> <li>• PVC-free, phthalate-free, and plasticizer-free</li> <li>• Refurbishment: linoleum can be renovated with a water-based UV curing renovation varnish extending the useful life of the product</li> <li>• Recyclability and recovery: installation cut-offs and end-of-life (depending on country) via Back to the Floor take-back scheme*</li> <li>• Indoor Air Comfort Gold</li> </ul>
<b>Marmoleum Ohmex</b> ESD and cleanroom solutions	<ul style="list-style-type: none"> <li>• Bio-based, made from up to 96% natural raw materials of which 70% renewable</li> <li>• 33% recycled content coming from our own factory, from other industries (such as wood flour) as well as materials from our Back to the Floor take-back scheme</li> <li>• Made with 100% renewable electricity</li> <li>• PVC-free, phthalate-free, and plasticizer-free</li> <li>• Refurbishment: linoleum can be renovated with a water-based UV-curing renovation varnish extending the useful life of the product</li> <li>• Blue Angel, Austrian Ecolabel (Umweltzeichen), Indoor Air Comfort Gold, Allergy UK Seal of Approval</li> </ul>
<b>Furniture Linoleum</b> Surface finishing	<ul style="list-style-type: none"> <li>• Climate positive: carbon negative from cradle to gate without offsetting</li> <li>• Bio-based, made from up to 97% natural raw materials of which 79% renewable</li> <li>• 29% recycled content (such as wood flour)</li> <li>• Unpigmented linoleum showcasing its raw and authentic beauty is available on request</li> <li>• Made with 100% renewable electricity</li> <li>• PVC-free, phthalate-free, and plasticizer-free</li> <li>• Declare Red List Free</li> </ul>
<b>Bulletin board</b> Pin board	<ul style="list-style-type: none"> <li>• Bio-based, made from 92% natural raw materials of which 78% renewable</li> <li>• 43% recycled content (such as cork)</li> <li>• Made with 100% renewable electricity</li> <li>• PVC-free, phthalate-free, and plasticizer-free</li> <li>• Declare Red List Free</li> </ul>

# SUSTAINABILITY PRODUCT FEATURES

## All flooring products are:

- REACH compliant
- Phthalate-free
- Low VOC emissions level
- Made in Europe (EU 27+UK and Switzerland)

Product	Sustainability features
<b>Sphera , Sphera Elite b+</b> Homogeneous vinyl	<ul style="list-style-type: none"> <li>• 29–43% recycled content</li> <li>• Made with 100% renewable electricity</li> <li>• Bio-based Sphera Elite b+ with 24% renewable content via mass-balance (ISCC certified bio-circular PVC, made from used cooking oil - UCO)</li> <li>• Sphera Elite b+ has a low embodied carbon: 2.94 kg CO<sub>2</sub>e/m<sup>2</sup> (A1–A3, cradle to gate)</li> <li>• Recyclability and recovery: installation cut-offs (depending on country) via Back to the Floor take-back scheme*</li> </ul>
<b>Eternal, Eternal NEXT</b> General purpose vinyl	<ul style="list-style-type: none"> <li>• 23–30% recycled content</li> <li>• Made with 100% renewable electricity</li> <li>• Reusability: loose-lay construction of Eternal NEXT enables circular pathways like reuse and recycle</li> <li>• Recyclability and recovery: installation cut-offs (depending on country) via Back to the Floor take-back scheme*</li> </ul>
<b>Surestep, Safestep, Surestep NEXT</b> Safety vinyl	<ul style="list-style-type: none"> <li>• 24–29% recycled content</li> <li>• Made with 100% renewable electricity</li> <li>• Reusability: loose-lay construction of Surestep NEXT enables circular pathways like reuse and recycle</li> <li>• Recyclability and recovery: installation cut-offs (depending on country) via Back to the Floor take-back scheme*</li> </ul>
<b>Modul'up</b> Loose-lay acoustic vinyl sheet	<ul style="list-style-type: none"> <li>• 20% recycled content</li> <li>• Made with 100% renewable electricity</li> <li>• Reusability: loose-lay construction enables circular pathways like reuse and recycle</li> <li>• Recyclability and recovery: installation cut-offs (depending on country) via Back to the Floor take-back scheme*</li> </ul>
<b>Sarlon</b> Acoustic vinyl sheet	<ul style="list-style-type: none"> <li>• 20% recycled content</li> <li>• Made with 100% renewable electricity</li> <li>• Recyclability and recovery: installation cut-offs (depending on country) via Back to the Floor take-back scheme*</li> </ul>
<b>Allura Dryback (0.4/0.55/0.7)</b> Luxury vinyl tiles	<ul style="list-style-type: none"> <li>• 24–30% recycled content</li> <li>• Made with 100% renewable electricity</li> <li>• Recyclability and recovery: installation cut-offs (depending on country) via Back to the Floor take-back scheme*</li> </ul>
<b>Allura Flex (0.55/1.00), Allura decibel (0.35/0.8) and Allura decibel b+</b> Luxury vinyl tiles and acoustic luxury vinyl tiles	<ul style="list-style-type: none"> <li>• 20–33% recycled content</li> <li>• Made with 100% renewable electricity</li> <li>• Bio-based option available for Allura Decibel b+ with 21% renewable content via mass-balance.</li> <li>• Tackified installation minimizes waste at uplift and supports recycling</li> <li>• Recyclability and recovery: installation cut-offs (depending on country) via Back to the Floor take-back scheme*</li> </ul>

