

Eco Mark Product Category No.123

“Building Products (Materials for Interior Work) Version2.8”**D. Materials for unit and other works****Certification Criteria**

Japan Environment Association

Eco Mark Office

D-1 Non Slip Stair Treads**1. Purpose of Establishing Certification Criteria**

Omitted.

2. Applicable Scope

- Non slip stair treads (Non-slip part shall be made by resin, including metal platforms as component parts.)

3. Terminology

Omitted.

4. Certification Criteria and Certification Procedure**4-1. Environmental Criteria and Certification Procedure**

- (1) For the plastic products, the weight percentage of recycled plastic shall be no less than 50% for the total weight of the product (excluding easily separable parts such as a metal platform and a screw from resin of the non-slip part). For the elastomer and rubber products, the weight percentage of recycled elastomer and recycled rubber shall be no less than 10% for the total weight of the product (excluding easily separable parts such as a metal platform and a screw from resin of the non-slip part).

[Certification Procedure]

The Applicant shall fill in the names of recycled materials and their respective contents on the Attached Certificate and submit it together with the raw materials certifications issued by the respective raw material suppliers. In case that the product contains removable parts from resin of the non-slip part, the explanatory document shall be submitted to show that they are easily separated.

- (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.

However, this item is not applicable for metals.

[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) 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. For the plastic product with use of halogen, however, the average length of year to use is 20 years and over, this item is not applicable.

[Certification Procedure]

The Applicant shall state in the Attached Certificate 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, or continuous use of 20 years and over. Eco Mark 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.

- (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. For the installation part, notes for installation in terms of the consideration for use of visually-impaired person (example: arrangement, color contrast for person with reduced vision, etc.) shall be indicated.

[Certification Procedure]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate. In addition, a sample of a manual relating to installation, use, maintenance, disassembly, disposal and recycling shall be submitted. 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).

4-2. Quality Criteria and Certification Procedure

(6) The Product quality shall conform to in-house standards and the like.

[Certification Procedure]

A document showing conformance to the applicable in-house standards or the like shall be submitted.

May 5,2007	Established (Version 2.0)
February 25, 2008	Revised (D-1 added Version2.4)
August 21, 2008	Revised (2-1.(5) Version2.5)
December 31,2017	Validity Period

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

D-2 Braille Tacks

1. Purpose of Establishing Certification Criteria

Omitted.

2. Applicable Scope

- Braille tacks
- Braille sheets

3. Terminology

Omitted.

4. Certification Criteria and Certification Procedure

4-1. Environmental Criteria and Certification Procedure

- (1) For the products, the weight percentage of recycled plastic shall be no less than 50% for the total weight of the product.

[Certification Procedure]

The Applicant shall fill in the names of recycled materials and their respective contents on the Attached Certificate 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.

However, this item is not applicable for metals.

[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) 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. For the plastic product with use of halogen, however, the average length of year to use is 20 years and over, this item is not applicable.

[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, or continuous use of 20 years and over. 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.

- (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. For the installation part, notes for installation in terms of the consideration for use of visually-impaired person (example: arrangement, color contrast for person with reduced vision, etc.) shall be indicated.

[Certification Procedure]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate. In addition, a sample of a manual relating to installation, use, maintenance, disassembly, disposal and recycling shall be submitted. 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).

4-2. Quality Criteria and Certification Procedure

(6) The quality of the Product shall conform to the JIS T 9251 “Dimensions, size and patterns of raised part of tactile ground surface indicators for visually disabled”, etc.

[Certification Procedure]

A certificate showing conformance with the applicable JIS standards shall be submitted.

May 5,2007	Established (Version 2.0)
February 25, 2008	Revised (D-2 added Version2.4)
August 21, 2008	Revised (4-1.(5) Version2.5)
December 31,2017	Validity Period

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

Category D-3 Access Floor

Japan Environment Association
Eco Mark Office

1. Purpose of Establishing Certification Criteria

Omitted.

2. Applicable Scope

- Components of access floor
Standards of Japan Access Floor Association (JAFA)

3. Terminology

Omitted.

4. Certification Criteria and Certification Procedure

To show conformance to the individual criteria item, the respective Attached Certificates shall be submitted.

