

**WOODEN FLOOR COVERINGS
EU ECOLABEL AWARD SCHEME
USER MANUAL**



EU Ecolabel

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For further information:

1) each of the Competent Bodies

http://ec.europa.eu/environment/ecolabel/contacts/competent_bodies_en.htm

2) the Ecolabel Helpdesk

http://ec.europa.eu/environment/ecolabel/contacts/helpdesk_en.htm

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1 GENERAL INFORMATION

Please read all these notes carefully. They are designed to help you to prepare the application form correctly. An incomplete dossier may delay the processing of your application.

(see Checklist 1: details of the applicant and the product, decision-making questions)

1.1 INTRODUCTION

The European Ecolabel is the voluntary ecological quality label stated by the European Union whose aim is to promote products that, during their whole life-cycle, have lower environmental impacts if compared to other ones. The label offers detailed, objective and scientifically based information on the key environmental impacts to the European and any other private or professional consumer or purchaser. The EU Ecolabel Award Scheme is administered by designated organisations called Competent Bodies (CBs) appointed by each Member State. The Competent Bodies are required to assess any application against the product group definition and the criteria published by the European Commission under the provisions of Council and Parliament Regulation (EC) No.1980/2000 of 17 July 2000 on a revised Community Ecolabel award scheme (all documents are downloadable from the Ecolabel web-site at <http://ec.europa.eu/environment/ecolabel/> or may be requested to Competent Bodies, EUEB stakeholders, the Ecolabel helpdesk (e-mail: ecolabel@biois.com) or the European Commission. Details of the general application procedure are given in Article 7 of the revised EC Regulation. Any application for an Ecolabel must be made to a Competent Body (list of Competent Bodies: http://ec.europa.eu/environment/ecolabel/contacts/competent_bodies_en.htm) in the country or the countries where the product originates. In the case of a product manufactured outside the European Economic Area (EEA), application must be made in a country in which the product is to be or has been placed on the market (compare Article 7 of the Regulation, paragraph 3 a, b, c). Products bearing the European Ecolabel, represented by the Flower logo usually are large consumables based on selection criteria stated by the Member States and the European Commission aiming to reward both environmental excellence and a high product performance.

1.2 CRITERIA FOR THE AWARD OF AN ECOLABEL

Commission decision (2010/18/CE) establishes the ecological criteria for the award of the Ecolabel to wooden floor coverings Soft Coverings (SC) To be eligible for award of the ecolabel, products must comply with all the criteria set by the new decision. Products awarded with the Ecolabel

must also comply with the general provisions of the EC Ecolabel Regulation N°1980/2000 setting out the basic rules of the Flower scheme.

1.3 APPLICATION FEE

Along with the completed application form, an applicant must submit a non-refundable application fee of € 300 to € 1.300 with obligatory reductions of 25% for SMEs (small and medium enterprises) and applicants from developing countries. A copy of the general decision on fees is downloadable from the web-site or may be obtained from any of the Competent Bodies (http://ec.europa.eu/environment/ecolabel/ecolabelled_products/application_procedure_en.htm) or via the helpdesk. Only if an application is successful will an annual fee, based on a percentage of sales, be payable. There is a minimum annual fee of € 500 per product group per applicant. The maximum annual fee is € 25.000 per product group per applicant. Note that there are several opportunities to get reductions of up to 50% on this annual fee e.g. as a SME, as an applicant from a developing country, if EMAS/ISO 14001 certification is achieved and/or as a 'first mover' i.e. for the first three applicants in a given product group in a Member State. It is recommended to make contact with 'your' Competent Body as early as possible on this point.

1.4 APPLICANT'S UNDERTAKING

The applicant must sign the undertaking to abide by the terms and conditions contained in the standard contract for use of the Ecolabel logo and the product group criteria. This standard contract includes provisions on advertising and the use of the logo.

1.5 ASSESSMENT OF COMPLIANCE WITH SPECIFIC CRITERIA

The product is assessed against the specified criteria for the award of the 'Flower' set in the decision. In order to demonstrate that the product fully complies with the criteria, detailed information and data relating to the performance of the product may be collated in the dossier. Application for an Ecolabel is made by assessing the candidate product and by providing complete documentation. The applicant must submit test results and information for which product testing has been carried out by an Independent Testing Organisation or have been approved by a third party (compare the Decision's Annex and its requirements specified in the text item by item).

General Information

Information related to the assessment must be presented and is to be signed by the person(s) responsible for conducting the assessment. Certification must also be given by signing the declarations required in several cases. If required by the decision, test data relating to the product must demonstrate compliance with the requirements set out in the criteria.

1.6 COST OF TESTING

All costs arising from testing and certification are to be met by the applicant and are additional to the application fee mentioned above. The CB's are recommended to take into account the implementation of recognised environmental management schemes, such as EMAS or ISO 14001, when assessing applications and monitoring compliance (note: it is not required to implement such management schemes for an application). With regard to some criteria, quality management systems or permanent measurements on or close to the site may also help in saving costs.

1.7 COMPLIANCE MONITORING

If the application is successful, the product is subject to a regime of compliance monitoring. The applicant has to agree to the terms set out in the standard contract concerning the full use of the Eco- label logo (box 1 and 2). The applicant must also sign the undertaking of this application form agreeing to maintain the product in conformity with the product group criteria and abide by the terms and conditions laid down in the contract for use of the Ecolabel, during the period of the contract.