Product	Sustainability features
<b>Allura Click Pro, Allura Puzzle</b> Luxury vinyl tiles	<ul style="list-style-type: none"> <li>• 47–53% recycled content</li> <li>• Made with 100% renewable electricity</li> <li>• Reusability: loose-lay construction enables circular pathways like reuse and recycle</li> <li>• Recyclability and recovery: installation cut-offs (depending on country) via Back to the Floor take-back scheme*</li> </ul>
<b>Sphera SD/EC</b> ESD and cleanroom solutions	<ul style="list-style-type: none"> <li>• 34% recycled content</li> <li>• Made with 100% renewable electricity</li> <li>• Recyclability and recovery: installation cut-offs (depending on country) via Back to the Floor take-back scheme*</li> </ul>
<b>Colorex (SD, EC, Plus EC, Basic, R10)</b> ESD and cleanroom solutions	<ul style="list-style-type: none"> <li>• 34–75% recycled content</li> <li>• Made with 100% renewable electricity</li> <li>• Refurbishment: deep scratches, holes, burns or other surface damage can be fully repaired extending the useful life of the product</li> <li>• Reusability: loose-lay construction of Colorex Plus enables circular pathways like reuse and recycle</li> </ul>

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Product	Sustainability features
<b>Tessera evolve+ (Tessera Topology, Twine, Tranquility, Chroma and Create Space 1)</b> Carpet	<ul style="list-style-type: none"> <li>• Low embodied carbon: less than 2 kg CO<sub>2</sub>e/m<sup>2</sup> (A1–A3, cradle to gate)</li> <li>• 75–77% recycled content</li> <li>• Tranquility, Create Space 1, Chroma made with 100% ECONYL® regenerated polyamide 6 solution dyed yarn</li> <li>• Twine, Topology made using Thrive® matter by Universal Fibers®, a yarn which contains 90% recycled content,</li> <li>• Made with 100% renewable energy (renewable electricity and biogas)</li> <li>• Reusability: tackified installation enables circular pathways like reuse and recycle</li> <li>• Recyclability and recovery: installation cut-offs and end-of-life (depending on country) via Back to the Floor take-back scheme*</li> </ul>
<b>Tessera tiles &amp; planks</b> Carpet	<ul style="list-style-type: none"> <li>• 60–66% recycled content</li> <li>• Made with 100% renewable energy (renewable electricity and biogas)</li> <li>• Tessera Cloudscape and Accord available in SOFTbac acoustic cushioned secondary backing made from 90% recycled polyester</li> <li>• Recyclability and recovery: installation cut-offs and end-of-life (depending on country) via Back to the Floor take-back scheme*</li> </ul>
<b>Needlefelt tiles</b> Carpet	<ul style="list-style-type: none"> <li>• 63% recycled content</li> <li>• Backing made from 100% recycled polyester</li> </ul>
<b>Needlefelt sheet</b> Carpet	<ul style="list-style-type: none"> <li>• 46–50% recycled content</li> <li>• Backing made from 100% recycled polyester</li> </ul>

\*including closed-loop and open-loop recycling or, where not feasible, used in cement industry and energy recovery

