



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

13392-10-1001

Bodentreppe Designo

Product group: Wooden stairs - Loft stairs



Roto Frank Treppen GmbH
Gutenbergstraße 21
86356 Neusäß



Product qualities:











Köttner

Helmut Köttner
Scientific Director
Freiburg, 05 May 2026



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The SHI Database is the first and only database for construction products whose comprehensive processes and data accuracy are regularly verified by the independent auditing company SGS-TÜV Saar





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SHI Product Assessment 2024

Since 2008, Sentinel Holding Institut GmbH (SHI) has been establishing a unique standard for products that support healthy indoor air. Experts carry out independent product assessments based on clear and transparent criteria. In addition, the independent testing company SGS regularly audits the processes and data accuracy.

Criteria	Product category	Harmful substance limit	Assessment
SHI Product Assessment	Wood materials	TVOC $\leq 300 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 36 \mu\text{g}/\text{m}^3$	Indoor Air Quality Certified
Valid until: 04 May 2028			



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QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	9.1 Wood-based materials (plywood, OSB, and HPL)	Formaldehyde / VOC / emissions / hazardous substances / SVHC: boron compounds	QNG ready

Verification: Emissionsprüfbericht des Instituts Eco-Institut vom 25.08.2022 / Prüfbericht Nr. 57274-A001-L. Herstellererklärung vom 20.08.2025.



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DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	47 Coated and uncoated wood-based materials: particle board, blockboard, veneer panels, fibreboard	Formaldehyde emissions	Quality level 4
Verification: Emissionsprüfbericht des Instituts Eco-Institut vom 25.08.2022 / Prüfbericht Nr. 57274-A001-L			

Criteria	Assessment
SOC1.2 Indoor air quality (*)	May positively contribute to the overall building score
Verification: SHI-Schadstoffgeprüft	

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	Coated and uncoated wood-based materials	VVOC, VOC, SVOC emissions	Quality level 4
Verification: Emissionsprüfbericht des Instituts Eco-Institut vom 25.08.2022 / Prüfbericht Nr. 57274-A001-L			



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DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	47a Industrially manufactured products	Formaldehyde	Quality level 4

Verification: Emissionsprüfbericht des Instituts Eco-Institut vom 25.08.2022 / Prüfbericht Nr. 57274-A001-L



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BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

Criteria	Pos. / product type	Considered substance group	Quality level
1.1.6 Risiken für die lokale Umwelt	41 Wood-based panels according to EN 13986, such as chipboard, plywood, fiberboard, medium-density fiberboard (MDF), plywood, solid wood panels, and OSB panels, as well as veneer plywood	VOC / formaldehyde / hazardous substances	Quality level 4

Verification: Emissionsprüfbericht des Instituts Eco-Institut vom 25.08.2022 / Prüfbericht Nr. 57274-A001-L. Herstellererklärung vom 20.08.2025.



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EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

Criteria	Product type	Considered substances	Assessment
DNSH - Pollution prevention and control		Substances according to Annex C	EU taxonomy compliant

Verification: Emissionsprüfbericht des Instituts Eco-Institut vom 25.08.2022 / Prüfbericht Nr. 57274-A001-L. Herstellererklärung vom 20-08-2025.



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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

Criteria	Product category	Considered substances	Quality level
Hea 02 Indoor Air Quality	Wood-based products	Emissions: Formaldehyde, TVOC, TSVOC, carcinogens	Exemplary quality
Verification: Emissionsprüfbericht des Instituts Eco-Institut vom 25.08.2022 / Prüfbericht Nr. 57274-A001-L			



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LEED v4.1

LEED (Leadership in Energy and Environmental Design) is an internationally recognised building certification system developed by the U.S. Green Building Council. It is one of the most widely used sustainability standards for buildings worldwide and is particularly applied in internationally oriented projects. LEED assesses buildings holistically across categories such as energy efficiency, resource conservation, material selection, indoor environmental quality and site sustainability. Depending on the number of points achieved, projects are awarded one of the certification levels: LEED Certified, Silver, Gold or Platinum.

Criteria	Product category	Considered substances	Assessment
EQ Credit: Low-Emitting Materials	Holzwerkstoffe	Emissionen: Formaldehyd, VOC, Krebserregende Stoffe	compliant
Verification: Emissionsprüfbericht des Instituts Eco-Institut vom 25.08.2022 / Prüfbericht Nr. 57274-A001-L			



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Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.



