SUSTAINABILITY DATA SHEET

GCC HOLZart

Content	
Composition	Polymer-bound wood-based material, comprising ≤75% natural fibre, ≤ 25% HDPE, inorganic pigment, mineral components, and additives
Content in accordance with Regulation (EC) 1907/2006 – REACH	< 0.01%*
Ingredients of category 1A, 1B, or 2 in accordance with Regulation (EC) No 1272/2008 (CLP)	< 0.01%*
Ingredients in accordance with Proposition 65 list (State of California)	< 0.01%*
Ingredients in accordance with The Norwegian Priority list for Chemicals	< 0.01%*
Hazardous organometallic compounds	< 0.01%*
SVHC content	< 0.01%*
VOC content	< 0.01%*
Halogenated organic compounds (e.g., PVC, HBCD)	< 0.01%*
Halogenated hydrocarbons (e.g., CFCs)	< 0.01%*
Polycyclic aromatic hydrocarbons	< 0.01%*
Biocidal active substances in accordance with Regulation (EU) 528/2012	< 0.01%*
Heavy metals (Cr, Pd, Hg, Cd, As)	< 0.01%*
Phthalate-based plasticisers	< 0.01%*
Product composition proportion for which the chemical ingredients are known	100 wt%
Level of detail to which the product composition is known	100 ppm

* not included in the formulation and not bound in the product

Emissions	
Formaldehyde emissions	0.000 mg/m³
R-value in accordance with AgBB	0.1
TVOC after 3 days	0.1 mg/m³
TVOC after 7 days	0.1 mg/m³
Highly volatile organic compounds SVOCs	0.00 mg/m³
Carcinogens	0.000 mg/m³
Heavy metal migration in accordance with DIN EN 71-3:2021-6	Requirements met for GW III

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SUSTAINABILITY DATA SHEET

GCC HOLZart

Ecolabels, product ratings, and certificates	
Cradle to Cradle Certified®	Gold Certificate no: 9780 Standard: V3.1
Product Scorecard:	
Material health	Platinum
Circulatory capability	Gold
Renewable energies	Gold
Water management	Gold
Social responsibility	Gold
C2C Certified Material Health Certificate™	Platinum Standard: V3.1
Toy suitability in accordance with DIN EN 71-3	Yes
Certified wood	PEFC, certificate available on request
DGNB Navigator	Registration codes Decking system: 01RQNV Façade system: 8545WZ Outdoor sports flooring: W4XJCU
Quality management system	In accordance with DIN EN 9001:2015 Certificate no: 10000406962-MSC-RvA-DEU Valid until: 26/02/2027
Energy management system	In accordance with DIN EN 50001:2018 Certificate no: 10000406748-MSC-RvA-DEU Valid until: 26/02/2027

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GCC HOLZart

Circulation potential/recycling	
Recycled content	≥ 58.90%
Recyclability	100% with consistent material quality (technical cycle)
Return through the vendor/manufacturer	Yes
Packaging material	NOVO-TECH uses 100% recyclable packaging materials. Return of the used packaging and its proper recycling is organised and certified with disposal companies in accordance with the Packaging Act. Certificates are available on request.
Production/recycling site	06449 Aschersleben, Germany

Environmental Product Declarations (EPD)	
Type	Industry-specific
Product designation	WPC decking boards
Verification	In accordance with ISO 14025 and EN 15804+A1
Functional service life	WPC decking boards – 30 years
Declaration holder	VHI e.V.
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration numbers	EPD-VHI-20210249-IBE1-DE (decking)
Date of issue	25/03/2022
Valid until	24/03/2027

Life-cycle assessment data*	
Share of renewable energy sources for production/recycling	100%
Direct on-site emissions	0
Direct emissions offset/avoided	100%
Production/recycling site	06449 Aschersleben, Germany

*company-specific detailing of the life cycle inventory data of the EPD

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SUSTAINABILITY DATA SHEET

GCC HOLZart

Information for the Quality Seal for Sustainable Buildings (QNG)	
ANF1- Greenhouse gas and primary energy	Cf. EPD, life cycle assessment data
ANF2- Sustainable material extraction	100% certified wood (PEFC)
ANF3-1 Avoidance of pollutants in building materials Annex document 313, V 1.3	Building product groups 2.3, 9. Met, see “Emissions”

Information for building certification in accordance with DGNB 2018	
ENV1.1 Life cycle assessment of the building	Cf. EPD, life cycle assessment data
ENV1.2 Risks to the local environment	Lines 47a/b, 48 QS4 met, see “Emissions”
ENV1.3 Responsible resource extraction	100% certified wood (PEFC)
TEC1.6 Dismantling and recycling compatibility	Hazardous substances see “Ingredients” ≤75% wood content 100% recyclable (technical cycle) Manufacturer return system in place