1.8 VALIDITY OF CRITERIA

The product group definition and the specific ecological criteria are valid from 26 November 2009 for 4 years.

2 WOODEN FLOOR COVERINGS

The product group 'wooden floor coverings' shall comprise wood and plant based coverings: including wood and timber coverings, laminate floorings, cork coverings and bamboo floorings which are made, for more than 90% in mass (in the final product), from wood, wood powder and/or wood/plant based material.

It does not apply to wall coverings, where properly indicated, or coverings for external use or for coverings with a structural function.

This product group will not include any covering treated with biocidal products at any stage of the production process, except where those biocidal products are included in Annex IA to Directive 98/8/EC of the European Parliament and of the Council and where the active substance is authorised for the use in question according to Annex V to Directive 98/8/EC.

The specific assessment and verification requirements are indicated within each criterion. **Definition:** *Wood-based materials means material made by binding with adhesives and/or glues one or more of the following materials: wood fibres, and/or stripped or sheared wood sheets, and/or wood residues from forest, plantations, sawn-wood, residues from pulp/paper industry, and/or recycled wood. Wood-based materials comprise: hardboard, fibreboard, medium density fibreboard, particleboard, OSB (Oriented Strand Board), plywood, and panels in solid wood. The term 'wood-based material' also refers to composite materials made from wood-based panels coated by plastics, or laminated plastics, or metals, or other coating materials and finished/semi-finished wood-based panels.*

This product group includes "Wood and Timber coverings", "Laminate floorings", "Cork coverings" and "Bamboo floorings";

Wood and Timber coverings are "wood floors or wall coverings made of one solid piece of wood that have tongue and groove sides or constructed from several wood plies that are glued together in a multilayer panel. A wood covering can be unfinished, and once installed sanded, then finished on site or pre-finished in a factory. "

Wood and Timber coverings criteria can be applicable both for wall and floor coverings, if the production processes remain the same, using the same materials and the same manufacturing methods. The criteria are set for internal use only.

The industry producing wood floor coverings determines its technical position as defined in the CEN/TC 112 norm.

Laminate floorings are "rigid floor covering with a surface layer consisting of one or more thin sheets of a fibrous material (usually paper), impregnated with aminoplastic thermosetting resins (usually melamine), pressed or bonded on a substrate, normally finished with a backer".

Laminates coverings criteria can be applicable only for floor coverings and for internal use.

The industry producing *laminated floor coverings* determines its technical position as defined in the CEN/TC 134 norm.

Cork coverings are floor or wall coverings the main component of which is cork. The granulated cork is mixed with a binder, and then cured or several layers of cork (agglomerated/veneer) can be pressed together with glue.

The cork coverings can be divided into *Natural Cork tiles* (the main component of which is agglomerated composition cork, intended to be used with a finish) and in *Engineered Cork panels* (consisting of several layers including a fibreboard the main component of which is agglomerated cork or has cork as technical solution, intended to be used with a finishing wear layer).

Cork coverings criteria can be applicable both for wall and floor coverings, if the production processes remain the same, using the same materials and the same manufacturing methods. The criteria are set for internal use only.

The *European "cork" floor covering industry* determines its technical position in the European commission of normalisation CEN/TC134.

Bamboo floor covering are made of bamboo in solid pieces or in agglomerates as a main component.

Bamboo coverings criteria can be applicable only for floor coverings and for internal use.

The functional unit, to which inputs and outputs should be related, is 1 m² of finished product.

Where appropriate, test methods other than those indicated for each criterion may be used if their equivalence is accepted by the Competent Body assessing the application.

Where possible, testing should be performed by appropriately accredited laboratories or laboratories that meet the general requirements expressed in standard EN ISO 17025 ("General requirements for the competence of testing and calibration laboratories").

Where appropriate, Competent Bodies may require supporting documentation and may carry out independent verifications.

2.1 RAW MATERIALS

All cork, bamboo and virgin wood must originate from forests that are managed so as to implement the principles and measures aimed at certifying sustainable forest management.

2.1.1 SUSTAINABLE FOREST MANAGEMENT

The producer shall have a policy for sustainable wood procurement and a system to trace and verify the origin of wood and tracking it from forest to the first reception point.

The origin of all wood shall be documented. The producer must ensure that all wood originate from legal sources. The wood shall not come from protected areas or areas in the official process of designation for protection, old growth forests and high conservation value forests defined in national stakeholder processes unless the purchases are clearly in line with the national conservation regulations.

- Until 30 June 2011, for wooden products placed on the market bearing the Ecolabel, at least 50% of any solid wood and 20% wood-based materials must originate either from sustainably managed forests which have been certified by independent third party schemes fulfilling the criteria listed in paragraph 15 of the Council Resolution of 15 December 1998 on a Forestry Strategy for the EU and further development thereof, or from recycled materials.

- From 1 July 2011, until 31 December 2012 for wooden products placed on the market bearing the Ecolabel at least 60% of any solid wood and 30% wood-based materials must originate either from sustainably managed forests which have been certified by independent third party schemes fulfilling the criteria listed in paragraph 15 of the Council Resolution of 15 December 1998 on a Forestry Strategy for the EU and further development thereof, or from recycled materials

- From 1 January 2013, for wooden products placed on the market bearing the Ecolabel at least 70% of any solid wood and 40% wood-based materials must originate either from sustainably managed forests which have been certified by independent third party schemes fulfilling the criteria listed in paragraph 15 of the Council Resolution of 15 December 1998 on a Forestry Strategy for the EU and further development thereof, or from recycled materials

Assessment and verification: In order to meet these conditions, the applicant shall demonstrate that any of their wooden Ecolabelled products, when first placed on the market, will meet the appropriate level of certified wood. If this cannot be demonstrated the competent body will only issue the Ecolabel licence for the period for which compliance can be demonstrated.

