

Eco Mark Product Category No.143

“Shoes and Footwear Version 1.7” Certification Criteria

-Applicable Scope-

A. Leather shoes

B. Rubber, plastic, and fabric shoes

C. Other footwear (Japanese footwear, slippers, sandals, etc.)

Established December 1, 2008
Revised September 1, 2017
Expiration date November 30, 2025

Japan Environment Association
Eco Mark Office

NOTE: This document is a translation of the criteria written in Japanese. In the event of dispute, the original document should be taken as authoritative.

Eco Mark Product Category No. 143

**“Shoes and Footwear Version 1.7”
Certification Criteria**

B. Rubber, Plastic, and Fabric Shoes

Japan Environment Association
Eco Mark Office

1. Purpose of Establishing Criteria

Omitted

2. Applicable Scope

Of “footwear” based on the “Standard commodity classification for Japan,” shoes with uppers made of leather (including high and low boots).

3. Terminology

Omitted

4. Certification Criteria and Procedures

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

In addition, for a leather material certified by JES label, which is administered by Japan Leather and Leather Goods Industries Association, submission of a copy of a JES label certificate can replace the certification procedures of 4-1. (1) below, among appropriate reference items.

4-1. Environmental Criteria and Certification Procedures

4-1-1. Common Environmental Criteria and Certification Procedures

- (1) Leather material used for products shall be calf and cow leather, pig leather, sheep leather, horse leather or goat leather, and at the same time, by-products of meat (foods).

[Certificate Procedure]

A certificate for material used that stipulates the material used for upper, lining, sock lining (insole for products without sock lining), and outsole shall be submitted. In addition, for leather material, attach the material supply certificate which tanners issue.

- (2) Main material of uppers or soles shall conform to the following requirements a or b:

- a. To be superior in any of the items related to strength such as flexibility, wear resistance, tensile strength, tearing strength, elongation, etc.
- b. To use any material in Table 1 and satisfy the standard content rate.

Table 1 Standard content rate to total mass of the kind of main material in uppers or soles

Kind of material	Material name	Standard content rate (mass%)
Fibers	Unused fibers, reclaimed fibers,	More than 10%
	Polymer recycled fibers, chemical recycled fibers	More than 40% More than 25% for plant-based fiber
	Unbleached cotton, Oxygen-based bleached cotton (hydrogen peroxide bleach, ozone bleach, etc.) and no fluorescent brightener (Appendix 2-1 shall also be met)	More than 70%
	Organic cotton Organic cotton (transition stage) (see note 1)	More than 30%
	Plant-based synthetic fiber (PET, PE, PLA, PTT)	More than 25% And biobased synthetic polymer content rate: more than 10%
Plastics	Recycled plastics	More than 20%
	Plant-based plastics (PET, PE, PLA, PTT)	Biobased synthetic polymer: content rate: more than 25%
Rubber	Recycled rubber	More than 20%
Timber	Lumber from thinning, waste wood, lower grade timber, waste plant fiber	100%

(Note1) Traceability of organic cottons shall be obtained, and certification for products, or for threads and cloths that are directly supplied to the manufacturer of the products applying for certification, shall be possible. The requirements to be organic shall be complied with the equivalent basic requirements of EC Regulations, USDA/NOP (U.S. Department of Agriculture National Organic Program) or IFOAM (International Federation of Organic Agriculture Movements) Certified Program, and shall include organic cottons during the transition stage.

(Note2) In the event that recycled material or plant-based synthetic fiber is used for ground fabric of artificial leather and synthetic leather, the standard content rate of textiles shall apply

Table 2-1 additional requirements for non-bleaching and oxygen-based bleaching

<For both non-bleaching and oxygen-based bleaching>

Efforts to reduce energy use (CO₂ emissions) required for processing without increasing the amount of chemical substance used compared to existing processes (alkali scouring, chlorine-based bleaching or hydrogen peroxide (alkali) bleaching) during the desizing process, scouring and bleaching have been done (efforts in either process are acceptable if use is reduced in the entire process).

<For non-bleaching>

Chemical substances in Appendix 3-2 that are hazardous to the water environment shall not be used during desizing and scouring in the case of non-bleaching.

<For oxygen-based bleaching>

Chemical substances in Appendix 3-2 that are hazardous to the water environment shall not be used in principle, excluding chemical bleaching agents during the process of desizing and scouring in the case of oxygen based bleaching. However, only if the amount of CO₂ emissions are reduced by 30% compared to the existing process (alkaline scouring, hydrogen peroxide (alkaline) scouring), chemical substances that are hazardous to the water environment, and were used in the existing process, may be used by reducing the amount used and by not leaving any residue of the corresponding elements in the fibers and discharged water.

