

# Revision of the EU Ecolabel criteria for the product group "hard coverings"

Fields marked with \* are mandatory.

## Preliminary stakeholder survey on the upcoming revision of EU Ecolabel criteria for Hard Coverings

This survey is part of a study to revise the EU Ecolabel criteria for "Hard coverings". The study is being carried out by the Joint Research Centre's Directorate B - Growth and Innovation (JRC) for the European Commission's Directorate General for the Environment.

This survey is related to existing EU Ecolabel criteria that can be downloaded from:

<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32009D0607>

The survey shall be open until **31 October 2017**.

### Disclaimer

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## 1. Respondant details (personal data will be treated as confidential)

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\* 1.1. Please state your name (first name and surname)

\* 1.2. Please provide a contact email address

\* 1.3. Please state the name of your organization

\* 1.4. Which of the following options best represents the type of organization you represent?

Please select only one

- Industry - Manufacturer SME (< 250 employees)
- Industry - Manufacturer large company (> 250 employees)
- Consumer organization

- Government (local, regional or national)
- EU Ecolabel Competent Body
- Environmental labelling scheme other than EU ecolabel
- Policy maker
- Non-Governmental Organisation (NGO)
- Consultant and/or research institution
- Laboratory testing organization
- Other (please specify: )

If you selected other, please specify here

**\* 1.5. Has your organization:**

Multiple answers possible

- Been previously involved with the EU Ecolabel criteria development process for Hard Covering products?
- Been awarded an EU Ecolabel license for any Hard Covering products?
- Been involved in an application for an EU Ecolabel license for Hard Coverings products?
- Considered applying for an EU Ecolabel license in the future?
- None of the above

**\* 1.6. Has your organization obtained any other environmental label, for example, GECA, EPD certificates, Carbon Footprint etc. for any Hard Covering products?**

- No
- Yes, please specify which one(s).

If yes, please specify

**\* 1.7. Would you consider it as added value to license holders if EU Ecolabel Hard Covering products were awarded points/credits by Green Building Assessment schemes? (e.g. BREEAM, LEED, HQE, Verde, Green Star etc.).**

- Yes
- No
- Not sure

**1.8. Please state how you feel about the following statements:**

	Strongly agree	Agree	Disagree	Strongly disagree	No opinion
* EU Ecolabel should directly require the use of renewable energy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* EU Ecolabel should indirectly promote the use of renewable energy and/or energy efficiency with CO2 footprint limits.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* EU Ecolabel should simply focus on energy efficiency.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 1.9. In your opinion, how important is Public Procurement (i.e. purchases made by public authorities and government) to this product group?

- Very important
- Important
- Not sure
- Not important

## 2. EU Ecolabel scope and definitions

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The product group definition for hard coverings is defined as "— for internal/external use, without any relevant structural function — **natural stones, agglomerated stones, concrete paving units, terrazzo tiles, ceramic tiles and clay tiles**. For hard coverings, the criteria can be applied both to floor and wall coverings, if the production process is identical and uses the same materials and manufacturing methods" (art. 1 Commission Decision 2009/607/CE).

The product group is structured in the following way (CEN definitions included)

<b>Hard Coverings</b>	<b>Natural Product</b>	Natural stone CEN TC 246	Marble
			Granite
			Other
	<b>Processed Product</b>	Hardened Product	Agglomerated stone JWG 229/246 EN 14618
			Concrete paving units CEN TC 178
			Terrazzo tiles CEN TC 229
		Fired Product	Ceramic tiles CEN TC 67
			Clay tiles CEN 178

\*2.1. In the group of "other natural stones" are listed : *sandstone, quartzite, tuff, schist*. Do you think other natural stones, such as **limestone, pegmatite and gypsum** should be explicitly mentioned here too?

'Other' natural stones refer to natural stones whose technical characteristics are on the whole different from those of marble and granite as defined by CEN/TC 246/N.237 EN 12670 'Natural stones — Terminology'. Generally, such stones do not readily take a mirror polish and are not always extracted by blocks

- Yes
- No
- No opinion

If no, please explain

\*2.2. Are there any other hard covering products or materials which are excluded by this definition which, in your opinion, should be included?

- Yes
- No
- No opinion

If yes, please explain

\*2.3. Are there any hard coverings or materials which should be, in your opinion, explicitly excluded from the scope of the product group, but which are included by the current definition?

- Yes
- No
- No opinion

If yes, please explain

### 3. Feedback on the current EU Ecolabel criteria

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#### 3.1. Generalities

3.1.1. Please state how you feel about the following statements:

	Strongly agree	Agree	Disagree	Strongly disagree	No opinion
* There are too many criteria.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* Some criteria are too difficult or impossible to fulfil.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* The criteria are too complex.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Some criteria are not needed or useful in practice, e.g. because they are too easy to fulfil.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* The criteria generally cover the main environmental impacts of hard covering products.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

You may elaborate further on your answers here.