The applicant shall provide appropriate documentation from the wood supplier indicating the types, quantities and the origins of wood and wood based material used in the production of the coverings. The applicant shall provide appropriate certificates showing that the certification scheme correctly fulfils the requirements as laid down in paragraph 15 of the Council Resolution of 15 December 1998 on a Forestry Strategy for the EU.

The most important certification schemes used worldwide are the ones listed below, but other schemes are also accepted:



FSC Forest Stewardship Council

FSC is a worldwide independent, non-governmental, not for profit organization established to promote the responsible management of the world's forests.



PEFC

Programme for the Endorsement of Forest Certification schemes

The PEFC is a worldwide committed to promoting sustainable forest management through independent third party forest certification, based on environmentally, socially beneficial and economically viable management of forests for present and future generations.



SFI

Sustainable Forestry Initiative

SFI program promotes the sustainable forestry on all the lands they manage. The program participants also influence millions of additional acres through the training of loggers and foresters in best management practices and landowner outreach programs.



CSA

Canada's National Standard for Sustainable Forest Management

The CAN/CSA-Z809 SFM Standard, developed according to an internationally recognized and accredited standards development process, is based on the international Helsinki and Montréal processes. It incorporates Canada's own national SFM criteria, which were developed by the Canadian Council of Forest Ministers.

As an example, SFM and CoC certificates could be provided to demonstrate compliance to the criterion.

2.1.2 RECYCLED WOOD AND PLANT MATERIAL

Post-consumer wood, chips or fibres applied in the production of wood-based materials (input), shall at least comply with the provisions in the EPF industry standard, as reported in paragraph 6 of document 'EPF standard for delivery conditions of recycled wood' of 24 October 2002.

The total amount of the recycled material shall comply with the limits indicated in table below:

Elements and compounds	Limit values (mg/kg of total dry panel)
Arsenic	25
Cadmium	50
Chromium	25
Copper	40
Lead	90
Mercury	25
Fluorine	100
Chlorine	1000
Pentachlorophenol (PCP)	5
Tar oils (benzo(a)pyrene)	0,5

Woodchip is defined as “processed post-consumer wood pieces formed by shredding, crushing, hammering or chopping” originating, most of all, from sawmills and other similar factories. Hereafter, “woodchip” will mean “recycled material”.

It has to be highlighted that woodchip delivered to the panel board manufacturer is considered waste, subject to the normal regulatory controls, and it should be treated appropriately until it is incorporated into a new wood-based panel. Once processed into panel board, the material is no longer waste, so that regulatory control would no longer apply. The recycled material shall comply with the provisions in the EPF Industry standard, as reported in paragraph 5 of the previous cited document .

Assessment and verification:

The applicant shall provide a declaration that recycle wood or plant materials comply with limit values. If it’s possible to prove that substances indicated have not been use in any previous preparation or treatment, the applicant can avoid the application of test.

2.1.3 IMPREGNATING SUBSTANCES AND PRESERVATIVES

Wooden flooring shall not be impregnated.

Solid wood, after logging, shall not be treated with substances or preparations containing substances that are included in any of the following lists:

- WHO recommended classification of pesticides by hazard classified as class 1a (extremely hazardous)

- WHO recommended classification of pesticides by hazard classified as class 1b (highly hazardous)

Moreover, the treatment of wood shall be in accordance with the provisions of the following Council Directives

- Directives 79/117/EEC prohibiting the placing on the market and use of plant protection products containing certain active substances
- Directives 76/769/EEC provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations

Assessment and verification:

The applicant shall provide a declaration showing compliance to this criterion, a list of the substances which have been used and the safety data sheet for each of them.

2.1.4 GENERICALLY MODIFIED WOOD

The product shall not contain GMO wood.

Assessment and verification

The applicant shall provide a declaration that no GMO wood has been used.

2.2 USE OF DANGEROUS SUBSTANCES

2.2.1 DANGEROUS SUBSTANCES FOR THE RAW WOOD AND PLANT TREATMENT

a) No substances or preparations that are assigned, or may be assigned at the time of application, any of the following risk phrases (or combinations thereof) may be added to the wooden product:

- R23: (toxic by inhalation)
- R24: (toxic in contact with skin)
- R25: (toxic if swallowed)
- R26: (very toxic by inhalation)
- R27: (very toxic in contact with skin)
- R28: (very toxic if swallowed)
- R39 (danger of very serious irreversible effects),
- R40 (limited evidence of a carcinogenic effect),
- R42 (May cause sensitisation by inhalation)
- R43 (May cause sensitisation by skin contact)
- R45 (may cause cancer),
- R46 (may cause heritable genetic damage),
- R48 (danger or serious damage to health by prolonged exposure),
- R49 (may cause cancer by inhalation),
- R50 (very toxic to aquatic organisms),
- R51 (toxic to aquatic organisms),
- R52 (harmful to aquatic organisms),
- R53 (may cause long-term adverse effects in the aquatic environment),
- R60 (may impair fertility),
- R61 (may cause harm to the unborn child),
- R62 (possible risk of impaired fertility),
- R63 (possible risk of harm to the unborn child),
- R68 (possible risk of irreversible effects)

as laid down in Council Directive 67/548/EEC of 27 June 1967 (Dangerous Substances Directive) on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances, and its subsequent amendments, and considering the Council Directive 1999/45/EC (Dangerous Preparations Directive).

