

Environmental Product Declaration



Declaration Number EPD-EHW-2008311-E

Institut Bauen und Umwelt e.V. www.bau-umwelt.com

EGGER Raw and Melamine faced Medium and High Density Fibreboard



Institut Bauen und Umwelt e.V.



Summary UmweltProduktdeklaration Environmental Product-Declaration

	F TOUUC!-Declaration
Institut Bauen und Umwelt e.V. www.bau-umwelt.com	Program holder
Fritz EGGER GmbH & Co. Company Head Office Weiberndorf 20 A – 6380 St. Johann in Tyrol	Declaration holder
EPD-EHW-2008311-E	Declaration number
Egger raw / Melamine faced medium and high-density fibreboard This declaration is an environmental product declaration according to ISO 14025 and describes the environmental rating of the building products listed herein. It is intended to further the development of environmentally compatible and sustainable construction methods. All relevant environmental data is disclosed in this validated declaration. The declaration is based on the PCR document "Wood-based materials", year 2009-01.	Declared building products
This validated declaration authorises the holder to bear the official stamp of the Institut Bauen und Umwelt. It only applies to the listed products for one year from the date of issue. The declaration holder is liable for the information, evidence and verifications on which the declaration is based.	Validity
The declaration is complete and contains in its full form: - Product definition and physical building-related data - details of the basic materials and origin - description of how the product is manufactured - instructions on how to process the product - data on usage condition, unusual effects, and end of life phase - life cycle assessment results - evidence, verifications, and tests	Content of the declaration
25. February 2009	Date of issue
Wiremanes	Signatures
Prof. DrIng. Horst J. Bossenmayer (President of the Institut Bauen und Umwelt)	
This declaration and the rules on which it is based have been examined by an independent expert committee (SVA) in accordance with ISO 14025.	Verification of the declaration
hham F. War	Signatures
Prof. DrIng. Hans-Wolf Reinhardt (chairman of the expert committee) Dr. Frank Werner (tester appointed by the expert committee)	



Toxicity of the fire gases according to DIN 53436, testing institute: MFPA Leipzig GmbH

PCP/lindane according to PA-C-12: 2006-02, testing institute: WKI Fraunhofer Wilhelm-Klauditz-Institute

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Raw / Melamine faced MDF boards are panel-shaped materials according to EN 622-5 and EN 14322. The boards of material are primarily used in Melamine faced form and as furniture panels. They are used in low-front						Product description
panel applications in kitchens, for example. The decorative design is achieved through the use of printed decorative paper. At the same time, a corresponding feel can also be applied to the surface during pressing.						
Melamine faced MDF boards are used in interior applications for higher-quality purposes in furniture manufacturing. Due to their homogenous composition, MDF boards can be milled in three dimensions and then either coated or laminated with a film in a membrane press. Boards manufactured in this way are frequently used as front panels in premium kitchens.						Applications
The Life Cycle Assessment (LCA) was perfor IBU guideline for type III declarations. Both sp database were used. The life cycle assess transportation of raw materials, the actual man plant with energy utilisation. One each of raw thickness of 9.3 mm, are declared.	pecific data from the ment encompasses ufacturing phase a	e reviewed s the prod s well as t	d products and date of the date of the date of the date of Life in	ata from the naterials and a biomass ge	"GaBi 4" energy, enerating	Scope of the LCA
MDF	boards (per m³)					D 1/ (// 1.0A
Evaluation variable	Unit per m³	Total	Manufacturing	End of Life	ļ	Results of the LCA
Primary energy, non renew able	[MJ]	-5179	8734	-13913	ı	
Primary energy, renew able	[MJ]	11496	11653	-157,2		
Global w arming potential (GWP 100)	[kg CO ₂ eqv.]	-159,7	-504,6	345,0		
Ozone depletion potential (ODP)	[kg R11 eqv.]	2,65E-05	5,96E-05	-3,30E-05		
Acidification potential (AP)	[kg SO ₂ eqv.]	2,77E+00	1	1,06E+00	,	
Eutrophication potential (EP)	[kg Phosphate eqv.]	6,83E-01	4,79E-01	2,04E-01		
Photochemical oxidant formation potential (POFP)		3,37E-01	3,55E-01	-1,81E-02		
	boards (per m³)	,	,	,		
Evaluation variable	Unit per m³	Total	Manufacturing	End of Life		
Primary energy, non renew able	[MJ]	-6473	10918	-17391		
Primary energy, renew able	[MJ]	14370	14567	-196,5	•	
Global w arming potential (GWP 100)	[kg CO ₂ eqv.]	-199,6	-630,8	431,2	,	
Ozone depletion potential (ODP)	[kg R11 eqv.]	3,32E-05	7,45E-05	-4,13E-05		
Acidification potential (AP)	[kg SO ₂ eqv.]	3,47E+00	2,14E+00	1,32E+00		
Eutrophication potential (EP)	[kg Phosphate eqv.]	8,54E-01	5,99E-01	2,55E-01		
Photochemical oxidant formation potential (POFP)	[kg ethylene eqv.]	4,21E-01	4,44E-01	-2,27E-02		
MDF - Melami	ne faced boards	s (per m²)				
Evaluation variable	Unit per m²	Total	Manufacturing	End of Life		
Primary energy, non renew able	[MJ]	-38,3	98,4	-136,7		
Primary energy, renew able	[MJ]	108,1	109,6	-1,6		
Global w arming potential (GWP 100)	[kg CO ₂ eqv.]	-0,50	-3,92	3,42		
Ozone depletion potential (ODP)	[kg R11 eqv.]	2,70E-07	5,97E-07	-3,27E-07		
Acidification potential (AP)	[kg SO ₂ eqv.]	2,73E-02	1,78E-02	9,48E-03		
Eutrophication potential (EP)	[kg Phosphate eqv.]	6,80E-03	4,94E-03	1,86E-03		
Photochemical oxidant formation potential (POFP)	[kg ethylene eqv.]	3,47E-03	3,67E-03	-2,06E-04		
Prepared by: PE INTERNATIONAL, Leinfelden-Echterdingen in cooperation with Fritz EGGER GmbH & Co. PE INTERNATIONAL EXPERTS IN SUSTAINABILITY						
 In addition, the results of the following tests are Formaldehyde according to EN 120 / EN Eluate analysis according to EN 71-3, te EOX (extractable organic halogen comp 	l 717-1, testing inst sting institute: MFF	titute: WKI PA Leipzig	Fraunhofer Wilhe GmbH	elm-Klauditz-		Evidence and verification





Institut Bauen und Umwelt e.V.

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In the case of a doubt is the original EPD "EPD-EHW-2008311-D" applicable.