Table 2-2 Chemical substances hazardous to inhabitants of the water environment

<p>Chemical substances hazardous to the water environment shall be classified as follows:</p> <p>-The classification according to "Globally Harmonized System of Classification and Labeling of Chemicals"</p> <p>[GHS]</p> <p>H400: Strong poisonous tendency to inhabitants of the water environment</p> <p>H410: Extremely strong poisonous tendency to the water environment due to long-term influence</p> <p>H411: Poisonous tendency to inhabitants of the water environment due to long-term influence</p> <p>-The classification based on EU "Risk phrase (Direction 67/548EEC)"</p> <p>[R phrase]</p> <p>R50: Has strong poisonous tendency to inhabitants of the water environment</p> <p>R51: Has poisonous tendency to inhabitants of the water environment</p> <p>R52: Hazardous to inhabitants of the water environment</p> <p>R53: Might incur a long-term negative influence on the water environment</p>
<p>Regarding chemical agents that are unclear in the above classification, chemical agents which meet the following conditions, or ones permitted by the Global Organic Textile Standard (GOTS), may be used.</p> <p>Oral toxicity Conforms to LD₅₀>2000mg/kg as well as to either of the following:</p> <p>Water environment inhabitant's toxicity LC₅₀, EC₅₀, IC₅₀>100mg/L or more</p> <p>or</p> <p>When biodegradation is 70% or more Water environment inhabitant's</p>

toxicity LC50、 EC50、 IC50>10mg/L or When biodegradation is 95% or more Water environment inhabitant's toxicity LC50、 EC50、 IC50>1mg/L
Sample of Medicinal Substances That Can be Used Enzyme, citric acid, acetic acid, gluconic acid soda, calcined soda, negative and positive nonionic activators (natural fatty acid of palmitic acid Na, oleic acid Na, stearic acid Na, taurine acid NA, etc. or surfactants satisfying the above requirements)

[Certification Procedure]

With respect to Requirement “a,” test results indicating that the main material of uppers or soles has improved 50% or more (grade 1 or higher, as a grade when any performance grade is defined in JIS or other public standards) in strength performance such as flexibility, wear resistance, tensile strength, tearing strength, elongation, etc. when compared with the conventional material (standard material used for a product similar to the applied products in the industry or in-house), JIS standard (e.g., JIS K 6601 “Man-Made Upper Material of Shoes”, JIS S 5005 “High Boots”, etc.) or de facto standards, etc shall be submitted. The test method shall conform to JIS or other public standards (e.g., JIS L1096, “Testing Methods for Woven Fabrics”, JIS K6545 “Testing Method for Flexing Endurance of Light Leathers and Their Surface Finishes”, etc.), In the event that the test method does not conform to any public standard, the test shall be conducted by a public third-party test institute.

With respect to Requirement “b,” a certificate stipulating the mass ratio of materials listed in Table 1 contained in the main material of uppers or soles as well as the following material certificate for materials listed in Table 1 shall be submitted.

In the case of using unused fiber or recycled fiber, the applicant or the manufacturer shall submit a certificate indicating the mass ratio of the total mass in the entire product. They shall submit a material certificate indicating the details of unused/recycled materials, recycled methods, content rate, management methods, etc. which was issued by the supplier of the fiber material (by the stuffing supplier when reusing stuffing). When criteria for fiber-based recycled fibers are applied, amounts of recycled materials received (amounts used) and their breakdown (recovered fiber, other waste plastic, etc.) and

results from a recent year, as well as their receiving system and results of recovered fiber from post-consumer materials shall be reported.

In the case of using unbleached or oxygen based cotton, efforts to reduce energy consumption during desizing, scouring and whitening, and the types and amounts of chemical agents used by the operator shall be submitted. If a chemical agent not found in a usable chemical agent is used, materials (safety data sheet (SDS), etc.), which indicates that it does not correspond to hazardous properties shown on Appendix 3-1 shall also be submitted. If the case corresponds to a reduction of CO2 emissions by 30% or more, a description of the comparative results of CO2 emissions, as well as the processing of chemical substances hazardous to inhabitants of the water environment shall be submitted.

In the case of using organic cotton, the certificate, as well as those certified by a third-party, for the mass ratio of organic cotton shall be submitted. If the product applying for certification has not yet been certified, the certified document for fiber materials after the cloth phase and the certificate which describes the shipment status (transaction certificate, etc.) of the certified materials and their usage ratio and management method shall be submitted.

In the event that the material is plastics or rubber, the material certificate issued by recycled material producers (recycled material collection traders, etc.) shall be submitted.

In the event that the material is timber, the material certificate that states that the relevant material falls under any of recycled or unused timber or waste plant fibers, which is issued by material producers (timber producers, etc.) shall be submitted. However, in the event that the number of material producers exceeds 10 companies, it is allowed to submit the certificates of companies of top-ten material transaction volume.

In the event that timber from thinning is used for material, the certificate of production region which stipulates the production region,

kind of trees, quantity, and planting year as well as photographs of applicable forest units (that indicate thinning has been carried out) shall be submitted. Thinning ratio, how many times of thinning, and other information should be included as much as possible.

In the event that lower grade timber is used for material, a certificate that stipulates the following shall be submitted:

- Kind of forest (naturally regenerated forest, planted forest, etc.), producing region, and kind of trees. In the case of a planted forest, stipulate the planting year, too.
- Under what conditions (timber damaged by disease and insect pest, disaster-struck, bent or small-diameter, etc.) the timber was produced. With respect to small-diameter timber, report the forest management operation method, small end diameter, etc.

