

Environmental & Health Data Sheet

Self-declaration according to ISO 14021

EGGER Thin-MDF Lacquered Boards

The EGGER Thin-MDF Lacquered Board is a decorative, lacquered product with thin MDF as a core board used in interior applications such as furniture back panels, foldable elements, drawer bottoms and door blanks.



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 contact.

For 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)
- Certificate ISO 38200:2018 (Pdf)
- Certificates of further claims of sustainable wood procurement (Pdf)

Renewable content

	Renewable content	Fossil-based content
EGGER Thin-MDF Lacquered Board	84%	26%

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

Recycled content

	Virgin material	Co-products	Preconsumer recycling material	Postconsumer recycling material
EGGER Thin-MDF Lacquered Board	37%	63%	-	-

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

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Constituent materials

The table below contains 99.9% of the primary products, measured by weight. Proportions may vary between individual product thicknesses. Listed is the average in one production year. All chemicals have been evaluated and are disclosed down to 1000 ppm.

Proportion		Function	Composition/ Add. info
79	%	Dry wood fibres (core board)	Industrial round wood, Saw mill by-products
13	%	Glue (core board)	Urea-Formaldehyde Glue (UF) <i>during the pressing process, the aminoplastic adhesive hardens fully. Under normal conditions, it is bound to the wood and chemically stable.</i>
6	%	Lacquer system	Water-based sealer* Water-based base coat* Water-based décor coat (H/F only)* UV top coat: acrylic resin. UV curing <i>*no substances to be declared according REACH regulation 1907/2006 annex II.</i>
1	%	Hardener (core board)	Ammonium nitrate / Ammonium sulphate / <i>chloride-free</i>
<1	%	Hydrophobing agent (core board)	Paraffine wax emulsion

Manufacturing

Production plants & their certifications

The product is manufactured at the following locations. For addresses kindly see footnotes at the end of this document.

Plant ⁱ	Certifications obtained by this plant				
	ISO 9001	ISO 14001	ISO 50001	EMAS	ISO 38200
Marienmünster, D	✓	✓	✓	-	✓

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).

Technical data

See document available for download at www.egger.com

- Thin MDF Lacquered (English/Pdf)

Use

Product certification

The product is certifiedⁱⁱ according to:

- ISO 38200:2018

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

- Further certifications for chain of custody of wood origin

To download certificates, see EGGER environmental downloads at www.egger.com/environment

Product emissions & Health aspects

Natural wood constituents may be released in small quantities. Minor amounts of formaldehyde can be detected. During the Thin-MDF Lacquered board's manufacturing processes, heat and pressure is applied in a short cycle press. 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 product is subjected to annual tests within the scope of VOC surveillance by an independent third party. 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 further details.]

Substance / indicator	Product has been tested and fulfils emission requirement	Requirement	Requirement details ⁱⁱⁱ
Formaldehyde	✓	Emission class E1 (Germany) \cong E1E05	German ChemVerbotsVO Formaldehyde class E1 from 1.1.2020, external testing
Formaldehyde	✓	TSCA	U.S. Toxic Substances Control Act, external testing (core board)
PAK/ PAH	✓	AfPS GS 2019:01, Category 1	Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of awarding the GS mark (Toy Safety), Category 1: Materials indented to be put in the mouth, or materials of toys with intended long-term skin contact (longer than 30 s)
VOC, Toxic substances	✓	IOS-MAT 0010 (Ver. AA-10911-15)	Specification on chemical compounds and substances

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 arise 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 chipboard.

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. **~17 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/chipboard.

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 Thin-MDF lacquered board can be classified as glued, coated waste wood without halogenated compounds in the coating 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)

Compliance with LEED v4

EGGER Thin-MDF lacquered board is compliant with the prerequisites for use in LEED certified buildings outside the U.S. Beyond that the usage of EGGER Thin-MDF lacquered board 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. *Requirements given in italics are currently not met by the product.* 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	<i>Building Product Disclosure and Optimization - Environmental Product Declarations</i>	1 Point	<i>This product no EPD.</i>
	<i>Option 1. Environmental Product Declaration (EPD)</i>		
Material and Resources	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2 Point	An annual Sustainability report is published in accordance with the GRI standards: "Core" option, and is audited by an independent party. See <ul style="list-style-type: none"> Sustainability report (Pdf) available for download at www.egger.com/environment.
	Option 1.:Raw material source and extraction reporting Third-party verified corporate sustainability reports (CSR) according to an accepted framework.		
Building Product Disclosure and Optimization - Sourcing of Raw Materials			
Material and Resources	Option 2.3: Wood products must be certified by the Forest Stewardship Council or USGBC-approved equivalent.		The products is verified by the ISO 38200 : 2018 statements. Additionally, the product can be purchased in other certified qualities on request. Use delivery receipt as evidence document. See also chapter "Wood origin" of this document.
	Building Product Disclosure and Optimization - Sourcing of Raw Materials		Recycled content of the product (based on weight) = 0% + 63%/2 = 32.5% . See "Constituent materials" section above to obtain further information.
Material and Resources	Option 2.5: Recycled content is the sum of postconsumer recycled content plus one-half the preconsumer recycled content, based on cost.		
	Building Product Disclosure and Optimization - Material Ingredients	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.
Option 1: Declare.			
Indor Environmental Quality	Low-emitting Materials- Formaldehyde emissions evaluation		Product is tested per EN 717-1:2014 for formaldehyde emissions and complies with emissions class E1. See "Product emissions & Health aspects" section above for further information. Please get in touch with your EGGER sales contact or distributor, who are happy to forward the inquiry to get Thin-MDF lacquered board Formaldehyde test report (Pdf)
	For projects outside the U.S. , composite wood must be documented not to exceed a concentration limit of 0.05 ppm of formaldehyde.		

