

ANNEX 2

COVERINGS



FINAL DRAFT CRITERIA PROPOSAL

20 NOVEMBER 2008

**THE MODIFICATION TO THE COMMISSION DECISION 2002/272/CE TEXT
CRITERIA FOR HARD FLOOR COVERINGS ARE POINTED OUT IN RED**

**THE CRITERIA FOR THE “WOOD AND PLANT BASED COVERINGS” AND FOR THE
“TEXTILE FLOOR COVERINGS” SUB PRODUCT GROUPS HAVE BEEN INCLUDED.**

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COMMISSION DECISION

(date)

establishing the ecological criteria for the award of the Community eco-label to

Coverings

(notified under document number)

(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Regulation (EC) No 1980/2000 of the European Parliament and of the Council of 17 July 2000 on a revised Community eco-label award scheme (1), and in particular Article 4 and Article 6(1) thereof,

Whereas:

- (1) Under Regulation (EC) No 1980/2000 the Community eco-label may be awarded to a product possessing characteristics which enable it to contribute significantly to improvements in relation to key environmental aspects.
- (2) Regulation (EC) No 1980/2000 provides that specific eco-label criteria are to be established according to product groups.
- (3) The measures provided for in this Decision are based on the draft criteria developed by the European Union Ecolabelling Board established under Article 13 of Regulation (EC) No 1980/2000.
- (4) The measures provided for in this Decision are in accordance with the opinion of the committee instituted by Article 17 of Regulation (EC) No 1980/2000,

HAS ADOPTED THIS DECISION:

ARTICLE 1

In order to be awarded the Community eco-label under Regulation (EC) No 1980/2000, a covering must fall within the product group 'Coverings' as defined in Article 2 of this Decision and must comply with the ecological criteria set out in the Annex.

ARTICLE 2

The product group 'Coverings' shall comprise the following products for internal/external use, without any relevant structural function:

- Hard Coverings: 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;
- Wood and Plant based coverings: including wood and timber coverings, laminate floorings, cork coverings and bamboo floorings which are made, for more than 90% in mass (in the final product), from wood, wood powder and/or wood/plant based material. It does not apply to wall coverings, where properly indicated, or that for external use;
- Textile floor coverings: defined as floor covering, usually of woven, knitted, or needle-tufted fabric; commonly installed with tacks or staples, or by adhesives. Loose mats and rags are excluded. It does not apply to wall coverings or that for external use.

ARTICLE 3

For administrative purposes the code number assigned to the product group "coverings" shall be "..."

ARTICLE 4

This Decision shall apply from [...] until [...]. If on [...], revised criteria for this product group have not been adopted, this Decision shall apply until [...].

ARTICLE 5

This Decision is addressed to the Member States.

Done at Brussels, [...].

ANNEX

FRAMEWORK

The aims of the criteria

These criteria aim in particular at promoting:

- the reduction of impacts on habitats and associated resources,
- the reduction of energy consumption,
- the reduction of discharges of toxic or otherwise polluting substances into the environment,
- the reduction of use of dangerous substances **in the materials and in the finished products**,
- **safety and absence of risk to health in the living environment**,
- information that will enable the consumer to use the product in an efficient way which minimises the whole environmental impact.

The criteria are set at levels that promote the labelling of **coverings** that are produced with low environmental impact.

ASSESSMENT AND VERIFICATION REQUIREMENTS

“The specific assessment and verification requirements are indicated within each criterion.

The product group is structured in the following way (CEN definitions, when available, are reported in brackets) and can be subdivided into three main sub-products group: “Hard Coverings”, “Wood and Plant based coverings” and “Textile floor coverings”. Each sub-group is, then, subdivided into different families.

HARD COVERINGS

This group can be divided into “Natural products” and “Processed products”.

Natural products includes the Natural Stones, that, as defined by CEN TC 246 are pieces of naturally occurring rock, and include marble, granite and other natural stones

‘Other’ natural stones refers 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: sandstone, quartzite, slate, tuff, schist.

The group of ‘**processed** products’ can be further divided into **hardened** and **fired products**. **Hardened products** are *agglomerated stones, concrete paving units and terrazzo tiles*. **Fired products** are *ceramic tiles and clay tiles*.

