

Eco Mark Product Category No.123

“Building Products (Materials for Interior Work)
Version2.0”
Certification Criteria

— Applicable Scope —

- A. Materials for wood work
- B. Materials for joiner's work
- C. Materials for carpentry
- D. Materials for curtain and related works (scheduled)
- E. Materials for unit and other works (scheduled)

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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.

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D. Materials for curtain and related works (scheduled)

E. Materials for unit and other works (scheduled)

Category A-1 Wooden Floor

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 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. In the event re-examination under the present Certification Criteria is sought for a product that is already certified in the Product Category No. 123 “Building Products Using Recycled Materials” the raw materials certification issued by the raw materials supplier 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).

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 shall not contain any heavy metals or their compounds listed in Table 2 as prescribed constituents of the paint used.

[Certification Procedure]

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

Category B-1 Paper sliding-door, Fusuma door

1. Applicable Scope

- Finished paper sliding-door and finished fusuma door, provided that the door-case and structural grids are of woody materials
- Main structure of paper sliding-door and fusuma door, provided that the door-case and structural grids are of woody materials

Note 1: Paper sliding-doors that have sheet glass or skirting plate are included.

Note 2: Paper for paper sliding-door, paper for fusuma door and fabric sheet for fusuma door are classified into Category G-2 “Sliding-door paper, fusuma paper” because they are intended for eventual replacement from the start.

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 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), (6), and 4-2. (10) 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).

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 (except for paints, adhesives, printing ink, etc.) that may be added shall be less than 30% of the total mass of the Product. Provided however the total mass of such non-woody materials shall be less than 40% of the total mass of the Product if glass is used in the Product.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria and shall submit data on the mass of the Product and a materials sheet showing identity and mass of the woody and non-woody materials used.

- (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 shall not contain any heavy metals or their compounds listed in Table 2 as prescribed constituents of the paint used.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria. 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 0.06% or less
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 shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria and shall submit a report showing the results of tests carried out in accordance with JIS A 1901 with respect to the Product or the adhesives and paints used. 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 indicate in the Attached Certificate no addition of the said substances.

- (6) In the case of Products for which any of the formaldehyde emitting building materials specified by the Building Standards Law 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 $5\mu\text{g}/(\text{m}^2\cdot\text{h})$, as measured pursuant to JIS A 1901 “Test method for formaldehyde emission of building materials—small chamber method.”

Provided however the following alternatives c) is also accepted:

- c) 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 fit for uninterrupted use for a period of at least 20 years.

[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 in-house standards and the like.

[Certification Procedure]

The Applicant shall submit a document showing conformance to the applicable in-house standards or the like.

Category B-2 Sliding-door paper, fusuma paper

1. Applicable Scope

- ☐ Japan Industrial Standard “Sliding-door paper” JIS S 3102
- ☐ Fusuma paper

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 No.104 “Household Textile Products 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 certification procedures (2) and 4-2.(4) 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 No. 123 “Building Products Using Recycled Materials” 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 certification procedure 4-2.(4) 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 content of used paper pulp or the mass of recycle fiber in the total mass of fiber portion of the Product shall be no less than 50%. In the case of chemically recycled fiber, however, the content of recycled monomer shall be no less than 50% as monomer.

[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.

- (2) The Product shall contain none of the dyestuffs listed in Attached Table 1 as recipe prescribed constituentss.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria and submit it together with certifications issued by the paper manufacturer or dyeing manufacturer.

- (3) 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

- (4) The sliding-door paper shall conform to JIS S 3102.

The quality of fusuma paper shall have been properly managed in accordance with in-house standards and the like.

[Certification Procedure]

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

Category C-1 Boards

1. Applicable Scope

<input type="checkbox"/> Wood-based cement board	JIS A 5404
<input type="checkbox"/> Pulp cement board	JIS A 5414
<input type="checkbox"/> Decorative slate for house roof	JIS A 5423
<input type="checkbox"/> Fiber-reinforced cement board	JIS A 5430
<input type="checkbox"/> Rock wool sheathing board	JIS A 5451
<input type="checkbox"/> Gypsum board	JIS A 6901
<input type="checkbox"/> Fiber cement slate	ISO9125

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 No. 123 “Building Products Using Recycled Materials” 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 certification procedures (2), (3) and 4-2.(8) 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 (For fluorine and boron indicated in 4-1.(2), the test shall be performed as shown in applicable items of the Certification Criteria).