1000 character(s) maximum

**\* 3.1.2. If you are familiar with the criteria set out in Decision 2009/607/EC for EU Ecolabel hard coverings and would be willing to answer some more questions, please select which product(s) you are familiar with.**

- Natural products
- Processed products

### 3.2. Criteria relevant to Natural products

**3.2.1. Please state your opinion about the existing mandatory requirements under sub-criterion " 1. 1 Extraction management" (ONLY for Natural Products)**

*Mandatory conditions to obtain EU Ecolabel*

	Keep as it is	Modify	Remove	No opinion
* No interference with any deep confined waterbed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* No interference with surface water bodies with civil catching or springs, or if the water body is included in the Register of protected areas (Directive 2000/60/EC) or of the watercourse's average flow is > 5m <sup>3</sup> /s	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* There shall be a waste water recovery system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum

**3.2.2. Please state your opinion about the existing matrix scoring table for sub-criterion " 1.1. Extraction management" (ONLY for Natural Products)**

	Keep as it is	Modify	Remove	No opinion
* I.1 Water recycling ratio	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I.2 Quarry impact ratio	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I.3 Natural resource waste	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I.4 Air quality (PM10 in ug /Nm3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I.5 Water quality (SS in mg/l)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I.6 Noise (dB(A) along border)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

*250 character(s) maximum*

**3.2.3. Please state your opinion about the need to include these elements in a report as part of sub-criterion " 1.2. Extraction management".**

*A technical report should be provided, including*

	Keep as it is	Modify	Remove	No opinion
* The authorisation for the extraction activity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* The environmental recovery plan and/or Environmental Impact	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* The map indicating the location of the quarry;	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* The declaration of conformity to the Directive 92/43/CEE (habitats) and Directive 79/409/CEE (birds) and their subsequent amendments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

*250 character(s) maximum*

**3.2.4. Please state your opinion about the following aspects of "Criterion 2 : Raw materials selection". (for ALL products)**

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	Keep as it is	Modify	Remove	No opinion
* 2.1 Absence of risk phases (R45,R46,R49-R63, R68) in raw materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* 2.3 Limitation of the presence of asbestos and polyester resins in the material	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum

**3.2.5. Please state your opinion about the following aspects of "Criterion 3 : Finishing operations" (ONLY for Natural Products)**

	Keep as it is	Modify	Remove	No opinion
* Particulate emission to air <b>PM10 &lt;150µg/Nm3</b> (as per EN 12341)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Styrene emission to air <b>&lt;210 mg/Nm3</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Water recycling ratio <b>≥90%</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Suspended solid emission to water <b>&lt;40 mg/l</b> (as per ISO 5667-17)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Cd emission to water <b>&lt; 0.015mg/l</b> (as per ISO 8288)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Cr (VI) emission to water <b>&lt;0.15 mg/l</b> (as per ISO 11083)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Fe emission to water <b>&lt;1.5 mg/l</b> (as per ISO 6332)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Pb emission to water <b>&lt;0.15 mg/l</b> (as per ISO 8288)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum

**3.2.6. Please state your opinion about the following scope of "Criterion 5 : Waste management" (ONLY for natural products)**

*The applicant should provide a declaration of conformity with the requirement in accordance with Directive 2006/721/EC*

	Keep as it is	Modify	Remove	No opinion
* Waste management deriving from quarrying	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* Waste management deriving from finishing operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Re-use of by-products (sawing included)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum

### 3.2.7. Please state your opinion about the following aspects of "Criterion 7 : Packaging" (for ALL products)

*Paperboard used for packaging has to comply with one of the two options below*

	Keep as it is	Modify	Remove	No opinion
* Paperboard should be designed for reuse , or	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Paperboard should be made out of 70% recycled materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum

## 3.3. Criteria relevant to processed products

### 3.3.1. Please state your opinion about the following aspects of "Criterion 2 : Raw materials selection" (ONLY for processed products)

	Keep as it is	Modify	Remove	No opinion
* 2.1 Absence of risk phases (R45, R46, R49-R63, R68) in raw materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* 2.2 Limitation of the presence of some substances in the additives (ONLY for glazed tiles) : Pb<0.5 , Cd > 0.1, Sb >0.25	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* 2.3 Limitation of the presence of asbestos and polyester resins in the material	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum



**3.3.2. Please state your opinion about the following aspects of "Sub- criterion 4.1: Energy consumption" (ONLY for processed products)**