Alternatively, classification may be considered according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and

packaging of substances and mixtures, amending and repealing directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. In this case no substances or preparations may be added to the raw materials that are assigned, or may be assigned at the time of application, with and of the following hazard statements (or combinations thereof): H300, H301, H310, H311, H317, H330, H331, H334, H351, H350, H340, H350i, H400, H410, H411, H412, H413, H360F, H360D, H361f, H361d, H360FD, H361fd, H360Fd, H360Df, H341, H370, H372.

b) The product must not contain halogenated organic binding agents, azidirin and polyaziridins as well as pigments and additives based on:

- lead, cadmium, chrome (VI), mercury and their compounds;
- arsenic, boron and copper;
- organic tin.

Assessment and verification:

The applicant shall provide appropriate declarations verifying that the above requirements are met. For each chemical product used in the assembly of the product, a SDS or equivalent documentation shall be presented containing information on health hazard classification.

2.2.2 DANGEROUS SUBSTANCES IN THE COATING AND SURFACE TREATMENTS

Generic requirements

a) The requirements of part (2.1.1) on *Dangerous substances for the raw wood and plant treatments* shall also apply for coating and surface treatments.

b) Chemical substances classified as harmful for the environment by the chemical manufacturer/supplier in accordance with EU classification system (28th Amendment to Directive 67/548/EEC) shall comply with the 2 following limits:

Chemical substances classified as harmful for the environment in accordance with the Directive 1999/45/EG must not be added to substances and preparations for surface treatment.

Nevertheless the products may contain up to 5 % volatile organic compounds (VOC) as defined in the Directive 1999/13/EC (VOC shall mean any organic compound having at 293,15 K a vapour pressure of 0,01 kPa or more, or having a corresponding volatility under the particular conditions of use.). If the product requires dilution, the contents of the diluted product must not exceed the abovementioned threshold values.

The applied quantity (wet paint/varnish) of environmentally harmful substances shall not exceed 14 g/m² surface area and applied quantity (wet paint/varnish) of VOC shall not exceed 35 g/m².

Assessment and verification:

The applicant shall provide a declaration of compliance with this criterion, together with documents to support this declaration:

- a complete recipe with designation of quantities and CAS numbers for constituent substances;
- the test method and test results for all substances present in the product, according to the Directive 67/548/EEC;
- a declaration stating that all constituent substances have been disclosed;
- number of coats and quantity applied per coat per square meter of surface.

The following standard degrees of effectiveness are used for the purpose of calculating the consumption of surface treatment product and of the applied quantity: Spraying device without recycling 50%, spraying device with recycling 70%, electrostatic spraying 65%, spraying, bell/disk 80%, roller coating 95%, blanket coating 95%, vacuum coating 95%, dipping 95%, rinsing 95%.

c) The content of free formaldehyde in products or preparations used in the panels shall not exceed 0.3% by weight.

The content of free formaldehyde in binding agents, adhesives, and glues for plywood panels or laminated wood panels shall not exceed 0.5% by weight.

Assessment and verification:

The applicant shall provide appropriate declarations verifying that the above requirements are respected. For the chemical products used in the production a Safety Data Sheet (SDS) or equivalent documentation shall be presented containing information on health hazard classification.

Adhesives

a) The requirements of part (2.1.1) on *Dangerous substances for the raw wood and plant treatments* shall also apply for adhesives.

b) The content of free formaldehyde in binding agents, adhesives, and glues for plywood panels or laminated wood panels shall not exceed 0.5% by weight.

Assessment and verification:

The applicant shall provide a declarations verifying that the above requirements are fulfilled. Besides the applicant shall present a SDS o equivalent documentation for each substances containing information on health hazard classification.

Test reports or a declaration from the supplier shall be provided for the free formaldehyde content.

c) The VOC content of adhesives used in the assembly of the product shall not exceed 10% by weight (w/w).

Assessment and verification:

A declaration shall be provided by the applicant indicating all adhesives used in the assembly the product, as well as the compliance with this criterion.

Formaldehyde

Formaldehyde emissions from substances and preparations for surface treatment liberating formaldehyde shall be less than 0.05 ppm.

Assessment and verification:

The applicant and/or its supplier shall provide the Material Safety Data Sheet or an equivalent declaration for the compliance of this requirement, together with information on the formulation of the surface treatment.

Plasticizers

The requirements of part 2.1.1 on *Dangerous substances for the raw wood and plant treatments* shall also apply for any phthalates used in the manufacturing process.

Additionally DNOP (di-n-octyl phthalate), DINP (di-isononyl phthalate), DIDP (di-isodecyl phthalate) are not permitted in the product.

Assessment and verification:

The applicant shall provide a declaration of compliance with this criterion.

Biocides

Only biocidal products containing biocidal active substances included in Annex IA of the Directive 98/8/EC of the European Parliament and of the Council, and authorised for use in floor coverings, shall be allowed for use.

Assessment and verification:

The applicant shall provide a declaration that the requirements of this criterion have been met making available a list of all the biocides used.