Product	Sustainability features
<b>Flotex sheet (incl. NEXT loose-lay), tiles and planks</b> Flocked flooring	<ul style="list-style-type: none"> <li>• Flotex sheet contains up to 20% and Flotex tiles and planks up to 59% recycled content.</li> <li>• Water-based inks and dyes are used for production.</li> <li>• Made with 100% renewable electricity</li> <li>• Holds the Allergy UK Seal of Approval by the British Allergy Foundation</li> <li>• Repairability: Flotex can be easily repaired with invisible joints thanks to the extremely dense structure of 80 million fibers/m<sup>2</sup></li> <li>• Reusability: loose-lay construction of Flotex NEXT sheet enables circular pathways like reuse and recycle</li> </ul>
<b>Coral (Brush, Classic, Duo, Welcome, Bright)</b> Entrance flooring	<ul style="list-style-type: none"> <li>• Made with 100% ECONYL® regenerated polyamide 6</li> <li>• 18–22% recycled content</li> <li>• Can remove up to 95% of dirt and moisture entering a building, extending the interior floor lifetime</li> <li>• All the waste yarn from the Coral production is re-used by the yarn supplier.</li> <li>• Made with 100% renewable electricity</li> </ul>
<b>Coral (Luxe)</b> Entrance flooring	<ul style="list-style-type: none"> <li>• 12% recycled content</li> <li>• All the waste yarn from the Coral production is re-used by the yarn supplier</li> <li>• Made with 100% renewable electricity</li> </ul>
<b>Nuway</b> Entrance flooring	<ul style="list-style-type: none"> <li>• 19–54% recycled content</li> <li>• All aluminium waste from production is recycled</li> <li>• Can remove up to 95% of dirt and moisture entering a building, extending the floor lifetime</li> <li>• Made with 100% renewable electricity</li> <li>• Nuway Tuftiguard available also in the bio-based option made from FSC® certified MOSO® Bamboo, made with 23–38% renewable raw materials</li> </ul>



# EPD FIGURES – CARBON FOOTPRINT kg CO<sub>2</sub>eq / m<sup>2</sup> (A1-A3)

See 'how to read an EPD' on page 8 for more background information.

Product	Ranges covered	Carbon footprint (A1-A3, cradle to gate) kg CO <sub>2</sub> eq/m <sup>2</sup>	Recycled content by weight*	EPD number	Expiry date
<b>Marmoleum Soul sheet 2.5 mm</b> Linoleum	-	-1.90 (Origin) -1.68	36%	4792152997.102.1	23/03/2031
<b>Marmoleum sheet 2.5 mm</b> Linoleum	Real, Fresco, Cocoa, Concrete, Vivace, Walton, Piano, Terra, Splash	-1.57	36% 38% (Cocoa)	4792152997.101.1	23/03/2031
<b>Marmoleum sheet 3.2 mm</b> Linoleum	Real, Fresco, Cocoa, Concrete, Vivace, Walton, Piano, Terra, Splash	-2.02	34%	4792152997.101.1	23/03/2031
<b>Marmoleum sheet 2.0 mm</b> Linoleum	Real, Fresco, Concrete, Walton	-1.27	36%	4792152997.101.1	23/03/2031
<b>Marmoleum Linear sheet 2.5 mm</b> Linoleum	Striato	-1.24	29%	4790859342.102.2	15/07/2029
<b>Marmoleum Modular tile 2.5 mm</b> Linoleum	Neutral, Accent, Linear	0.40	48% 30% (Linear)	4790690881.102.2	01/06/2028
<b>Marmoleum Sport sheet 4.0 mm</b> Sport Linoleum	-	-2.08	35%	4791394460.102.1	15/12/2030
<b>Marmoleum Sport sheet 3.2 mm</b> Sport Linoleum	-	-1.38	36%	4791394460.102.1	15/12/2030
<b>Marmoleum Decibel sheet 3.5 mm</b> Acoustic Linoleum	Real, Vivace, Fresco, Walton, Cocoa, Concrete, Splash, Striato	-0.13	35%	4790857560.112.2	01/04/2028
<b>Furniture Linoleum</b> Surface finishing	-	-0.82	29%	Self-declared	19/12/2030