	Keep as it is	Modify	Remove	No opinion
* (a) Process energy requirement (PER) limit - <b>1.6 MJ/kg for agglomerated stones</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* (a) Process energy requirement (PER) limit - <b>1.3 MJ/kg for terrazzo tiles</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* (b) Energy requirement for firing (ERF) limit - <b>3.5 MJ /kg for ceramic and clay tiles</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

*250 character(s) maximum*

**3.3.3. Please state your opinion about "Sub-criterion 4.2: Water consumption and use" (ONLY for processed products)**

	Keep as it is	Modify	Remove	No opinion
* (a) Fresh water specific consumption <b>1l/kg of product</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* (b) Water recycling ratio <b>≥90%</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

*250 character(s) maximum*

**3.3.4. For aspects relating to "Sub-criterion 4.3: Emissions to air " (Please select the processed product group(s) you are interested in)**

- for agglomerated stones
- for ceramic tiles
- for clay tiles
- for terrazzo tiles and concrete paving units (and cement)

**(a) for agglomerated stones**

	Keep as it is	Modify	Remove	No opinion
* Particulate matter (dust) - <b>300mg/m2</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* Nitrogen oxides (as Nox) - <b>1200 mg/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Sulphur dioxide (SO <sub>2</sub> ) - <b>850 mg/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Styrene - <b>2000 mg/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum

**(b) for ceramic tiles**

	Keep as it is	Modify	Remove	No opinion
* Total cold emissions ( <i>pressing, glazing, and spray drying</i> ) < <b>5g/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Firing</i> - Particulate matter (dust) - <b>200 mg/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Firing</i> - Fluorides (as HF) - <b>200 mg/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Firing</i> - Nitrogen oxides (as NO <sub>x</sub> ) - <b>2500 mg/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Firing</i> - Sulphur dioxide (SO <sub>2</sub> ) - <b>1500 mg/m<sup>2</sup></b> (if S content in raw material <0.25%)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Firing</i> - Sulphur dioxide (SO <sub>2</sub> ) - <b>5000 mg/m<sup>2</sup></b> (if S content in raw material >0.25%)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum

**(c) for clay tiles**

	Keep as it is	Modify	Remove	No opinion
* Particulate matter (dust) - <b>1000 mg/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Fluorides (as HF) - <b>800mg/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Nitrogen oxides (as NO <sub>x</sub> ) - <b>12000mg/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Sulphur dioxide (SO <sub>2</sub> ) - <b>8000mg/m<sup>2</sup></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum

**(d) for terrazzo tiles and concrete paving units (and cement)**

	Keep as it is	Modify	Remove	No opinion
* Particulate matter (dust) - <b>300mg/m2</b> (for tiles and paving units)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Nitrogen oxides (as Nox) - <b>2000 mg/m2</b> (for tiles and paving units)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Sulphur dioxide (SO2) - <b>1500 mg/m2</b> (for tiles and paving units)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Dust 65 g/t (for cement)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Nitrogen oxide (NOx) 900g/t (for cement)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Sulphur dioxide (SO2) 350g/t (for cement)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum

**3.3.5. Please state your opinion about "Sub-criterion 4.4: Emissions to water" (ONLY for processed products)**

	Keep as it is	Modify	Remove	No opinion
* Suspended solid emission to water - <b>40mg/l</b> (as per ISO 5667-17)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Cd emission to water - <b>0.015 mg/l</b> (as per ISO 8288)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Cr(VI) emission to water - <b>0.15 mg/l</b> (as per ISO 11083)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Fe emission to water - <b>1.5 mg/l</b> (as per ISO 6332)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Pb emission to water - <b>0.15mg/l</b> (as per ISO 8288)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

250 character(s) maximum

**3.3.6. Please state your opinion about "Criterion 5 : Waste management" (ONLY for processed products)**

*The applicant should provide a report with the following information*

	Keep as it is	Modify	Remove	No opinion
* Type and quantity of waste recovered	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Type of disposal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Re-use of waste and secondary materials (internal or external) in the process	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Recover (as per Directive 75/442/EEC) at least 85% of waste generated.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

*250 character(s) maximum*

**3.3.7. Please state your opinion about "Sub-criterion 6.1 . Release of dangerous substances for glazed tiles"**

	Keep as it is	Modify	Remove	No opinion
* Pb - 80 mg /m2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Cd - 7 mg /m2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

*250 character(s) maximum*

**3.3.8. Please state your opinion about "Criterion 7: Packaging" (for ALL products)**

*Paperboard used for packagig has to comply with one of the two options below*

	Keep as it is	Modify	Remove	No opinion
* Paperboard should be designed for reuse , or	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Paperboard should be made out of 70% recycled materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you chose modify or remove, you may justify your answer here.

*250 character(s) maximum*

**Please add any other comments that you may have regarding EU Ecolabel hard coverings here.**

*3000 character(s) maximum*