

Environmental & Health Data Sheet

Self-declaration according to ISO 14021



EGGER Decorative Particleboards E1 P2

EGGER Decorative Particleboards is the standard board for furniture and interior design. EGGER Raw Particleboards E1 P2 is used as a core board for dry interiors. It is finished with a decorative melamine resin coating. The standard board EGGER Decorative Particleboards E1 P2 is available in various decor and texture combinations.

Raw Materials & Primary Products

Wood origin

Our plants are certified according to the standard ISO 38200:2018, all paper can be referred to the ISO 38200: 2018 statements. On request and in agreement with your contact person at the EGGER sales department, our products can be declared on our sales documents also with other certification claims, depending on the availability at the production site. Please inquire availability details from your sales or certificates and an up-to-date list of the regional origin and wood species used in the product, see document available for download at www.egger.com/environment:

Manufacturer's Declaration – Timber origins (Pdf)

- [Manufacturer Declaration – Sustainable Forestry \(Pdf\)](#)
- [Certificate ISO 38200:2018 \(Pdf\)](#)
- Further 3rd party certificates of sustainable wood procurement [\(Pdf\)](#) [\(Pdf\)](#)

Renewable content

	Renewable content	Fossil-based content
EGGER Decorative Particleboards E1 P2	84 %	16 %

Average renewable resource content by dry weight, in relation to all constituent materials (incl.wood, glue, resin and others). Figures may vary between thicknesses.

Recycled content

	Virgin material	Co-products	Pre-consumer recycling material	Post-consumer recycling material
EGGER Decorative Particleboards E1 P2	46 %	29 %	4 %	21 %

Average recycling content by dry weight, in relation to all constituent materials (incl.wood, glue, resin and others). Figures may vary between thicknesses.

Carbon Footprint

	Global warming potential
1 m ² EGGER Decorative Particleboards E1 P2	-13.3 kg CO ₂ -equivalent

A negative amount indicates that carbon is stored in the product. Data on carbon storage in products (carbon footprint) is taken from the Life Cycle Assessment (LCA) in the Environmental Product Declaration (EPD). GWP 100 (global warming potential over 100 years), cradle-to-gate.

Constituent materials

The EGGER Decorative Particleboards E1 P2 is a melamine faced particleboard, containing the core board and two lamination layers. The table below contains 99.9% of the primary products, measured by weight. Proportions may vary between individual product thicknesses. Listed is the average across all thicknesses in one production year. All chemicals have been evaluated and are disclosed down to 1000 ppm.

Proportion		Function	Composition / Add. info
83	%	Dry wood chips (core board)	Industrial round wood, Saw mill by-products, Pre-consumer recycling wood and Post-consumer recycling wood
12	%	Glue (core board)	Mix of Urea-Formaldehyde Glue (UF) and Urea-Melamine-Formaldehyde Glue (UMF)
3	%	Decorative surface layer	43 % décor paper (virgin cellulose, print color)
			57 % melamine-formaldehyde resin / <i>during the pressing process, the aminoplastic adhesive hardens fully. Under normal conditions, it is bound to the wood and chemically stable</i>
< 1	%	Hydrophobing agent (core board)	Paraffine wax emulsion
< 1	%	Hardener (core board)	Ammonium nitrate / Ammonium sulphate / <i>chloride-free</i>
< 1	%	Formaldehyde scavenger (core board)	Technical Urea
< 1	%	Glue (core board)	Isocyanate (MDI) <i>during the pressing process, the MDI hardens fully into polyurethane. Under normal conditions, it is bound to the wood and chemically stable</i>

Manufacturing

Production plants & their certifications

The product is manufactured at the following locations. You find the plant certifications available for download at www.egger.com/environment. For production plant's address kindly see footnotes at the end of this document.