Agglomerated Stones are industrial products manufactured from a mixture of aggregates, mainly from natural stone grit, and a binder as defined by **JWG 229/246 EN 14618**. The grit is normally composed of marble and granite quarry granulate and the binder is made from artificial components as unsaturated polyester resin or hydraulic cement. This group includes also artificial stones and compacted marble.

Concrete paving units are products for outer floor-coverings obtained by mixing sands, gravel, cement, inorganic pigments and additives, and vibro-compression as defined by CEN/TC 178. This group also includes concrete flags and concrete tiles.

Terrazzo tiles are a suitably compacted element of uniform shape and thickness, which meets specific geometrical requirements as defined by CEN/TC 229. The tiles are single or dual-layered. The single-layered are tiles completely made of granulates or chipping of a suitable aggregate, embedded in grey and white cement and water. The dual-layered tiles are terrazzo tiles made up of the first face or wear layer (with single-layered composition) and a second layer, known as backing or base concrete layer, whose surface is not exposed during normal use and which may be partially removed.

Ceramic tiles are thin slabs from clays and/or other inorganic raw materials, such as feldspar and quartz as defined by CEN/TC 67. They are usually shaped by extruding or pressing at room temperature, dried and subsequently fired at temperatures sufficient to develop the required properties. Tiles can be glazed or unglazed, are non-combustible and generally unaffected by light.

Clay tiles are units which satisfy certain shape and dimensional requirements, used for the surface course of pavements and manufactured predominantly from clay or other materials, with or without additions as defined by **CEN 178**.

WOOD AND PLANT BASED COVERINGS

The group includes “Wood and Timber coverings”, “Laminate floorings”, “Cork coverings” and “Bamboo floorings”;

Wood and Timber coverings are “wood floors or wall coverings made of one solid piece of wood that have tongue and groove sides or constructed from several wood plies that are glued together in a multilayer panel. A wood covering can be unfinished, and once installed sanded, then finished on site or pre-finished in a factory. ”

Wood and Timber coverings criteria can be applicable both for wall and floor coverings, if the production processes remain the same, using the same materials and the same manufacturing methods. The criteria are set for internal use only.

The *European wood covering industry* determines its technical position as defined in the European commission **CEN/TC 112** norm.

Laminate floorings are “rigid floor covering with a surface layer consisting of one or more thin sheets of a fibrous material (usually paper), impregnated with aminoplastic thermosetting resins (usually melamine), pressed or bonded on a substrate, normally finished with a backer”.

Laminates coverings criteria can be applicable only for floor coverings and for internal use.

The *European laminate floor covering industry* determines its technical position as defined in the European commission **CEN/TC 134** norm.

Cork coverings are floor or wall coverings the main component of which is cork. The granulated cork is mixed with a binder, and then cured or several layers of cork (agglomerated/veneer) can be pressed together with glue.

The cork coverings can be divided into *Natural Cork tiles* (the main component of which is agglomerated composition cork, intended to be used with a finish) and in *Engineered Cork panels* (consisting of several layers including a fibreboard the main component of which is agglomerated cork or has cork as technical solution, intended to be used with a finishing wear layer).

Cork coverings criteria can be applicable both for wall and floor coverings, if the production processes remain the same, using the same materials and the same manufacturing methods. The criteria are set for internal use only.

The *European "cork" floor covering industry* determines its technical position in the European commission of normalisation CEN/TC134.

Bamboo floor covering are made of bamboo in solid pieces or in agglomerates as a main component.

Bamboo coverings criteria can be applicable only for floor coverings and for internal use.

The functional unit, to which inputs and outputs should be related, is 1 m² of finished product.

TEXTILE FLOOR COVERINGS

The group includes the *family of carpets*, defined as "floor covering, usually of woven, knitted, or needle-tufted fabric; commonly installed with tacks or staples, or by adhesives".

It does not apply to wall coverings or that for external use. Loose mats and rags are excluded.

The definition of the textile floor coverings product group accords to the DIN ISO 2424 norm.

The *European Textile floor coverings industry* determines its technical position as defined in the European commission **CEN/TC 134** norm.