Products bearing the Sentinel Holding Institute QNG-ready seal are suitable for projects aiming to achieve the "Qualitätssiegel Nachhaltiges Gebäude" (Quality Seal for Sustainable Buildings). QNG-ready products meet the requirements of QNG Appendix Document 3.1.3, "Avoidance of Harmful Substances in Building Materials." The KfW loan program Climate-Friendly New Construction with QNG may allow for additional funding.



This product is SHI Indoor Air Quality certified and recommended by Sentinel Holding Institut. Indoor-air-focused construction, renovation, and operation of buildings is made possible by transparent and verifiable criteria thanks to the Sentinel Holding concept.



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Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

Find our criteria here: <https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfverfahren%20f%C3%BCr%20Produkte>

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Publisher

Sentinel Holding Institut GmbH
Bötzingen Str. 38
79111 Freiburg im Breisgau
Germany
Tel.: +49 761 590 481-70
info@sentinel-holding.eu
www.sentinel-holding.eu

Der Testsieger beim TÜV Rheinland.

Bodentreppe Designo



Die Vorteile im Überblick

- + Hochwertiger Fensterbeschlag aus dem Hause Roto mit 6 Verriegelungspunkten.
- + So dicht wie ein Fenster dank Fensterbeschlag und Fensterdichtung.
- + Dämm- und Dichtblock (WDL) bereits vormontiert und ein vorgebohrter Lukenkasten setzen neue Maßstäbe für Energieeffizienz, Montagefreundlichkeit und langlebige Qualität.
- + Einbaufertig mit serienmäßigem Zubehör: Handlauf, Montageschrauben, Schutzkappenfüße, Bedienstab mit 4-Kant, steckbare Abdeckleisten in weiß (Kunststoff), Dämm- und Dichtblock am Lukenkasten, vorgebohrter Lukenkasten (vereinfachte Montage)



Dieses Produkt auf
masstrepfen.de konfigurieren.



Technik und Produkteigenschaften

Energielabel	+ Bauelement: 0,60 W/m ² K* + DD Ausführung: 0,29 W/m ² K*
Energieeffizienz	+ Luftdurchlässigkeit Klasse 4 geprüft** + umlaufende Dichtung mit geschlossenen Ecken + Wärmedämmung im Deckel / Sandwichbauweise
Lukenkasten und Deckel	+ Lukenkasten weiß + Lukendeckel weiß, feuchteresistent mit Melaminharzbeschichtung + Deckelkante weiß + Verschluss durch 6-Punkt-Verriegelung + Deckenbündiger Einbau möglich + Ansprechendes Design - Verschluss flächenbündig ohne Zughaken + Kastenhöhe: 20 cm + Einbauluft: 2 cm
Treppe	+ Holzleiter 3-tlg. aus Nadelholz + Stufen: 33 cm breit / 8 cm tief + Trittstufen mit Antirutschprofil + Belastbarkeit 180 kg + Neigungseinstellung durch Stellschraube
ift Rosenheim geprüft	+ Luftdurchlässigkeit (a-Wert) + Anschlussystem** (WDL)

Roto Bodentreppe Designo ist Gesamtsieger der von uns beauftragten Zufriedenheitsstudie des TÜV Rheinland Polska, dies im Durchschnitt aller Bewertungen der Befragten in allen drei Kategorien „Produktqualität“, „Montagefreundlichkeit“ und „Anwenderfreundlichkeit“. Im Test: 3 Bodentrepfen. Detaillierte Testergebnisse unter: www.ROTO-treppen.de/testergebnisse.

*herstellereberechnet nach DIN EN ISO 6946 **geprüft durch ift Rosenheim nach DIN EN 12207 / 12114



Roto Frank Treppen GmbH
Gutenbergstraße 21, 86356 Neusäß

Ansprechpartner
Jehle, Sabrina

Telefon +49 821 46051 0

Neusäß,
20. August 2025

Herstellereklärung zu unseren Treppenprodukten

Sehr geehrte Damen und Herren,

hiermit bestätigen wir Ihnen zu unseren Treppen-Produkten

- **Bodentreppe Designo**
- **Flachdachausstieg mit Bodentreppe Designo**
- **Flachdachausstieg mit Scherentreppe Exklusiv**
- **Bodentreppe Cadet 3 Norm**

wie folgt:

- beinhaltet keine SVHC über 0,1 %
- beinhaltet keine Reproduktionstoxische Borverbindungen über 0,10 % (BNB/41, QNG/9.1)
- beinhaltet keine CMR-Stoffe der Kategorien 1A/1B über 0,1 %

Wir hoffen, Ihnen mit diesen Informationen weitergeholfen zu haben und stehen für weitere Fragen gerne zur Verfügung.

Freundliche Grüße

Viets, Sabrina

sabrina.viets@rotofrank.com