Plant ⁱ	Certifications ⁱⁱ obtained by this plant			
	Quality	Environment	Energy	Wood origin
Unterradlberg, AT	ISO 9001	ISO 14001, EMAS	–	ISO 32800
Hexham, UK	ISO 9001	ISO 14001	ISO 50001	ISO 32800
Shuya, RU	ISO 9001	–	–	ISO 32800
Gagarin, RU	ISO 9001	–	–	ISO 32800
Rădăuți, RO	ISO 9001	ISO 14001	–	ISO 32800
Concordia, AR	ISO 9001	–	–	ISO 32800
Biskupiec, PL	ISO 9001	ISO 14001	–	ISO 32800

Processing

Safety

This product is not hazardous in the form in which it is shipped by the manufacturer. Downstream activities (e.g. grinding, sanding, cutting or pulverizing) may generate wood dust, which is hazardous. Wear a respiratory mask if using hand tools without a dust extraction device. Observe all liability insurance association regulations for commercial processing operations (e.g. safety goggles).

Processing instructions

See

- Processing Instructions Decorative Particleboards (Pdf)

available at the product download area at www.egger.com/products

Maintenance instructions

See

- EGGER Decorative Particleboards- Cleaning and care instructions (Pdf)
- EGGER Decorative Particleboards storage and transport guidelines (Pdf)

available at the product download area at www.egger.com/products

Technical data

See Technical Datasheets available at the product download area at www.egger.com/products

Use

On request the products can be labelled with a certification claim according to:

- ISO 38200:2018
- Further 3rd party certificates of sustainable wood procurement

To download certificates, see EGGER environmental downloads at www.egger.com/environment and product category`s downloads at www.egger.com/products.

Product emissions & Health aspects

Natural wood constituents may be released in small quantities. Minor amounts of formaldehyde can be detected. During the EGGER Decorative Particleboards E1 P2's manufacturing processes, heat and pressure is applied in a short cyclepress. All resins cure completely into a solid material. In the use phase, the product is chemically stable under normal conditions. There are no known health hazards or health effects to be expected under normal conditions, when the product is used as intended.

The following table contains an overview of requirements, on which the product has been tested by an independent third party and fulfills the emission requirements. See Annex for limit values and further details.

Substance / indicator	Product has been tested and fulfils emission requirement	Requirement	Requirement details ⁱⁱⁱ
Formaldehyde	✓	E1	Formaldehyde class E1, according to EN DIN EN 16516, external testing

End of life – Waste treatment

Reuse

During remodeling or at the end of the utilization phase of a building, the product can easily be separated and used again for the same applications, if selective deconstruction is practiced. This is only possible if the product has not been bonded over its entire surface.

Recycling – Material use

Leftovers which accrue on the construction site as well as those from deconstruction measures should primarily be routed to a material utilization stream (use as post-consumer recycling material). The product can be recycled and used for the same purpose, since waste wood from furniture is a secondary material already used in the production of new particleboards.

Incineration – Energetic use

After its utilization phase, the product should be separated and routed to an energetic recovery, due to its high calorific value of approx. 16.7 MJ/kg. Upon incineration, kindly observe all locally applicable legal requirements for the correct dimensions, required filter technologies, operating conditions, and legal permissions for burning wood-based panels/particleboards.

Waste code according to European Waste Catalogue, depending on origin of the waste:

- 17 02 01 Construction & Demolition Waste Wood or
- 03 01 05 sawdust, shavings, cuttings, wood, particle board and veneer not containing hazardous substances

The product is not classified as hazardous waste. Used EGGER Decorative Particleboards E1 P2 can be classified as glued, laminated waste wood without halogenated compounds in the lamination layer and without wood preservatives.

See also document available for download at www.egger.com/environment:

- Manufacturer's Declaration – Wood preservatives (Pdf)
- Manufacturer's Declaration – Halogenated organic compounds (Pdf)

Environmental life cycle assessment

The product has a verified Environmental Product Declaration (EPD) according to ISO 14025 and EN 15804.