The functional unit, to which inputs and outputs should be related, is 1 m² of finished product.

Where appropriate, test methods other than those indicated for each criterion may be used if their equivalence is accepted by the Competent Body assessing the application.

Where possible, testing should be performed by appropriately accredited laboratories or laboratories that meet the general requirements expressed in standard EN ISO 17025.

Where appropriate, Competent Bodies may require supporting documentation and may carry out independent verifications.

The Competent Bodies are recommended to take into account the implementation of recognised environmental management schemes, such as EMAS, ISO14001 when assessing applications and monitoring compliance with the criteria (*note*: it is not required to implement such management schemes).

HARD COVERINGS

CRITERIA

1 - RAW MATERIALS EXTRACTION

1.1. Extraction management (for natural products only)

(a) General requirements

“The overall extraction management score for natural stones shall be calculated as the total score based on a matrix of 8 main indicators¹. The final score results from the sum of the individual scores given to each indicator, after multiplication by a corrective weighting (W). Quarries shall reach a weighted score of at least 23 points. The score for each indicator shall be within the bounds indicated by the exclusion hurdle (for the values see the relative table).

In addition to the scoring table, all of the following conditions shall be met:

- there shall be no interference with any deep confined waterbed;
- there shall be no interference with surface water-bodies with civil catching or springs, or if the water-body is included in the Register of Protected Areas established by Directive 2000/60/EC or if the watercourse's average flow is $>5 \text{ m}^2/\text{s}$;
- there shall be a waste water recovery closed system for avoiding sawing waste dispersion to the environment and to feed the recycling loop. Water shall be contained in close proximity to the place where it is used in quarrying operations and then it shall be conveyed by closed pipes to the suitable processing plant. After clearing, water shall be recycled.”

Assessment and verification: the applicant shall provide the calculation of the weighted overall extraction management score, and related data for each of the eight indicators (showing amongst others that each score is within the bounds of the corresponding exclusion hurdle, if one is given), according to the following matrix and to the corresponding instructions in the Technical Appendix — A1. The applicant shall also provide appropriate documentation and/or declarations that proves compliance with all of the abovementioned criteria.

¹ (1) OJ L 327, 22.12.2000, p. 1.

Indicator	Notes	Score					
		5 (excellent)	3 (good)	1 (sufficient)	Exclusion Hurdle	Relative weights	
I1) Water recycling ratio	$\frac{\text{Waste Water Recycled}}{\text{Total Water Leaving the Process}} \cdot 100$ See Technical Appendix – A3	> 80	80 – 70	69 – 65	< 65	W4	
I2) Rehabilitation simultaneity degree	m ² compromised area (quarry front + active dump) / m ² authorised area [%]	< 15	15 – 30	31 – 50	> 50	W1, W2, W3	
I3) Material recovery	m ³ commercial materials / m ³ extracted material [%]	MARBLES	> 60	60 – 50	49 – 40	< 40	-
		GRANITES	> 70	70 – 60	59 – 50	< 50	
		OTHERS	> 40	40 – 35	34 – 30	< 30	
I4) Natural resource appreciation	m ³ usable material / m ³ extracted material [%]	MARBLES	> 60	60 – 45	44 – 35	< 35	-
		GRANITES	> 60	60 – 45	44 – 35	< 35	
		OTHERS	> 50	50 – 35	34 – 25	< 25	
I5) Working conditions of operating equipment	Total n° of worked hours / yearly production [h/m ³]	WHEEL LOADER	< 3,5	3,5 – 5,5	> 5,5	-	-
		EXCAVATOR	< 2,5	2,5 – 3,0	> 3,0	-	
I6) Air quality	Yearly limit value measured along the border of quarry area. PM 10 suspended particles [µg/Nm ³] Testing method EN 12341	< 20	20 – 100	101 – 150	> 150	W1, W3	
I7) Water quality	Suspended solids [mg/l] Testing method ISO 5667 - 17	< 15	15 – 30	31 – 40	> 40	W1, W2, W3, W4	
I8) Noise	Measured along the border of quarry area (dB(A)) Testing method ISO 1996-1	< 30	30 – 55	56 – 60	> 60	W1, W3	