Projects inside U.S.

Please note that formaldehyde emission requirements in LEED v4 are deviating for projects **inside the U.S.** *Requirements given in italics are currently not met by the product.*

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	<i>Building Product Disclosure and Optimization - Environmental Product Declarations</i>	1 Point	<i>This product no EPD.</i>
	<i>Option 1. Environmental Product Declaration (EPD)</i>		
Material and Resources	Building Product Disclosure and Optimization - Sourcing of Raw Materials	1 Point	The products is verified by the ISO 38200 : 2018 statements. Additionally, the product can be purchased in other certified qualities on request. Use delivery receipt as evidence document. See also chapter "Wood origin" of this document.
	Option 2.3: Wood products must be certified by the Forest Stewardship Council or USGBC-approved equivalent.		
Material and Resources	Building Product Disclosure and Optimization - Sourcing of Raw Materials	1 Point	Recycled content of the product (based on weight) = 0% + 63%/2 = 32.5% . See "Constituent materials" section above to obtain further information.
	Option 2.5: Recycled content is the sum of postconsumer recycled content plus one-half the preconsumer recycled content, based on cost.		
Material and Resources	Building Product Disclosure and Optimization - Material Ingredients	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.
	Option 1: Declare.		
Indor Environmental Quality	<i>Low-emitting Materials- Formaldehyde emissions evaluation:</i>	3 Points	<i>The product does not fulfil ULEF requirements. For core board and decorative surface glue and resins on a formaldehyde base are used.</i>
	<i>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>		

Compliance with WELL Building Standard v2™

EGGER Thin-MDF lacquered board 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.
X05 Enhanced Material Restrictions	Part 2a Select Compliant Architectural and Interior Products: Newly installed floorings and furniture contain Orthophthalates at less than 100 ppm.		No phthalates detectable in the product. Please get in touch with the EGGER product sustainability & compliance team at environment@egger.com to get Thin-MDF lacquered board Phthalates test report (Pdf)
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.	1 Point	<i>Currently no VOC emission classification according AgBB or CDPH available.</i>
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 emissions class E1. See "Product emissions & Health aspects" section above for further information. Please get in touch with your EGGER sales contact or distributor, who are happy to forward the inquiry to get Thin-MDF lacquered board 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 BREEAM International New Construction 2016

EGGER Thin-MDF lacquered board is compliant with the preconditions for use in BREEAM 2016 certified buildings and fulfils the emission requirements at exemplary level. Beyond that the usage of this product may contribute to gather additional points within the BREEAM scoring system. The following table shows all BREEAM credits which are applicable to the usage of our product. As the actually achievable number of credits depends on the attributes of all used materials in the BREEAM building project and further actions by the constructor, we cannot guarantee to obtain the maximum score. For full requirement terms see BREEAM manual at www.breeam.com.

Requirements			Product contributions
Chapter	Requirement summary	Maximum Credits	
Mat 01 Life cycle impacts	<i>Environmental product declarations (EPD) – product installed by Post-Construction Stage is covered by verified EPD</i>	1 Credits	<i>This product has no EPD.</i>
Mat 03 Responsible sourcing of construction products	All timber-based products used on the project are Legally harvested and traded timber.	Prerequisite	The products is verified by the ISO 38200 : 2018 statements. This standard takes into account all legal requirements in the respective purchasing or production country and all environmental and social criteria known in the ISO system. Additionally, the product can be purchased in other certified qualities on request. Use delivery receipt as evidence document. See also chapter "Wood origin" of this document.
Hea 02 Indoor air quality	Avoidance of asbestos.	Prerequisite	The product complies with this prerequisite. See <ul style="list-style-type: none"> ▪ Manufacturer's Declaration – Asbestos (Pdf) available for download at www.egger.com/environment
Hea 02 Indoor air quality	Minimising sources of pollution - Emissions from building products. Product should meet the exemplary level emission criteria Formaldehyde ≤ 0.06 mg/m ³ TVOC ≤ 1.0 mg/m ³ Category 1A and 1B carcinogens ≤ 0.001 mg/m ³	1 Credit	<i>The product does not meet the documentation requirements of the exemplary level emissions criteria.</i>

Compliance with DGNB Gebäude Neubau 2018

As the DGNB certification system is primarily relevant for projects in the German-speaking countries, this chapter is given in German language.