In addition to this, in the event that the product falls under paragraph a or b prescribed by the definitions of terms of lower grade timber, documents that the forest was certified by a third party as a sustainable forest shall be submitted. The relevant forest certificate shall satisfy the requirements of the table below.

Table Forest certification

Certification criteria	Certification shall keep balance between ecological and social benefits, agree to Agenda 21 and the Declaration of Forest Principle, and observe related international agreements and treaties.
	Certification shall contain definite requirements and shall promote and be oriented to sustainable forest.
	Certification shall be nationally or internationally recognized and shall be recommended as part of an open process to which ecological, economic, and social interested parties can participate.
Certification system	The certification system shall provide high transparency, maintain extensive national or international reliability, and enable the verification of requirements.
Certification organization and association	Certification organization and association shall be highly impartial and reliable, allow them to be verified as to whether or not they satisfy requirements, report the verification results, and be able to effectively implement requirements.

In addition, if of the lower-grade timber, bamboo is used for material, a

certificate stipulating the following, photographs or a map of the vicinity of the bamboo grove shall be submitted.

- Kind of bamboo, producing district, surrounding conditions, explanation that it is the felling for appropriate maintenance management for environmental preservation, management plan, and quantity.

When using the plant-based plastic, the applicant or the manufacturer shall submit a certificate indicating the bio-based synthetic polymer content ratio in the relevant material (part). When using plant-based synthetic fibers, they shall submit a certificate calculating the mass ratio of plant-based synthetic fibers and bio-based synthetic polymer content ratio in the relevant material (part), as well as a material certificate indicating bio-based synthetic polymer content ratio in the plant-based synthetic fiber materials issued by a fiber material supplier or a raw resin supplier. For the plant-based plastic (raw resin) thereof, measurement results of the bio-based synthetic polymer content calculated with the method specified using bio-based carbon content in ISO 16620-3, using measurement results of the bio-based carbon content and element composition by according to the 14C method specified in ISO 16620-2 or ASTM D6866-05 shall be mentioned. Should there be any deviation of 10% or higher between the measurement results and the bio-based synthetic polymer content rate in the standard, a description of a reason(s) therefor shall also be included. The measurement results of the bio-based carbon content rate shall be submitted as an attached document.

In addition, for appropriate maintenance of the bio-based synthetic polymer content rate 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 bio-based carbon polymer content rate 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 bio-based synthetic polymer content rate.

In the case of any material which uses an Eco-Mark-certified product as an intermediate product, stipulating “brand name,” “certification No.,” and “type/product number” of the relevant intermediate product in the Attached certificate can be substituted for a material certificate, measurement results of the bio-based synthetic polymer content, a certificate of the proper maintenance of biobased synthetic polymer content rate after certification.

- (3) The product using plant-based plastics or plant-based synthetic fiber shall meet the following requirements.
- a. 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 2 shall be submitted.
 - b. 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.

[Certification Procedure]

- a. 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 4.
- b. 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.

In the case of any material which uses an Eco-Mark-certified product as an intermediate product, stipulating “brand name,” “certification No.,” and “type/product number” of the relevant intermediate product in the Attached Certificate can be substituted for such certification.

- (4) Formaldehyde of adhesives used for products shall have any of the diffusion speed of $5 \mu\text{g}/(\text{m}^2 \cdot \text{h})$ or less, the amount of emission of 0.3 mg/l or less, or less than or equal to the reference value of Table 4 of

Section 4-1-2 (15). However, this item shall not apply to adhesives that do not use material that diffuses formaldehyde.

[Certification Procedure]

All the adhesives used for the product shall be stated in the Certificate for Adhesives Used and be submitted. In addition, test results of the diffusion speed by JIS A 1901, test results of the amount of emission by JIS A 1460, test results prescribed in Ministerial Ordinance No. 34 of Ministry of Health, Labour, and Welfare, or a certificate such as a certification, MSDS, etc. stating that the adhesives contained in the product are less than or equal to the reference value (Class F☆☆☆☆, etc.) shall be submitted. For the adhesives to which any material that diffuses formaldehyde is not added, a certificate issued by the adhesive manufacturer or the applicant stating that no such material is added shall be submitted.

- (5) In the event that water-based adhesives are used, the safety concerning antiseptics shall have been confirmed.

[Certification Procedure]

For water-based adhesives, a certificate as to the addition of antiseptics, which is issued by the adhesive manufacturer or the applicant shall be submitted. With respect to the antiseptics, a certificate such as MSDS, etc. and CAS registration No. that indicate the safety of the antiseptics shall be submitted.

- (6) The product shall not use antimicrobial agents as far as possible. In the case of use, the product shall be certified by such as the SIAA Mark of Society of Industrial technology for Antimicrobial Articles or Registration system for the use of antimicrobial performance criteria of Japan Construction Material & Housing Equipment Industries Federation.