Information for building certification in accordance with DGNB 2023	
ENV1.1 Climate protection and energy	Cf. EPD, life cycle assessment data
ENV1.2 Risks to the local environment	Lines 47a/b, 48 QS4 met, see “Emissions”
ENV1.3 Responsible resource extraction	100% certified wood (PEFC)
TEC1.6 Circular construction	Hazardous substances see “Ingredients” ≤75% wood content 100% recyclable (technical cycle) Manufacturer return system in place

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Information for building certification in accordance with BREEAM DE New construction 2018	
Hea 02 Indoor air quality – Table 17	Met, see “Emissions”
Hea 02 Indoor air quality – Table 18 “Outstanding quality”	Met, see “Emissions”
Mat 01 Ecological effects	Cf. EPD, life cycle assessment data
Mat 03 Responsible material procurement	100% certified wood (PEFC) Recycled content: ≥ 58.90%
Wst 01 Construction waste management	Manufacturer return system in place

Information for building certification in accordance with BREEAM NOR v6.1	
Hea 02-01 Indoor air quality	Met, see “Emissions”
Hea 02-02 Indoor air quality – Exemplary Level	Met, see “Emissions”
Mat 02 Environmental impacts from construction products LCA and greenhouse gas calculations	Cf. EPD, life cycle assessment data
Mat 02-01 Limit values for environmental toxins	met, see “Ingredients”
Mat 03 Responsible sourcing of construction products	100% certified wood (PEFC) Recycled content: ≥ 58.90%
Wst 01 Construction site resource management	Manufacturer return system in place

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Information for building certification in accordance with LEED v3 (2009)	
MR Credit 4: Recycled Content	≥ 29.45%
MR Credit 5: Regional Materials	Place of manufacture is 06449 Aschersleben, Germany
MR Credit 6: Rapidly Renewable Materials	5.9 – 7.5%
MR Credit 7: Certified Wood	100% certified wood (PEFC)
IEQ Credit 4.3: Low-Emitting Materials – Flooring Systems	Met, see “Emissions”
IEQ Credit 4.4: Low-Emitting Materials – Composite Wood and Agrifiber Products	Met, see “Emissions”

Information for building certification in accordance with LEED v4 (2015)	
MR Credit: Building Life-Cycle Impact Reduction	Cf. EPD, life cycle assessment data
MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations	Cf. EPD, life cycle assessment data
MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials	100% certified wood (PEFC) C2C Certified® Gold
MR Credit: Building Product Disclosure and Optimization – Material Ingredients	C2C Certified® Gold
MR Credit: Construction and Demolition Waste Management	Manufacturer return system in place
EQ Credit: Low-Emitting Materials	Met, see “Emissions”

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SUSTAINABILITY DATA SHEET

GCC HOLZart

Corporate philosophy	
Understanding	Sustainability explicitly means not causing any disadvantage for future generations. In light of this, we act and think in compliance with a sense of responsibility towards our children and grandchildren.
Mission statement	Our products are produced without cutting down any trees. Responsible use of resources is anchored in our philosophy.
Product idea	German Compact Composite® is a polymer-bound wood-based material that comprises ≤75% (atro) sawdust and wood shavings from the wood processing industry. This material usually is processed into energy pellets or animal bedding. Thanks to the use of thermoplastics, GCC is fully recyclable and designed for use in a closed technical cycle. The carbon bound in the wood thus remains bound in the product for generations. It is not released into the atmosphere as CO2, as is the case when burning wood or leaving it to rot. The properties of GCC are equally good as those of hardwood, without requiring treatment with wood preservatives. This makes it ideal as “wood for garden use” and marks it as a sustainable, recyclable alternative to rare tropical hardwoods.
Commitment	We comprehensively implement the Cradle to Cradle® design principles in compliance with our own values.
Cradle to Cradle®	Cradle to Cradle® is a design philosophy developed by Prof. Dr. Michael Braungart and William McDonough. It refers to safe and potentially infinite circulation of substances and nutrients in cycles. All components are chemically safe and recyclable. Waste as we know it today, produced in accordance with the take-make-waste model that used to be applied, ceases to exist under this approach. Only useful nutrients remain.
Cradle to Cradle Certified®, C2C Certified®	Cradle to Cradle Certified® is the world's most advanced science-based standard for safe, circular, and responsibly produced materials and products. It is the key to transforming the traditional linear economic model into a circular economy backed by products with a positive impact on people and planet. The Cradle to Cradle Certified® product standard is based on the Cradle to Cradle® design principles defined by William McDonough and Prof. Dr. Michael Braungart.
Quality and energy management	The production sites are certified to DIN EN 9001 and DIN EN 50001.

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