Die DGNB Auszeichnungen Silber, Gold und Platin ergeben sich aus den Gesamterfüllungsgrad des Bauprojektes. Welche Qualitätsstufen das Produkt EGGER Thin-MDF lacquered board (Dünn-MDF Lackplatten) nach dem DGNB-System erfüllt und wo Sie die benötigten Nachweise finden, können Sie der folgenden Tabelle entnehmen. Die Beiträge zum Gesamterfüllungsgrad, die sich nach dem DGNB Punktesystem hieraus ergeben, hängen u.a. von der Relevanz der Produktgruppe für das Gesamtgebäude ab. Bitte beachten Sie, dass für die Gesamtbewertung des Gebäudes darüber hinaus noch weitere Kriterien von Bedeutung sind. Eine durch den Einsatz des Produktes EGGER Thin-MDF lacquered board (Dünn-MDF Lackplatten) zu erhaltende Punktzahl können wir daher nicht garantieren.

Themenfeld	Kriterien		Beitrag des Produktes
	Zusammenfassung Kriterium	Qualitätsstufe/ Bonus	
ENV1.1 Ökobilanz des Gebäudes	<i>Die Gebäude-Ökobilanz benötigt Baustoffdaten. Produktspezifische Daten (EPDs) werden bevorzugt.</i>	-	<i>Für das Produkt liegt keine Umweltproduktdeklaration (EPD) vor.</i>
ENV1.2 Risiken für die lokale Umwelt	Formaldehydgrenzwert für Holzwerkstoffe in Aufenthaltsräumen: RAL UZ 76 oder Formaldehyd <0,05 ppm in Prüfkammer.	4	Der Grenzwert wird eingehalten. Bitte wenden Sie sich an unseren Verkaufsservice, um einen aktuellen Formaldehydprüfbericht (Pdf) zu erhalten.
ENV1.3 Verantwortungsvolle Ressourcengewinnung	Zertifizierte verantwortungsbewusste Ressourcengewinnung eines Teils der Wertschöpfungskette.	1.2	Die Lieferkette von Holz und Papier sind nach ISO 38200 (Chain-of Custody, CoC) zertifiziert. Die Norm berücksichtigt alle Legalitätsanforderungen im jeweiligen Einkaufs- bzw. Produktionsland und alle im ISO System bekannten Umwelt- und Sozialkriterien. Sie finden das Dokument <ul style="list-style-type: none"> ▪ Herstellererklärung über die Holzherkünfte (Pdf) im Downloadbereich auf www.egger.com/umwelt .

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

i

Production plant	Address
Marienmünster (D)	EGGER Beschichtungswerk Marienmünster GmbH & Co. KG, Gewerbegebiet 4, 37696 Marienmünster (D)

ii

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

iii

Substance	Norm	Limit value*	Testing method	Accredited testing institute
Formaldehyde	According to EN 13986+A1:2015-04, Formaldehyde class E1	0.1 ppm	EN 717-1	EPH Entwicklungs- und Prüflabor Holztechnologie GmbH Dresden (D)
Formaldehyde	German Chemical Prohibition Ordinance (ChemVerbotsV) 2020	0.05 ppm, test results are multiplied by the factor 2	EN 717-1	EPH Entwicklungs- und Prüflabor Holztechnologie GmbH Dresden (D)
Formaldehyde	U.S. Toxic Substances Control Act (TSCA), requirements of EPA TSCA Title VI – § 770.10 b 1-4	0.09 ppm	ASTM D6007-14	EPH Entwicklungs- und Prüflabor Holztechnologie GmbH Dresden (D)
Σ PAK/ PAH	AfPS GS 2019:01 PAK/ PAH	< 1 mg/kg (Category 1)	AfPS GS 2019:01	TÜV Rheinland LGA Köln (D)
Sum of VOC requirements Acute toxic/ STOT substances: individual acute toxic substance class 1+2+3 and specific target organ toxic substance class RE1+SE1 Chronic toxic substances: individual CMR-substance cat. 1A+1B Chronic toxic substances: sum of all CMR-substances cat. 1A+1B	IOS-MAT 0010 (Ver. AA-10911-15)	≤ 1.2 mg/m ³ ≤ 30 µg/m ³ ≤ 10 µg/m ³ ≤ 50 µg/m ³	DIN EN ISO 16000-6, -9, -11	Fraunhofer WKI Braunschweig (D)

*emission classes are based on different test procedures, limit values are not directly comparable