List of weights (to be used only where specified):

W1. Nature conservation: If the quarry area is located in:

- notified sites of Community importance pursuant to Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora², and its subsequent amendments,
- or in Natura 2000 network areas, composed of the special protection areas pursuant to Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds³, and its subsequent amendments, and those areas under Directive 92/43/EEC together,
- or in equivalent areas located outside the European Community that fall under the corresponding provisions of the United Nations' Convention on Biological Diversity⁴,

then W1 is relevant to the following indicators: rehabilitation simultaneity degree (I.2), air quality (I.6), water quality (I.7), noise (I.8). The same rules shall apply if the quarry is outside such sites but could have significant effects on them, either individually or in combination with other plans and projects⁵. The corresponding specific weight is 0,3.”

Assessment and verification: the applicant shall provide a declaration accompanied by appropriate documentation to show if the quarry area is located in or adjacent to sites of Community importance pursuant to the Directives 92/43/EEC and 79/409/EEC, as detailed above. The sites forming the Natura 2000 network areas are listed and reported on maps drawn up by the Member States ([see http://ec.europa.eu/environment/nature/index_en.htm](http://ec.europa.eu/environment/nature/index_en.htm)). In areas outside the European Community, the applicant shall provide a declaration accompanied by appropriate documentation to show if the quarry area is located in or adjacent to protected areas as determined under the United Nations' Convention on Biological Diversity 1992.

W2. Soil protection: for rehabilitation simultaneity degree (I.2) and water quality (I.7) indicators, three different values of weights are considered, as a function of land use potentialities (see Technical Appendix — A1 for details):

Soil protection	Classes I — II	Classes III — IV — V	Classes VI — VII — VIII
Weight	0,3	0,5	0,8

Assessment and verification: the applicant shall provide appropriate documentation, including a map, of the land capability classification of the quarry site.

² OJ L 206, 22.7.1992, p. 7.

³ OJ L 103, 25.4.1979, p.

⁴ OJ L 309, 13.12.1993, p. 1.

⁵ OJ L 206, 22.7.1992, in particular Article 6.

W3. Population density of settlements which lie within a 5 km radius (distance) from the quarry site: rehabilitation simultaneity degree (I.2), air quality (I.6), water quality (I.7) and noise (I.8) indicators are weighted in function of three density ranges:

Population density	> 100 hab/km ²	20 to 100 hab/km ²	< 20 hab/km ²
Weight	0,5 (0,6)	0,7 (0,84)	0,9

Assessment and verification: the applicant shall provide a map and appropriate documentation to verify the population density of settlements lying within 5 km radius (distance) from the quarry border (authorised area). In the case of existing quarries and expanding settlements in the area concerned, the weight factor indicated in brackets shall be used. This does not refer to major extensions of the already authorised area of such quarries (>75 %).

W4. If the quarry interferes with surface water-bodies (average flow <5 m³/s) there is a weight of 0,5 on both the indicators about water recycling ratio (I.1) and water quality (I.7).

Assessment and verification: the applicant shall provide appropriate documentation to show whether or not there is any interference between the quarry and the surface water-body.

(b) Extraction activity project and environmental recovery

The applicant shall provide a technical report including the following documents:

- *the authorization for the extractive activity;*
- *the environmental recovery plan and/or Environmental Impact Assessment report;*
- *the map indicating the location of the quarry;*
- *the declaration of conformity to the Directive 92/43/CEE and Directive 79/409/CEE.*
- *the declaration of compliance with the UN conservation on Biological Diversity (1992) and knowledge of the national biodiversity strategy and action plan if available.*

Assessment and verification: the applicant shall provide the related data and documents.

1.2. Extraction management (for processed products only)

The raw materials used in the production of processed hard coverings shall comply with the following requirements for the related extraction activities:

Parameter	Hurdle
Extraction activity project and environmental recovery	<p>The applicant shall provide a technical report including the following documents:</p> <ul style="list-style-type: none"> • the authorization for the extractive activity; • the environmental recovery plan and/or Environmental Impact Assessment report; • the map indicating the location of the quarry; • the declaration of conformity to the Directive 92/43/CEE (habitats) and Directive 79/409/CEE (birds)⁶ and their subsequent amendments. In areas outside the European Community, a similar technical report is required to demonstrate compliance with the UN conservation on Biological Diversity (1992) and knowledge of the national biodiversity strategy and action plan if available.

