



Environmental Product Declaration

according to ISO 14025



EGGER
EUROSPAN[®] Raw Chipboard
EURODEKOR[®]
Melamine faced Chipboard

Declaration number
EPD-EHW-2008511-E

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



Institut Bauen
und Umwelt e.V.

	Summary Umwelt- Produktdeklaration <i>Environmental</i> <i>Product-Declaration</i>
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Institut Bauen und Umwelt e.V. www.bau-umwelt.com	 Program holder
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Fritz EGGER GmbH & Co. Company Head Office Weiberndorf 20 A – 6380 St. Johann in Tyrol	 Declaration holder
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EPD-EHW-2008511-E	Declaration number
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EGGER raw / Melamine faced chipboard EUROSPAN® / EURODEKOR® 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
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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
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The declaration is complete and contains in its full form: <ul style="list-style-type: none"> - 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 analysis results - evidence and tests 	Content of the declaration
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25. February 2009	Date of issue
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 Prof. Dr.-Ing. Horst J. Bossenmayer (President of the Institut Bauen und Umwelt)	Signatures
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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
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 Prof. Dr.-Ing. Hans-Wolf Reinhardt (chairman of the expert committee)	 Dr. Frank Werner (tester appointed by the expert committee)	Signatures
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**Summary
Umwelt-
Produktdeklaration
Environmental
Product-Declaration**

Raw / Melamine faced chipboard is a board-shaped wood-based material according to EN 312 and EN 14322. The decorative design of melamine faced chipboard 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.

Product description

Raw / melamine faced chipboard is used in decorative interior design and furniture applications. It is also used, for example, in kitchen areas for bodies and front panels (cupboards, wall cladding...).

Application

The **Life Cycle Assessment (LCA)** was performed according to DIN ISO 14040 following the requirements of the IBU guideline for type III declarations. Both specific data from the reviewed products and data from the "GaBi 4" database were used. The life cycle assessment encompasses the raw material and energy production, raw material transport, the actual manufacturing phase and the end of life in a biomass generating plant with energy recovery. The chipboard product mix was declared.

Scope of the LCA

EUROSPAN raw boards (per m³)				
Evaluation variable	Unit per m ³	Total	Manu- facturing	End of Life
Primary energy, non renew able	[MJ]	-7047	5297	-12345
Primary energy, renew able	[MJ]	12777	13000	-223,2
Global warming potential (GWP 100)	[kg CO ₂ eqv.]	-354,0	-745,6	391,6
Ozone depletion potential (ODP)	[kg R11 eqv.]	-1,56E-05	1,95E-05	-3,51E-05
Acidification potential (AP)	[kg SO ₂ eqv.]	1,02E+00	1,23E+00	-2,13E-01
Eutrophication potential (EP)	[kg PO ₄ eqv.]	3,03E-01	2,32E-01	7,13E-02
Photochemical oxidant formation potential (POFP)	[kg C ₂ H ₄ eqv.]	3,56E-02	1,05E-01	-6,94E-02
EURODEKOR boards (per m²)				
Evaluation variable	Unit per m ²	Total	manu-facturin	End of Life
Primary energy, non renew able	[MJ]	-111	110	-221
Primary energy, renew able	[MJ]	226	230	-4,0
Global warming potential (GWP 100)	[kg CO ₂ eqv.]	-5,4	-12,4	7,0
Ozone depletion potential (ODP)	[kg R11 eqv.]	-2,41E-07	3,90E-07	-6,31E-07
Acidification potential (AP)	[kg SO ₂ eqv.]	2,09E-02	2,41E-02	-3,18E-03
Eutrophication potential (EP)	[kg PO ₄ eqv.]	6,01E-03	4,59E-03	1,42E-03
Photochemical oxidant formation potential (POFP)	[kg C ₂ H ₄ eqv.]	1,02E-03	2,25E-03	-1,23E-03

Results of the LCA

Prepared by: PE INTERNATIONAL, Leinfelden-Echterdingen
in cooperation with Fritz EGGER GmbH & Co.



In addition, the results of the following tests are shown in the environmental product declaration:

- Formaldehyde according to EN 120 / EN 717-1
Testing institute: WKI Fraunhofer Wilhelm-Klauditz-Institut
- MDI (diphenylmethane-4-4'-diisocyanate) according to BIA 7670
Testing institute: Wessling Beratende Ingenieure GmbH
- Testing of the pre-treatment of the component materials (scrap wood provision)
Testing institute: WKI Fraunhofer Wilhelm-Klauditz-Institut
- Eluate analysis according to EN 71-3
Testing institute: MFPA Leipzig GmbH
- EOX (extractable organic halogen compounds) according to DIN 38414-S17
Testing institute: MFPA Leipzig GmbH
- Toxicity of the fire gases according to DIN 53436
Testing institute: MFPA Leipzig GmbH
- Scrap wood provision (active ingredients in wood preservatives, heavy metals, etc.)
Testing institute: WKI Fraunhofer Wilhelm-Klauditz-Institut

Evidence and verifications



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In the case of a doubt is the original EPD “EPD-EHW-2008511-D”
applicable.