

Eco Mark Product Category No.131

“Products for Civil Engineering Version 1.19” Certification Criteria Category H. Sewage/waterworks materials

Japan Environment Association
Eco Mark Office

1. Purpose of Establishing Certification Criteria

In civil engineering/construction-related business that is implemented as part of social infrastructure development, ripple effects in the economy are expected, but at the same time a significant environmental load is imposed on the natural environment of the oceans, rivers and land as well as the living environment. New forms of civil engineering-/construction-related business based on the principles of the “Basic Environmental Law,” such as through harmonization with the natural environment, formation of a good living environment, prevention of global warming by improving energy efficiency, etc., are therefore being explored.

In addition to these kinds of environmental conservation efforts, it was also determined that in the civil engineering/construction-related business it is necessary to promote the control of waste generation (reduction), secondary uses (reuse) and recovery for further use (recycling) in accordance with the “Waste Disposal and Public Cleansing Law,” the “Basic Law for Establishing a Recycling-Based Society,” the “Law Concerning Promotion of the Procurement of Eco-friendly Goods and Services by the State and Other Entities (Green Procurement Law)” and the “Law for Recycling Materials for Construction (Construction Recycling Law).” Furthermore, independent efforts by civil engineering/construction enterprises for reduction of the environmental load, the “Guidelines for Green Procurement in the Construction Industry” were formulated in 2002.

In Japan’s material balance, the proportion attributable to civil engineering and construction-related business accounts for approximately 40% of new resources (2002 White Paper on a Recycling-Oriented Economic System; FY2001 Major Construction Materials Demand Forecast), approximately 20% of industrial wastes and approximately 40% of wastes collected at final landfill sites (2002 Environmental White Paper). It can therefore be expected that an environmentally-sound materials cycle to promote reduction, reuse and recycling will have a major impact on the structure of society.

The load placed on elements of the environment by the civil engineering and construction-related business varies according to many environmental factors such as the site of the business and the methods and types of materials used. As the environmental load may be reduced by applying Eco Mark Product Certification to construction materials, one of the factors affecting this, the Eco Mark Certification Criteria for newly applied products, shall be established to certify such materials as ‘construction products’ after organizing and integrating them with products that are

already certified.

The new certification criteria, in addition to minimizing the consumption of new materials and the generation of wastes on the basis of using recycled materials, as has been recommended, and taking into consideration the reduced use of hazardous substances, energy saving, the impact on the ecosystem, etc., that are intended to reduce the environmental load imposed by construction work and long-term use, both of which may be characteristic of construction products, aim at the same time to achieve a symbiotic relationship with nature by creating a secondary natural environment. The concept of the life cycle of materials and products will be introduced into the evaluation, taking into consideration the life stage when the construction work is commenced as a construction product, and as many concrete environmental load items as possible have been selected.

2. Applicable Scope

Rainwater-permeable facilities: Penetration pits, Penetration manholes, Penetration wells, Penetration tubes/penetration trench tubes, Rainwater storage penetration perforated board trenches, Penetration box culverts, Rain penetration tank

3. Terminology

Terms for the common standard

Recycle	Materials recycling only; energy recovery (thermal recycling) is not included.
Recycled materials	Post-consumer materials or pre-consumer materials, or a combination of these. However, this product category shall include thinned wood, less useful wood, slag resulting from industrial activities, etc., in recycled materials.
Pre-consumer materials	Materials or rejected products generated from a disposal route in a product manufacturing process, excluding those that are recycled within the same process (plant).
Post-consumer material	Material or product which was disposed of after being used as a product
Standard mixture amount	The percentage of recycled materials of each material that is used to manufacture products (as % by mass), and calculated as follows and regulated on a material-by-material basis: Standard mixture amount = recycled materials/each material
Prescribed constituents	Material components added for the intended purpose of giving certain characteristics to the products. Impurities that are technically unavoidable in the manufacturing process are not included.