In addition, in the event a product which is a certified product of Product Category No. 123 “Building Products Using Recycled Materials” is re-examined under this Certification Criteria, the method of demonstrating 4-1. (3) and 4-2. (9) of the applicable standard items 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 in 4-1. (3), a test as shown in the relevant standard item shall be conducted).

4-1. Environmental Criteria and Certification Procedure

(1) A product (referring to a panel, channel in double flooring, and component such as a supporting leg, and excluding small attachments such as screws, bolts, etc. The same applies hereinafter.) shall be such designed that consideration is given to the following 3Rs:

- The product has a resource saving design, such as weight reduction of used materials, use of recycled materials, etc.
- A material that can be recycled after use shall be selected as a main material to be used in the product.
- The product has a design that makes separation by material easy, such as facilitation of separation of heterogeneous materials, or uniformity among materials in a part, etc.
- Referring to information on recycling such as material of members used in the product and methods of disassembly/dismantlement, etc. shall be possible.

[Certification Procedure]

An applicant or a manufacturer shall describe conformance with the 3R design checklist, and explain the content specifically.

- (2) The product shall satisfy either a or b:
- a. As a system to be provided by a manufacturer or distributor, there is a system for collecting/recycling applied products, and information therefor shall be provided. In addition, the rate of reuse/recycling of products collected by the system shall be 80% or higher.

For the products, each material exceeding 20% of the total mass of the product shall satisfy the standard content rate of the material category shown in Table 1, and the weight percentage of recycled materials shall be no less than 50% for the total weight of the product.

However, for products using glass reworked lightweight aggregates, it may be acceptable if a value to be determined by the following calculating formula is 0.50 or higher, instead of the reworked material combination ratio.

Calculating Formula :

$$1.7 / \left(\frac{\text{Unit Volume Mass of Glass Reworked Lightweight}}{\text{Mass of Glass Reworked Lightweight Aggregate}} \right) + \left(\frac{\text{Mass of Other Reworked Material}}{\text{Product Mass}} \right)$$

※ Significant Figures : Two places of decimals (Round to the nearest hundredths.)

Table1 Types and standard ratio of reworked materials

Material category	Types of recycled materials	Standard Combination Ratio
Concrete	Slag (Blast-furnace slag, iron and steel slag, molten slag, etc.), Glass cullet, Waste gypsum, Coal ash, Eco-cement	Mass of Reworked Material / Mass of Concrete × 100 ≥ 50%
Plastic	recycled plastic	Reworked Plastic / All Plastics × 100 ≥ 50%
Wood	reused/unused wood	Reused/Unused Wood / All Woods × 100 = 100%

[Certification Procedure]

The applicant shall enter any option of a or b on the Attached Certificate. For a, as a description of the collection/recycling system, a certificate and reference materials listed in the Exhibit shall be submitted. In addition, a purpose of reuse or recycling for each component of the product shall be described and the reuse/recycling ratio to the total mass of members to be used in a unit area shall be calculated.

For b, a name of reworked material combined, a certificate of a combination ratio, and a raw material supply certificate issued by a raw material supplier shall be submitted. For thinned wood and less useful wood, a certificate stipulated in Exhibit 2 shall be submitted.

- (3) 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 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 manufacturer or an applicant which shows the product contains no applicable substances is acceptable. However, for recycled materials, tests shall be conducted.

- (4) When using lumber, the product shall be free of termite control agents, preservatives, fungicides and pesticides.

For products using lumber from dismantled buildings (wood and wooden materials disposed in dismantling), lumber subject to preservatives, termite control agent, 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 Attached Table 3 of the enforcement regulation of the Soil Contamination Countermeasures Law (2002 Ministerial Order No. 29 of the Ministry of the Environment).

[Certification Procedure]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate. Documents (including work manual, and workflow) certifying that lumber from dismantled buildings is sorted in use or not used shall be submitted. If using lumber from dismantled buildings, the results of tests conducted by an own company or a third party testing body shall be submitted.

- (5) 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, “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 should be referred.

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]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate. In the event that products which have turned out to have contained asbestos, arsenic, and/or cadmium are separated and removed, applicants must report the specific separation and removal methods. Incidentally, in the case of judgment by analytical examinations, applicants must determine that more than 0.1% of six types of asbestos including Tremolite are not contained by the methods that conform to “JIS A1481: Determination of asbestos in building material products” (2008) shown in 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.”