[Certification Procedure]

Compliance with this item shall be indicated in the Attached Certificate. In the case of using antibacterial agents, documents certifying SIAA Mark of Society of Industrial technology for Antimicrobial Articles, or SEK Mark of Japan Textile Evaluation Technology Council, etc. shall be submitted.

- (7) Products that use natural rubber or metal (clasps, fasteners, ornament

portions, etc., including plating) shall have information on latex allergy and metal allergy and type of the metal used stipulated on any of product hangtags, operating instructions, brochures, etc. However, if they are used in a part that rarely contacts a human body or from which an allergic component is less likely to leak due to perspiration and to contact a human body for a long period of time, either or both of a name of material and data on allergy shall be indicated to provide the information to those with allergy.

[Certification Procedure]

The relevant part that contains the above-mentioned information (even copies or manuscripts are acceptable) shall be submitted.

If natural rubber or metal are used in a part that rarely contacts a human body and from which an allergic component is less likely to leak and to contact a human body for a long period of time, a document stating to that extent shall be submitted.

Statement example (natural rubber): “This product uses natural rubber. Depending on the constitution, itching, rashes, eruptions, and other symptoms may be caused. If any abnormality is felt, stop using the product.”

Statement example (metal): “This product uses metal for ornament portions. Metal may cause itching, rashes, eruptions, and other symptoms depending on the constitution. If any abnormality is felt, stop using the product (base material: brass; surface finish: nickel chrome plated).

- (8) In any of the product proper, product tag, operating instructions, brochures, etc., the following a through d shall be stipulated. By the way, shoes in which synthetic leather is used for uppers, rubber, synthetic resin, or a mixture of these and uppers and soles are pasted by adhesives shall conform to the Quality Labeling Standards for Sundries and Industrial Products of the Household Goods Labeling Law.
- a. Name of each material (upper material, outsole, sock lining, etc.)
 - b. Maintenance method and storage method (in particular, shoes with polyurethane used for outsole, stipulate “Polyurethane is used for the outsole. Polyurethane may be aged by moisture. Store in a well-ventilated location,” etc.)
 - c. Manufacturing date of shoes (where polyurethane is used for the

outsole)

- d. Stipulate one or more items of the following information in the vicinity of Eco Mark labeling so that the purport of being Eco-Mark-certified is identified (when Eco Mark is indicated).
- Reduction of harmful substances (Ex. formaldehyde, heavy metals, and other harmful substances are reduced.)
 - Durability (Ex. Material having wear resistance of ○ times higher than our normal man-made leathers is used for uppers.)
 - Use of materials listed in Table 1. (Ex. For outsoles, ○○ is used.)

[Certification Procedure]

The applicable portions (copies or manuscripts are acceptable) that include the above-mentioned information shall be submitted.

- (9) There shall be a contact section that can accept and respond to users' requests for repair, maintenance, and part replacement services or after-sales service, wherever possible. In addition, for repair, maintenance, and part replacement services, for at least one year after discontinuance of production of applied products, the applicant must be able to repair the product at the request of users of the applied product, except for cases in which the services are not available due to aged deterioration or physical structural reason. In addition, the applicant must provide such information to users.

[Certification Procedure]

Operating instructions which provide the information on the foregoing to users and applicable portions of brochures, etc. (copies or manuscripts are acceptable) shall be submitted. For any product for which repair, maintenance, and part replacement services are not available, a document stating reasons thereof shall be submitted.

- (10) Plastic material used for the products and product packaging (in this section, resin as fibers is included) shall not use halogen elements for the polymer structure as prescription constituents. However, if halogen elements are used in products, 70% or more of the material of plastic parts of used products shall be collected. Furthermore, 70% or more of the materials of the collected plastic parts shall be recycled.

[Certification Procedure]

For plastic material used for products and packaging, use or no-use of

halogen elements for the polymer structure shall be indicated in the attached certificate form. If the halogen elements for the polymer structure are used, copies (manuscripts acceptable) of a document certifying that they shall be collected and recycled when they are disposed of, and a collection rate, and a rate of material recycling, and operating instructions, labels, catalogues, etc. describing a method of collection (a contact address of the applicant, a description that they will perform collection/recycling) shall be submitted. Additionally, after conclusion of a use agreement, the Eco Mark Office may request the applicant to report the collection rate (or conduct auditing) and the applicant must cooperate with them.

- (11) Products shall conform to items of at least 10 points in Appendix 2 “Environment-Conscious Design Checklist.”

[Certification Procedure]

Conformance to this item shall be indicated in the attached certificate form. In addition, necessary information shall be filled out in Appendix 2 “Environment-Conscious Design Checklist” and submitted together with necessary documents.

- (12) In manufacturing the applying 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 manufacturer of the applying 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)..

4-1-2. Material Criteria and Certification Procedure

Each material for uppers, lining, and sock linings (products with no sock linings, insoles) shall satisfy the criteria concerning applicable material of the following A through C. However, surface areas in the relevant portion shall be totaled in descending order and the material that composes not less than 70% of the surface areas of the relevant portion shall be subject to the criteria. This shall not apply to small accessories such as buttons, strings, sewing thread, trimming, etc. Incidentally, to artificial leather and synthetic leather, the criteria concerning fiber material shall apply.

