

GENERIC DATA FOR VINYL FLOORING – 3 December 2020, Sara Tikka

Product name (in the proposed form to be included in the database) in Finnish, Swedish and English	Vinyylilattia Vinylgolv Vinyl flooring															
The name of the component in accordance with the harmonised standard	EN 14565: Resilient floor covering based upon synthetic thermoplastic polymers															
The name of the component in accordance with TALO 2000 classification system	422 Muovipäällysteet															
Background information: Manufacturers Market shares Imports from other countries	<i>Short description of the manufacturers in Finland and other Nordic countries, description of market shares and assessment of imports from other countries</i> There is no domestic manufacturing for vinyl flooring. Approximately 50% of the vinyl flooring in the market is imported from Asia (China, India) and rest from Europe (Poland, Germany).															
Background information: Essential issues affecting the carbon footprint of the products and differences between alternatives within the same product group	<i>Short description of the manufacturing process and relative issues that affect the carbon footprint of the product, and possible significant differences between similar products</i> The raw materials and manufacturing can be identified as a hotspot for the embodied carbon values. The biggest material impacts based on mass of the product comes from PVC and mineral fillers.															
Sources and used methods for the formulation of the proposed values	<i>List of sources, assessment of relevance, description of working groups and other methods used</i> The following sources were used to compare the values of indicators and create the proposed values: - Manufacturer EPDs The outline of products, key issues affecting embodied carbon and the current market were obtained by market research, previous LCA studies and interview arranged with Lattian- ja seinänpäällysteliitto Ry.															
Emission data collected from relevant sources																
<table><tr><th>Source</th><th>Indicator</th><th>Value</th><th>Comments</th></tr><tr><td rowspan="4">Upofloor, EPD-UOY-200190081-CBC1-EN</td><td>GWP fossil (A1 – A3), kg CO2e/kg</td><td>1,92</td><td rowspan="2">Resilient vinyl flooring, 2019</td></tr><tr><td>Carbon handprint (D), kg CO2e/kg</td><td>-0,47</td></tr><tr><td>The content of renewable raw materials</td><td>0 %</td><td rowspan="2">Represents a 2 mm thick resilient flooring solution. Functional unit: 1 m2 of installed floor covering</td></tr><tr><td>The content of secondary materials</td><td>0 %</td></tr></table>		Source	Indicator	Value	Comments	Upofloor, EPD-UOY-200190081-CBC1-EN	GWP fossil (A1 – A3), kg CO2e/kg	1,92	Resilient vinyl flooring, 2019	Carbon handprint (D), kg CO2e/kg	-0,47	The content of renewable raw materials	0 %	Represents a 2 mm thick resilient flooring solution. Functional unit: 1 m2 of installed floor covering	The content of secondary materials	0 %
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	Substances of Very High Concern Substances from REACH candidate list	< 0,1 %	Product mass 3,18 kg/m2 Generic composition: Mineral filler, thermoplastic binder, color pigments, acrylate polymers.
	End-of life-scenario a. Reused b. Recycled c. Energy Recovery d. Disposal e. Disposal of hazardous materials	c. 100 %	
	Reference service life	-	
Tarkett, S-P-01346	GWP fossil (A1 – A3), kg CO2e/kg	2,19	Vinyl floor covering, 2018 Represents a 2 mm thick homogenous vinyl flooring. Functional unit: 1 m2 of floor covering Product mass 2,75 kg/m2 Generic composition: PVC, Mineral fillers, DINCH, Epoxidised soya bean oil, Stabilizer, Titanium dioxide, iQ PUR.
	Carbon handprint (D), kg CO2e/kg	0	
	The content of renewable raw materials	0	
	The content of secondary materials	25,5 %	
	Substances of Very High Concern Substances from REACH candidate list	< 0,1 %	
	End-of life a. Reused b. Recycled c. Energy Recovery d. Disposal e. Disposal, hazardous materials	100 %	
	Reference service life	20	
ERFMI, EPD-ERF- 20180180- CCI1-EN	GWP fossil (A1 – A3), kg CO2e/kg	1,85	Vinyl tile, 2019 Represents an average vinyl floor covering from 9 companies. Functional unit: 1 m2 of floor covering Product mass 3,6 kg/m2 Generic composition: Additives, Filler, Plasticizer, pigments, polymers (PVC), auxiliaries, lacquer, flooring recycles (PVC)
	Carbon handprint (D), kg CO2e/kg	-0,53	
	The content of renewable raw materials	0	
	The content of secondary materials	16 %	
	Substances of Very High Concern Substances from REACH candidate list	< 0,1 %	
	End-of life a. Reused b. Recycled c. Energy Recovery d. Disposal e. Disposal, hazardous materials	c. 100 %	
	Reference service life	-	

Proposed generic values

Following the methodology from SYKE, the vinyl floor covering was modeled as an average of existing EPDs in the relevant market. In this market, there is no domestic manufacturing.

NAME:	Vinyl flooring	
REPRESENTATIVENESS:	Europe	
CONVERSION VALUE	3,1 kg / m ²	
PRODUCT'S DIMENSION (WxHxD)	Sold in different sizes	
Indicator	Value	Comments
Carbon footprint (A1 – A3), kg CO ₂ e/kg	1,99	Carbon footprint excluding biogenic, kg CO ₂ e GWP-GHG
Carbon handprint - Biogenic carbon stored, kg CO ₂ BIO/kg	-0,50	
Content of renewables (%)	0 %	
Product content/Share of recycled materials (%)	0 %	
Content of SVHC, %	< 0,1 % by mass	
Technical service life, years	15	Estimated
End of life scenario (%) a reuse b recycled as secondary material c energy recovery d final disposal e hazardous waste to be removed from use	a 0	The end of life is an estimated distribution of most likely end of life processing methods.
	b 0	
	c 60 %	
	d 40 %	
	e 0	