Product	Ranges covered	Carbon footprint (A1-A3, cradle to gate) kg CO <sub>2</sub> eq/m <sup>2</sup>	Recycled content by weight*	EPD number	Expiry date
<b>Sphera Elite b+</b> Homogeneous vinyl	Elite b+	2.94	43%	4791748685.102.1	07/05/2030
<b>Sphera</b> Homogeneous vinyl	Element, Energetic, Essence	5.75	34% 29% (Essence)	4791394447.102.1	15/07/2029
<b>Eternal</b> General purpose vinyl	Wood, Material, Digital, Colour, de Luxe, Original	4.54	30% 18% (de Luxe)	4790857560.105.1	15/07/2029
<b>Eternal Next</b> Loose-lay general purpose vinyl	Eternal Next	7.32	23%	4791748685.101.1	07/05/2030
<b>Step</b> Safety vinyl	Surestep, Safestep, Surestep FastFit	4.83	24%	4790857479.102.1	01/09/2028
<b>Modul'up</b> Loose-lay acoustic vinyl sheet	Habitat, Compact Habitat, 19 dB, Compact, Compact TE	5.93	20%	4791394447.104.1	15/07/2029
<b>Sarlon</b> Acoustic vinyl sheet	Sheets: Habitat, 19 dB, Primeo, 15 dB, Complete Step Tiles & planks: Habitat Modal, Primeo Modal	6.24	20%	4791394447.103.1	15/07/2029
<b>Allura</b> Luxury vinyl tiles and acoustic luxury vinyl tiles	Allura Decibel b+	-	31%	EPD in progress	-
	Allura Decibel 0.35 / 3.15 mm	6.88	20%	4790857560.101.1	01/09/2028
	Allura Dryback 0.55 / 6.3 mm	5.77	24%	4790857560.107.1	01/10/2028
	Allura Dryback 0.70 / 2.5 mm	7.16	27%	4790857560.107.1	01/10/2028
	Allura Flex 0.55 / 4.0 mm	11.64	30%	4790857560.103.1	01/09/2028
	Allura Flex 1.0 / 5.0 mm	16.55	33%	4790857560.103.1	01/09/2028
	Allura Click Pro 0.55 / 5.0 mm	15.69	53%	4791748685.102.1	15/12/2030
	Allura Puzzle 0.7 / 5.0 mm	16.02	47%	4791748685.103.1	15/12/2030
<b>ESD and cleanroom</b> ESD and cleanroom solutions	Sphera SD/EC	5.88	34%	4790857479.103.1	21/06/2029
	Colorex SD/EC	5.97	37%	4790690880.101.1	01/06/2028
	Colorex Plus EC / Basic / R10	15.64	75%	4790690880.102.1	01/06/2028

\*Reported recycled content figures reflect the most recent data available and may differ from those published in the EPD, which remains valid for five years.

# EPD FIGURES – CARBON FOOTPRINT kg CO<sub>2</sub> eq / m<sup>2</sup> (A1-A3)

See 'how to read an EPD' on page 8 for more background information.

Product	Ranges covered	Carbon footprint (A1-A3, cradle to gate) kg CO <sub>2</sub> eq/m <sup>2</sup>	Recycled content by weight*	EPD number	Expiry date
Tessera Evolve+ Carpet	Topology	1.40	75%	4791394456.101.1	15/07/2029
	Create Space 1	1.55	75%	4791394456.104.1	25/08/2030
	Twine	1.64	75%	4791748655.101.1	07/05/2030
	Tranquillity	1.66	76%	4791748655.103.1	29/07/2030
	Chroma	1.73	77%	4791748655.102.1	07/05/2030
Tessera tiles & planks Carpet	Struktur 1	2.02	65%	4791748655.104.1	22/10/2030
	Layout, Outline (Tiles & Planks)	3.48	62%	4790857560.111.1	01/12/2028
	Contour	3.52	67%	4791394456.102.1	26/08/2029
	Diffusion	3.59	66%	4791394456.103.1	26/08/2029
	Inline	3.82	62%	4790857560.110.1	01/12/2028
	Accord	3.87	61%	4790859357.102.1	01/12/2028
	Cloudscape	3.95	61%	4790857560.109.1	01/12/2028
	Harmony	4.21	60%	4790859357.103.1	01/12/2028
	Infused	4.24	60%	4790859357.101.1	01/09/2028
	Teviot, Teviot Basis Pro	4.98	62%	4790334143.101.1	01/01/2028
	Perspective	9.11	65%	4790149759.147.1	01/01/2027
	Needlefelt tile Carpet	Forte tile	1.46	63%	4790857517.102.1
Needlefelt sheet Carpet	Akzent	1.70	50%	4790857517.101.1	01/03/2029
	Showtime	1.74	50%	4790857517.105.1	01/03/2029
	Markant	2.25	50%	4790857517.104.1	01/03/2029
	Forte	3.26	46%	4790857517.103.1	01/03/2029
Coral Entrance flooring	Duo	7.25	18%	4792057971.103.1	18/02/2031
	Welcome	7.32	23%	4790857560.114.1	08/08/2029
	Classic	7.86	22%	4792057971.102.1	18/02/2031
	Brush	7.99	22%	4792057971.101.1	18/02/2031

