

Environmental Product Declaration



Declaration number EPD-EHW-2008411-E

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

EGGER EUROLIGHT® Raw and Laminated **Lightweight Board**





Summary UmweltProduktdeklaration Environmental Product-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-2008411-E	Declaration number
Egger raw / laminated EUROLIGHT® lightweight building board 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 and evidence 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 raw materials and material 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 and tests	Content of the declaration

25. February 2009	Date of issue	
Wermanes		Signatures
Prof. DrIng. Horst J. Bossenmayer (President of the Institut Bauen und Umwelt)		
This declaration and the rules on which it is based has committee (SVA) in accordance with ISO 14025.	Verification of the declara-	
h han-	F. Was	Signatures
Prof. DrIng. Hans-Wolf Reinhardt (chairman of the expert committee)	Dr. Frank Werner (tester appointed by the expert committee)	



Summary Umwelt-Produktdeklaration

Environmental Product-Declaration

Raw / laminated lightweight building boards are board-shaped wood-based materials according to EN 312 and EN 14322. Raw or laminated thin chipboard boards are coated on one side with an adhesive and glued together with an expanded honeycomb cardboard intermediate layer.							Product description	
Applications for raw / melamine resin coated lightweight building board include decorative interior finishing, furniture, and door construction. They are found in applications in the kitchen area as worktops and in interior doors. Lightweight building boards are popular for use in applications where a massive appearance is desired. Low weight, optimal stability and maximum design flexibility are requirements which a modern wood-based material must fulfil. Without also losing load bearing capacity, rigidity and other structural functions, a maximal weight reduction is only possible through the use of a sandwich board with a honeycomb core.								Application
The Life Cycle Assessment (LC) of the IBU guideline for type III de the "GaBi 4" database were used production, raw material transport, ing plant with energy recovery. 1 nesses of 3, 4, and 8 mm as well declared.	eclarations. Both I. The life cycle the actual man m² of EUROLIG	specific assessm ufacturing GHT® with	data from ent encon phase an a thickne	the review npasses to the end ess of 38	wed produ he raw m of life in a mm and s	ucts and o aterial and biomass surface la	lata from d energy generat- yer thick-	Scope of the LCA
	EUROLIGI			7		l o		Results of the LCA
Francisco veriable	Huit non m2		nm		nm		nm	
Evaluation variable Primary energy, non renew able	Unit per m² [MJ]	Manuf. 121,97	EoL -85,05	Manuf. 129,04	EoL -104,05	Manuf. 157,00	EoL -178,29	
Primary energy, non-renew able	[MJ]	73,77	-7,59	97,80	-9,26	193,94	-176,29	
Global w arming potential (GWP 100)	[kg CO ₂ eqv.]	1,30	3,94	0,28	4,39	-3,83	8,22	
Ozone depletion potential (ODP)	[kg R11 eqv.]	2,22E-07	-2,66E-09	2,33E-07		2,75E-07		
Acidification potential (AP)	[kg SO ₂ eqv.]	1,48E-02	7,41E-03	1,69E-02		2,51E-02		
Eutrophication potential (EP)	kg Phosphate equ		1,42E-03	3,41E-03		<u> </u>	2,93E-03	
Photochemical oxidant formation	9	_,,,,,,	.,	-,	.,	-,	_,	
potential (POFP)	[kg ethylene eqv.	1,86E-03	-1,03E-04	2,03E-03	-1,34E-04	2,69E-03	-1,71E-04	
EU	ROLIGHT Mel	amine f	aced boa	rd [m²]				
3mm 4mm 8mm								
Evaluation variable	Unit per m²	Manuf.	EoL	Manuf.	EoL	Manuf.	EoL	
Primary energy, non renew able	[MJ]	139,14	-92,33	146,21	-111,32	174,17	-185,56	
Primary energy, renewable	[MJ]	75,01	-7,68	99,04	-9,36	195,18	-15,99	
Global w arming potential (GWP 100)	[kg CO ₂ eqv.]	2,07	4,16	1,05	4,60	-3,06	8,43	
Ozone depletion potential (ODP)	[kg R11 eqv.]	2,65E-07	-2,23E-08	2,75E-07	-2,33E-08	3,18E-07	-2,54E-08	
Acidification potential (AP)	[kg SO ₂ eqv.]	1,67E-02	7,04E-03	1,88E-02	8,36E-03	2,70E-02		
Eutrophication potential (EP)	kg Phosphate eqv	3,42E-03	1,38E-03	3,90E-03	1,59E-03	5,81E-03	2,90E-03	
Photochemical oxidant formation potential (POFP)	[kg ethylene eqv.	2,24E-03	-1,40E-04	2,40E-03	-1,71E-04	3,06E-03	-2,08E-04	
Prepared by: PE INTERNATIONA in cooperation with Fritz EGGER (hterdinge	en		Æ	PE INTERN	ATIONAL TAINABILITY	
In addition, the results of the follow Formaldehyde according to Testing institute: WKI Fraun	EN 120			nental pro	duct decla	ration:		Evidence and verifications
MDI (diphenylmethane-4,4'- Testing institute: Wessling E	diisocyanate) ad	ccording t	o BIA 7670	0				
Eluate analysis according to Testing institute: MFPA Leip								
EOX (extractable organic hat Testing institute: MFPA Leip	alogen compoun zig GmbH	ıds) accoı	ding to DII	N 38414-9	S17			





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In the case of a doubt is the original EPD "EPD-EHW-2008411-D" applicable.