



EPD Transparency Summary

COMPANY NAME Novalis Innovative Flooring

PRODUCT NAME Novalis High Density Core (HDC)

PRODUCT DESCRIPTION Novalis High Density Core (HDC) rigid flooring is waterproof and has strong scratch resistance, making it a perfect selection for busy hospitality, retail, and other commercial locations.

PRODUCT CATEGORY RULE (PCR)+ VERSION Product Category Rules for Building-Related Products and Services Part A: Life Cycle Assessment Calculation Rules and Report Requirements, Standard 10010, Version 3.2
Part B: Flooring EPD Requirements, UL 10010-7, Version 2.0

CERTIFICATION PERIOD 1/1/2020 — 1/1/2025

DECLARATION NUMBER 4789201527.102.1

EPD TYPE **PRODUCT SPECIFIC** **INDUSTRY AVERAGE**

DECLARED/ FUNCTIONAL UNIT 1 m2

GREEN BUILDING QUALIFICATIONS
LEED v4 Building Product Disclosure and Optimization - EPDs, Option 1
ASHRAE 189.1 Material Compliance
IgCC Material Compliance
Green Globes 3.5.1.2.1
NAHB Material Selection

REFERENCE SERVICE LIFE (IF APPLICABLE) Commercial: 10 Years; Residential: 25 Years

LCA SOFTWARE + VERSION SimaPro 9

IMPACT ASSESSMENT METHOD + VERSION CML-IA (baseline) & TRACI



LIFECYCLE IMPACT CATEGORIES

The environmental impacts listed below were assessed through the product's production phase (cradle to gate impacts).

	ATMOSPHERE			WATER		EARTH	
	Global Warming Potential refers to long-term changes in global weather patterns that are caused by increased concentrations of greenhouse gases in the atmosphere.	Ozone Depletion Potential is the destruction of the stratospheric ozone layer, which shields the earth from ultraviolet radiation that's harmful to life, caused by human-made air pollution.	Photochemical Ozone Creation Potential happens when sunlight reacts with hydrocarbons, nitrogen oxides, and volatile organic compounds, to produce air pollution known as smog.	Acidification Potential is the result of human-made emissions and refers to the decrease in pH and increase in acidity of oceans, lakes, rivers, and streams – polluting groundwater and harming aquatic life.	Eutrophication Potential occurs when excessive nutrients cause increased algae growth in lakes, blocking the underwater penetration of sunlight needed to produce oxygen and resulting in the loss of aquatic life.	Depletion of Abiotic Resources (Elements) refers to the reduction of available non-renewable resources, such as metals, that are found on the periodic table of elements, due to human activity.	Depletion of Abiotic Resources (Fossil Fuels) refers to the decreasing availability of non-renewable carbon-based compounds, such as oil and coal, due to human activity.
TRACI	1.37E+01 kg CO ₂ -Equiv.	2.58E-07 kg CFC 11-Equiv.	7.50E-01 kg O ₃ -Equiv.	7.53E-02 kg SO ₂ -Equiv.	1.92E-02 kg N-Equiv.	kg Sb-Equiv.	MJ
CML	1.37E+01 kg CO ₂ -Equiv.	2.17E-07 kg R11-Equiv.	3.26E-03 kg Ethene-Equiv.	7.09E-02 kg SO ₂ -Equiv.	1.29E-02 kg PO ₄ -Equiv.	8.82E-06 kg Sb-Equiv.	2.34E+02 MJ





MATERIAL CONTENT

Material content measured to 1%.

COMPONENT	MATERIAL	AVAILABILITY	MASS%	ORIGIN
Substrate - Plasticizer	Bio-plasticizer + DOTP	Renewable	0.51-4.72	China
Substrate	CaCO3	Non-Renewable	55.31-66.76	China
Substrate	Ca-Zn Stabilizer	Non-Renewable	1.40-2.01	China
Substrate	Polyvinyl Chloride (PVC)	Non-Renewable	25.11-33.22	China
Substrate	Epoxized Soybean Oil	Renewable	0.03-0.66	China
Substrate	Acrylic-401	Non-Renewable	0.64-1.21	China
Substrate	Chlorinated polyethylene (CPE)	Non-Renewable	0.77-1.46	China
Backing	IXPE (Irradiated cross-linked polyethylene)	Non-Renewable	0-1.56	China
Backing	Cork	Renewable	0-2.48	China

As Novalis High Density Core has a number of specifications, the component percentages are therefore presented with a range of values.

ADDITIONAL ENVIRONMENTAL INFORMATION

PRE-CONSUMER RECYCLED CONTENT	0 %
POST-CONSUMER RECYCLED CONTENT	0 %
VOC EMISSIONS	< 0.5 mg/m3 (14 days)
WATER CONSUMPTION	12.0 L/m2

ENERGY

RENEWABLE ENERGY	10.3 %	45.3	MJ
NON-RENEWABLE ENERGY	89.7 %	395	MJ

MANUFACTURER CONTACT INFO

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RECYCLING OR REUSE

Novalis partners with a recycler in the U.S. for pre-consumer recycling of LVT flooring. Novalis is also working with its large retail customers to develop a take-back program for the reuse and recycling of LVT flooring. When unable to be reused, they will be ground up and recycled into flooring or other products, such as rubber hoses, car mats, speed bumps, paneling, and more.

STANDARDS

- ASTM F3261 – Rigid Polymeric Core Flooring
- ASTM F1914 - Residual Indentation
- ASTM F1914 - Surface Integrity
- ISO 23999 - Dimensional Stability
- ISO 23999 - Curling
- ASTM F925 - Chemical Resistance
- ASTM F1514 - Heat Color Stability
- ASTM F1515 - Light Color Stability
- ASTM F970-Static Load Limit
- ASTM E648 (NFPA 253) - Critical Radiant Flux
- ASTM E662 (NFPA 258) - Smoke Density
- ASTM D2047-Slip Resistance
- CHPS / CA Section 01350

CERTIFICATIONS