2-1. Environmental Criteria and Certification Procedure

- (1) The Product shall satisfy the corresponding recycled materials ratio*1 specified in below Table 1 with regard to product types.

*1: The ratio of mass of recycled materials against the Product total

[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. With respect to reused/unused wood, the Applicant shall submit the certificate stipulated in Attachment 1.

Table 1 Types of recycle materials and recycled materials ratio

Product name	Recycled materials ratio (%)	Recycled material type
Wood-based cement board	25	Reused/unused wood
Pulp cement board	10	Used paper pulp
Slag gypsum board	50	Slag, waste gypsum
Gypsum board	50	Waste gypsum
Others	50	Eco-cement

- (2) The Product shall conform to the standards concerning elusion of heavy metals and other hazardous substances that are set forth in Attached Table 2 of the enforcement regulation of the Soil Contamination Countermeasures Law (2002 Ministerial Order No. 29 of the Ministry of the Environment) with respect to cadmium, lead, hexavalent chromium, arsenic, mercury, selenium, fluorine, and boron among the specified hazardous substances listed therein.

Provided however, elusion tests for cadmium, lead, arsenic, and total mercury may be omitted to the extent that no detection has been confirmed by the composition analysis test stipulated in 4-1.(3) herein below.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria and submit it together with a document certifying the results of tests conducted by an independent testing organization or by a public body.

- (3) The Product shall conform to the standards concerning the contents in the Product of hazardous substances that are set forth in Attached Table 3 of the enforcement regulation of the Soil Contamination Countermeasures Law (2002 Ministerial Order No. 29 of the Ministry of the Environment) with respect to cadmium, lead, arsenic, total mercury and others among the specified hazardous substances listed therein.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria and submit it together with a document certifying the results of tests conducted by an independent testing

organization or by a public body.

- (4) The Product shall not contain asbestos.

The Product that is made of gypsum board recycled from the waste generated in connection with building demolition shall be made free of products that are known to have contained asbestos, arsenic, or cadmium through the process of sorting and removal. On the subject of specific waste gypsum boards to be eliminated, the Applicant should refer to “On the Inclusion of Asbestos in Gypsum Boards) published by the Gypsum Board Industry Association, “Proper Handling of Hazardous Substances and the Like Associated with Building Demolition and the Like” published by the Construction By-products Recycling Promotion Conference, and other pertinent documents.

No analysis shall be required if the Product is made of gypsum board that is recycled from the waste coming out of the manufacturing process of gypsum board processing plants or generated at a new building construction site, because the recycled material does not contain asbestos.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria or shall show conformance by way of testing. When showing conformance by way of testing, the Applicant shall submit a document certifying the results of tests conducted by an independent testing organization or by a public body. The asbestos content shall be measured in accordance with JIS A 1481 “Measuring Method for Asbestos Content in Building Materials.” Judgment as to the presence of asbestos shall be made pursuant to the Instruction Letter No.0821002 of the Labour Standards Bureau of the Ministry of Health, Labour and Welfare dated August 21, 2006 titled “On the Analysis Method of Asbestos Content in Building Materials” and the Instruction Letter No.0821001 of the said Bureau dated the same day titled “On the Points to Be Noted in Relation to the Analysis Method of Asbestos Content in Building Materials.”

- (5) 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.

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

[Certification Procedure]

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

- (7) 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.

Category C-2 Tatami mat

1. Applicable Scope

- ☐ Straw Tatamidoko and straw sandwich Tatamidoko JIS A 5901
- ☐ Tatami mat JIS A 5902
- ☐ Non straw Tatamidoko JIS A 5914
- ☐ Any Tatami mat equivalent to those on the above

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 No. 123 “Building Products Using Recycled Materials” 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 certification procedure 4-2.(10) 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 total mass of straw, reuses/unused wood, waste plant fiber and recycled plastic materials shall be no less than 80% of the total mass of the Product; provided that Tatami thread, yarn, Tatami hem, Tatami cover, paper and other small-sized attachments shall be excluded for the purpose of calculation. Furthermore, rarely utilized wood that is defined as small diameter wood shall satisfy the forest accreditation requirements listed in Attachment 1 if applicable to a) or b) shown in the definition.