A. Fiber material (including artificial leather and synthetic leather material)

- (13) For a dye and pigment to be used in the product, dyes and pigments and chrome defined in Appendix 6 shall not be added as a prescription constituent.

[Certification Procedure]

The non-use substance or test results issued by the dye plant (including spin-dyeing and printing) shall be submitted. If the non-use of dyes, pigment and chromate stipulated in Appendix 6 at each phase of the supply chain in relation to fiber materials excluding small accessories is confirmed by complying with voluntary standards (Japan Textile Federation), regarding the non-use of hazardous substances on fiber products and management is implemented by clarifying traceability, a certificate (including a sample of the confirmed documents), which describes the management method issued by the applicant or the manufacturer is acceptable.

- (14) For fiber material, adequate consideration shall be given so that various processing of products (mildew proofing, fluorescent whitening, softening, sanitation, antimicrobial finishing, product bleaching) is limited to a necessity minimum, products will not be subjected to excessive processing, and that use of any processing agent that is suspected to affect safety to human body should be refrained voluntarily. Also, standard values in Table 7 shall be met

Table 7. Standard value for processing agents of fiber material

Name	Criteria	Test Method	Concerned Products
Organic mercury compound Triphenyltin compound Tributyltin compound	Shall not be detected	MHW Ordinance No. 34	Products using fungicide
Dieldrin DTTB	30 ppm or less	MHW Ordinance No. 34 OekoTex	Products using wool products or mothproofing agents
APO TDBPP Bis (2,3-dibromopropyl) phosphate compound	Shall not be detected	MHW Ordinance No. 34	Products using fire retardant agents
PFOS PFOA	1 μ g/m ² or less 1 μ g/m ² or less	CEN/TS15968:2 010 ISO25101 OekoTex	Products using fluorine system water repellent agents, oil repellent agents or soil-release finishing agents
DEHP/ DBP/ BBP/ DNOP/ DINP/ DIDP	0.1wt% or less	EN15777:2009 MHL notification No. 370 OekoTex	Printed products for small babies

[Certification Procedure]

The applicant or the manufacturer shall submit a certificate indicating the processing or non-processing of the product. If a type of processing or chemical agent that is being considered is made or used, a safety data sheet which confirms the non-use of the substance in Table 7, or a certified document of the test results, etc. shall be submitted. In the case of using antimicrobial agents, documents certifying SEK of Japan Textile Evaluation Technology Council, etc. shall be submitted

- (15) The formaldehyde elusion of the textile material shall conform to the reference value of Table 4 for each target.

Table 4 Criteria of formaldehyde elusion

Substance name	Target			Test method
	Newborns (under 24 months)	Adult (skin contact*1)	Adult (others)	
Formaldehyde	Not more than 16 mg/kg	Not more than 75 mg/kg	Not more than 300 mg/kg	MHLW Ministerial Ordinance No. 34

*1・・・Members directly coming in contact with a foot

[Certification Procedure]

Test results by a third-party test institute or in-house test results with respect to the elusion of formaldehyde of textile material shall be submitted.

B. Plastic material

- (16) Plastic additives such as plasticizers, colorants, stabilizers, lubricants, and others used for plastic material and harmful substances of recycled plastic material shall conform to the reference values of heavy metals of ISO 8124-3 (corresponding standard: 88/378/EEC EN71-3), or others.

[Certification Procedure]

For plastic additives and recycled plastic material, the results of elution tests of cadmium, lead, mercury, and hexavalent chromium prescribed in ISO 8124-3 (corresponding standard: 88/378/EEC EN71-3) or EA Notification No. 46, which were conducted by a third-party test institute, etc. shall be submitted. It is acceptable for the applicant to submit a certificate by plastic manufacturers or molders attesting that the material registered in the positive list prescribed by the industry's

spontaneous criteria, etc. is used.

- (17) No specific chlorofluorocarbon (five kinds of CFC) set forth in Appendix 4, other CFCs, carbon tetrachloride, trichloroethane, and alternatives for chlorofluorocarbon (HCFC) shall be used when plastic material is manufactured.

[Certification Procedure]

A certificate issued by plastic material manufacturer shall be submitted.

C. Rubber material

- (18) Harmful substances of rubber material shall conform to the heavy metal reference values of ISO 8124-3 (corresponding standard: 88/378/EEC EN71-3), or others.

[Certification Procedure]

The results of elution tests of cadmium, lead, mercury, and hexavalent chromium prescribed in ISO 8124-3 (corresponding standard: 88/378/EEC EN71-3) or EA Notification No. 46, which were conducted by a third-party test institute, etc. shall be submitted. However, in the event that the product does not use any post-consumer material and any applicable heavy metal is not added for every raw material as prescription constituent ingredients, for the heavy metal, a document that can evidence the conformance to the criteria by rubber material manufacturer or the applicant may be submitted.

