

Eco Mark Product Category No.137

**“Building Products (Materials for Exterior Finish
and Construction) Version1.4”
Certification Criteria**

— Applicable Scope —

- A. Materials for waterproofing work**
- B. Materials for roofing and gutter work**
- C. Materials for exterior finish work**
- D. Materials for exterior facility work**

Established: May 5, 2007

Revised: August 21, 2008

Term of validity: December 31, 2017

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.

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Eco Mark Product Category No.137 “Building Products (Materials for Exterior Finish and Construction) Version1.1” Certification Criteria

Category A-1 Roofing

1. Applicable Scope

* Asphalt roofing felt	JIS A 6005
* High polymer-based roofing sheet	JIS A 6008
* Net-shape asphalt roofing	JIS A 6012
* Modified asphalt roofing sheet	JIS A 6013
* Stretch asphalt roofing felt	JIS A 6022
* Perforated asphalt roofing felt	JIS A 6023
* Moisture permeable waterproof sheet	JIS A 6111
* Waterproof sheet for opening of dwellings, etc.	

2. Certification Criteria and Certification Procedure

2-1. Environmental Criteria and Certification Procedure

- (1) The total mass of recycled rubber, recycled fibers and recycled plastic materials shall be no less than 10% of the product mass less that of asphalt. Regarding to moisture permeable waterproof sheet and waterproof sheet, the total mass of recycled rubber, recycled fibers and recycled plastic materials shall be no less than 50% of the product mass.

[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 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 and selenium among the specified hazardous substances listed therein.

Provided however, this requirement does not apply to metals, paper, fabric and

woods.

For the elusion of applicable substances from the product, the results of tests conducted by an own company or a third party testing body shall be submitted. In case to conduct tests for each material, for the material which does not clearly contain the applicable substances, the certification certified by a material business or an applicant which shows the product contains no applicable substances is acceptable. However, for recycled materials, tests shall be conducted.

- (3) The Product shall not contain asbestos.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria and containing of asbestos (or not thereof).

- (4) 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.

- (5) The Product shall be free of termite control agents, preservatives, fungicides and pesticide.

[Certification Procedure]

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

- (6) No foamed resins used in the Product shall have been made by the use of any of the five specified CFCs listed in the attached Table 1, other CFCs, carbon tetrachloride, trichloroethane, or CFC substitutes (HCFC, HFC).

[Certification Procedure]

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

- (7) 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 substances 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 past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall 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 relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past 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 (clearly indicating a series of communication);
- b. Following materials (copies of recording documents, etc.) 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 roles, etc.);
 - 3) Bylaws 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).

2-2. Quality Criteria and Certification Procedure

- (8) The quality of the Product shall conform to any applicable JIS standards. The quality of waterproof sheet shall conform to the own standards in accordance with JIS, etc., and the quality standards shall be released.

[Certification Procedure]

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

For waterproof sheet, the Applicant shall submit a document to show conformance with own standards, and information disclosed parts such as a brochure, etc.

Established (Version 2.0): May 5, 2007

Revised (4-1.(2), (5) version1.1) : Nov. 1, 2007

Revised(version1.2): Feb. 14, 2008

Revised(version1.4): August 21, 2008

Validity Period: December 31, 2017

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

Category B-1 Roofing Materials

1. Applicable Scope

- Clay roof tiles JIS A 5208
- Pressed cement roof tiles JIS A 5402
- Roofing base materials (Roofing materials such as shallow roof tiles for installing roof tiles, etc.; moldings to be mounted at site excluding water proof materials)

2 Certification Criteria and Certification Procedure

2-1. Environmental Criteria and Certification Procedure

- (1) For the products, the mixing ratio of recycled materials shown in Table 1 shall be no less than 50%.

In addition, the following materials among the materials shown in Table 1 shall be pre-treated as prescribed below.

- Incineration ash: liquid slagging
- Sewage sludge: incineration ashing or liquid slagging
- Life/naturally generated sludge, industrially generated sludge :(in case that the product is molded at room temperature) incineration ashing or liquid slagging

Table 1 Types of recycled materials

Waste from mines and quarries	Waste sand from quarries and ceramics, micro silica sand generated at separation of silica by water
Waste from metal industry	Steel slag, copper slag, ferronickel slag, electric furnace slag, casting slag, ceramic waste
Other industrial waste	Coal ash, shells, glass cullet, waste gypsum, recycled plastic, recycled rubber
Life/naturally generated sludge	Water supply sludge, lake sludge, sewage sludge
Incinerated ashes	General waste (incineration ash)
Industrially generated sludge	Paper manufacturing sludge, aluminum sludge, plating sludge, polishing sand sludge
Eco-cement	

[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. For the materials which must be pre-treated, the pre-treatment method shall be indicated in the raw materials certifications.