Terms for plastic

Plastics:	Materials composed of a single or multiple polymers, plus additives, fillers, etc. that are added to the polymer(s) to give it (them) specific characteristics.
Recycled plastic:	Plastic materials composed of post-consumer materials and pre-consumer materials.
Plant-based plastic	Plastic made of bio-based synthetic polymer whose materials are plant. This certification criteria covers polyethylene (PE), polyethylene terephthalate (PET), polylactic acid (PLA) and polytrimethylene terephthalate (PTT).
Bio-based synthetic polymer	“Biobased synthetic polymer” defined in ISO 16620-1 3.1.4 (original: polymer obtained through chemical and/or biological industrial process(es) wholly or partly from biomass resources).
Bio-based synthetic polymer content rate	Content rate of biomass resources in bio-based synthetic polymer which is included in a product (or a designated portion by certification criteria). Means bio-based synthetic polymer content (Original sentence: bio-based synthetic polymer content : amount of bio-based synthetic polymer present in the product) defined by ISO 16620-1 3.1.5

4. Certification Criteria and Certification Procedure

Any certification verifying conformity with the criteria shall be signed by the applicant and submitted.

4-1. Environmental Criteria and Certification Procedure

- (1) 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 (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).

- (2) Plastic additives shall follow positive lists specified by the industry's own standards. As for the elution of harmful substances, the plastics shall conform to the standards concerning elution of harmful 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, selenium, among the specified hazardous substances listed therein. In lieu of the requirements of the Enforcement Regulation of the Soil Contamination Countermeasures Law, conformance of the Product to the standards concerning hazardous substances set forth in ISO 8124-3 may be accepted.

In the case of using flame retardant, 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. In addition, (Pb)-based chemical compounds, cadmium (Cd)-based chemical compounds, tributyl tin compound (TBT), triphenyl tin compound (TPT), dibutyl tin compound (DBT), diphenyl tin compound (DFT), and monophenyl tin compound (MFT) shall not be added as prescribed constituents.

[Certification Procedure]

To show that the plastic resin (including recycled plastics) and plastic additives meet the requirement on the harmful materials, a certificate issued by the raw materials supplier, or a certificate describing the results of tests carried out by an independent testing institution shall be submitted. In cases where no raw materials contain any of the corresponding chemical substances as a prescribed

constituent, a document prepared by the raw materials supplier and the applicant that proves there is no content of the chemical substance shall be acceptable..

- (3) In case of the product which is added the plastics containing halogen in polymer backbones as prescribed constituents, at least 70% of the plastic part of the Product after use shall be recovered. Furthermore, at least 70% of such recovered plastic parts shall be directed to material recycling. However, this item is not applicable to the product with 20 years or more of the average length of year to use, even if the product uses plastics containing halogen.

[Certification Procedure]
 Whether this criteria applies to the Product or not shall be stated in the Attached Certificate, and, if affirmative, a document ensuring that proper recovery and recycling will be made at the time of Product disposal, or continuous use of 20 years and more shall be submitted.
 Eco Mark Office reserves the right to ask the 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) These products shall meet either one of the following conditions a-c.
- a. As for products using permeable concrete, the coefficient of permeability shall be: 1×10^{-2} cm/sec or higher
 - b. As for products, the total mass of recycled materials given in Table 1 shall be 50% or more of the entire product mass, and at the same time, each recycled material shall conform to the standard mixture rate described in Table 1.
 - c. The product in which plant-based plastic is used may satisfy all requirements in 4-1.(5).

Table 1 Recycled materials usable as sewage/waterworks materials

Materials	Recycled material		Standard mixture rate (as % by mass)
Concrete	Aggregates	Aggregates satisfy Category-C Certification Criteria 4-1-2.A.(2)	The concrete parts shall satisfy one of the following (1)to(3) (1) $\frac{\text{Weight of recycled materials in concrete}}{\text{Weight of concrete}} \times 100 \geq 50$ (2) $\frac{\text{Weight of recycled materials in aggregates}}{\text{Weight of aggregates}} \times 100 \geq 50$ (3) $\frac{\text{Total weight of recycled materials in cement and concrete admixture}}{\text{Total weight of cement + concrete admixture}} \times 100 \geq 50$
	Cement	Cement satisfy Category-C Certification Criteria 4-1-2.B.(6)and(7)	
	Concrete admixture	Concrete admixture satisfy Category-C Certification Criteria 4-1-2.C.(11)	

Plastics	Recycled plastics	$\text{Recycled plastics}/\text{total plastics} \times 100 \geq 70$ [60]
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Note 1: As for recycled plastics, the combined use of recycled polymers and virgin polymers shall be permitted. Products using post-consumer materials as raw materials shall be permitted if the mass ratio of plastic composed of post-consumer materials to the plastic part conforms to the requirement in [] given in the table.