2.3 PRODUCTION PROCESS

2.3.1 ENERGY CONSUMPTION

A calculation formula taking into account the proportion of raw material coming from certificated forests and, eventually, from recycled material, and the energy consumption is proposed. The calculation formula refers to the Nordic Swan Ecolabelling, that is the only label that proposes a specific calculation tool for the limitation of the energy consumption at the manufacturing stage for “solid wood and laminate floor coverings”.

Energy consumption is referred only to the manufacturing stage, as for all the EU Ecolabel product groups (i.e.: hard coverings, footwear, coping paper, etc.)

The requirements are organized in two parts: the calculation of a point score and the application of limits to the total score for wood, laminate and other flooring as indicated below:

Energy consumption is calculated as an annual average of the energy consumed during the production process (excluding premises heating) from the raw material in bulk to the finished floor covering. This means, for example, that the energy calculation for wood and plant based products shall be measured from the input of raw material into the factory until the finishing operations, packaging included.

The calculation shall not include the energy content of the raw material (nda: feedstock energy).

The energy required to manufacture adhesives and varnish or coatings shall not be included in the calculations.

The unit chosen for the calculations is the **MJ/m²**.

The energy contents of various fuels are given in the technical appendix A1 of the Decision 2010/18/EC and in the table fuels included in this section.

Electricity consumption refers to electricity purchased from an external supplier.

If the producer has an energy surplus that is sold as electricity, steam or heat, the sold quantity can be deducted from the fuel consumption. Only the fuel that is actually used in floor covering production shall be included in the calculations.

The process energy, calculated as indicated, shall exceed the following limits (P= scoring point):

Product Family	Limit (P)
Wood floor and Bamboo coverings	10.5
Laminate floor coverings	12.5
Cork coverings	9

Solid Wood floor and Bamboo coverings

Environmental parameter
A = Wood from certified, sustainable forest (%)
B = Proportion of renewable fuels (%)
C = Electricity consumption (MJ/m ²)
D = Fuel consumption (MJ/m ²)

$$P = \frac{A}{25} + \frac{B}{25} + (4 - 0,055 \times C) + (4 - 0,022 \times D)$$

Laminate flooring

Environmental parameter
A = Cork, Bamboo or Wood from certified, sustainable forest (%)
B = Proportion of recycled wood raw materials (%)
C = Proportion of renewable fuels (%)
D = Electricity consumption (MJ/m ²)
E = Fuel consumption (MJ/m ²)

$$P = \frac{A}{25} + \frac{B}{25} + \frac{C}{25} + (4 - 0,055 \times D) + (4 - 0,022 \times E)$$

Cork coverings

Environmental parameter
A = Proportion of recycled cork (%)
B = Proportion of renewable fuels (%)
C = Electricity consumption (MJ/m ²)
D = Fuel consumption (MJ/m ²)

$$P = \frac{A}{25} + \frac{B}{25} + (4 - 0,055 \times C) + (4 - 0,022 \times D)$$

Assessment and verification:

The applicant shall calculate the Energy consumption of the production process according to the Technical Appendix instructions providing the related results and supporting documentation.

The energy contents of various fuels are provided in the following table:

Production period (1 year)	Days	From	To	
Fuel	Quantity	Units	Conversion factor	Energy (MJ)
Straw (15% W)		kg	14,5	
Pellets (7% W)		kg	17,5	
Waste wood (20% W)		kg	14,7	
Wood chips (45% W)		kg	9,4	
Peat		kg	20	
Natural gas		kg	54,1	
Natural gas		Nm ³	38,8	
Butane		kg	49,3	
Kerosene		kg	46,5	
Gasoline		kg	52,7	
Diesel		kg	44,6	
Gas oil		kg	45,2	
Heavy Fuel oil		kg	42,7	
Dry Steam Coal		kg	30,6	

Production period (1 year)	Days	From	To	
Fuel	Quantity	Units	Conversion factor	Energy (MJ)
Anthracite		kg	29,7	
Charcoal		kg	33,7	
Industrial Coke		kg	27,9	
Electricity (from net)		kWh	3,6	
Total energy (MJ)				

Example of energy calculation for Laminate floor coverings with 50% of wood from certified renewable forest

It is shown , below, an example that has been done using the LCA data:

$$P = \frac{A}{25} + \frac{B}{25} + \frac{C}{25} + (4 - 0,055 \times D) + (4 - 0,022 \times E)$$

Envip	Req
A	50
B	70
C	4,02
D	2,5
E	7,24
P	12,5

The applicant shall calculate energy process and provide appropriate documentation.

Example of energy calculation for wood floor coverings with 50% of wood from certified renewable forest

$$P = \frac{A}{25} + \frac{B}{25} + (4 - 0,055 \times C) + (4 - 0,022 \times D)$$

Envip	Req
A	10
B	4,02
C	2

D	6
P	8,3188

2.3.2 WASTE MANAGMENTN

In order to fulfill this criterion an appropriate documentation on the procedures adopted for the recovery of the by-products originated from the process. The applicant shall provide a report including the following information:

- kind and quantity of waste recovered;
- kind of disposal;
- information about the reuse (internally or externally to the production process) of waste and secondary materials in the production of new products.

