

Eco Mark Product Category No.138

“Building Products (Materials for Supplies) Version 1.9” Certification Criteria Category A-1 Stone Materials for Construction

Japan Environment Association
Eco Mark Office

1. Purpose of establishing criteria

omitted

2. Applicable Scope

*Japan Industrial Standard JIS A 5411 “Terrazzo” (when used as a wall material, a floor material or otherwise as a building material)

A natural stone-like artificial material which is produced by mixing cement with stone chips, letting it harden and then giving surface treatment. A terrazzo that uses freshly collected natural stones as chips shall be excluded.

* Construction materials that are made by recycling of used natural stones and/or off-cut of natural stones (wall material, etc.)

Note 1. “Tile, brick and concrete slab” shall fall under Eco Mark Product Category No.109 “Tile and block.”

Note 2. “Imitation stone” (excluding terrazzo) shall fall under Eco Mark Product Category No.131 “Civil engineering products.”

Note 3. Anything that is categorized as an “imitation rock” shall be excluded.

3. Terminology

Omitted.

4. Certification Criteria and Certification Procedure

4-1. Environmental Criteria and Certification Procedure

- (1) The Product shall contain any or all of the recycled chip materials listed in Table 1 either alone or in combination and the content of such recycled materials shall be no less than 50% of the total mass of the Product.

Table 1 Recycled chip materials

Recycled chip materials
Used natural stone
Off-cut of natural stone

Gypsum (including gypsum generated at desulphurization plant)
Glass
Plastic

[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 3 of the enforcement regulation of the Soil Contamination Countermeasures Law (2002 Ministerial Order No. 29 of the Ministry of the Environment) with respect to cadmium, lead, hexavalent chromium, arsenic, mercury and selenium among the specified hazardous substances listed therein. Provided however this criterion does not apply to any Products that only consist of used natural stone and off-cut of natural stone.

[Certificate 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) 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]

Applicants shall state in the attached certificate form the conformance to this criterion. In the event that products which are found out to have contained asbestos, arsenic, and cadmium are segregated and removed, the applicants shall report a specific method for segregation and removal. By the way, in the case of judgment by analytical investigation, the applicants shall report that the material does not contain not more than 0.1% of six types of asbestos including Tremolite, which shall be evidenced by a method that conforms to “JIS A 1481: Determination of asbestos in building material products” (2008) shown in 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.

- (4) 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. (Entry example 3)

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 (organization chart with roles, etc.);
- 3) Bylaws stipulating retention of recording documents;
- 4) Recurrence prevention measures (future preventive measures)
- 5) State of implementation based on the recurrence prevention measures (check results of on-site inspection, etc. as compliance condition).

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

[Certification Procedure]

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

- (6) The Product shall be again recyclable after use.

[Certification Procedure]

The Applicant shall explain how main materials are recycled.

- (7) The product shall have no flame retardant of Polybrominated biphenyl (PBB), Polybrominated diphenylether (PBDE) or short-chain chlorinated paraffin (the number of chained C is 10 to 13 and contained chloride concentration is 50% or over) added as formulated components.

[Certification Procedure]

Compliance (or lack thereof) with this item shall be indicated in the Attached Certificate. In the case of using flame retardant, the Applicant shall fill in the names of chemical substances on the Attached Certificate.

4-2. Quality Criteria and Certification Procedure

- (8) 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 Attached Certificate form. For the products not made by glass and concrete mixture, it shall be indicated in the Attached Certificate form.

- (9) Terrazzo shall conform to JIS A 5411. With respect to other Products, the quality shall have been confirmed based on official quality standards, in-house standards or the like.

[Certification Procedure]

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

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November 1, 2007	Revised (4-1.(2)(6) Version1.1)
August 21, 2008	Revised (4-1.(3)(5) Version1.3)
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January 15, 2012	Revised (D-1 and 2 added, Version1.7)
June 15, 2012	Revised (4-1.(7) Version1.9)
December 31, 2017	Validity Period

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