- (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, and selenium among the specified hazardous substances listed therein. In case to use waste generated from metal industry, sludge, incineration ash and/or eco-cement as recycled materials, the product shall conform to the standards with respect to boron and fluorine.

However, this item is not applicable for metals, paper, fiber and wood.

[Certification Procedure]

For the elusion of applicable substances from the product, the results of tests conducted by an own company or a third party testing organization shall be submitted. In case to conduct tests for each material, for the material which does not clearly contain the applicable substances, the certification certified by a material business or an applicant which shows the product contains no applicable substances is acceptable. However, for recycled materials, tests shall be conducted.

- (3) 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 a 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.”

- (4) 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.

- (5) 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 substances 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 past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall

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 relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past 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 (clearly indicating a series of communication);
- b. Following materials (copies of recording documents, etc.) 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 roles, etc.);
 - 3) Bylaws 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).

2-2. Quality Criteria and Certification Procedure

- (6) The quality of the Product shall conform to the applicable JIS standards. The quality of the roofing base materials for which any JIS standards are not set shall conform to the own standards in accordance with JIS, etc, and the quality standards shall be released.

[Certification Procedure]

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

For the products without JIS standards, the Applicant shall submit a

certification to show conformance with own standards, and a material to show information disclosure such as a brochure, etc.

Established (Version 1.0): May 5, 2007

Revised (Version 1.3): February 25, 2008 (B-1 added)

Revised (Version 1.4): August 21, 2008

Term of validity: December 31, 2012

Certification Criteria of this Product Category shall be revised as needed.

Category C-1 Jacket Materials

1. Applicable Scope

- Siding for ceramic industry JIS A 5422
- Light-weight foam concrete panel (ALC panel) JIS A 5416
- Materials for exterior finish (finishing materials for external wall such as boards, external wall decorative materials, PC curtain wall; moldings to be mounted at site excluding materials for opening)

(Note) The applicable product for which the Product Category has been already set for its function such as the Product Category No.109 “Tile-blocks Version 2.0” shall be treated in the applicable Product Category. In addition, interior and exterior boards shall be treated in the Product Category No. 123 “Building Products (Materials for Interior Work) Version 2.0, Category C-1 Interior Boards”.

2 Certification Criteria and Certification Procedure

2-1. Environmental Criteria and Certification Procedure

- (1) For the products, the mixing ratio of recycled materials shown in Table 1 shall be no less than 50%.

However, instead of the mixing ratio, for products using recycled glass lightweight aggregates, the value obtained by the following equation shall be above 0.50.

Equation:

$$1.7 \frac{\left(\begin{array}{c} \text{Unit volume mass of the recycled} \\ \text{glass lightweight aggregates} \end{array} \right) \left(\begin{array}{c} \text{Weight of the recycled glass} \\ \text{lightweight aggregates} \end{array} \right) + \left(\begin{array}{c} \text{Weight of other} \\ \text{recycled materials} \end{array} \right)}{\text{(Product weight)}}$$

- * Significant figures are calculated by rounding an exact number to two decimal places.

In addition, the following materials among the materials shown in Table 1 shall be pre-treated as prescribed below.

- Incineration ash: liquid slagging
- Sewage sludge: incineration ashing or liquid slagging
- Life/naturally generated sludge, industrially generated sludge :(in case that the product is molded at room temperature) incineration ashing or liquid slagging

Table 1 Types of recycled materials

Waste from mines and Quarries	Waste sand from quarries and ceramics, micro silica sand generated at separation of silica by water
Waste from metal Industry	Steel slag, copper slag, ferronickel slag, electric furnace slag, casting slag, ceramic waste
Other industrial waste	Coal ash, shells, glass cullet, waste gypsum, recycled plastic, recycled rubber
Life/naturally generated sludge	Water supply sludge, lake sludge, sewage sludge
Incinerated ashes	General waste (incineration ash)
Industrially generated sludge	Paper manufacturing sludge, aluminum sludge, plating sludge, polishing sand sludge
Eco-cement	

[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. For the materials which must be pre-treated, the pre-treatment method shall be indicated in the raw materials certifications.

