

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: |

| O27: Ecolabelled panels | YES | NO |
|--|--------------------------|--------------------------|
| Is the Nordic Swan Ecolabelled panel in accordance with the Nordic Ecolabel criteria for Panels and mouldings for interior use, generation 7 or later? | <input type="checkbox"/> | <input type="checkbox"/> |
| If yes, please state the name, manufacturer and licence number of the panel: | | |

| O28 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"/> |
| <p>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.</p> <p>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:</p> | | |

| | 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. | | |

O29 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.

O30-O34: 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 No., function and whether appendix 15 has been filled out | | | YES | NO |
|---|---------|----------|---|--------------------------|
| Name of chemical product | CAS No. | 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

| O61-O66: 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 No., 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"/> |

| O62: 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> | | |

| O67 and O68 Quantity of applied VOC | |
|---|---|
| The chemical products that are used must meet one of the following 3 alternatives (a-c) in each surface treatment system: | |
| <p>a) The total content of VOCs* must not exceed 5% by weight</p> <p>b) The total amount of VOCs applied must not exceed the relevant threshold limit value in the table below:</p> | |
| Type of furniture | Threshold limit value for VOC applied (g/m² 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 |
| <p>The applied quantity of VOCs according to alternative b) is calculated using the following formula:</p> $\frac{\text{Applied amount of the surface treatment chemical } \left(\frac{\text{g}}{\text{m}^2}\right) \times \text{share of VOC in the surface treatment chemical } (\%)}{\text{Efficiency of the surface treatment } (\%)}$ <p>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.</p> | |

c) VOC emissions from the finished furniture:

VOC emissions from the finished furniture must meet the limit value in the table below. Test conditions are also given in the table. Packaging and delivery of samples sent for analysis, handling and processing of these, climate chamber requirements and methods for gas analysis must follow the procedures described in the ISO 16000 standard series or equivalent test methods.

| Chamber volume | Between 1 and 10 m ³ |
|------------------|--|
| Loading rate | 0,5–1,5 m ² /m ³ |
| Ventilation rate | 0,5–1,5 t-1 |
| VOC (28 days) | ≤450 µg/m ³ |

Limit value after 28 days according to EN 16516. If the limit values in the table are met for a period shorter than 28 days, this is accepted.

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"/> |
| Does the finished furniture fulfil part c? | <input type="checkbox"/> | <input type="checkbox"/> |
| If yes, please state the applied amount of VOC (mg/m ²): | | |

Emission of formaldehyde

O35 Emission of formaldehyde

Wood-based panels containing formaldehyde-based adhesive must not exceed the limit values for the relevant test method* according to the table below:

| Test method | EN 717-1 | EN 16516 Loading factor 1 m ² /m ³ | EN 16516 Loading factor 1,8 m ² /m ³ |
|--------------|-------------------------|---|---|
| Formaldehyde | 0.062 mg/m ³ | 0,099 mg/m ³ | 0.124 mg/m ³ |

Limit value after 28 days according to EN 717-1 or EN 16516. If the limit values in the table are met for a period shorter than 28 days, this is accepted.

* Or other test methods with scientifically proven correlation by independent third party.

The requirement applies to the raw wood-based panel. For panels coated with e.g., melamine O54 must be met.

| | YES | NO |
|---|--------------------------|--------------------------|
| Does the panel comply with one of the 3 test methods and formaldehyde limits? | <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> | | |

O36 Traceability and certification of wood raw materials in panels

Species name

Please state the name (species name) of the wood raw materials/bamboo that is used in the panel:

Chain of custody certification

The manufacturer/supplier of the panel must have Chain of Custody certification under the FSC/PEFC schemes.

Manufacturers who only use recycled material in the production are exempt from the requirement for traceability certification.*

Please attach valid FSC/PEFC chain of custody certificate (or licence number) covering the used wood raw materials.

Certified wood raw materials

A minimum of 70% by weight of all wood raw materials/bamboo used in the panel must originate from forest managed according to sustainable forestry management principles that meet the requirements set out by FSC or PEFC chain of custody schemes.

Please state the percentage of all wood raw materials/bamboo used in the panel (wt. %):

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.

O37 Energy requirement for wood-based panels

The following applies to energy consumption in the manufacture of:

Chipboard:

No more than 7 MJ/kg per panel can be used in the production of the panel (excluding any surface treatment).

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).

Other panels:

No more than 11 MJ/kg per panel can be used in the production of the panel (excluding any surface treatment).

A detailed description of how the energy calculation is to be done is given in Appendix 2.

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.

O38 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: | E-mail: |