4-2. Quality Criteria and Certification Procedures

- (19) The product quality shall conform to the industry's or in-house quality criteria. Incidentally, with respect to the quality of high-heeled shoes, the heel strength (fixing strength, impact strength, etc.) is included as necessary items. "Safety shoes," "antistatic shoes," "chemical protection high boots," and "work shoes for protection from radioactive contamination" shall conform to the applicable Japanese Industrial Standard.

[Certification Procedure]

The applicable quality standard and quality criteria shall be presented and a certificate that evidences the conformance to the standard and the criteria shall also be submitted. In addition, a certificate issued by a plant manager or a quality control manager of the plant where the

product is manufactured shall be submitted stating that the quality control in the manufacturing stages is thoroughly implemented.

5. Product Classification, Indication and Others

Omitted.

December 1, 2008	Established (Version1.0)
April 20, 2010	Revised (Version1.1)
March 1, 2011	Revised (Version1.2)
November 1, 2011	Revised (Version1.3)
October 1, 2012	Revised (Version1.4)
February 1, 2014	Extension of Expiration date
June 1. 2016	Revised (Version1.5)
April 1, 2017	Revised (Version1.6)
September 1, 2017	Revised (Version1.7)
January 7, 2019	Extension of Expiration date
November 30, 2025	Expiration date

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

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

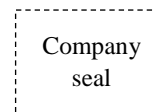
No	Purpose	Request (Item that must be realized)	Subject	Realized	Implementation Method (Check off all relevant items.)
1	Prevention of global warming, conservation of the natural ecosystem	Hasn't the farm land where plants are cultivated been converted from forests in the recent ten years?	Farm land	<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.):
3	Prevention of land acidification/nutrient enrichment/water	Has the Applicant gained the understanding of usage conditions of fertilizers/agricultural chemicals 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 fertilizers/agricultural chemicals on the site <input type="checkbox"/> Gained the understanding of the actual condition of the site through

No	Purpose	Request (Item that must be realized)	Subject	Realized	Implementation Method (Check off all relevant items.)
	contamination	Isn't any agricultural chemical regulated under the "Stockholm Convention on Persistent Organic Pollutants" (POPs Treaty) used?			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.)
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 []

No	Purpose	Request (Item that must be realized)	Subject	Realized	Implementation Method (Check off all relevant items.)
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

Type name

Applicant



Appendix 2 Environment-conscious design checklist

Purpose	No.	Requirements	Achieved?	Points	Supporting material
use of materials that contribute to reduce environmental burden	1	members which are not listed in 4-1-1(2) of this criteria or a part of members (components) of the product are used and shall satisfy the standard content rate. For plant-based fibers or plant-based synthetic fibers shall also meet 4-1-1(3).	Yes/No	2 per member	See [certification procedure] in 4-1-1(2), (3).
Reduction of VOC of adhesives	2	Adhesives used for sewing the upper shall be water-based or hot-melt adhesives. Or double-faced adhesive tape, etc. are used and no adhesives are used.	Yes/No	1	Enter the name of adhesives used for upper sewing in the following parentheses. ()
	3	Adhesives used for bonding the upper and the sole shall be water-based or hot-melt adhesives (2 points). Or, no adhesive is used for bonding the upper and the sole (3 points).	Yes/No	2 or 3	Enter the name of adhesives used for bonding the upper to the sole. ()
	4	All adhesives free of any addition of toluene and xylene shall be used.	Yes/No	2	Adhesive Conformance Certificate
Promotion of long-term use and easy maintenance	5	No polyester-based polyurethane shall be used for the out sole. In addition, when polyurethane is used for the out sole, ether-based polyurethane or polyurethane improved to prevent hydrolysis shall be used.	Yes/No	2	Enter the certificate for material used. In the case of using polyurethane improved prevent hydrolysis, data, etc. that evidence the improvement.
	6	In products in which no polyurethane is used, shoe manufacturing date is indicated in any of the product proper, product label, product tab, etc.	Yes/No	2	Applicable portion where manufacturing date is stipulated (copies and manuscripts are acceptable).
	7	The applicant shall be in the system to disclose information on manufacturing date and production area for each member of a shoe at the request of consumers, etc.	Yes/No	1	Documents that explain the information disclosure system.
	8	Shoes with washable construction or material. Information on appropriate washing method (including drying method and precautions for peeling of sock lining, etc.) is provided.	Yes/No	3	Labeling portion with which it is possible to make sure information on the washing method is available.
	9	The product shall have a construction that enables easy replacement of member s of product, such as outsoles, heels, and heel plugs (excluding replacement of accessories).	Yes/No	3	Documents that specifically explain that the product has a construction easy to replace components.
	10	The product carries an indication encouraging users to wear shoes correctly or take care of them for lengthy life thereof (example: Try to take care of the shoes to increase the life.)	Yes/No	1	The indication a description of which can be checked
Resources saving	11	No ornamental components not related to functions such as stones, chains, beads, metal foils, etc. shall not be used.	Yes/No	1	Color photograph of the product (to be attached to Eco Mark Product Certification/Use Application).