Product	Ranges covered	Carbon footprint (A1-A3, cradle to gate) kg CO <sub>2</sub> eq/m <sup>2</sup>	Recycled content by weight*	EPD number	Expiry date
<b>Flotex tile &amp; plank</b> Flocked flooring	Colour, Linear, Digital Planks	10.75	Up to 59%	4790857560.108.1	01/10/2028
<b>Flotex sheet</b> Flocked flooring	Colour, Vision, Naturals, Hospitality & Leisure, Designers/Created By	7.13	Up to 20%	4790857560.104.1	01/09/2028
<b>Flotex sheet FR</b> Flocked flooring	Colour, Vision, Designer/Artist	5.67	Up to 14%	4790334130.101.1	01/01/2028

## Total life cycle

The carbon footprint impact does not stop at the gate. In our EPDs you can find the full life cycle values.



\*Reported recycled content figures reflect the most recent data available and may differ from those published in the EPD, which remains valid for five years.

# HOW TO READ AN ENVIRONMENTAL PRODUCT DECLARATION (EPD)

## What is an EPD?

EPD stands for Environmental Product Declaration. The document contains data about the environmental impact of a material across all stages of its life cycle. Our EPDs are published in accordance with EN 15804+A2 and EN 16810 standards and verified by UL Solutions, a leading ISO 14025 program operator for independent third-party verification.



## Basic EPD information (for the example we use Marmoleum sheet 2.0 & 2.5 & 3.2mm)

Basic information to note:

- Declaration Number — unique ID for the specific EPD
- Declared Product — informs you what products EPD covers (i.e. product specific or generic)
- PCR (Product Category Rules) — without these you cannot calculate an EPD
- Date of Issue & Validity — Many EPDs currently in circulation show expired dates, which means they do not meet the requirements of any building schemes that require an EPD.

Table below from our latest [Marmoleum EPD](#)

<b>Declaration Number</b>	4792152997.101.1
<b>Declared Product</b>	Marmoleum sheet 2.0 & 2.5 & 3.2 mm
<b>Reference PCR</b>	EN 15804+A2: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products EN 16810: Resilient, Textile and Laminate floor coverings — Environmental product declarations — Product category rules
<b>Date of Issue</b>	March 23, 2026
<b>Period of Validity</b>	5 Years

There are different ways to calculate an EPD:

- **Product-specific EPD:** Offers detailed information on the environmental impact of a **single product** from a **specific manufacturer**, providing **precise data** for the **exact product** you're considering.
- **Average EPD:** Reflects the **mean performance** of **multiple products** and/or manufacturing sites, often used by manufacturers to assess collections with similar properties. While it gives a **general overview**, it may not be accurate for any single product, as some may have lower or **higher impacts**.
- **Generic EPD:** Also known as an **industry-wide EPD**, it provides an **average report** on the environmental impact of a product type. This is useful for comparing **general product types** based on industry averages, though it may not reflect the specific impact of the product you're selecting.

## Material content of a product (Marmoleum 2.0 & 2.5 & 3.2mm as example)

Looking at what materials go into making our flooring products is important. From looking at how much recycled content, to bio-based materials are used in the floor covering. Our EPD's list this information with complete transparency.