Assessment and verification: the applicant shall provide the related data and documents including a map of the area. If the extraction activity is not directly managed by the producers, the documentation shall always be requested to the extractor/s.

2 - RAW MATERIALS SELECTION (FOR ALL **HARD COVERINGS** PRODUCTS)

The requirements apply both to raw and secondary or recovered materials used in the production processes. If semi-processed products⁷ (mixtures) are externally bought, the suppliers are requested to comply with the normative indicated in the criteria.

⁶ For detailed information see http://ec.europa.eu/environment/nature/index_en.htm

⁷ Semi-processed products are balanced mixtures of different raw materials ready to be introduced in the production process.

2.1 Absence of risk phrases in raw materials

No substances or preparations that are assigned, or may be assigned at the time of application, any of the following risk phrases (or combinations thereof):

- R40 (limited evidence of a carcinogenic effect)
- R46 (may cause heritable genetic damage)
- R49 (may cause cancer by inhalation)
- R50 (very toxic to aquatic organisms)
- R51 (toxic to aquatic organisms)
- R52 (harmful to aquatic organisms)
- R53 (may cause long-term adverse effects in the aquatic environment)
- R54 (toxic to flora)
- R55 (toxic to fauna)
- R56 (toxic to soil organisms)
- R57 (toxic to bees)
- R58 (may cause long-term adverse effects in the environment)
- R59 (dangerous for the ozone layer)
- R60 (may impair fertility)
- R61 (may cause harm to the unborn child)
- R62 (possible risk of impaired fertility)
- R63 (possible risk of harm to the unborn child)
- R68 (possible risk of irreversible effects)

as laid down in Council Directive 67/548/EEC of 27 June 1967 (Dangerous Substances Directive) on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances⁸, and its subsequent amendments, and considering the Council Directive 1999/45/EC (Dangerous Preparations Directive), may be added to the raw materials.

The use of any dangerous substances prohibited at EU level is banned.

⁸ (1) OJ 196, 16.8.1967, p. 1.

Due to the environmental advantages of the recycling of materials, these criteria do not apply to the quota of closed-loop recycled materials⁹ used by the process and as defined in Appendix A2.

Assessment and verification: in terms of chemical and mineralogical analysis, the material formulation shall be provided by the applicant together with a declaration of compliance with the abovementioned criteria.

2.2 Limitation of the presence of some substances in the additives (for glazed tiles only)

Where lead, cadmium and antimony (or any of their compounds) are used in the **glazes**, their content shall not exceed the following specific limits:

Parameter	Hurdle (% in weight of the glazes)
Lead	0,5
Cadmium	0,1
Antimony	0,25

Assessment and verification: in terms of chemical and mineralogical analysis, the material formulation shall be provided by the applicant together with a declaration of compliance with the abovementioned limits.

2.3 Limitation of the presence of asbestos and polyester resins in the materials

No asbestos shall be present in the raw materials used for natural and processed products, as laid down in the EU Directive 1999/77/EC.

The use of polyester resins in the production shall be limited by 10 % of the total weight of raw materials.

Assessment and verification: in terms of chemical and mineralogical analysis, the material formulation shall be provided by the applicant together with a declaration of compliance with the abovementioned requirements.

⁹ “Close loop recycling” means “recycling a waste product into the same product. For secondary material arising from a manufacturing process (such as leftovers or remnants), “closed loop recycling” means that the materials are used again in the same process”.