- EPD EGGER Decorative Particleboards (Pdf)
available for download at www.egger.com/environment



Compliance with LEED v4

The EGGER Decorative Particleboards E1 P2 is compliant with the prerequisites for use in LEED certified buildings outside the U.S. Beyond that the usage of a EGGER Decorative Particleboards E1 P2 contributes to gather additional points within the LEED scoring system. The following table shows all LEED credits which are applicable to the usage of our product. As the actually achievable number of points depends on the attributes of all used materials in the LEED building project and further actions by the constructor, we cannot guarantee to obtain the maximum score. For full requirement terms see LEED credit library at www.usbc.org.

Projects outside U.S.

LEED v4 Requirements for Building Design + Construction (BD+C) New Construction, Core and Shell, Schools, Retail, Healthcare, Data Centers, Hospitality, Warehouses and Distribution Centers			Product contributions
LEED v4 Requirements for Interior Design + Construction (ID+C) Commercial Interiors, Retail, Hospitality			
Chapter	Requirement summary	Maximum Points	
Material and Resources	Building Product Disclosure and Optimization - Environmental Product Declarations Option 1. Environmental Product Declaration (EPD)	1 Point	This product has a verified Environmental Product Declaration (EPD) according to ISO 14025 and EN 15804. See ▪ EPD EGGER Decorative Particleboards MFC (Pdf) available for download at www.egger.com/environment
	Material and Resources	Building Product Disclosure and Optimization - Sourcing of Raw Materials Option 1.:Raw material source and extraction reporting Third-party verified corporate sustainability reports (CSR) according to an accepted framework.	2 Points
Material and Resources	Building Product Disclosure and Optimization - Sourcing of Raw Materials Option 2.3: Wood products must be certified by the Forest Stewardship Council® (FSC®) or USGBC-approved equivalent.	Yes, the product can be purchased in 3rd party certified qualities on request. Use delivery receipt as evidence document. See also chapter "Wood origin" of this document.	
Material and Resources	Building Product Disclosure and Optimization - Sourcing of Raw Materials Option 2.5: Recycled content is the sum of postconsumer recycled content plus one-half the preconsumer recycled content	1 Point	Recycled content of the product (based on weight) =21 % + 4% /2 =23% . See "Constituent materials" section above to obtain further information.
Material and Resources	Building Product Disclosure and Optimization - Material Ingredients Option 1: Declare.	1 Point	The manufacturer has screened the product to at least 1,000 ppm and has provided a publicly available inventory. See "Constituent materials" section above to obtain further information.
	Indoor Environmental Quality	Low-emitting Materials- VOC emissions evaluation (product categories ceilings, walls, acoustic insulation only) Product complies with the LCI values of the German AgBB Testing and Evaluation Scheme	3 Points
Indoor Environmental Quality	Low-emitting Materials- Formaldehyde emissions evaluation For projects outside the U.S. , composite wood must be documented not to exceed a concentration limit of 0.05 ppm of formaldehyde.	<i>Product is tested per EN 717-1:2014 for formaldehyde emissions and complies with emissions class E1. As the concentration limit of this requirement is 0.1 ppm, it is not met by the E1 emissions class. Please ask your sales contact for an alternative product to meet this criterion.</i>	

Projects inside U.S.

Please note that formaldehyde emission requirements in LEED v4 are deviating for projects **inside the U.S.**

