Environmental Product Declaration

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

[LVT RVT and ESPC *Flooring Products*]

from

[*FUJIAN SIJIA NEW MATERIAL TECHNOLOGY CO., LTD.*]

Programme:	The International EPD® System, www.environdec.com
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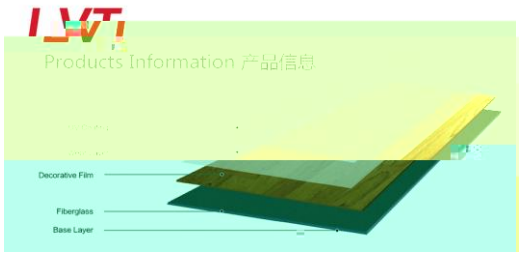

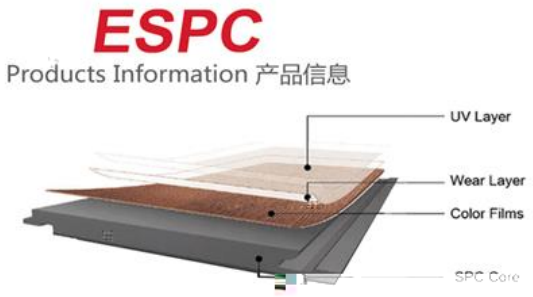

General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden

factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025

Company information

Owner of the EPD:
FUJIAN SIJIA NEW MATERIAL TECHNOLOGY CO., LTD
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Description of the organisation:

Fujian Sijia New Material Technology Co., Ltd. is a wholly-owned subsidiary of Sijia Group, which is a company engaged in new material technology research and development, high-performance fiber manufacturing, composite material manufacturing and other businesses, established on January 19, 2021. The business scope of the enterprise is: new material technology research and development, high-performance fiber and composite material manufacturing, high-performance fiber and composite material sales, synthetic material manufacturing (excluding hazardous chemicals), synthetic materials sales, floor manufacturing, floor sales, building waterproofing membrane product manufacturing, building waterproofing membrane product sales, new building materials manufacturing (excluding dangerous goods), technical services, technology development, technical consultation, technology exchange, technology transfer, technology promotion, industrial textile products sales, Amusement equipment and entertainment products manufacturing (excluding game and amusement equipment), outdoor products sales, new material technology promotion services, housing leasing, import and export of goods, technology import and export, etc.

Product-related or management system-related certifications:
Management system-related certifications: IS09001, ISO14001

Name and location of production site(s):
Sixth Wei Road, Fuqing City, Fujian Province,

Straightness

C2 - Transportation: Following de-installation, the waste is assumed to be transported 100 km by road to a waste treatment facility. This reflects standard transportation distances in Europe for construction waste.

C3 - Waste Processing: In this stage, the waste materials are processed by shredding into flakes to prepare for further treatment or recycling. This step enables easier handling, separation, and processing of recyclable materials. The energy consumption and emissions from the shredding process are modeled using data from the Ecoinvent database, representing typical shredding operations for similar materials.

C4 - Disposal: Since the flooring products mainly contains calcium in the mass composition followed by polyvinyl chloride, the disposal scenario, as recommend by the SiJia, the manufacturer, is landfill (C3 and C4).

Module D

The environmental benefits or 10(he)4(E7)4(s)-5( )13(r)-3(es)-3(ul)7(t)-10(i)5(n)-9(g)15(fr)-2(o)-9(m)15(r)-3(ec)-3(

LVT	Paper packaging	0.007	15.92	0.011	0.024
	Plastic packaging	0.001	42.47	0.007	0.013
RVT	Paper packaging	0.023	15.92	0.036	0.075
	Plastic packaging	0.003	42.47	0.016	0.032
ESPC	Paper packaging	0.011	15.92	0.018	0.037
	Plastic packaging	0.004	42.47	0.020	0.040

Key assumptions

The main assumptions and limitations of this LCA study are as follows

In the Life Cycle Assessment (LCA) for LVT, ESPC, RVT, the additives and stabilizers used in the manufacturing process are represented using proxy data due to confidentiality restrictions. These substances play a crucial role in enhancing product performance, but specific details regarding their composition and sourcing are not disclosed. Their mass contribution to the overall material composition ranges between 0.9% and 4.1% of the total product weight (Table 7). Despite this, their impact is included in the analysis, albeit with generalized data, as they constitute a relatively small fraction of the total materials.

Table 7 Proxy dataset selection

Substances	Proxy data	Dosage in (kg/m2)	Dosage in RVT(kg/m2)	Dosage in ESPC(kg/m2)
Stabilizer	Chemical, organic {GLO}| chemical production,			

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

Product stage	Construction process

GWP-GHG1	kg CO2 eq.	1.76E+01	3.18E+00	2.13E-02	0.00E+00	2.09E-01	1.07E-01	6.28E-02	-8.77E-03

Environmental impact variations for the products

The variations for environmental impact categories are supplied. The variation is defined as the ratio between the distance of max and min results over the maximum results.

Impact category	Unit	Min	Max	Variation
GWP-GHG	kg CO2 eq.	7.55E+00	1.76E+01	57.2%
Climate change - Fossil	kg CO2 eq.	7.54E+00	1.76E+01	57.2%
Climate change - Biogenic	kg CO2 eq.	-3.79E-01	-1.37E-01	277.0%
Climate change - Land use and LU change	kg CO2 eq.	6.56E-03	1.44E-02	54.3%
Climate change	kg CO2 eq.	7.41E+00	1.73E+01	57.1%
Ozone depletion	kg CFC11 eq.	5.85E-06	7.81E-06	25.1%
Acidification	mol H eq.	1.71E		

Output flow indicators

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D

References

[1] Ecoinvent, 2023. Swiss Centre for Life Cycle Assessment, v3.9 (www.ecoinvent.ch).
[2] EN 15804:2012+A2:2019/AC:2021, Sustainability of construction works - Environmental product declaration - Core rules for the product category of construction products.

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