[Certification Procedure].

a: test results regarding the coefficient of permeability shall be submitted.

b: A raw materials certificate issued by the supplier shall be attached. In addition, the types of recycled materials, the proportional content of recycled materials and materials other than recycled materials and control procedures shall be stated in the product weight certificate.

- (5) A product in which plant-based plastic is used shall meet all the requirements listed in a) to c) below.
- a) The bio-based synthetic polymer content in the entire product mass (plastic parts) shall be 10% or higher, and the mass ratio of the plant-based plastic shall be 25% or higher.
 - b) The Applicant shall have the understanding of the supply chain from cultivation of plant materials to manufacturing of plant-based plastic (raw resin). Each process shall conform to the checklist in the Appendix 4.
 - c) The Applicant shall have confirmed by the life cycle assessment (LCA) that for the plant-based plastic (raw resin), greenhouse gas emissions (CO₂ conversion) from raw material procurement to discarding/recycling does not increase, when compared with conventional resin that is to be replaced. Note that if any increase in the emissions is offset by the reliable carbon offset (such as purchasing clean electric power, etc.), the applied product shall also conform to this item.

[Certification Procedure]

a) Certificates indicating the calculated content of biobased synthetic polymers in the plastic shall be submitted. For the plant-based plastic (raw resin) thereof, measurement results of the biobased synthetic polymer content calculated with the method specified in ISO 16620-3, using measurement results of the biobased carbon content and element composition by the 14C method specified in ISO 16620-2 or ASTM D6866 shall be mentioned. Should there be any deviation of 10% or higher between the measurement results and the content of biobased synthetic polymer in the standard, a description of a reason(s) therefor shall also be included. The measurement results of the biobased carbon content shall be submitted as an attached document.

In addition, for appropriate maintenance of the content of biobased synthetic polymer after certification, any of the following certificates issued by a raw resin supplier (including a dealer) shall be submitted.

- An explanatory document stating that measurements of the content of biobased carbon will be regularly carried out, and that measurement results

- can be disclosed as per a request of the Eco Mark Office; and
- A certificate that the Applicant has been audited or certified by a third party for management of the content of the biobased synthetic polymer.
 - b) Certificates issued by a raw resin supplier (including a dealer) indicating the supply chain (flow diagram, etc. and including purification, fermentation, etc.) from the cultivation area (country, state, city, etc.) to manufacturing of plant-based plastic (raw resin), and status of conformance to the Attachment shall be submitted.
 - c) Results of the LCA assessment of the plant-based plastic (raw resin) shall be submitted (reference to the existing paper, etc. is acceptable). If carbon offset is adopted, data describing content of the carbon offset and reliability shall be submitted together.

- (6) As for the elution of harmful substances, the product shall conform to the standards concerning elution of harmful 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, selenium, boron and fluorine among the specified hazardous substances listed therein. However, this item shall not apply to metal portions such as steel products, etc. Slags may be tested by JIS K0058-1 “Test methods for chemicals in slags”. Plastics shall be in accordance with (2) and can be omitted.

[Certification Procedure]

A certificate shall be submitted describing the results of tests carried out by an independent testing institution or public institution.

- (7) As for the content of harmful substances, the product shall conform to the standards concerning content of harmful substances that are set forth in Attached Table 4 of the enforcement regulation of the Soil Contamination Countermeasures Law (2002 Ministerial Order No. 29 of the Ministry of the Environment) with respect to cadmium, lead, hexavalent chromium, arsenic, mercury, selenium, boron and fluorine among the specified hazardous substances listed therein. However, metal portions such as steel products, etc. may be confirmed by other test methods, etc. Slags may be tested by JIS K0058-2 “Test methods for chemicals in slags. Plastics shall be in accordance with (2) and can be omitted.

[Certification Procedure].

A certificate shall be submitted describing the results of tests carried out by an independent testing institution or public institution. With respect to metals, the content of hazardous substances may be proved by test results, ingredient table, etc. by manufacturers, and others.

- (8) Each stage from resource extraction to the recycling of the product shall give consideration to the quantity of new resources used, energy consumption and CO₂ emissions.

[Certification Procedure].