	12	In the components of sole portions of the applied product, there are standardized components which are made by the same material and in the same shape, and used for other products (excluding accessories). Two points are given when the standardized other product is one article number and three points are given when the standardized other product is two or more article numbers.	Yes/No	2 or 3	Documents that specifically explain that the components of the sole of the applied product are standardized and are able to be used for other products.
	13	The paper material used for a one-pair shoebox contains not less than 70% recycled pulp mixture ratio.	Yes/No	1	None
	14	The paper material used for a one-pair shoebox does not undergo any processing unsuited for paper recycling after disposal, such as laminate coating, etc.	Yes/No	1	None
		As packing material at the time of shipping, no reinforcing padding, paper padding, or wrapping paper is used to prevent shoes from losing their shape.	Yes/No	1	None

Appendix 3

List of prohibited dyes and pigments (fibers)

- [1] Azo dyestuff which may generate the following carcinogenic amines in degradation (Dyes whose detection value of the following aromatic amine exceed 30mg/kg according to JIS L 1940-1 and JIS L 1940-3 (ISO24362-1, ISO24362-3, or EN 14362-1, EN14362-2)).

CAS No	Name
92-67-1	4-Aminobiphenyl
92-87-5	Benzidine
95-69-2	4-Chloro-o-toluidine
91-59-8	2-Naphthylamine
97-56-3	o-Aminoazotoluene
99-55-8	2-Amino-4-nitrotoluene
106-47-8	4-Chloroaniline
615-05-4	2,4-Diaminoanisole
101-77-9	4,4'-Diaminodiphenylmethane
91-94-1	3,3-Dichlorbenzidine
119-90-4	o-Dianisidine; 3,3'-Dimethoxybenzidine
119-93-7	o-Tolidine; 3,3'-Dimethylbenzidine
838-88-0	4,4'-Diamino-3,3'-dimethyldiphenylmethane
120-71-8	p-Cresidine
101-14-4	4,4'-Diamino-3,3'-dichlorodiphenylmethane
101-80-4	4,4'-Diaminodiphenyl ether
139-65-1	4,4'-Diaminodiphenyl sulfide
95-53-4	o-Toluidine
95-80-7	2,4-Diaminotoluene
137-17-7	2,4,5-Trimethylaniline
90-04-0	o-Anisidine
95-68-1	2,4-Xylidine
87-62-7	2,6-Xylidine
60-09-3	4-Aminoazobenzene

2) Carcinogenic Dyes

CAS No	C.I.	
569-61-9	C.I. BASIC RED 9	CI 42500
2475-45-8	C.I. DISPERSE BLUE 1	CI 64500
3761-53-3	C.I. ACID RED 26	CI 16150
2602-46-2	C.I. DIRECT BLUE 6	CI 22610
1937-37-7	C.I. DIRECT BLACK 38	CI 30235
573-58-0	C.I. DIRECT RED 28	CI 22120
2832-40-8	C.I. DISPERSE YELLOW 3	CI 11855
632-99-5	C.I. BASIC VIOLET14	
82-28-0	C.I. DISPERSE ORANGE11	

3) Skin Sensitizing Dyes

2475-46-9	C.I. DISPERSE BLUE 3	CI 61505
12222-75-2	C.I. DISPERSE BLUE 35	
	C.I. DISPERSE BLUE 106	
	C.I. DISPERSE BLUE 124	
2832-40-8	C.I. DISPERSE YELLOW 3	CI 11855
730-40-5	C.I. DISPERSE ORANGE 3	CI 11005
	C.I. DISPERSE ORANGE 37	
2872-52-8	C.I. DISPERSE RED 1	CI 11110
2475-45-8	C.I. DISPERSE BLUE 1	CI 64500
3179-90-6	C.I. DISPERSE BLUE 7	CI 62500
3860-63-7	C.I. DISPERSE BLUE 26	CI 63305
	C.I. DISPERSE BLUE 102	
	C.I. DISPERSE ORANGE 1	CI 11080
	C.I. DISPERSE ORANGE 76	

2872-48-2	C.I. DISPERSE RED 11	CI 62015
	C.I. DISPERSE RED 17	CI 11210
119-15-3	C.I. DISPERSE YELLOW 1	CI 10345
	C.I. DISPERSE YELLOW 9	CI 10375
	C.I. DISPERSE YELLOW 39	
	C.I. DISPERSE YELLOW 49	
	C.I. DISPERSE BROWN1	

Appendix 4

Specific chlorofluorocarbon (CFC5s)	Dichlorodifluoromethane
	Trichlorotrifluoroethane
	Dichlorotetrafluoroethane
	Chloropentafluoroethane
	Chlorotrifluoromethane
Other CFCs	Pentachlorofluoromethane
	Tetrachlorodifluoroethane
	Heptachlorofluoropropane
	Hexachlorodifluoropropane
	Pentachlorotrifluoropropane
	Tetrachlorotetrafluoropropane
	Trichloropentafluoropropane
	Dichlorohexafluoropropane
	Chloroheptafluoropropane
	Carbon Tetrachloride
	1,1,1-Trichloroethane
	Dichlorodifluoromethane
Alternatives for chlorofluorocarbon (HCFCs)	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
	Trichlorodifluoropropane
	Dichlorotrifluoropropane
	Chlorotetrafluoropropane
	Trichlorofluoropropane
	Dichlorodifluoropropane
	Chlorotrifluoropropane
	Dichlorofluoropropane
	Chlorodifluoropropane
Chlorofluoropropane	