3 - FINISHING OPERATIONS (FOR NATURAL PRODUCTS ONLY)

Finishing operations on natural products shall be made according to the following requirements:

Parameter	Hurdle (to pass)	Test method
Particulate emission to air	PM10 < 150 µg/Nm ³	EN 12341
Styrene emission to air	< 210 mg/Nm ³	
Water recycling ratio	Recycling ratio = $\frac{\text{Waste water recycled}}{\text{Total water exits the process}} \cdot 100 \geq 90 \%$	Technical Appendix — A3
Suspended solid emission to water	< 40 mg/l	ISO 5667-17
Cd emission to water	< 0,015 mg/l	ISO 8288
Cr(VI) emission to water	< 0,15 mg/l	ISO 11083
Fe emission to water	< 1,5 mg/l	ISO 6332
Pb emission to water	< 0,15 mg/l	ISO 8288

Assessment and verification: the applicant shall provide the corresponding analysis and test reports for each emission parameter measured at all emission points. Where no test method is specified, or is mentioned as being for use in verification or monitoring, competent bodies should rely as appropriate on declarations and documentation provided by the applicant and/or independent verifications.

4 – PRODUCTION PROCESS (FOR PROCESSED PRODUCTS ONLY)

4.1. Energy consumption

The energy consumption shall be calculated as process energy requirement (PER) for agglomerated stones and terrazzo tiles or as energy requirement for firing (ERF) for ceramic tiles and clay tiles.

A. Process energy requirement (PER) limit

The process energy requirement (PER) for agglomerated stones and terrazzo tiles manufacturing processes shall not exceed:

	Hurdle (MJ/kg)	Test method
Agglomerated stones	1,6	Technical appendix –A4
Terrazzo tiles	1,3	Technical appendix –A4

Note: all the hurdles are expressed in MJ per kg of final product ready to be sold. This criterion does not apply to concrete paving units.

Assessment and verification: the applicant shall calculate the PER according to the Technical Appendix — A4 instructions and provide the related results and supporting documentation.

B. Energy requirement for firing (ERF) limit

The energy requirement for firing (ERF) stages for ceramic tiles and clay tiles shall not exceed:

	Hurdle (MJ/kg)	Test method
Ceramic and Clay tiles	3,5 MJ/kg	Technical appendix –A4

Note: all the hurdles are expressed in MJ per kg of final product ready to be sold.

Assessment and verification: the applicant shall calculate the ERF according to the Technical Appendix — A4 instructions and provide the related results and supporting documentation.

4.2. Water consumption and use

(a) The following limit for water consumption at the manufacturing stage (**from raw materials preparation to firing operations**) for the fired products shall not exceed the following requirement:

Parameter	Hurdle (Litre/kg of product)
Fresh Water Specific Consumption ($C_{w_{p-a}}$)	1

Assessment and verification: the applicant shall provide the calculation of fresh water specific consumption as indicated in the Technical Appendix – A5. For fresh water it is intend only groundwater, shallow water or water from the aqueduct.

(b) The waste water produced by the processes included in the production chain shall reach a recycling ratio of at least 90%. **The recycling ratio shall be calculated as the ratio between the waste water recycled or recovered by applying a combination of process optimisation measures and process waste water treatment systems, internally or externally at the plant, and the total water that leaves the process, as defined in the Technical Appendix — A3.**

Assessment and verification: the applicant shall provide the calculation of the recycling ratio including raw data on total wastewater produced, water recycled and the quantity and source of **fresh** water used in the process.

4.3. Emissions to air

Agglomerated stones

The emissions to air for the following parameters for the whole manufacturing process shall not exceed:

Parameters	Hurdle (mg/m ²)	Test Method
Particulate matter (<i>Dust</i>)	300	EN 13284-1
Nitrogen oxides (<i>as NO_x</i>)	1.200	EN 14792
Sulphur dioxides (<i>SO₂</i>)	850	EN 14791
Styrene	2.000	-

Assessment and verification: the applicant shall provide appropriate documentation and test reports for each emission parameter mentioned above, following the indications of the Technical Appendix — A6. Where no testing method is specified, or is mentioned as being for use in verification or monitoring, competent bodies should rely, as appropriate, on declarations and documentation provided by the applicant and/or independent verifications.

Ceramic tiles

The total emissions to air of particulates for pressing, glazing and spray drying ('cold emissions') shall not exceed 5 g/m².

Assessment and verification: the applicant shall provide appropriate documentation and test reports, following the indications of the Technical Appendix — A6.