Component	Material	Availability			Amount [%]	Origin
		Renewable	Recycled	Non-Renewable		
Binder	Linseed oil	Bio-based crop			25	Europe
	Gum rosin	Bio-based crop			5	Indonesia
Filler	Wood flour		Bio-based waste product from wood processing		23	Germany
	Calcium carbonate			Abundant mineral	21	Germany
	Recycled Marmoleum		Pre- and Post-consumer waste		14	Internal/External
Pigment	Titanium dioxide			Limited mineral	2	Global
	Other pigments			Limited mineral	1	Global
Backing	Jute	Bio-based crop			8	India/Bangladesh
Finish	Lacquer				1	Netherlands

The materials used in a product are separated by % amount of renewable, recycled and non-renewable materials.

## Carbon footprint of a product

### What is embodied carbon?

The carbon footprint of a product is the total amount of greenhouse gas emissions (primarily carbon dioxide, CO<sub>2</sub>) generated directly and indirectly over the entire life cycle of a product. This is typically assessed using Life Cycle Assessment (LCA) stages, which divide emissions into production, construction, use, and end-of-life phases.

Embodied carbon, also referred to as 'Cradle to Gate' or 'A1–A3', represents the emissions associated with the production of a product before it is used. This typically includes emissions from raw material sourcing, material processing and manufacturing.

# HOW TO READ AN ENVIRONMENTAL PRODUCT DECLARATION (EPD)

## The numbers

EPD's contain a lot of numbers (anywhere up to 600) and these are shown in scientific notation. At the current time, most focus is on GWP (Global Warming Potential), which measures the climate impact of different types of emissions. In this context, the **total GWP** is the sum of:

- **fossil emissions**, come from non-renewable sources such as petroleum or natural gas,
- **biogenic emissions**, relate to biomass. A negative number indicates sequestration of CO<sub>2</sub> from biogenic sources while a positive number indicates emissions from the combustion or degradation of biomass,
- **luluc emissions** (Land Use, Land-Use Change), reflect the impact when land is converted from one type of use to another, such as turning forests into agricultural land, grasslands into urban areas, or wetlands into cropland.

### Important note

Using scientific notation is not something most of us will have experienced since studying maths/science at school/university.

From the below table we can see that GWP – total (kg CO<sub>2</sub> eq) for A4 expressed as 1.59E-01.

In standard form the number is actually 0.159 (the -01 simply informs you to move the decimal point 1 place to the left).

Parameter	A4
GWP - total [kg CO <sub>2</sub> eq.]	1.59E-01

Other numbers from the table show why this form helps.

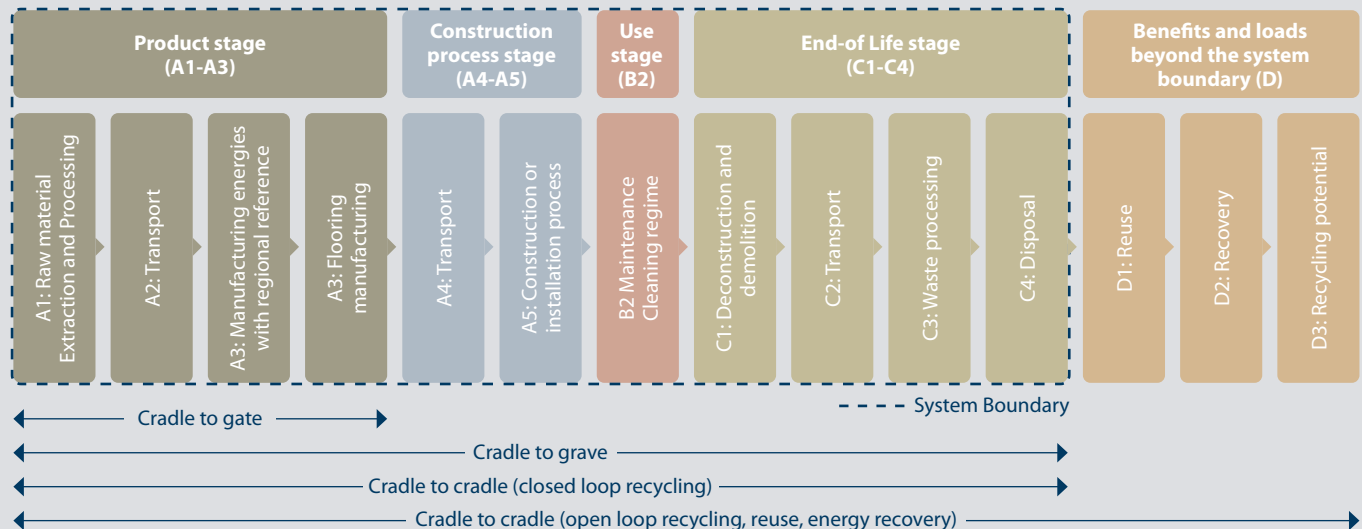
Consider the table below – the ODP number A1-A3 is shown as 2.21E-09. In standard form this is 0.00000000221