- (6) Foamed resins shall not use the specific chlorofluorocarbons (five CFCs), other CFCs, carbon tetrachloride, trichloroethane, and CFC substitutes (HCFC, HFC) listed in the Attached Table 1.

[Certification Procedure]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate.

- (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]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate. In addition, a sample of a manual relating to installation, use, maintenance, disassembly, disposal and recycling shall be submitted. 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) 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).

4-2. Quality Criteria and Certification Procedure

- (7) The quality of the Product shall conform to the Standards of Japan Access Floor Association (JAFA) “Standards for components of access floor (February, 2003)” or the applicable in-house standards.

[Certification Procedure]

A document showing conformance to the Standards of Japan Access Floor Association (JAFA) “Standards for components of access floor (February, 2003)” or the applicable in-house standards shall be submitted.

May 5,2007	Established (Version 2.0)
November 26, 2008	Revised (D-3 added)
May 1, 2009	Revised (revision of applicable product)
December 31,2017	Validity Period

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

Attached Table1 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			

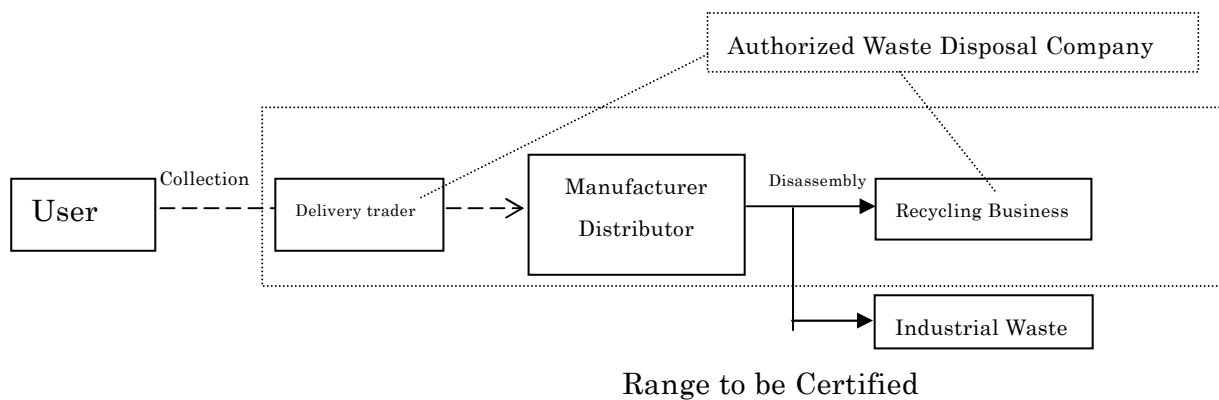
Exhibit 1

Certificates on for Collection/Recycling System

1. Overview of Collection/Recycling System

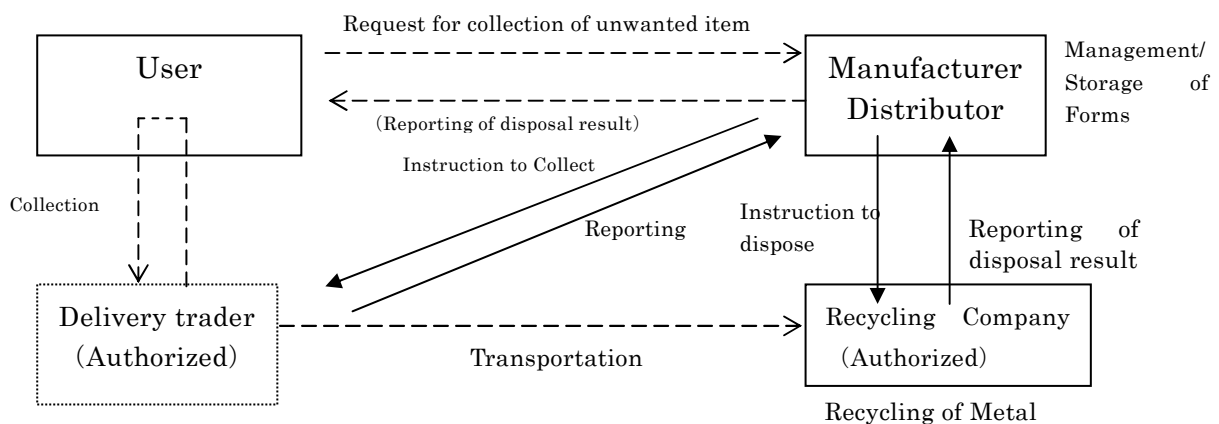
Maintenance of the collection/recycling system shall be performed by an authorized collection and delivery trader/disposal contractor or shall be performed in a manner that does not violate the ordinance such as “Wastes Disposal and Public Cleansing Law” .