- (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, and selenium among the specified hazardous substances listed therein. In case to use slag, waste generated from metal industry, sludge, incineration ash and/or eco-cement as recycled materials, the product shall conform to the standards with respect to boron and fluorine.

However, this item is not applicable for metals, paper, fiber and wood.

[Certification Procedure]

For the elusion of applicable substances from the product, the results of tests conducted by an own company or a third party testing organization shall be submitted. In case to conduct tests for each material, for the material which does not clearly contain the applicable substances, the certification certified by a

material business or an applicant which shows the product contains no applicable substances is acceptable. However, for recycled materials, tests shall be conducted.

- (3) 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.”

- (4) 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.

- (5) 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 substances 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 past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall 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 relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past 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 (clearly indicating a series of communication);
- b. Following materials (copies of recording documents, etc.) 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 roles, etc.);
 - 3) Bylaws 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).

2-2. Quality Criteria and Certification Procedure

- (6) For non-burned products made by glass and concrete mixture, alkali-aggregate reactivity reduction measures shall be conducted in accordance with the alkali-aggregate reactivity reduction measures (August 2002, Ministry of Land, Infrastructure and Transport). For the products to be burned after mixing glass, applied detoxifying treatment, and used for non-burned products, detoxifying tests are not required.

[Certification Procedure]

For non-burned products made by glass and concrete mixture, it shall conform of the alkali-aggregate reactivity reduction measures, and test results of detoxifying tests for confirmation/reduction measures of alkali-aggregate reactivity by JIS A 1145 (Chemical method), JIS A 1146 (Mortar bar method) or JIS A 5308 (Ready-mixed concrete, Appendix 7&8), explanatory documents regarding to reduction measures, etc. shall be submitted. For the products to be burned after mixing glass, applied detoxifying treatment, and used for non-burned products, it shall be indicated in the Application Form for Eco Mark Certification/Use. For the products not made by glass and concrete mixture, it shall be indicated in the Application Form for Eco Mark Certification/Use.

- (7) The quality of the Product shall conform to any applicable JIS standards. The quality of the external materials for which any JIS standards are not set shall conform to the own standards in accordance with JIS, etc, and the quality standards shall be released.

[Certification Procedure]

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

For the products without JIS standards, the Applicant shall submit certification to show conformance with own standards, and a material to show information disclosure such as a brochure, etc.

Revised (Version 1.3): February 25, 2008 (C-1 added)

Revised (Version 1.4): August 21, 2008

Term of validity: December 31, 2017

Certification Criteria of this Product Category shall be revised as needed.

Category D-1 “Plastic Floor Parts”

1. Applicable Scope

* “Plastic floor parts” that form the floor of balcony, porch, etc. of dwellings JIS A 5721

* Floor parts that form the floor of balcony, porch, etc. of dwellings, made by plastics except combination materials of recycled wood/plastic

(Note) Board materials, etc. not mainly for floor parts shall be handled in the Eco Mark Product Category No. 118 “Plastic Product Version2.0”.

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 Material” and No.118 “Plastic Products”, 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 procedure 4-2. (7) 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 the certified product of the Product Category No. 123 “Building Products Using Recycled Material”, 4-1. (2) may be substituted as the certificate.

2-1. Environmental Criteria and Certification Procedure

- (1) The plastic floor parts shall contain no less than 50% by weight of recycled plastic materials against the total weight of plastic contained in the product.

[Certification Procedure]

The applicant shall state in the Attached Certificate the identity and content of the recycled materials and submit it, accompanied by raw material supply certificates of the raw material suppliers.

- (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, and selenium among the specified hazardous substances listed therein.

[Certification Procedure]

For the elusion of applicable substances from the product, the results of tests conducted by an own company or a third party testing body shall be submitted. In case to conduct tests for each material, for the material which does not clearly contain the applicable substances, the certification certified by a material business or an Applicant which shows the product contains no applicable substances is acceptable. However, for recycled materials, tests shall be conducted.

- (3) No foamed resins used in the Product shall have been made by the use of any of the five specified CFCs listed in the attached Table 1, other CFCs, carbon tetrachloride, trichloroethane, or CFC substitutes (HCFC, HFC).

[Certification Procedure]

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

- (4) The product containing paint shall not contain any heavy metals or their compounds listed in Table 1 as prescribed components 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 1 Standards for heavy metals and their compounds

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

- (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.

- (5) 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 substances 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 past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall 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 relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past 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 (clearly indicating a series of communication);
- b. Following materials (copies of recording documents, etc.) 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 roles, etc.);
- 3) Bylaws 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).