Assessment and verification:

The applicant shall provide appropriate documentation such as:

- mass balance sheets;
- environmental reporting system showing the rates of recovery achieved by means of recycling, re-use or reclamation/regeneration;

2.4 USE PHASE

2.4.1 RELEASE OF DANGEROUS SUBSTANCES

In order to control the potential release of dangerous substances in the use phase and at the end of the wood and plant based coverings life, the following parameters on the finished products shall be verified:

Formaldehyde release

The release of formaldehyde from the panels of cork, bamboo or wood fibres constituting the covering shall not exceed 0.05 ppm.

Assessment and verification:

The applicant shall provide test report based on test following the chamber method according to EN 717-1 method.

2.4.2 VOC EMISSIONS

The finished products must not exceed the following emission values:

Substance	Requirement (after 3 days)
Total organic compounds within the retention range C6 – C16 (TVOC)	0.25 mg/m ³ air
Total organic compounds within the retention range > C16 – C22 (TSVOC)	0.03 mg/m ³ air
Total VOC without LIC	0.05 mg/m ³ air

Note: the applicant shall calculate the Energy consumption of the production process according to the Technical Appendix instructions providing the related results and supporting documentation.

Assessment and verification:

The applicant shall present a test certificate according to emission tests:

- prEN 15052
- DIN ISO 16000-9.

2.5 PACKAGING

Packaging must be made out of one of the following:

- easily recyclable material;
- materials taken from renewable resources;
- materials intended to be reusable

Assessment and verification:

The applicant shall provide a description of the product packaging together with a declaration of compliance with this criterion.

2.6 FITNESS FOR USE

The product shall be fit for use. This evidence may include data from appropriate ISO, CEN or equivalent test methods, such as national procedures.

Assessment and verification:

The applicant shall provide details of the test procedures and results, together with a declaration that the product is fit for use based on all other information about the best application by the end-user. According to Directive 89/106/EEC a product is presumed to be fit for use if it conforms to a harmonised standard, a European technical approval or a non-harmonised technical specification recognised at Community level. *The EC conformity mark 'CE' for construction products provides producers with an attestation of conformity easily recognisable and may be considered as sufficient in this context.*

2.7 CONSUMER INFORMATION

The product shall be sold with relevant user information, which provides advice on the product's proper and best general and technical use as well as its maintenance. It shall bear the following information on the packaging and/or on documentation accompanying the product:

- (a) information that the product has been awarded the EU Eco-label together with a brief yet specific explanation as to what this means in addition to the general information provided by box 2 of the logo;
- (b) recommendations for the use and maintenance of the product. This information should highlight all relevant instructions particularly referring to the maintenance and use of products. As appropriate, reference should be made to the features of the product's use under difficult climatic or other conditions, for example, frost resistance/water absorption, stain resistance, resistance to chemicals, necessary preparation of the underlying surface, cleaning instructions and recommended types of cleaning agents and cleaning intervals. The information should also include any possible indication on the product's potential life expectancy in technical terms, either as an average or as a range value;
- (c) an indication of the route of recycling or disposal (explanation in order to give the consumer information about the high possible performance of such a product);
- (d) information on the EU Eco-label and its related product groups, including the following text (or equivalent): 'for more information visit the EU Eco-label website: www.ecolabel.eu .

Assessment and verification:

The applicant shall provide a sample of the packaging and/or texts enclosed.

2.8 INFORMATION APPEARING ON THE ECOLABEL

Box 2 of the Ecolabel shall contain the following text:

- sustainable managed forests and reduced impact on habitats;
- hazardous substance restricted;
- production process energy saving;
- lower risk to health in the living environment;

Assessment and verification:

The applicant shall provide an example of packaging that will be used for the product showing the label with abovementioned information.

Check - list

CRITERION	Sub-criterion	Answer
		YES NO
1.RAW MATERIALS	<ol style="list-style-type: none"> 1. Does the product meet the appropriate level of certified wood? 2. Does the recycled wood comply with the limit values? 3. Does impregnating substances and preservatives satisfy the criterion? 4. Have GMO wood been used? 	
2.USE OF DANGEROUS SUBSTANCES	<ol style="list-style-type: none"> 1. Are requirements satisfied for substances for the raw wood and plant treatment? 2. Does substances used in the coating and surface treatments satisfy requirements? <ol style="list-style-type: none"> a. Adhesive b. Formaldehyde c. Plasticizers d. Biocides 	
3.PRODUCTION	<ol style="list-style-type: none"> 1. Are energy consumption requirements satisfied 2. Are requirements for waste management satisfied? 	
4.USE PHASE	<ol style="list-style-type: none"> 1. Are the requirements for VOC and formaldehyde release satisfied? 	
5.PACKAGING	<ol style="list-style-type: none"> 1. Does the material used for packaging fulfill the criterion? 	
6.FITNESS FOR USE	Is the product fit for use?	
7.CONSUMER INFORMATION	<ol style="list-style-type: none"> 1. General information in BOX 2 of Logo 2. Recommendation for the use and maintenance of the product 3. Indication of the route of recycling or disposal <p>Information on the EU Ecolabel</p>	
8.INFORMATION APPEARING ON THE ECOLABEL	<p>Box 2 of Ecolabel contains:</p> <ul style="list-style-type: none"> • hazardous and toxic substance restricted; • production process energy saving; • limited pollutant emissions to water; • lower risk to health in the living environment 	

3 APPLICATION PACK

3.1 DETAILS OF APPLICANT AND PRODUCT

<i>Please complete or type in black, and submit in duplicate (as a paper copy, not by e-mail) to the Competent Body</i>	<i>For official use</i>
A. The applicant	
Full name of applicant company:	
Address:	
Contact name, and function:	
Tel no, and fax no:	
E-mail:	
Web-site:	
In what capacity are you applying for the Ecolabel? (manufacturer, importer, service provider, trader or retailer)	

