

Eco Mark Product Category No.123

“Building Products (Materials for Interior Work) Version2.8”

A. Materials for wood work

Certification Criteria

Category A-1 Wooden Floor

Japan Environment Association

Eco Mark Office

1. Purpose of Establishing Criteria

Omitted

2. Applicable Scope

- Single-layer and multi-layer wooden floors as defined in Japan Agricultural Standard JAS
- Sound insulation wooden floor

3. Terminology

Omitted

4. Certification Criteria and Certification Procedure

To show conformance to the individual criteria, the Applicant shall submit the respective Attached Certificate forms duly filled in.

In the event re-examination under the present Certification Criteria is sought for a product that is already certified in the Product Category No. 115 “Products Using Thinned-out Wood, Reused Wood, etc. Version 2.0,” the raw materials certification issued by the raw material supplier which is one of the procedures to show conformance to the applicable criteria 4-1. (1) as well as the certifications procedures (5) and (6) may be substituted by filling in necessary items on the Attached Certificate form and declaring further therein that no alterations have been made to the product already certified.

4-1. Environmental Criteria and Certification Procedure

- (1) The wooden part of the Product shall be 100% Reused/Unused Wood. Small-diameter logs of rarely utilized wood that are obtained from trees in natural forest or from trees in artificial forest by way of clear cutting, group selection cutting, or strip cutting shall satisfy the forest accreditation

requirements listed in Table 1.

In the event the Product uses as its raw material construction-derived wood that is defined as disassembled architectural wood (wood and woody materials that are generated as waste as a result of building demolition), materials that have received preservative, termite control or insect repellent treatment shall have been sorted out and removed. The content of hazardous substances in the Product shall satisfy the requirements with respect to hexavalent chromium and arsenic that are listed in Attached Table 3 of the enforcement regulation of the Soil Contamination Countermeasures Law (Ministerial Ordinance of the Ministry of the Environment No. 29 dated December 26, 2002).

Table 1 Forest Accreditation Requirements

Accreditation standards	That the standard balances the economic, ecological and social interests, adheres to the principles of Agenda 21 and the Declaration of Forest Principle, and observes compliance with pertinent international agreements and treaties.
	That the standard contains secure requirements and is conducive to and oriented toward sustainable forests.
	That the standard is recognized nationally or internationally and is recommended as part of a process open to participation of ecological, economic and social stakeholders.
Accreditation system	That the accreditation system is transparent, maintains extensive credibility nationally or internationally, and is capable of verifying the requirements.
Accreditation organization or body	That the organization is fair and reliable. That it is capable of verifying performance of the requirements, communicating the findings and enforcing effective performance of the requirements.

[Certification Procedure]

The Applicant shall fill in the names of recycled materials and their respective contents on the Attached Certificate form and submit it together with the raw materials certifications issued by the respective raw material suppliers. In the event rarely utilized wood is used as a raw material, the Applicant shall submit a document certifying the following, and if applicable shall in addition submit a document showing that a third-party accreditation has been given as to the sustainability of the forest:

- Type of forest (natural, artificial, etc.), location, tree species, and in case of artificial forest, the year of forestation
- The reason for lumbering (damage by diseases, insects, animals or natural

calamities, being not straight, being a small-diameter wood, etc.) and in case of small-diameter wood the method of management, end diameter, and other information

With respect to products that use structure demolition lumbers, any sorting and removal of ant repellents and the like shall be stated in the Attached Certificate. In case to use structure demolition lumber, certification to show any sorting of structure demolition lumber and removal of lumber that has been treated by preservatives, ant repellents or insecticides (operation manuals, operational flow-chart, etc.) shall be submitted. In addition, submit the test results prepared by an independent test organization or public body.

If bamboo is used as raw materials underutilized wood, a certificate showing the below mentioned items shall be submitted together with a photograph(s) or a map of the bamboo forest concerned.

- Bamboo species, place of origin, conditions of the surrounding area, description that the cutting was justified for proper environmental management, forest management plan and amount.

- (2) The total mass of any non-woody materials that may be added shall less than 30% of the total mass of the Product. If any adhesives, additives, or any decorative laminates are used in the Product, their respective recipe formulations and the mass content shall be stated.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria.

- (3) The Product shall be free of termite control agents, preservatives, fungicides, or insect repellents.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria.

- (4) The product using paint shall not contain any heavy metals or their compounds listed in Table 2 as prescribed constituents of the paint.

[Certification Procedure]

The Applicant shall submit the certificate issued by the paint manufacturer to show that the product does not contain any applicable substances. In the event Eco Mark-certified paints are used, proof of conformance may be substituted by

mention of the “brand name” and “certification number” of the certified paint to the application form.

Table 2 Standards for heavy metals and their compounds

Substance
Cadmium
Mercury
Hexavalent chromium
Lead
Arsenic
Antimony
Tributyl tin
Triphenyl tin

- (5) Products for which adhesives or paints have been used shall have no emission of toluene or xylene detected at the time of product shipment. “No emissions detected” shall mean no more than the lower quantification limit based on Japan Industrial Standard JIS A 1901 “Measuring methods for emission of volatile organic chemicals (VOC), formaldehyde and other carbonyl compounds—small chamber method.”

[Certification Procedure]

The applicant shall submit the test result of emission of toluene and xylene by the third party or in-house testing. In the event neither toluene nor xylene is added to the Product, adhesives or paints as prescribed constituents, the aforesaid test may be exempted and the Applicant shall submit a document substantiating no addition of the said substances.