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).

In the event the Product Tatamidoko comprises as its main material such foamed polystyrene sheet as corresponds to Type K and Type N defined in JIS A 5914 “3.types,” the criteria can be alternatively that the formulation ratio (mass basis) of recycled plastic materials in the foamed polystyrene sheet shall be no less than 50%.

[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. With respect to thinned-out wood and rarely utilized wood, the Applicant shall submit the certificate stipulated in Attachment 1.

In the event building demolition wood is used in the Product, the Applicant shall state in the Attached Certificate form whether termite control agents and the like have been separated and removed or not. Test results and other certificates shall be submitted with respect to the question of inclusion of hazardous substances.

In the event to use board made of Eco Mark-certified woods (Eco Marc Product Category No. 111), proof of conformance may be substituted by mention of the “brand name” and “certification number” of the certified board to the application form.

- (2) 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.

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

[Certification Procedure]

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

- (4) In the case of any woody material used as a core material shall, with respect to the question of formaldehyde emission, conform to the applicable JIS A 5905, are rated “F four-stars” under the JIS A 5908, 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 $5\mu\text{g}/(\text{m}^2\cdot\text{h})$, as measured pursuant to JIS A 1901 “Test method for formaldehyde emission of building materials—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 or the like. With respect to the Product which is allowed to indicate “F four-stars” under JIS A 5905 or JIS A 5908, or the Product which is certified as outside the scope of regulations set forth by the Minister of Land, Infrastructure and Transport, submission of a document or the copy certifying that shall suffice for the aforesaid purpose. In the event a board which is Eco Mark certificated is used, filling in the Product name and the Certification number on the Attached Certificate form shall suffice for the aforementioned purpose.

- (5) No cadmium, lead, total mercury, chromium, arsenic, selenium or their compounds have been added as recipe prescribed constituentss during the fabrication process of plastic material.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form whether cadmium and the like have been added or not.

- (6) In case the Product contains as a prescribed constituents any plastic material that has a halogen in the polymer skeleton, at least 70% of the plastic part of the Product after use shall be recovered. Furthermore, at least 70% of such recovered plastic part shall be directed to material recycling.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form whether this criteria applies to the Product or not, and, if affirmative, shall submit a document ensuring that proper recovery and recycling will be made at the time of Product disposal. This Office reserves the right to ask the Applicant to present reports on the recovery ratio (or to conduct audit) after the conclusion of the license agreement, for which the Applicant assumes the obligation to cooperate.

- (7) The Product shall have built-in features for long life including easiness of Tatami cover replacement.

[Certification Procedure]

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

- (8) The Product shall be recyclable even after use. Furthermore, attention has been paid to easiness of separation of different materials (core material and the like).

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria. The mode of recycling or separation shall be detailed in the Attached Certificate form (use of drawings and photos to supplement the description is encouraged).

- (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 straw Tatamidoko shall conform to JIS A 5901 with regard to quality, shape, dimensions and the like.

The quality of Tatami shall conform to JIS A 5902.

The non-straw Tatamidoko shall conform to JIS A 5914 with regard to dimensions, performance and the like.

In case of absence of JIS labeling, the Product shall have been manufactured at a plant accredited by All Japan Tatami Business Cooperative and so indicated by the certifying stamp.

[Certification Procedure]

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

2-2. Quality Criteria and Certification Procedure

- (8) The quality of the Product shall conform to any applicable ISO standards or JIS standards.

[Certification Procedure]

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

Category C-3 Wall paper

1. Applicable Scope

Japan Industrial Standard JIS A 6921 “Wall paper” and its equivalent

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 No. 123 “Building Products Using Recycled Materials” 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 certification procedure 4-2.(9) 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 Product shall contain as its raw material any of the recycled materials either alone or in combination and the recycled materials ratio shall be no less than 50% of the total mass of the Product (excluding adhesives, printing ink and the like). In the event a recycled material is used for more than one raw material category, furthermore, it shall be used in a ratio against the overall mass of the material at least equal to the recycled material ratio stipulated in Table 1, if the material in question is used in a quantity at least equal to 20% of the total Product mass.