LEED v4 Requirements for Building Design + Construction (BD+C) New Construction, Core and Shell, Schools, Retail, Healthcare, Data Centers, Hospitality, Warehouses and Distribution Centers LEED v4 Requirements for Interior Design + Construction (ID+C) Commercial Interiors, Retail, Hospitality			Product contributions
Chapter	Requirement summary	Maximum Points	
Material and Resources	Building Product Disclosure and Optimization - Environmental Product Declarations Option 1: Environmental Product Declaration (EPD)	1 Point	This product has a verified Environmental Product Declaration (EPD) according to ISO 14025 and EN 15804. See EPD EGGER Decorative Particleboards MFC (Pdf) available for download at www.egger.com/environment
	Building Product Disclosure and Optimization - Sourcing of Raw Materials Option 1: Raw material source and extraction reporting Third-party verified corporate sustainability reports (CSR) according to an accepted framework.	2 Point	An annual Sustainability report is published in accordance with the GRI standards: "Core" option, and is audited by an independent party. See Sustainability report (Pdf) available for download at www.egger.com/environment .
Material and Resources	Building Product Disclosure and Optimization - Sourcing of Raw Materials Option 2.3: Wood products must be certified by the Forest Stewardship Council® (FSC®) or USGBC-approved equivalent.		Yes, the product can be purchased in 3 rd party certified qualities on request . Use delivery receipt as evidence document. See also chapter "Wood origin" of this document.
Material and Resources	Building Product Disclosure and Optimization - Sourcing of Raw Materials Option 2.5: Recycled content is the sum of postconsumer recycled content plus one-half the preconsumer recycled content, based on cost.	1 Point	Recycled content of the product (based on weight) = 21 % + 4% / 2 = 23% . See "Constituent materials" section above to obtain further information.
Material and Resources	Building Product Disclosure and Optimization - Material Ingredients Option 1: Declare.	1 Point	The manufacturer has screened the product to at least 1,000 ppm and has provided a publicly available inventory. See "Constituent materials" section above to obtain further information.
Indoor Environmental Quality	Low-emitting Materials- Formaldehyde emissions evaluation: Composite wood must be documented to have low formaldehyde emissions that meet the requirements for ultra-low-emitting formaldehyde (ULEF) resins or no added formaldehyde resins.		<i>The product does not fulfil ULEF requirements. For core board and decorative surface glue and resins on a formaldehyde base are used.</i>

Compliance with WELL Building Standard v2™

EGGER Decorative Particleboards E1 P2 is compliant with the preconditions for use in WELL v2™ certified buildings. Beyond that the usage of this product may contribute to gather additional points within the WELL scoring system. The following table shows all WELL features which are applicable to the usage of our product. *Requirements given in italics are currently not met by the product.* As the actually achievable number of points depends on the attributes of all used materials in the WELL building project and further actions by the constructor, we cannot guarantee to obtain the maximum score. For full requirement terms see WELL feature library at www.wellcertified.com.

Requirements			Product contributions
Chapter	Requirement summary	Maximum Points	
X01 Material Precautions	Restrict asbestos, mercury and lead.	Precondition	The product complies with this precautions. See Manufacturer's Declaration – Asbestos (Pdf) available for download at www.egger.com/environment . Please get in touch with the EGGER product sustainability & compliance team at environment@egger.com to get further declarations concerning the non-use of mercury and lead .
X05 Enhanced Material Restrictions	Part 2a Select Compliant Architectural and Interior Products: Flooring products, ceiling and wall panels contain halogenated flame retardants (HFR) at less than 100 ppm.	1 Point	The product complies with this requirement. No halogenated flame retardants (HFR) are used in this product. See "Constituent materials" section above for your documentation. Please get in touch with the EGGER product sustainability & compliance team at environment@egger.com to get Manufacturer's declaration on the use of halogenated compounds (Pdf).
X05 Enhanced Material Restrictions	Part 2a Select Compliant Architectural and Interior Products: Newly installed floorings and furniture contain Orthophthalates at less than 100 ppm.		In general, no softening agents are used in the production of particleboards , in particular no phthalates. See "Constituent materials" section above for your documentation.
X06 Volatile Compound reduction	Part 2a Restrict VOC Emissions from Furniture, Architectural and Interior Products: Furniture and wall panels tested per AgBB or CDPH method and VOC emission threshold established.	2 Points	No general documentation of VOC emissions available for EGGER Decorative Particleboards E1 P2. If the product is counted as ceiling, wall, or acoustic insulation in your project, please ask your sales contact for an alternative product to meet this criterion. Otherwise, no VOC test is required.
X06 Volatile Compound reduction	Part 2c2 Restrict VOC Emissions from Furniture, Architectural and Interior Products: Composite wood panels meet the formaldehyde standards European E1, TSCA, F*** or LEED v4.1		Product is tested per EN 717-1:2014 for formaldehyde emissions and complies with European emission class E1. Please get in touch with your EGGER sales contact or distributor, who are happy to forward the inquiry to get EGGER Decorative Particleboards E1 P2's Formaldehyde test report (Pdf).
X07 Material Transparency	Part 1: Select Products with Disclosed Ingredients: Promote ingredient disclosure with ingredients identified and disclosed to 1,000 ppm.	1 Point	The product is screened to at least 1,000 ppm and the manufacturer has provided a publicly available inventory within this document. See "Constituent materials" section above for your documentation.
X08 Materials Optimization	Part 1 Select Material with Enhanced Chemical Restrictions: Newly installed furnishings, built-in furniture, interior finishes and finish materials comply with some combination of the listed programs (e.g. Living Building Challenge Red List Free)	2 Points	<i>Currently our product does not participate in any of the listed programs. It does not contribute to achieve points for this requirement.</i>
X08 Materials Optimization	Part 2 Select Optimized Products: Product is certified by one of the listed programs (e.g. Cradle to Cradle)		<i>Currently our product does not participate in any of the listed programs. It does not contribute to achieve points for this requirement.</i>