Appendix 5 Classification of applicable products (according to standard commodity classification for Japan)

Medium	Commodity item name					Classification A through C in Eco Mark Product Category No. 143 “Shoes and Footwear”
80 Footwear	801 Leather shoes (excluding sports shoes)	8011 General leather shoes	80111 Men’s leather shoes	801111 Full leather shoes		A Thongs are Category C
				801112 Shoes with leather uppers and other material soles		
				801119 Other men’s leather shoes		
			80112 Women’s leather shoes	801121 Full leather shoes		
				801122 Shoes with leather uppers and other material soles		
				801129 Other women’s leather shoes		
			80113 Babies and children leather shoes	801131 Children leather shoes	8011311 Full leather shoes	
					8011312 Shoes with leather uppers and other material soles	
					8011319 Other children leather shoes	
				801132 Babies shoes (size ranges from 10.5 to 14)	8011321 Full leather shoes	
					8011322 Shoes with leather uppers and other material soles	
					8011329 Other babies leather shoes	
		80119 Other general leather shoes				
		8012 Work leather shoes	80121 Full leather shoes			
			80122 Shoes with leather uppers and other material soles			
			80129 Other work leather shoes			
		8019 Other leather shoes (excluding sports shoes)				

	802 Rubber footwear (size is same as leather shoes except full-rubber flip-flops and thongs. Excluding sports shoes)	8021 Workman's split-toed heavy-cloth shoes				C
		8022 rubber-soled cloth shoes	80221 General rubber-soled heavy-cloth shoes			B
			80229 Other rubber-soled heavy-cloth shoes			
		8023 Full rubber shoes	80231 High boots and rainboots			
			80232 Low quarter shoes and slippers			
	80239 Other full rubber shoes					
	8024 Full rubber flip-flops and thongs	80241 Full-rubber flip-flops			C	
		80242 Full-rubber thongs				
	8029 Other rubber footwear (size is same as leather shoes except full-rubber flip-flops and thongs. Excluding sports shoes)					
	803 Plastic footwear (excluding sports shoes)	8031 Plastic footwear (paste type)	80311 General plastic shoes (size is same as leather shoes)	803111 Men's shoes	8031111 Full-plastic shoes	B
				8031112 Shoes with plastic uppers and other material soles		
				8031119 Other men's shoes		
803112 Women's shoes				8031121 Full-plastic shoes		
				8031122 Shoes with plastic uppers and other material soles		
				8031129 Other women's shoes		
803113 Babies and children shoes				8031131 Full-plastic shoes		
				8031132 Shoes with plastic uppers and other material soles		
				8031139 Other babies and children shoes		

			80312 Plastic thong			C	
			80319 Other plastic footwear (paste type)			B	
	8032 Plastic footwear (injection molding type)	80321 Shoes with plastic soles and cloth uppers (size is same as leather shoes)	803211 General shoes				
			803219 Other shoes with plastic soles and cloth uppers				
			80322 Shoes with plastic soles and plastic uppers (size is same as leather shoes)	803221 General shoes			
			803229 Other shoes with plastic soles and plastic uppers				
			80323 Full-plastic shoes	803231 High boots and rainboots			
				803232 Low quarter shoes and slippers			
				803233 Other plastic shoes			
		80329 Other plastic footwear (injection molding type)			B		
	8039 Other plastic footwear (excluding sport shoes)						
804 Sport shoes	8041 Spike shoes and similarly regarded shoes	80411 Athletic sport shoes			A or B		
		80412 Golf shoes					
		80413 Baseball shoes					
		80414 Rugby shoes					
		80415 Soccer shoes					
		80416 Football shoes					
		80419 Other spike shoes and similarly regarded shoes					
	8042 Flat-soled sport shoes	80421 Volleyball shoes					
		80422 Basketball shoes					
		80423 Tennis shoes					
		80424 Bowling shoes					
		80425 Dance shoes					
		80426 Sailing shoes					

			80427 Gateball shoes			
			80428 Gym shoes			
			80429 Other flat-soled sport shoes			
	8043 Special sport shoes		80431 Ice skates			
			80432 Roller skates			
			80433 Ski boots			
			80434 Mountain climbing shoes			
			80435 Riding boots			
			80439 Other special sport shoes			
	8049 Other sport shoes					
805 Japanese footwear	8051 Getas (wooden clogs)	80511 Men's wooden clogs				C
		80512 Women's wooden clogs				
		80513 Children's wooden clogs				
		80519 Other wooden clogs				
	8052 Japanese sandals	80521 Men's Japanese sandals				C
		80522 Women's Japanese sandals				
		80523 Children's Japanese sandals				
		80529 Other Japanese sandals				
	8059 Other Japanese footwear					
806 Home flip-flops (excluding rubber flip-flops)						
809 Other footwear						