Parameter	A1-A3
ODP [kg CO <sub>2</sub> eq.]	2.21E-09

## Results of the LCA – Environmental impact for Marmoleum 2.5mm (1m<sup>2</sup>/1 year)

Parameter	A1-A3	A4	A5	B2	C1	C2	C3/1	C4/2	D/1	D/2
GWP - total [kg CO <sub>2</sub> eq.]	-1.57E+00	1.59E-01	2.38E-01	6.20E-02	2.67E-03	2.30E-02	4.44E+00	4.51E+00	-2.67E-01	-9.88E-03
GWP - fossil [kg CO <sub>2</sub> eq.]	2.83E+00	1.57E-01	1.54E-01	5.95E-02	2.63E-03	2.33E-02	1.49E-01	2.16E-01	-2.65E-01	-9.81E-03
GWP - biogenic [kg CO <sub>2</sub> eq.]	-4.40E+00	1.03E-03	8.32E-02	2.46E-03	2.71E-05	-5.20E-04	4.29E+00	4.29E+00	-1.18E-03	-5.03E-05
GWP - luluc [kg CO <sub>2</sub> eq.]	7.17E-03	5.14E-04	6.28E-04	2.07E-06	8.69E-06	2.41E-04	0.00E+00	2.68E-04	-2.94E-04	-1.34E-05
ODP [kg CFC-11 eq.]	2.21E-09	1.23E-14	6.43E-13	1.58E-09	6.00E-14	2.75E-15	7.46E-09	4.29E-13	-2.00E-12	-9.14E-14
AP [Mole of H+ eq.]	1.47E-02	2.52E-03	3.96E-04	1.16E-04	5.77E-06	7.84E-05	1.86E-03	8.93E-04	-2.76E-04	-1.15E-05
EP - freshwater [kg P eq.]	5.74E-04	1.52E-07	2.22E-06	2.09E-06	5.63E-09	6.31E-08	2.88E-08	1.24E-04	-1.97E-07	-8.89E-09
EP - marine [kg N eq.]	8.62E-03	6.59E-04	1.33E-04	4.01E-05	1.38E-06	3.69E-05	7.47E-04	1.10E-03	-8.37E-05	-3.34E-06
EP - terrestrial [Mole of N eq.]	5.03E-02	7.21E-03	1.47E-03	2.31E-04	1.55E-05	3.99E-04	8.56E-03	2.96E-03	-9.34E-04	-3.73E-05
POCP [kg NMVOC eq.]	1.03E-02	1.76E-03	3.65E-04	9.13E-05	3.43E-06	7.08E-05	1.95E-03	1.55E-03	-2.32E-04	-9.07E-06
ADPF [MJ]	1.23E-06	5.00E-09	2.87E-08	5.62E-09	5.47E-10	1.55E-09	-3.15E-07	9.06E-09	-2.22E-08	-9.64E-10
ADPE [kg Sb eq.]	3.86E+01	1.43E+00	3.55E+00	1.23E+00	5.37E-02	2.98E-01	1.96E+00	3.09E+00	-4.59E+00	-1.73E-01
WDP [m <sup>3</sup> world equiv.]	4.10E-01	3.26E-04	2.42E-02	1.38E-01	6.60E-04	9.35E-05	4.22E-01	8.37E-03	-2.22E-02	-1.01E-03

Caption: GWP - total = global warming potential; GWP - fossil = global warming potential (fossil fuel only); GWP - biogenic = global warming potential (biogenic only); GWP - luluc = global warming potential (land use only); ODP = ozone depletion; AP = acidification terrestrial and freshwater; EP - freshwater = eutrophication potential (freshwater); EP - marine = eutrophication potential (marine); EP - terrestrial = eutrophication potential (terrestrial); POCP = photochemical ozone formation; ADPE = abiotic depletion potential (element); ADPF = abiotic depletion potential (fossil); WDP = water scarcity



# HOW TO READ AN ENVIRONMENTAL PRODUCT DECLARATION (EPD)

## Total life cycle of a product

The following example is based on an installation of 1000 m<sup>2</sup> of Marmoleum 2.5 mm sheet. It covers a 10 year life warranty and shows carbon impact at all stages of life cycle.

