

Appendix 14 Declaration form AI0015 - Wood based panels

To be used in conjunction with an application for a licence for the Nordic Swan Ecolabel of furniture and fitments.

To be completed by suppliers of wood-based panels for use in Nordic Swan Ecolabelled furniture and fitments.

General information

Please state name/trade name of the wood-base panel:
Please state the type of wood-based panel:
Name of the manufacturer/supplier of the wood-based panel:

O29: Ecolabelled panels	YES	NO
Is the Nordic Swan Ecolabelled panel in accordance with the Nordic Ecolabel criteria for Construction and facade panels, generation 6 or later?	<input type="checkbox"/>	<input type="checkbox"/>
If yes, please state the name, manufacturer and licence number of the panel:		

O30 Tree species with restricted use		
<p>Nordic Ecolabelling's list of restricted tree species* consist of virgin tree species listed on:</p> <ul style="list-style-type: none"> a) CITES (Appendices I, II and III) b) IUCN red list, categorized as CR, EN and VU c) Rainforest Foundation Norway's tree list d) Siberian larch (originated in forests outside the EU) <p>* The list of restricted tree species is located on the website: http://www.nordic-ecolabel.org/certification/paper-pulp-printing/pulp--paper-producers/forestry-requirements-2020/</p> <p>Tree species listed on a) CITES (Appendices I, II and III) are not permitted to be used.</p>		
	YES	NO
Are any of the restricted tree species used in the laminate?	<input type="checkbox"/>	<input type="checkbox"/>
If yes, and tree species listed on either b), c) or d) are used please answer:		
Do the tree species originate from an area/region where it is IUCN red listed, categorized as CR, EN or VU?	<input type="checkbox"/>	<input type="checkbox"/>
Do the tree species originate from Intact Forest Landscape (IFL), defined in 2002 http://www.intactforests.org/world.map.html	<input type="checkbox"/>	<input type="checkbox"/>
Do the tree species originate from plantation established on areas converted from forest after 1994?	<input type="checkbox"/>	<input type="checkbox"/>

The tree species must originate from FSC or PEFC certified forest/plantation and must be covered by a valid FSC/PEFC chain of custody certificate documented/controlled as FSC or PEFC 100% through the FSC transfer method or PEFC physical separation method.

Please attach a valid FSC/PEFC Chain of Custody certificate (or state licence number) that covers the specific tree species and demonstrate that the tree is controlled as FSC or PEFC 100% through the FSC transfer method or PEFC physical separation method:

	YES	NO
Do you wish to declare for panels that accounts for more than 5% by weight of the product?	<input type="checkbox"/>	<input type="checkbox"/>
If yes, follow the requirements below.		

031 Chemicals in wood-based panels containing recycled materials

Recycled materials in wood-based panels must meet the requirements of the European Panel Federation's (EPF) Standard for delivery conditions of recycled wood, 2002.

This means that the materials must not come from:

- Treated wood: wood that contains halogenated organic compounds or heavy metals as a result of treatment with wood preservatives.
- Wood that exceeds the threshold limit values in the table below:

Substance/compound	Limit value (mg/kg recycled wood)
Arsenic (As)	25
Cadmium (Cd)	50
Chromium (Cr)	25
Copper (Cu)	40
Lead (Pb)	90
Mercury (Hg)	25
Fluorine (F)	100
Chlorine (Cl)	1000
Pentachlorophenol (PCP)	5
Creosote (Benzo(a)pyrene)	0.5

If the wood-based panel contains recycled materials, please attach certification of compliance with the EPF's Standard for delivery conditions of recycled wood, 2002, or subsequent versions, and any equivalent documentation/test report e.g. documentation in accordance with the German waste wood ordinance, 2002 or later, showing compliance with the requirements of the standard.

O32-O36: Classification of chemical products used in the production of wood-based panels Chemical products used for the manufacture of laminate must be declared in Appendix 15.				
Please state the name of the chemical product(s), CAS number, function and whether appendix 15 has been filled out			YES	NO
Name of chemical product	CAS number	Function	Appendix 15 filled out for the chemical product Y/N	
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

Please attach a safety data sheet of the chemical products in compliance with current European legislation (Annex II of REACH, Regulation (EC) No. 1907/2006).

Surface treatment of wood-based panels

O63-O68: Classification of chemical products used in surface treatment of wood-based panels Chemical products used for the manufacture of laminate must be declared in Appendix 16				
Please state the name of the chemical product(s), CAS number, function and whether appendix 16 has been filled out			YES	NO
Name of chemical product		Function	Appendix 16 filled out for the chemical product Y/N	
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

O64: UV curing surface treatment	YES	NO
Are the chemical products used for surface treatment UV curing?	<input type="checkbox"/>	<input type="checkbox"/>
<p>If yes, then the following applies:</p> <p>UV curing surface treatment products must be applied to the material during a controlled closed process where no discharge to recipient takes place. Spills and residual waste (e.g. residues from cleaning) must be collected in containers that are approved for hazardous waste and handled by a waste contractor.</p> <p>Please describe the process and how waste and residual waste are handled, including information about who receives the residual waste from the performer of the surface treatment:</p>		