Example 1) When a manufacturer or a distributor is certified by the “Extensive authorization system for waste disposal”.



Example 2) System utilizing a network with an authorized collection and delivery trader/disposal contractor

Upon receipt of a user’s request for collection, an eco-mark certified company acts as a liaison, arranges for a contracted vendor that was certified, or introduces an authorized vendor.



2. Necessary Certificates, etc.

(1) Description of the collection/processing flow

Collection/processing flow chart (if collection cost or processing cost is incurred, flow of them shall also be included.)

(2) Details of reuse/recycling

Design specifications of structure, weight, etc. of a part to be reused/recycled, explanatory material on a purpose of recycling, etc., showing that parts to be reused/recycled will be 80% or higher.

(3) An area to which the collection/recycling system applies

(4) List of traders that perform collection/recycling (including intermediate treatment traders) and whether or not each trader has an authorization (if the authorization is not required, describe the reason).

(5) Provision of information to users (mandatory to include indications in manuals, catalogs, pamphlets, etc.)

- Whether or not a user (who request for collection) has to bear the collection cost or treatment cost.
- Address to contact to request collection
- Manifestation that the product will be collected/recycled after use

(Example of Manifestation)

If you wish to request collection of an unwanted product, contact our office. We will collect the product for a fee, or will introduce an appropriate trader. The collected product will be recycled properly.
Phone XX-XXXX-XXXX

(6) Management System

- Method for keeping track of collection result or treatment result (manifesto of an intermediate treatment trader, etc.)
- If you introduce a collection/treatment trader, explanation about a method of communication/line of command
- Management of collection/treatment status (Storage of forms, etc.)

(7) Whether or not there is any previous collection/recycling records

If you have a record for an applied product or similar product, report actual reused/recycled amount to the collected amount. In addition, even if you have no record when you apply, the Secretariat may request the applicant to report (or perform auditing on) collected amount, actual reused/recycled amount, etc., after the use agreement is concluded. The applicant must cooperate with it.

※If you are certified by the “Cross-jurisdictional Waste Treatment Manufacturer Scheme” , you can satisfy (1), (3), (4) and (6) of the above. In such a case, attachment of a copy of the certification shall be able to replace the certificate.

Exhibit 2**Requirements on Forestry Certification**

Certification criteria	While balancing economical, ecological, and social benefits, the criteria shall comply with Agenda 21 and Statement of Principles on Forests, and observe related international agreements and conventions. Including solid requirements, the criteria shall promote sustainable forests. Recognized both domestically and internationally, the criteria shall be recommended as part of the process opened to participation by ecological, economical, and social stakeholders.
Certification system	Certification systems shall have high transparency, maintain nation-wide or international reliability, and can verify requirements.
Certification body	With fairness and high reliability, certification organizations and groups shall be able to verify that requirements are satisfied, convey the results, and able to execute requirements effectively.

Certification item on thinned wood and less useful wood

Documents issued by the raw material vendor certifying that the raw material is thinned wood and unused wood shall be submitted. If there are multiple vendors, a list of the vendors and list of certification of the top 10 vendors in terms of volume of material traded shall be submitted.

If using thinned wood as the material, a certificate of origin that includes information on the place of production, type of tree, and year of planting shall be submitted with photographs of the forest concerned (showing clearly that the forest stand has been thinned). The trimming percentage and how many times the forest has been thinned, including the most recent trimming shall also be indicated if possible.

If using less useful wood, the following information shall be submitted. At the same time, official documents stating that the forest has been certified as sustainable by a third party shall be submitted.