- (6) In the case of Products for which adhesives or paints have been used, either the Product or the individual woody materials used, the adhesives, and the paints shall, with respect to the question of formaldehyde emission, conform to the applicable JIS standard, are rated “F four-stars” under the JAS standards, and are outside the scope of regulations set forth by the Minister of Land, Infrastructure and Transport, respectively. Put differently, the Product shall satisfy the numerical criteria of either a) or b) below:
- a) The formaldehyde emission is not more than 0.3 mg/l on average and not more than 0.4 mg/l at maximum, as measured pursuant to JIS A 1460 “Test method for formaldehyde emission of building boards—desiccator method.”
 - b) The formaldehyde emission rate is no higher than 5µg/(m²·h), as measured pursuant to JIS A 1901 “Test method for formaldehyde emission of building materials—small chamber method.”

Provided however the following alternatives c) and d) are also accepted:

- c) The formaldehyde emission is not more than 0.3 mg/l on average and not more than 0.4 mg/l at maximum, as measured pursuant to the glass desiccator method or the acrylic desiccator method that is stipulated in the individual JAS standards corresponding to woody material-based wooden floor.
- d) In the case of adhesives or paints for which JIS or JAS standards exist, the formaldehyde emission rate, as calculated by the use of conversion formula from the results of glass desiccator method measurement set out in the applicable individual standard, is no higher than $5\mu\text{g}/(\text{m}^2\cdot\text{h})$.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria.

In the event the Product used none of the formaldehyde emitting building materials specified by the Building Standards Law and hence is not subjected to formaldehyde regulations, the Applicant shall so state in the Attached Certificate form.

With respect to the Products for which any of the formaldehyde emitting building materials specified by the Building Standards Law are used, the Applicant shall submit a certificate showing that the Product has been rated Class “F four-stars” based on test results according to JIS standard or a document explaining that the product is outside the scope of regulations by the Minister of Land, Infrastructure and Transport.

- (7) The Product shall be accompanied by a manual relating to installation, use, maintenance, disassembly, disposal and recycling that is available for reading by the builder and the building owner.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria. In addition, the Applicant shall submit a sample of a manual relating to installation, use, maintenance, disassembly, disposal and recycling. Regarding a part of the product’s lifecycle from installation to recycling which is not included in the manual, the reason shall be indicated.

- (8) The Product shall be again recyclable after use. With respect to composite materials, attention shall have been paid for easy separation of different materials (base material, resin-based coating, etc.); provided however this criteria does not apply to any materials that are laminated onto the reverse side for the purposes of moisture prevention and unevenness moderation.

[Certification Procedure]

The Applicant shall explain how main materials are recycled and how different materials are separated.

- (9) In manufacturing the applied product, related environmental laws and regulations and pollution control agreement (hereinafter referred to as the “Environmental Laws, etc.”) must be followed with respect to air pollution, water contamination, noise, offensive odor, and emission of hazardous materials in the area where the plant performing the final manufacturing process is located.

In addition, the state of compliance with the Environmental Laws, etc. for the last five years from the date of application (whether there is any violation) must be reported. If there is any violation, it is necessary that proper remedies and preventive measures have been already taken, and the related Environmental Laws, etc. must thereafter be followed appropriately.

[Certification Procedure]

With respect to the compliance with the Environmental Laws, etc. in the area where the plant performing the final manufacturing process is located, a certificate issued by the representative of the business of manufacturing the applied product or the manager of the relevant plant (entry or attachment of the list of names of the Environmental Laws, etc.) must be submitted.

In addition, it is necessary to report whether there is any violation during the last five years, including a violation subject to administrative punishment or administrative guidance, and if there is, the following documents in a and b must be submitted:

- a. With respect to the fact of violation, guidance documents from administrative agencies (including order of correction and warning) and copies of written answers (including those reporting causes and results of correction) to such documents (making a series of progress clear);
- b. Following materials (copies of recording documents, and so on) concerning the management system for compliance with the Environmental Laws, etc. in 1)-5):
 - 1) List of the Environmental Laws, etc. related to the area where the plant is located;
 - 2) Implementation system (organizational chart with entry of roles, etc.);

- 3) Document stipulating retention of recording documents;
 4) Recurrence prevention measures (future preventive measures);
 5) State of implementation based on recurrence prevention measures (result of checking of the state of compliance, including the result of onsite inspection).

4-2. Quality Criteria and Certification Procedure

- (10) The Product quality shall conform to the JAS “Japan Agricultural Standard for Wooden Floor.”

In the case of sound insulation wooden floor, the sound insulation performance shall not exceed Level “L-50” stipulated in JIS A 1419, as adjudged from test results according to JIS A 1440. With respect to bamboo wooden floor, conformance to in-house standards similar to corresponding JAS “Japan Agricultural Standard for Wooden Floor” shall suffice.

[Certification Procedure]

The Applicant shall submit a document certifying the test results and other data to show conformance to the applicable JAS standards and JIS standards. In the event the Product or the manufacturing site of the Product has been certified by JAS and JIS, submission of a copy of certificate issued by JAS, JIS or the like shall suffice for the aforesaid purpose. With respect to the Products corresponding to JAS, a certification showing conformance to in-house standards similar to corresponding JAS “Japan Agricultural Standard for Wooden Floor” shall be submitted.

Established (scheduled) (Version 2.0):	May 1, 2007
Revised (4-1.(4)(5)(8): Version 2.2):	November 1, 2007
Revised (4-1.(9): Version 2.5):	August 21, 2008
Extension of Validity Period	March 15, 2010
Validity Period:	December 31, 2017

The Certification Criteria for the Product Category will be revised when necessary.