However, for the Product containing of the recycled plastics made from post-consumer materials alone, the recycled materials ratio shall be no less than 25% of the total mass of the Product (excluding adhesives, printing ink and the like).

Table 1 Basic formulation ratio of recycled materials

Recycled material type	Recycled material ratio (%)	
	Pre-consumer material	Post-consumer material
Paper (used paper pulp)	50	
Plastic	50	25
Fiber*1	50	
Glass	50	

*1: Chemically recycled fibers must satisfy the above basic formulation ratio in terms of recycled monomer as monomer quantity.

[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.

- (2) The papers and fibers in the Product shall contain as its recipe prescribed constituents none of the dyestuffs listed in Separate Table 1.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria and submit it together with certifications issued by the paper manufacturer, dyestuffs manufacturer or dyeing manufacturer.

- (3) The Product shall contain as its recipe prescribed constituents none of the substances that are regulated by the Japan Printing Ink Makers Association's "Voluntary Restrictions on Printing Ink (a negative list regulation)."

[Certification Procedure]

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

- (4) In the case of plastic-based wall paper (a wall paper which is made by forming a plastic coating layer over a surface-treated paper and adding printing, embossing and other processing onto it), polyvinyl chloride resin is used in no more than 100g/m².

[Certification Procedure]

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

- (5) The Product shall satisfy the safety standards of Table 2 below.

Table 2 Safety standards

Substance	Standard	Measuring method
Formaldehyde	No more than 0.2mg/l	See JIS A 6921
TVOC	No more than 300µg/m ³	See <1> below

[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 in accordance with JIS A 6921 “Wall Paper”.

However, for the products with the new JIS mark (wall paper JIS A 6921) revised on March 20, 2003 and the products certified with by the Minister of Land, Infrastructure and Transport, the certifications to show the product qualified by JIS or the Minister of Land, Infrastructure and Transport can be alternative.

<1> TVOC

The 1m³ chamber method of CEN/TC264 is employed to measure the emission from Hour 24 through Day 28.

Interior wallpaper samples of size 0.5×0.5m are cut out. Two of them are held together by a clip with reverse sides facing each other, thus made a test piece of area size 1m² in the chamber air (1m³). The test piece is let stay in the chamber for 3 days at temperature 23±0.5°C, relative humidity 45±3% with ventilation once every hour. The VOCs emitted are collected into a Tenax tube and is analyzed by thermal desorption gas chromatography (TD/GC).

- (6) 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.

- (7) In case the Product contains as a prescribed constituents any plastic material that has a halogen in the polymer skeleton, at least 70% of the plastic part of the Product after use shall be recovered. Furthermore, at least 70% of such recovered plastic part shall be directed to material recycling.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form whether this criteria applies to the Product or not, and, if affirmative, shall submit a document ensuring that proper recovery and recycling will be made at the time of Product disposal. This Office reserves the right to ask the Applicant to present reports on the recovery ratio (or to conduct audit) after the conclusion of the license agreement, for which the Applicant assumes the obligation to cooperate.

- (8) 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

- (9) The Product shall conform to JIS A 6921 “Wall paper.” Provided however the stipulations regarding formaldehyde emission shall not apply.

With the exception of treated paper-based wall paper and plastic-based wall paper, conformance to in-house standards substantially equivalent to JIS A 6921 shall be sufficient.

[Certification Procedure]

The Applicant shall submit a document certifying the test results and other data to show conformance to the applicable JIS standards or the like.

In the event the Product or the manufacturing site of the Product has been certified by JIS or the like, submission of a copy of certificate issued by JIS or the like shall suffice for the aforesaid purpose. In case the Product is equivalent to JIS, the Applicant shall submit a document certifying conformance to the in-house standards substantially equivalent to JIS A 6921.

Established (Version 2.0): May 5, 2007

Validity Period: December 31, 2012

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