The average CO₂ emissions per product from resource extraction to the recycling of the product shall be presented in comparison with the case of not using recycled materials (excluding emissions in the pretreatment process of the raw materials; the parts for comparison may be limited to those that are different from cases in which natural raw materials are used).

- (9) The products shall not have chromium, cadmium or arsenic added as prescribed constituents.

[Certification Procedure]

A certificate to indicate no addition of chromium, cadmium, and arsenic as the prescribed constituents shall be submitted.

- (10) Information regarding Certification Criteria 4-1.(6) and (7) shall be made available.

[Certification Procedure].

The document to be used at the time of information provision shall be submitted (a draft is acceptable).

- (11) The packaging of products shall give consideration to the ease of recycling. Plastic materials used for packaging shall not be added plastics that contain halogens in polymer backbones as prescribed constituents.

[Certification Procedure].

The packaging condition of the product and packaging materials shall be specifically described in the Application Form for Certification and Use of the Eco Mark (supplementary pictures, photographs, etc. are acceptable). In addition, for plastic material used for packaging, it shall be stated in the Application Form for Certification and Use of the Eco Mark as to whether halogen has been added to polymer backbones.

4-2. Quality Criteria and Certification Procedure

- (12) Quality requirements for products, for which the JIS, standards of the Japan Sewage Works Association, standards established by local government units, standards of industrial associations or other equivalent standards have been established, shall conform to the relevant standards. Applicable to rainwater-permeable facilities products shall recognized by Association for Rainwater Storage and Infiltration Technology. Other products, for which the JIS or the equivalent has established measuring methods for quality requirement items, shall conform to the relevant similar JIS or its equivalent.

[Certification Procedure].

A certificate shall be submitted verifying conformity with the relevant quality standards.

5. Product Classification, Labeling, etc.

(1) The products shall be classified according to each applicable product in “2. Applicable Scope” Attached table 1 and brand of the product. No classification shall be made based on the size or the color of the product; provided that products made of different materials shall be applied separately.

(2) For any product that falls under the specific procurement item of “Laws Concerning the Promotion of Procurement of Eco-Friendly Goods and Services by the State and Other Entities” (Green Procurement Law), status of conformance to the judgment criteria shall be released on the web site of the Eco Mark Office.

(3) In principle, Eco-Mark shall be indicated on the product main body.

B type or C type display shall be conducted in accordance with the "Guide to Eco Mark Usage" (<https://www.ecomark.jp/office/guideline/guide/>). Note that an Eco Mark licensee who owns the Eco Mark product may also indicate the type A.

The applicant shall submit a location to indicate Eco Mark and content of the indication when applying for Eco Mark certification and its use.

For Eco Mark products certified under Eco Mark Product Category No. 37 “Drainage Fixture for Rainwater Dissipation” or No. 118 “Plastic Products”, and those which conclude Eco Mark contract under this product category after April 1, 2005, the environmental information below the mark and the certification number which are used in the former product category may be indicated the same as before.

January 15, 2005	Established
February 23, 2005	Revised (4-1-3.L(75)、(76))
May 13, 2005	Revised (4-1-3. (35)、(94), 5-1-3.(73))
September 8, 2005	Revised (Terminology)
April 28, 2006	Revised
October 19, 2006	Revised
February 9, 2007	Revised
April 13, 2007	Revised
October 5, 2007	Extension of Expiration date
February 14, 2008	Extension of Expiration date
June 9, 2008	Revised
August 21, 2008	Revised
May 1, 2009	Revised
November 4, 2009	Revised
March 1, 2011	Revised (5.Indication, Version1.14)
June 15, 2012	Revised (4-1.(4),deletion of 5.(2)(3) Version1.15)
February 1, 2013	Revised (Version1.16)
February 1, 2014	Extension of Expiration date
December 1, 2014	Revised (Category F, Version1.17)
August 10, 2018	Revised (Category E-J, addition of 5.(2)(3) Version 1.19)
January 7, 2019	Extension of Expiration date

January 31, 2026 Expiration date

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

Attached table 2 -- Omitted --

Attached table 3 -- Omitted --

Checklist of Traceability of Plant-based Plastic (Raw Resin)