We have two end of life solutions that have been calculated on the EPD, incineration and landfill. Both calculations are shown below.

### Scenario 1: Incineration

Note formula – Standard x m<sup>2</sup> x Frequency = Total

Marmoleum sheet 2.5 mm, GWP - total [kg CO <sub>2</sub> eq.]	Description	Scientific Notation	Standard	m <sup>2</sup>	Frequency	Total kg per 1000 m <sup>2</sup>
A1-A3	Product Stage	-1.57E+00	-1.57	1000	1	-1570
A4	Transport to site	1.59E-01	0.159	1000	1	159
A5	Installation	2.38E-01	0.238	1000	1	238
B2	Cleaning & Maintenance	6.20E-02	0.0620	1000	10	620
C1	Deconstruction / Removal	2.67E-03	0.00267	1000	1	2.67
C2	Transport	2.30E-02	0.0230	1000	1	23.0
C3/1	Waste processing (incineration)	4.44E+00	4.44	1000	1	4440
C4/1	Disposal (N/A)	The product waste leaves the system in module C3-1 and causes no additional impact.				
<b>TOTAL</b>						<b>3912.67</b>

It is important to note that our EPD's are calculated on a value of 1 m<sup>2</sup> over a period of a year. The impact, in many cases, is simply the impact multiplied by the number of m<sup>2</sup> in your specification with the notable exception, in this case, of B2 (Cleaning & Maintenance). This is because this function is carried out every year of the product life. Other impacts only occur once (manufacture, delivery to site, installation, disposal, etc).

### Scenario 2: Landfill

Note formula – Standard x m<sup>2</sup> x Frequency = Total

Marmoleum sheet 2.5 mm, GWP - total [kg CO <sub>2</sub> eq.]	Description	Scientific Notation	Standard	m <sup>2</sup>	Frequency	Total kg per 1000 m <sup>2</sup>
A1-A3	Product Stage	-1.57E+00	-1.57	1000	1	-1570
A4	Transport to site	1.59E-01	0.159	1000	1	159
A5	Installation	2.38E-01	0.238	1000	1	2.38
B2	Cleaning & Maintenance	6.20E-02	0.0620	1000	10	620
C1	Deconstruction / Removal	2.67E-03	0.00267	1000	1	2.67
C2	Transport	2.30E-02	0.0230	1000	1	23.0
C4/2	Waste processing (N/A)	Landfill disposal needs no waste processing and causes no additional impact.				
C3/2	Disposal (landfill)	4.51E+00	4.51	1000	1	4510
<b>TOTAL</b>						<b>3982.67</b>

## Reuse and recycling

At Forbo, we actively support the reuse and recycling of our products through a network of local and international partners. This minimises environmental impacts whilst maximising social values. We aim to retain the highest possible circular value by prioritizing reuse and recycling—either back into our own flooring products (closed-loop recycling) or into the products of third-party partners (open-loop recycling)—over energy recovery.

In the case of **closed-loop recycling**, the materials recovered at end of life are fed back into the same product system and replace virgin raw materials. Because these recycled material flows remain within the system boundary, the associated environmental loads and benefits are accounted for in the product life-cycle modules A–C, rather than being reported as external benefits in Module D. This reflects

established LCA practice, where only material flows leaving the product system for use in other product systems, such as **open-loop recycling** pathways, are reported beyond the system boundary.

Environmental Product Declarations (EPDs) are designed to be comparable across markets. As reuse and recycling practices differ widely depending on local collection systems, waste management infrastructure and regional recycling partner, our EPDs do not assume specific reuse or recycling scenarios. Instead, they apply harmonised rules to ensure consistency, reliability, and a fair comparison of environmental performance across regions.

For more information about our reuse and recycling partnerships and schemes, please see the [Back to the Floor](#) brochure.

Note: Circularity terminology is used in accordance with EN 17861:2023.



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FLOORING SYSTEMS