B. The product

Registered trade name(s) of product or product range ()

Model names (or internal reference numbers) for products to be covered by the label within the product range above:

Name and address of manufacturing site (if different from above):

Where the product is made outside the EU, please confirm that it has been or will be placed on the market in the *[insert name of Competent Body's country]*

<p>Other EU countries in which this product is manufactured in the same form (please give addresses of manufacturing sites):</p>	
<p>Other EU countries in which this product is sold (if sold under different names, please give names):</p>	
<p>Rough estimate of annual volume of product produced [e.g. 200,000 units]</p>	
<p>Rough estimated value of annual sales, excluding VAT, in the European Economic Area (i.e. the European Community plus Norway, Iceland and Liechtenstein) of the product at ex-factory prices (in £ sterling/ in € etc., please specify currency).</p>	

<p>3. Do you wish to claim a fee reduction for EMAS registration or ISO 14 001 certification? If so, please provide proof of status.</p> <p>4. Where the product uses components for which an Ecolabel fee has already been paid, the annual fee will be based on the annual sales of the products after deduction of the cost value of the components. Do you wish to claim a reduction on these grounds? Please provide details if relevant.</p>	
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* see the definition in the joined definition

D. Applicant's undertaking (all applicants must sign and date this undertaking)

As the applicant for an EU Eco-label, I hereby declare that:

I understand and accept the provisions of Regulation EC No 1980 / 2000 on the EU Ecolabel scheme, and in particular Article 2, which states that the Ecolabel may not be awarded to goods manufactured by processes which are likely to significantly harm man and / or the environment, or which in their normal application could be harmful to the consumer;

I understand and accept the standard assessment and contract procedures proposed by the Competent Body, and accept its terms during the duration of the contract;

I undertake to ensure that the product complies with the Ecolabel criteria at all times and to notify the Competent Body immediately of any significant modification to it or to the production processes;

I take responsibility for the correct and proper use of the EU Ecolabel.

Signed:

Name in capitals:

Position in company:

Date

3.2 FIELD OF APPLICATION

APPLICANT'S DECLARATION

With reference to the product group definition 'wooden floor coverings products' the product can be classified as:

Wood and timber coverings: for wall floor

Laminate floorings

Cork coverings : for wall floor

The candidate product is composed of the following materials (indicate materials and % in the final product):

THE FUNCTIONAL UNIT IS :

Please specify:

Signed:

Name in capitals:

Position in company:

Date

3.3 COMPLIANCE DECLARATIONS

3.3.1 SUSTAINABLE FOREST MANAGEMENT

The following criteria is valid for all the product group family excluded laminated

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture of the product declare that:

The origin of the wood, cork , bamboo is:..... (indicate precise origin)

The type of wood, cork , bamboo used is :.....

The quantity of the wood, cork , bamboo used for the production is :.....

The above information is confirmed by the documentation provided by the supplier (indicate the name and details):.....

<p>Name (Block Capitals)</p> <p>Signed</p> <p>Position</p>	<p>Date:</p>
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Company Stamp or Seal

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3.3.1 SUSTAINABLE FOREST MANAGEMENT

The following criteria is valid for all the product group family excluded laminated.

Please specify :
.....
.....

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture of the product declare that:

Until 30 June 2011, for wooden products placed on the market bearing the Ecolabel, at least 50 % of any solid wood and 20% wood-based materials must originate either from sustainably managed forests which have been certified by independent third party schemes fulfilling the criteria listed in paragraph 15 of the Council Resolution of 15 December 1998 on a forestry strategy for the European Union (1) and further development thereof, or from recycled materials. **(see attached documentation for prove n°**)

From 1 July 2011, until 31 December 2012 for wooden products placed on the market bearing the Ecolabel at least 60 % of any solid wood and 30 % wood-based materials must originate either from sustainably managed forests which have been certified by independent third party schemes fulfilling the criteria listed in paragraph 15 of the Council Resolution of 15 December 1998 on a forestry strategy for the European Union and further development thereof, or from recycled materials **(see attached documentation for prove n°**)

From 1 January 2013, for wooden products placed on the market bearing the Ecolabel at least 70% of any solid wood and 40% wood-based materials must originate either from sustainably managed forests which have been certified by independent third party schemes fulfilling the criteria listed in paragraph 15 of the Council Resolution of 15 December 1998 on a forestry strategy for the European Union and further development thereof, or from recycled materials **(see attached documentation for prove n°**)

The wood, cork , bamboo origin is certified with the following certification:

FSC Forest Stewardship Council (see attached documentation for prove n°)

PEFC Programme for the Endorsement of Forest Certification schemes (see attached documentation for prove n°)

SFI Sustainable Forestry Initiative (see attached documentation for prove n°)

CSA Canada's National Standard for Sustainable Forest Management (see attached documentation for

prove n°) <input type="checkbox"/> Other third part schemes (please, specify)	
Name (Block Capitals) Signed Position	Date:
Company Stamp or Seal 	