No	Purpose	Request (Item that must be realized)	Subject	Realized	Implementation Method (Check off all relevant items.)
1	Prevention of global warming, conservation of the natural ecosystem	Hasn't the farm land where plants are cultivated been converted from forests in the recent ten years?	Farm land	<input type="checkbox"/> Yes/ <input type="checkbox"/> No	<input type="checkbox"/> Confirmed the laws and regulations concerning the land conversion for the site. <input type="checkbox"/> Gained the understanding of the actual condition of the site through on-site investigation or hearings. <input type="checkbox"/> Defined and released the guideline for procurement of plants. Alternatively, conforming to the guideline of an independent third party. - Name of the guideline: - Location of release: <input type="checkbox"/> Also using the certification system of an independent third party, regarding the procurement of plants. -Name of certification system: <input type="checkbox"/> Others (Describe specifically.):
2	Conservation of the ecosystem	If the Applicant uses the genetically engineered crop as a raw material, has the Applicant assessed ensuring of safety?	Farm land	<input type="checkbox"/> Yes/ <input type="checkbox"/> No/ <input type="checkbox"/> Not applicable (Not used)	<input type="checkbox"/> Confirmed the laws and regulations concerning genetically engineered crop on the site. <input type="checkbox"/> Gained the understanding of the actual condition of the site through on-site investigation or hearings. <input type="checkbox"/> Defined and released the guideline for procurement of plants. Alternatively, conforming to the guideline of an independent third party. - Name of the guideline: - Location of release: <input type="checkbox"/> Also using the certification system of an independent third party, regarding the procurement of plants. -Name of certification system: <input type="checkbox"/> Others (Describe specifically.):

No	Purpose	Request (Item that must be realized)	Subject	Realized	Implementation Method (Check off all relevant items.)
3	Prevention of land acidification/nutrient enrichment/water contamination	Has the Applicant gained the understanding of usage conditions of fertilizers/agricultural chemicals in the main cultivation area of plants? Isn't any agricultural chemical regulated under the "Stockholm Convention on Persistent Organic Pollutants" (POPs Treaty) used?	Farm land	<input type="checkbox"/> Yes/ <input type="checkbox"/> No	<input type="checkbox"/> Confirmed the laws and regulations concerning fertilizers/agricultural chemicals on the site <input type="checkbox"/> Gained the understanding of the actual condition of the site through on-site investigation or hearings. <input type="checkbox"/> Defined and released the guideline for procurement of plants. Alternatively, conforming to the guideline of an independent third party. - Name of the guideline: - Location of release: <input type="checkbox"/> Also using the certification system of an independent third party, regarding the procurement of plants. -Name of certification system: <input type="checkbox"/> Others (Describe specifically.):
4	Appropriate water usage	Has the Applicant gained the understanding of usage conditions of water in the main cultivation area of plants?	Farm land	<input type="checkbox"/> Yes/ <input type="checkbox"/> No	<input type="checkbox"/> Confirmed the laws and regulations concerning usage of water (limits on the amount of water) on the site. <input type="checkbox"/> Gained the understanding of the actual condition of the site through on-site investigation or hearings. <input type="checkbox"/> Defined and released the guideline for procurement of plants. Alternatively, conforming to the guideline of an independent third party. - Name of the guideline: - Location of release: <input type="checkbox"/> Also using the certification system of an independent third party, regarding the procurement of plants. -Name of certification system: <input type="checkbox"/> Others (Describe specifically.)


No	Purpose	Request (Item that must be realized)	Subject	Realized	Implementation Method (Check off all relevant items.)
5	Use of recycled resources, avoidance of competition for food	If recycled resources are available as a part of crude raw materials of plant-based plastic (raw resin) on the site, did the Applicant preferentially use them?	Raw resin	<input type="checkbox"/> Yes/ <input type="checkbox"/> No/ <input type="checkbox"/> Not applicable (Not available)	Name of recycled resource in use [] Generated amount/percentage of recycled resources []
6	Prevention of global warming	Has the Applicant gained the understanding of the processing status of biogas (such as methane) having a high global warming potential that is generated in the course of reaction of plant-based ethanol in the manufacturing plant for the main crude raw material?	Crude raw material manufacturing plant	<input type="checkbox"/> Yes/ <input type="checkbox"/> No	<input type="checkbox"/> Gained the understanding of the actual condition of the site through on-site investigation or hearings. <input type="checkbox"/> Others (Describe specifically.) []
7	Utilization of non-fossil energy sources and renewable energy sources	If a plant is newly set up in the course of cultivation to raw resin manufacturing, did the Applicant utilize as many non-fossil energy sources (for example, bagasse or biogas) or renewable energy sources as possible?	Manufacturing plant	<input type="checkbox"/> Yes/ <input type="checkbox"/> No	Energy name and method of utilization []
8	Legal compliance	Is discharged water in the plant controlled in accordance with the laws and regulations of the region, etc., where the plant for manufacturing the plant-based plastic (raw resin) is located?	Resin manufacturing plant	<input type="checkbox"/> Yes/ <input type="checkbox"/> No	Attach data describing the control of discharged water of the plant