2-2. Quality Criteria and Certification Procedure

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

The quality of plastic floor parts which do not have any JIS standards shall conform to the own standards in accordance with JIS, etc., and the quality standards shall be released.

[Certification Procedure]

The Applicant shall submit a document certifying the test results and other data to show conformance with the applicable JIS standards. In the event the Product or the manufacturing site of the Product has been certified by JIS, submission of a copy of certificate issued by JIS shall suffice for the aforesaid purpose. For the products without JIS standards, the Applicant shall submit a document to show conformance with own standards, and information disclosed parts such as a brochure, etc.

Established (Version 1.0):	May 5, 2007
Revised (Adding Category D-1: Version 1.1):	November 1, 2007
Revised(version 1.2)	Feb. 14, 2008
Revised(version 1.4)	August 21, 2008
Validity Period:	December 31, 2017

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

Attached Table 1 CFC's prohibited to use during manufacturing resin foam

CFC5s	Trichlorofluoromethane	HCFC	Dichlorofluoropropane
	Dichlorodifluoromethane		Chlorodifluoropropane
	Trichlorotrifluoroethane		Chlorofluoropropane
	Dichlorotetrafluoroethane	HFC	Trifluoromethane
	Chloropentafluoroethane		Difluoromethane
Other CFCs	Chlorotrifluoromethane		Fluoromethane
	Pentachlorofluoromethane		1,1,1,2,2-Pentafluoroethane
	Tetrachlorodifluoroethane		1,1,2,2-Tetrafluoroethane
	Heptachlorofluoropropane		1,1,1,2-Tetrafluoroethane
	Hexachlorodifluoropropane		1,1,2-Trifluoroethane
	Pentachlorotrifluoropropane		1,1,1-Trifluoroethane
	Tetrachlorotetrafluoropropane		1,1-Difluoroethane
	Trichloropentafluoropropane		1,1,1,2,3,3,3-Heptafluoropropane
	Dichlorohexafluoropropane	1,1,1,3,3,3-Hexafluoropropane	
	Chloroheptafluoropropane	1,1,2,2,3-Pentafluoropropane	
	Carbon Tetrachloride		
	1,1,1-Trichloroethane		
HCFC	Dichlorofluoromethane		
	Chlorodifluoromethane		
	Chlorofluoromethane		
	Tetrachlorofluoroethane		
	Trichlorodifluoroethane		
	Dichlorotrifluoroethane		
	Chlorotetrafluoroethane		
	Trichlorofluoroethane		
	Dichlorodifluoroethane		
	Chlorotrifluoroethane		
	Dichlorofluoroethane		
	Chlorodifluoroethane		
	Chlorofluoroethane		
	Hexachlorofluoropropane		
	Pentachlorodifluoropropane		
	Tetrachlorotrifluoropropane		
	Trichlorotetrafluoropropane		
	Dichloropentafluoropropane		
	Chlorohexafluoropropane		
	Pentachlorofluoropropane		
	Tetrachlorodifluoropropane		
	Trichlorotrifluoropropane		
	Dichlorotetrafluoropropane		
	Chloropentafluoropropane		
	Tetrachlorofluoropropane		

Category D-2 “Wood/Plastic Recycled Composites”

1. Applicable Scope

*Products qualify as “Wood-plastic recycled composites” stipulated in JIS A 5741, and exterior floor parts and louver using these products

(Note) Products covered by Eco Mark Product Category No. 131 “Products for Civil Engineering Version 1.” etc. shall be applicable to the appropriate product category.

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 Material” and No.118 “Plastic Products”, the raw materials certification issued by the raw material supplier, which is one of the procedures to show conformance to the applicable criteria 2-1. (1), as well as the certifications procedure 2-2. (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. Certified products under the Product Category No.123 “Building Products Using Recycled Material” may be substituted as well for 2-1.(2).

2-1. Environmental Criteria and Certification Procedure

- (1) The plastic floor parts shall contain no less than 50% by weight of recycled plastic materials against the total weight of plastic and wooden material contained in the product. Furthermore, less useful 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.

[Certification Procedure]

The applicant shall state in the Attached Certificate the identity and content of the recycled materials and submit it, accompanied by raw material supply certificates of the raw material suppliers. With respect to forest thinning and underutilized lumber, certificates stipulated in Attachment 1 shall be submitted.

- (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, and selenium among the

specified hazardous substances listed therein.