- Type of forest (natural regenerated or plantation, etc.), place of production, type of tree; year of tree planting should be added if plantation forest.
- Under what conditions was the wood produced (damaged by disease/pests, damaged by disaster, bent or narrow trees, etc.). For small diameter log, indicate logging method and tip end diameter.

If using bamboo as the raw material in less useful wood, certificates indicating the following information and photographs/maps of the surroundings of the bamboo grove shall be submitted.

- Type of bamboo, place of production, surrounding conditions, and description that logging is carried out for the purpose of appropriate maintenance and management in environment preservation, as well as management plans and quantity.

D-4 Folding Doors

1. Purpose of Establishing Certification Criteria

Omitted.

2. Applicable Scope

- Folding doors

It is a product to be held by hanger rails, and has an elastic mechanism with constant pitch. However, the product with use of electricity is not applicable to this criteria.

3. Terminology

Omitted.

4. Certification Criteria and Certification Procedure

4-1. Environmental Criteria and Certification Procedure

- (1) For the products, the total weight percentage of recycled plastic or recycled fiber shall be no less than 50% for the total weight of the product (excluding hanger rails, elastic mechanism, frame, etc.).

[Certification Procedure]

The Applicant shall fill in the names of recycled materials and their respective contents on the Attached Certificate and submit it together with the raw materials certificates issued by the respective raw material suppliers.

- (2) For the product, the dye shown in Attached Table 1 shall not be added in fiber as prescribed components.

[Certification Procedure]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate.

- (3) 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.

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.

- (4) Products for which adhesives or paints have been used shall have no emission of toluene or xylem 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]

Test results conducted by an own company or a third party testing body for emission of toluene and xylem shall be submitted. In the event neither toluene nor xylem is added to the Product, adhesives or paints as prescribed components, the aforesaid test may be exempted and no addition of the said substances shall be indicated in the attached certificate.

- (5) In the case of Products for which adhesives or paints have been used, with respect to the question of formaldehyde emission, the product or used adhesives or used paints shall 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 “Measuring methods for emission of volatile organic chemicals (VOC), formaldehyde and other carbonyl compounds—small chamber method.”

Provided however the following alternative 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]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate.

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.

- (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. For the plastic product with use of halogen, however, the average length of year to use is 20 years and over, this item is not applicable.

[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, or continuous use of 20 years and over. 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 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]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate. In addition, a sample of a manual relating to installation, use, maintenance, disassembly, disposal and recycling shall be submitted. 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 recyclable after use. The product made with multiple materials, the separation method for different materials shall be considered to be easily conducted.

[Certification Procedure]

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

- (9) The applicant shall have repair system for the Eco Mark certified products. The system shall be the following 1) and/or 2). 1) The product can be repaired, and the applicant shall repair the product corresponding to the users’ request for at least 10 years after production stoppage of the applied product. 2) The product shall be designed that users can replace the damaged parts, and the corresponding parts shall be provided at least 10 years after production stoppage of the applied product.

[Certification Procedure]

The applicant shall submit the following certification or material to certify the

repair system for the Eco Mark certified product. In addition, the applicant shall submit the applicable part to show the fact that a user can easily refer to information about repair or replacement system (trouble shooting method for users, target scope of repair or replacement, duration requiring for repair, contact address, telephone number, etc.) in a handling manual, product labeling or brochure, etc.

- 1) Certification to indicate that repair of the applied product is conducted corresponding to the users' request for at least 10 years after production stoppage
- 2) Certification to show that the repair parts can be provided at least 10 years after production stoppage of the applied product; and explanatory document to show the handling procedures (from order of repair part by a user to delivering the repair part to a user) and required duration of time

- (10) 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).

4-2. Quality Criteria and Certification Procedure

(11) The quality of the Product shall conform to the own standards, etc.

[Certification Procedure]

A certificate showing conformance with the own standards, etc. shall be submitted.

May 5,2007	Established (Version 2.0)
February 25, 2008	Revised (D-4 added Versuin2.4)
August 21, 2008	Revised (4-1(9) Version2.5)
December 31,2017	Validity Period

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

Attached Table 1

Dye

The following dyes shown in a. b. and c. shall not be added as prescribed components.

For fibers other than wool, chromium dye shall not be added as prescribed components.