O69 and O70 Quantity of applies VOC

The chemical products that are used must meet one of the following alternatives in each surface treatment system:

- a) The total content of VOCs* must not exceed 5% by weight
- b) The total amount of VOCs applied must not exceed the relevant threshold limit value in the table below:

Type of furniture	Threshold limit value for VOC applied (g/m ² coated surface)
Furniture coated with laminate	10
Furniture and interior doors intended for domestic use	30
Furniture and interior doors intended for non-domestic use	60
Kitchen and bathroom fitments	60

The applied quantity of VOCs according to alternative b) is calculated using the following formula:

$$\frac{\text{Applied amount of the surface treatment chemical} \left(\frac{\text{g}}{\text{m}^2} \right) \times \text{share of VOC in the surface treatment chemical (\%)}}{\text{Efficiency of the surface treatment (\%)}}$$

For both these alternatives, it is the content of VOCs that the chemical products have in their uncured form that must meet the requirement. If the products require dilution, the calculation must be based on the content in the diluted product.

The following levels of efficiency must be used when calculating the quantities of VOC for alternative b):

- Automated spray with no recycling, 50%
- Automated spray with recycling, 70%
- Spray application, electrostatic, 65%
- Spray application, bell/disk, 80%
- Roller varnishing 95%
- Blanket varnishing 95%
- Vacuum varnishing 95%
- Dipping 95%
- Rinsing 95%

For both alternative a) and b), it is the VOC content of the chemical products in their uncured form that must meet the area. If the products require dilutions, the calculation is to be based on the content in the diluted product.

Does the chemical product fulfil part a?	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Does the product fulfil part b?	<input type="checkbox"/>	<input type="checkbox"/>
If yes, please state the applied amount of VOC (mg/m ²):		

Emission of formaldehyde

O37 Emission of formaldehyde		
<p>Wood-based panels that contain formaldehyde-based adhesive must meet one of the following requirements (a or b):</p> <p>a) The emission of formaldehyde shall on average not exceed 0.062 mg/m³ air in accordance with test method EN 717-1.</p> <p>b) Emissions of formaldehyde shall on average not exceed 0.124 mg/m³ air according to test method EN 16516.</p> <p>The requirement applies to the raw wood-based panel. For panels coated with e.g., melamine O55 must be met</p>		
	YES	NO
Does the panel comply with either a or b?	<input type="checkbox"/>	<input type="checkbox"/>
<p>Please state the test method used and emission of formaldehyde in air (mg/m³):</p> <p>Please attach analysis report, including measurement methods, measurement results and measurement frequency. It must be clearly stated which method/standard was used, the laboratory that conducted the analysis, and that the analysis laboratory is an independent third party. Other analysis methods than those stated in the requirement may be used, provided that the correlation between test methods can be verified by an independent third party.</p>		

O38 Traceability and certification of wood raw materials in panels
<p>Species name</p> <p>Please state the name (species name) of the wood raw materials/bamboo that is used in the panel:</p>
<p>Chain of custody certification</p> <p>The manufacturer/supplier of the panel must have Chain of Custody certification under the FSC/PEFC schemes. <i>Manufacturers who only use recycled* material in the production are exempt from the requirement for traceability certification.</i></p> <p>Please attach valid FSC/PEFC chain of custody certificate (or licence number) covering the used wood raw materials.</p>
<p>Certified wood raw materials</p> <p>A minimum of 70% by weight of all wood raw materials/bamboo used in the panel must origin from forest managed according to sustainable forestry management principles that meet the requirements set out by FSC or PEFC chain of custody schemes.</p> <p>Please state the percentage of all wood raw materials/bamboo used in the panel (wt. %):</p> <p>The remaining proportion of wood raw material must be covered by the FSC/PEFC control schemes regarding FSC controlled wood/PEFC controlled sources or be recycled material.</p>

O39 Energy requirement for wood-based panels
<p>The following applies to energy consumption in the manufacture of:</p> <p>Chipboard: No more than 7 MJ/kg per panel can be used in the production of the panel (excluding any surface treatment).</p> <p>Wood based panels - wet process: No more than 14 MJ/kg per panel can be used in the production of the panel (excluding any surface treatment).</p> <p>Other panels: No more than 11 MJ/kg per panel can be used in the production of the panel (excluding any surface treatment).</p> <p><i>A detailed description of how the energy calculation is to be done is given in Appendix 2.</i></p>

Please state the energy consumption of the wood-based panel (MJ/kg):

Please attach calculation that contains information about the quantity of panels produced, electricity and fuel consumed, and which fuel sources have been used.

O40 Emission to water in wet process

For panels manufactured in wet processes, the COD emission to water must be maximum 20 g COD/kg product.

Please attach measurement results for the last 12 months, including information on the sampling program, measurement method and measurement frequency.

For processing and analysis methods, see Appendix 1.

Manufacture's signature

Place and date:	Company name:
Responsible person:	Signature of responsible person:
Phone:	Mail: