

Eco Mark Product Category No.123

“Building Products (Materials) Version2.0” Certification Criteria (draft)

Applicable Scope

- A. Materials for concrete work (scheduled)
- B. Materials for concrete blocks, ALC panels, and extruded cement boards (scheduled)
- C. Materials for waterproofing work
- D. Materials for masonry
- E. Materials for woodwork
- F. Materials for roofing and gutter work (scheduled)
- G. Materials for plastering work (scheduled)
- H. Materials for joiner's work
- I. Materials for carpentry
- J. Materials for curtain and related works (scheduled)
- K. Materials for unit and other works (scheduled)
- L. Materials for drainage work (scheduled)
- M. Materials for exterior finish work (scheduled)
- N. Materials for exterior facility work (scheduled)

Established: May 1, 2007 (scheduled)

Term of validity: April 30, 2012

Japan Environment Association

Eco Mark Office

NOTE: This document is a translation of the criteria written in Japanese. In the event of dispute, the original document should be taken as authoritative.

Eco Mark Product Category No.123 “Building Products (Materials) Version2.0”
Certification Criteria (Draft)

Category E-1 Wooden Floor

Japan Environment Association
Eco Mark Office

1. Applicable Scope

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

2. 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 115 “Products Using Thinned-out Wood, Reused Wood, etc. Version 2.0,” the Recycle Material Certificate issued by the supplier of the recycled material 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. In the event re-examination under the present Certification Criteria is sought for a product that is already certified in the Product Category 123 “Building Products Using Recycled Materials” the Recycle Material Certificate issued by the supplier of the recycled material which is one of the procedures to show conformance to the applicable criteria 4-1. (1) 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.

2-1. 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).

[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

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.

(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 for which paints have been used shall conform to the criteria on the chemical substances listed in Item (4) of 4-1 Common environmental criteria of Eco Mark Product Category No.126 "Paint Version 1" with respect to heavy metals and compounds thereof (Table 2).

[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 test report with respect to cadmium, mercury, hexavalent chromium and lead.

Table 2 Criteria on heavy metals and compounds

Substance	Criteria
Cadmium Mercury Hexavalent Chromium Lead no more than 0.06%	No more than 0.1% in total
Arsenic Antimony Tributyl tin Triphenyl tin	Not added as a formulation component

(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 state in the Attached Certificate form the conformance (or lack thereof) to this criteria and shall submit a test report.

(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 and shall submit a test report.

(7) The Product shall be accompanied by a manual relating to installation, use, maintenance, disassembly, 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.

(8) The Product shall be again recyclable after use. Alternatively, the discarding and disposal of the Product shall be as easy as those of ordinary products. 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 state in the Attached Certificate form the conformance (or lack thereof) to this criteria.

(9) Applicable environmental laws and regulations, pollution prevention agreements and any other requirements shall have been observed in the course of the Product manufacture with respect to air pollution, water contamination, noise, vibration, obnoxious odor, emission of hazardous substances, etc.

[Certification Procedure]

The Applicant shall submit a statement signed by the general manager of the manufacturing site of the Product declaring that all applicable environmental laws and regulations and the like have been observed and no violations or the like have been committed during the five-year period preceding the date of application.

2-2. 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.

[Certification Procedure]

The Applicant shall submit a document certifying the test results and other data to show conformance to the applicable JAS standards, JIS standards or the like. In the event the Product or the manufacturing site of the Product has been certified by JAS, JIS or the like, submission of a copy of certificate issued by JAS, JIS or the like shall suffice for the aforesaid purpose.

Established (scheduled) (Version 2.0): May 1, 2007

Validity Period: April 30, 2012

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