3.3.2 RECYCLED WOOD AND PLANT MATERIAL	
The following criteria is valid for Post-consumer wood, chips or fibres applied in the production of wood-based materials (input)	
MANUFACTURER'S DECLARATION	
I/We as Person(s) responsible for manufacture of the product declare that: <input type="checkbox"/> Post-consumer wood, chips or fibres applied in the production of wood-based materials (input), shall at least comply with the provisions in the EPF industry standard, as reported in paragraph 6 of document 'EPF standard for delivery conditions of recycled wood' of 24 October 2002. <input type="checkbox"/> The total amount of the recycled material used for the candidate product complies with the limits indicated in 1.2 criteria Decision 2010/18/EC. The above information is confirmed by the documentation provided : <input type="checkbox"/> Please specify:	
Name (Block Capitals) Signed	Date:

Position

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Company Stamp or Seal

3.3.3 IMPREGNATING SUBSTANCES AND PRESERVATIVES

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture of the product declare that:

the Wooden flooring is not be impregnated

That after logging the solid wood used has not be treated with substances or preparations indicated in 1.3 criteria Decision 2010/18/EC.

Please specify:

.....
.

Name (Block Capitals)

Signed

Position

Date:

Company Stamp or Seal

.....
.....

3.3.4 GENERICALLY MODIFIED WOOD

The following criteria is valid for all the product group family excluded laminated.

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture of the product declare that the candidate product does not contain GMO wood.

Name (Block Capitals) Signed Position	Date:
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Company Stamp or Seal

3.3.5 DANGEROUS SUBSTANCES FOR THE RAW WOOD AND PLANT TREATMENT

The following criteria is valid for all the product group family.

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture of the product declare that the candidate product meets the following requirements:

- (a) that no substance indicated in criteria 2.1 a Decision 2010/18/CE have been used
- (b) that the product does not contain substance indicated in criteria 2.1 b Decision 2010/18/CE

- Please specify:

Name (Block Capitals) Signed Position	Date:
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Company Stamp or Seal

.....

.....

3.3.6 DANGEROUS SUBSTANCES IN THE COATING AND SURFACE TREATMENTS

The following criteria is valid for all the product group family.

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture of the product declare that the candidate product meets the following requirements:

- that no substance indicated in criteria 2.1 a Decision 2010/18/CE have been used
- that the Chemical substances classified as harmful for the environment comply with criteria 2.1. b) (see attached documentation for prove n°)
- The content of free formaldehyde in products or preparations used in the panels does not exceed 0.3% by weight.
- The content of free formaldehyde in binding agents, adhesives, and glues for plywood panels or laminated wood panels does not exceed 0.5% by weight.
- Please specify

Name (Block Capitals)	Date:
Signed	
Position	

Company Stamp or Seal

3.3.6 DANGEROUS SUBSTANCES IN THE COATING AND SURFACE TREATMENTS

Adhesive

The following criteria is valid for all the product group family.

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture of the product declare that the candidate product meets the following requirements:

- that no substance indicated in criteria 2.1 a Decision 2010/18/CE have been used
- that the VOC content of adhesives used in the assembly of the product is % by weight (w/w).
- Please specify

Name (Block Capitals)
Signed
Position

Date:

Company Stamp or Seal

3.3.6 DANGEROUS SUBSTANCES IN THE COATING AND SURFACE TREATMENTS

Formaldehyde

The following criteria is valid for all the product group family.

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture of the product declare that the candidate product meets the following requirement:

that the Formaldehyde emissions from substances and preparations for surface treatment liberating formaldehyde areppm.

Name (Block Capitals)

Signed

Position

Date:

Company Stamp or Seal

3.3.6 DANGEROUS SUBSTANCES IN THE COATING AND SURFACE TREATMENTS

Plasticizers

The following criteria is valid for all the product group family.

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture of the product declare that the candidate product meets the following requirement:

that no substance indicated in criteria 2.1 a Decision 2010/18/CE have been used

that Additionally DNOP (di-n-octyl phthalate), DINP (di-isononyl phthalate), DIDP (di-isodecyl phthalate) have not been used

Please specify:

Name (Block Capitals)

Signed

Position

Date:

Company Stamp or Seal

3.3.7 PACKAGING

The following criteria is valid for all the product group family.

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture of the product declare that the candidate product meets the following requirement:

- easily recyclable material;
- materials taken from renewable resources;
- materials intended to be reusable

- Please specify:

Name (Block Capitals)

Signed

Position

Date:

Company Stamp or Seal

3.3.8 FITNESS FOR USE

The following criteria is valid for all the product group family.

MANUFACTURER'S DECLARATION

I I/We as Person(s) responsible for manufacture declare that the candidate products is fit for use as illustrated in the technical documentation provided.

Name (Block Capitals)

Signed

Position

Date:

Company Stamp or Seal

3.3.9 CONSUMER INFORMATION

The following criteria is valid for all the product group family.

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture declare that the consumer information included in the packaging of the candidate products meets the requirements indicate in the Decision 2010/18/CE criteria 7.

A sample of the packaging is provided within the application form.

Name (Block Capitals)

Signed

Position

Date:

Company Stamp or Seal

3.3.10 INFORMATION APPEARING ON THE ECOLABEL

The following criteria is valid for all the product group family.

MANUFACTURER'S DECLARATION

I/We as Person(s) responsible for manufacture declare that the following information included in the packaging of the candidate products :

- sustainable managed forests and reduced impact on habitats;
- hazardous substance restricted;
- production process energy saving;
- lower risk to health in the living environment;

A sample of the packaging is provided within the application form.

Name (Block Capitals) Signed Position	Date:
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Company Stamp or Seal