Certification Procedure: Certificate issued by a manager of dye plant shall be submitted.

a. Azo Dyes which may Generate the Following Carcinogenic Amines in Degradation (Products detected with over 30 mg/product kg of more than one of the following amines using analysis methods prescribed in the List of Public Test Methods based on Article 35 of the German Food and Sundries Law)

Carcinogenic Rank (A1)		
92-67-1	4-aminobiphenyl	C1 (EU), 1(NTP, IARC)
92-87-5	Benzedrine	C1 (EU), 1(NTP, IARC)
95-69-2	4-chloro-o-toluidine	2A(NTP, IARC)
91-59-8	2-naphthylamine	C1 (EU), 1(NTP, IARC)
Carcinogenic Rank (A2)		
97-56-3	o-aminoazotoluene	C2 (EU), 2B(NTP, IARC)
99-55-8	2-amino-4-nitrotoluene	3(NTP, IARC)
106-47-8	4-chloroaniline	C2 (EU), 2B(NTP, IARC)
615-05-4	2,4-diaminoanisole	2B(NTP, IARC)
101-77-9	4,4'-diaminodiphenylmethane	C2 (EU), 2B(NTP, IARC)
91-94-1	3,3-dichlorbenzidine	C2 (EU), 2B(NTP, IARC)
119-90-4	o-dianisidine; 3,3'-Dimethoxybenzidine	C2 (EU), 2B(NTP, IARC)
119-93-7	o-tolidine; 3,3'-Dimethylbenzidine	C2 (EU), 2B(NTP, IARC)
838-88-0	4,4'-diamino-3,3'-dimethyldiphenylmethane	C2 (EU), 2B(NTP, IARC)
120-71-8	p-cresidine	2B(NTP, IARC)
101-14-4	4,4'-diamino-3,3'-dichlorodiphenylmethane	C2 (EU), 2A(NTP, IARC)
101-80-4	4,4'-diaminodiphenylether	2B(NTP, IARC)
139-65-1	4,4'-diaminodiphenylsulfide	2B(NTP, IARC)
95-53-4	o-toluidine	C2 (EU), 2B(NTP, IARC)
95-80-7	2,4-diaminotoluene	C2 (EU), 2B(NTP, IARC)
137-17-7	2,4,5-trimethylaniline	
90-04-0	o-anisidine	C2 (EU), 2B(NTP, IARC)
60-90-3	4amino-azo-benzen	C2 (EU)

b. Carcinogenic Dyes

569-61-9	C.I. BASIC RED 9	CI 42500	C2 (EU), 2B(NTP, IARC), Oeko-Tex
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2475-45-8	C.I. DISPERSE BLUE 1	CI 64500	C2 (EU), 2B(NTP, IARC), Oeko-Tex
3761-53-3	C.I. ACID RED 26	CI 16150	2B(NTP, IARC), Oeko-Tex
6459-94-5	C.I. ACID RED 114	CI 23635	2B(NTP, IARC)
2602-46-2	C.I. DIRECT BLUE 6		C2, R3 (EU), 2A(NTP, IARC), Oeko-Tex (CI 22610)
1937-37-7	C.I. DIRECT BLACK 38	CI 30235	C2, R3 (EU), 2A(NTP, IARC), Oeko-Tex
573-58-0	C.I. DIRECT RED 28	CI 22120	C2, R3 (EU) Oeko-Tex
2932-40-8	C.I. DISPERSE YELLOW 3	CI 11855	Oeko-Tex