Attached table 4 Eco Mark indication


[Example]

B type display	Condition of indication
 <p>エコマーク商品 ……1) 再生材料を使用〇% } ……2) 粗骨材、セメント } 12345678(または〇〇〇株式会社) ……3)</p> <p>Not to require the numbers 1), 2) and 3) themselves.</p>	<p>1-2(1) “Certification information” of “Guide to Eco Mark Usage” shall include (1)-(3) below.</p> <p>1) The wording of "Eco Mark" or any expression of Eco Mark products stipulated in Section 1-6 in the "Guide to Eco Mark Usage"</p> <p>2) The wording indication of environmental information</p> <p>3) The Eco Mark certification number or the name of the Eco Mark Usage Licensee (The indication of the both is acceptable)</p>
C type display	Condition of indication
 <p>エコマーク認定 12345678</p>	<p>This is a sample.</p> <p>Conduct a proper indication by referring samples in 1-3 of the "Guide to Eco Mark Usage".</p> <p>Please make an Eco Mark product information page on the website which includes the certification information in order for customers to refer the certification information,</p>

[indication by an applicable product]

Applicable product	Environmental information	B type display
Permeable concretes within concrete products	Permeable concretes *Only for the product to choose “a.” in Certification Criteria (4)	 <p>エコマーク商品 ……1) 透水性コンクリート ……2) 12345678(または〇〇〇株式会社) ……3)</p>

Applicable product	Environmental information	B type display
<p>Applicable products using recycled materials other than the above</p> <p>--- Pattern 1</p> <p>When a denominator for calculating the recycled material mixture ratio covers the entire product</p>	<p>Recycle materials used X%, aggregates, cement or Recycle materials used X% or more, aggregates, cement</p> <p>*: The name of the recycled materials used shall be described and the proportional content in X (in integral numbers, dropping the first digits). *: If using multiple types of recycled materials, the top two types in descending order of their proportional content shall be stated, and the total proportional content of recycled materials shall be stated in X (in integral numbers, dropping the first digits). *: When products within the same product category have a different proportional content of the relevant recycled materials, the lowest value within the same product category shall be stated.</p>	 <p>エコマーク商品 } ...1) 再生材料を使用○% 粗骨材、セメント ...2) 12345678(または○○○株式会社) ...3)</p>
<p>--- Pattern 2</p> <p>When a denominator for calculating the recycled material mixture ratio covers a material category defined in the certification criteria</p>	<p>Recycle materials used X% in YY or Recycle materials used X% or more in YY</p> <p>*For YY, indicate a name of a material category that is used as a denominator when the mixture rate is calculated. * For X, indicate the weight percentage of the used recycled materials (round off decimal numbers to integers). *: When products within the same product category have a different proportional content of the relevant recycled materials, the lowest value within the same product category shall be stated.</p>	 <p>エコマーク商品 ...1) △△中に再生材料を使用○%...2) 12345678(または○○○株式会社) ...3)</p>

Applicable product	Environmental information	B type display
Products using plant-based plastic or plant-based synthetic fiber	<p>Plant-based plastic X% Or Plant-based plastic X% or more Plant-based synthetic fiber X% Plant-based synthetic fiber X% or more</p> <p>* For X, indicate the percentage of the bio-based synthetic polymer in the entire product (round off decimal numbers to integers). Material name such as “plant-based PET” may be accepted. *For X, indicate the mass percentage in the entire product (round off decimal numbers to integers). Material name such as “plant-based PET fiber” may be accepted.</p>	 <p>エコマーク商品 ……1) 植物由来プラスチック〇%……2) 12345678(または〇〇〇株式会社) ……3)</p>