[Certification Procedure]

For the elusion of applicable substances from the product, the results of tests conducted by an own company or a third party testing body shall be submitted. In case to conduct tests for each material, for the material which does not clearly contain the applicable substances, the certification certified by a material business or an Applicant which shows the product contains no applicable substances is acceptable. However, for recycled materials, tests shall be conducted.

- (3) For products using lumber from dismantled buildings (wood and wooden materials disposed in dismantling), lumber subject to preservatives, termicides, and pesticides shall be differentiated and eliminated. The content of harmful substances in these products shall meet the requirements for hexavalent chromium and arsenic given in Attachment 3, which is provide by the detailed enforcement regulations (December 26, 2002, Environment Ministry Ordinance No. 29) of the Soil Pollution Control Law.

Documents certifying that lumber from dismantled buildings is sorted in use or not used (work manual, workflow, etc.) shall be submitted. If using lumber from dismantled buildings, results of tests implemented by a third party testing centers or public institutions shall be submitted.

- (4) No foamed resins used in the Product shall have been made by the use of any of the five specified CFCs listed in the attached Table 1, other CFCs, carbon tetrachloride, trichloroethane, or CFC substitutes (HCFC, HFC).

[Certification Procedure]

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

- (5) The product using paints shall not contain any heavy metals or their compounds listed in Table 1 as formulation ingredients.

[Certification Procedure]

The Applicant shall submit the certificate to show exclusion of 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 1 Standards for heavy metals and their compounds

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

- (6) 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.

- (7) 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 substances 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 past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall 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 relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past 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 (clearly indicating a series of communication);
- b. Following materials (copies of recording documents, etc.) 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 roles, etc.);
 - 3) Bylaws 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).

2-2. Quality Criteria and Certification Procedure

- (8) The quality of the Product shall conform to any applicable JIS standards. For the processed product, conformance to the applicable ISO, JIS, and/or industrial standards shall suffice.

[Certification Procedure]

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

Established (Version 1.0):	May 5, 2007
Revised (Version 1.1)	November 1, 2007 (D-1 added)
Revised (Version 1.4)	August 21, 2008
Validity Period:	December 31, 2017

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

Category D-3 “Rainwater Holding Tank”

Japan Environment Association
Eco Mark Office

1. Applicable Scope

*Rainwater holding tank for home use (converted septic tanks are excluded)

2. Certification Criteria and Certification Procedure

2-1. Environmental Criteria and Certification Procedure

- (1) The Product shall be capable of collecting rainwater from building roofs during rainfall, holding the rainwater after the rain stopped, equipping with water faucet and other attachments for effective utilization of the stored rainwater, and making it available effectively for garden watering and other household uses.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria, and submit a catalogue, etc. to show the outline of the product.

- (2) The Product shall have measures to keep water quality (cover to prevent contamination by trash, dust or insects, filter, nets, initial rainwater remover, easy-cleaning structure, etc.).

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the conformance (or lack thereof) to this criteria, and submit the materials to show the structure and measures to keep water quality of the product.

- (3) The Product shall have a water holding capacity of 100 liters to 500 liters.

[Certification Procedure]

The Applicant shall state in the Attached Certificate form the water holding capacity.

- (4) The Product shall contain no cadmium, lead, mercury, chromium, arsenic, selenium or their compounds as prescribed components in the plastic molding process.

[Certification Procedure]

The Applicant shall state in the Attached Certificate any presence of cadmium and other chemicals.

- (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. For the items of use, maintenance, measures to keep water quality (such as filter exchange, regular cleaning) and points to remember for the structure of the product (such as restrictions of application, water contamination by repeated use) shall be indicated.

[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 reasons shall be indicated.

- (6) The main materials of the Product shall be again recyclable after use. With respect to composite materials, attention shall have been paid for easy separation of different materials.

[Certification Procedure]

The Applicant shall explain the recycling method for main materials and separation method for different materials.

- (7) 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 substances 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 past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall 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 relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past

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 (clearly indicating a series of communication);
- b. Following materials (copies of recording documents, etc.) 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 roles, etc.);
 - 3) Bylaws 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).

2-2. Quality Criteria and Certification Procedure

- (8) The Product is quality controlled by the manufacturer, and safety (measures to avoid falling, etc.) in installation and use is ensured.

[Certification Procedure]

The Applicant shall submit a statement regarding the quality control system for the product as well as a statement regarding safety assurance for installation and use.

Established (Version 1.0):	May 5, 2007
Revised (D-3 added (Version 1.1)):	November 1, 2007
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The Certification Criteria for the Product Category will be revised when necessary.