Compliance with Nordic Swan Ecolabel

Small houses, apartment buildings and buildings for schools and pre-schools

The product EGGER Decorative Particleboards E1 P2 is listed in the database for building products that can be used in Nordic Swan Ecolabelled buildings (Portal Nordic Ecolabelling) under the Manufacturer's name Egger, Fritz GmbH & Co. As an applicant for an Ecolabelled building, please inform your Nordic Swan certifier about the product listing. For the use of EGGER Decorative Particleboards E1 P2 no other documents are necessary for your application.

Compliance with other labels & regulations

Additional information in the form of manufacturer declarations, EPDs and brochures is available at

- www.egger.com/environment

Your label or regulation is missing? The EGGER product sustainability & compliance team is happy to support you with suitable information on the requirements. Please get in touch with

- environment@egger.com

or contact your EGGER sales contact or distributor, who are happy to forward the inquiry.

Footnotes

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Production plant	Address
Unterradlberg, AT	FRITZ EGGER GmbH & Co. OG Holzwerkstoffe, Tiroler Straße 16, -3105 Unterradlberg (AT)
Hexham, UK	EGGER (UK) Ltd, Anick Grange Road, Hexham, Northumberland, NE46 4JS (UK)
Shuya, RU	OOO "EGGER Drevprodukt Shuya", Yuzhnoe shosse 1, 155908 Ivanovo region, Shuya (RU)
Gagarin, RU	OOO "EGGER Drevprodukt Gagarin", Ezhvinsky proezd 1, 215010 Gagarin, Oblast Smolensk (RU)
Radauti, RO	SC EGGER România SRL, Str. Austriei 2, PO Box 38, 725400 Radauti, jud. Suceava (RO)
Concordia, AR	EGGER Argentina S.A., Av Rucci s/N°, Parque Industrial, 3200 Concordia, Entre Ríos (AR)
Biskupiec, PL	Egger Biskupiec sp. z o.o., Biskupiec-Kolonia Druga, Ul. Św. Józefa 1, 11-300 Biskupiec (PL)

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Product Certifications	
ISO 38200:2018	ISO 38200:2018 Chain of Custody of wood and wood-based products

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Substance	Requirement	Norm reference	Limit value	Testing method
Formaldehyde	E1	Chemicals Act (Chemicals Prohibition Ordinance; German: Chemikalien-Verbotsverordnung, ChemVerbotsV), Appendix 1 to Section 3, Entry 1: "Formaldehyde" Clause 2(1)	0.1 ppm	DIN EN 16516