C. Skin Sensitizing Dyes

2475-46-9	C.I. DISPERSE BLUE 3	CI 61505	ETAD, Oeko-Tex
1222-75-2	C.I. DISPERSE BLUE 35		ETAD, Oeko-Tex
	C.I. DISPERSE BLUE 106		ETAD, Oeko-Tex
	C.I. DISPERSE BLUE 124		ETAD, Oeko-Tex
2832-40-8	C.I. DISPERSE YELLOW 3	CI 11855	ETAD, Oeko-Tex
730-40-5	C.I. DISPERSE ORANGE 3	CI 11005	ETAD, Oeko-Tex
	C.I. DISPERSE ORANGE 37		ETAD, Oeko-Tex
2872-52-8	C.I. DISPERSE RED 1	CI 11110	ETAD, Oeko-Tex
2475-45-8	C.I. DISPERSE BLUE 1	CI 64500	Oeko-Tex
3179-90-6	C.I. DISPERSE BLUE 7	CI 62500	Oeko-Tex
3860-63-7	C.I. DISPERSE BLUE 26	CI 63305	Oeko-Tex
	C.I. DISPERSE BLUE 102		Oeko-Tex
	C.I. DISPERSE ORANGE 1	CI 11080	Oeko-Tex
	C.I. DISPERSE ORANGE 76		Oeko-Tex
2872-48-2	C.I. DISPERSE RED 11	CI 62015	Oeko-Tex
	C.I. DISPERSE RED 17	CI 11210	Oeko-Tex
119-15-3	C.I. DISPERSE YELLOW 1	CI 10345	Oeko-Tex
	C.I. DISPERSE YELLOW 9	CI 10375	Oeko-Tex
	C.I. DISPERSE YELLOW 39		Oeko-Tex
	C.I. DISPERSE YELLOW 49		Oeko-Tex

Source: International Agency for Research on Cancer (IARC)
 US National Toxicology Program (NTP)
 EU Directive 76/769/EC
 EU Directive 2002/61/EC
 Ecological and Toxicological Association of the Dyes and
 Organic Pigments Manufacturers (ETAD)
 Oeko-Tex STANDARD 100

D-5 High-Speed Sheet Shutters

1. Purpose of Establishing Certification Criteria

Omitted.

2. Applicable Scope

- High-speed Sheet Shutters

3. Terminology

High-speed Sheet Shutter	The high-speed sheet shutter is an industrial shutter to be installed at an opening of inside and outside of a building, mainly factory or warehouse, for example, which a vehicle/forklift/carrier/person, etc. enters or exits. It is a shutter a curtain unit of which constitutes a sheet main body, and that vertically opens/closes at a high speed/frequently. The shutter has cold protection, dust control and insect protection functions.
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4. Certification Criteria and Certification Procedure

4-1. Environmental Criteria and Certification Procedure

- (1) The product shall have a structure that enables opening and closing at a high speed and frequently and be able to minimize the amount of air flowing into/out of an opening due to a temperature difference or wind, etc. The product opening/closing speed shall be 0.5 m/s or higher, and the [specification of] opening/closing frequency shall be 60 times/hr or higher.

[Certification Procedure]

An applicant shall indicate in the Attached Certificate whether the product conforms to this item, and submit a design layout or catalogue, etc. that clearly indicates specifications.

- (2) There shall be less heat loss from the opening when the product is closed. The air leakage efficiency of the product shall conform to A-1 class of the air permeability grade defined in JIS A4702 (Doorsets).

[Certification Procedure]

An applicant shall indicate in the Attached Certificate whether the product conforms to this item, and submit any document certifying the air leakage efficiency, such as test results, etc.

- (3) A plastic part (excluding a component of electric equipment) of a major component of 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. Or, a polymer and additive shall conform to a positive list defined by voluntary standards of the industry, etc.

[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.

- (4) A system to undertake maintenance and inspection of the product shall be established. In addition, any part to be replaced regularly, such as a sheet, etc., shall be subjected to material recycling/recycling, whenever possible after they are collected. Any part that cannot be recycled shall be processed/disposed in an appropriate manner.

[Certification Procedure]

An applicant shall indicate in the Attached Certificate whether the product conforms to this item, and submit any document on maintenance and inspection. In addition, the applicant shall submit any document that describes a component name, material, rough indication of replacement period, and processing/disposal after recovery.

- (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]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate. In addition, a sample of a manual relating to installation, use, maintenance, disassembly, disposal and recycling shall be submitted. 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) 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).

4-2. Quality Criteria and Certification Procedure

- (7) The quality of the Product shall conform to appropriate JIS and High-speed sheet shutter technical standard (Japan Rolling Shutters & Doors Association).

[Certification Procedure]

An applicant shall submit a certificate such as test results, etc., indicating that the product conforms to the appropriate JIS and High-speed Sheet Shutter Technical Standard.

May 5,2007	Established (Version 2.0)
July 1, 2010	Revised (D-5 added Version2.8)
December 31,2017	Validity Period

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