The emissions to air for the firing stage only shall not exceed:

Proposal 1

Parameters	Hurdle (mg/m ²)	Test Method
Particulate matter (Dust)	200	EN 13284
Fluorides (as HF)	200	ISO 15713
Nitrogen oxides (as NO _x)	2.500	EN 14792
Sulphur dioxides (SO ₂)	1.500	EN 14791

Proposal 2

Parameters	Hurdle (mg/m ²)	Test Method
Particulate matter (Dust)	200	EN 13284
Fluorides (as HF)	200	ISO 15713
Nitrogen oxides (as NO _x)	2.500	EN 14792
Sulphur dioxides (SO ₂) Sulphur content in raw material ≤ 0,25%	1.500	EN 14791
Sulphur dioxides (SO ₂) Sulphur content in raw material > 0,25%	5.000	EN 14791

Assessment and verification: the applicant shall provide appropriate documentation and test reports for each emission parameter mentioned above, following the indications of the Technical Appendix — A6.

Clay tiles

The emissions to air for the following parameters for the clay tiles firing stage shall not exceed:

Parameters	Hurdle (mg/m²)	Test Method
Particulate matter (Dust)	250	EN 13284
Fluorides (as HF)	200	ISO 15713
Nitrogen oxides (as NO _x)	3.000	EN 14792
Sulphur dioxides (SO ₂)	2.000	EN 14791

Assessment and verification: The applicant shall provide appropriate documentation and test reports for each emission parameter mentioned above, following the indications of the Technical Appendix — A6.

Terrazzo tiles and concrete paving units

The emissions to air for the following parameters for the whole manufacturing process shall not exceed:

Parameters	Hurdle (mg/m²)	Test Method
Particulate matter (Dust)	300	EN 13284
Nitrogen oxides (as NO _x)	2.000	EN 14792
Sulphur dioxides (SO ₂)	1.500	EN 14791

Assessment and verification: the applicant shall provide appropriate documentation and test reports for each emission parameter mentioned above, following the indications of the Technical Appendix — A6.

4.4. Emissions to water

After waste water treatment, whether on-site or off-site, the following parameters shall not exceed the following limits:

Parameter	Current Hurdle	Test methods
Suspended solid emission to water	40 mg/l	ISO 5667-17
Cd emission to water	0,015 mg/l	ISO 8288
Cr(VI) emission to water	0,15 mg/l	ISO 11083
Fe emission to water*	1,5 mg/l	ISO 6332
Pb emission to water	0,15 mg/l	ISO 8288

* The "Fe" parameter is applicable to all the processed products " with the exclusion of ceramic tiles".

Assessment and verification: the applicant shall provide appropriate documentation and test reports showing compliance with this criterion.

4.5. Cement

The use of raw materials for cement production shall be consistent with extraction management for processed products requirements (Criterion 1.2).

Those products that use cement in the production process shall provide the following information:

- cement included in any product shall be produced using not more than 3 800 MJ/t of process energy requirement (PER), calculated as explained in the Technical Appendix — A4,
- the cement included in any product shall be produced respecting the following air emission limits:

Parameter	Current Hurdle (g/t)	Test methods
Dust	65	EN 13284-1
SO ₂	350	EN 14791
NO _x	900	EN 14792

Assessment and verification: the applicant shall provide the relevant test reports and documentation related to the PER and the air emissions deriving from the cement production.

5 - WASTE MANAGEMENT

All plants involved in the production of the product shall have a system for handling the waste and residual products deriving from the production of the product. The system shall be documented and explained in the application form and shall at least include information on the following three items:

- procedures for separating and using recyclable materials from the waste stream,
- procedures for recycling materials for other uses,
- procedures for handling and disposing of hazardous waste.

Assessment and verification: The applicant shall provide appropriate documentation.

5.1. Waste management (for natural products only)

The applicant shall provide appropriate documentation about waste management deriving from quarrying and from finishing operation. Waste management and the re-use of by-products (sawing included) have to be declared.

Assessment and verification: the applicant shall provide a declaration of conformity with the requirement in accordance with the Directive 2006/21/CEE of 15/03/2006.

5.2. Recovery of waste (for processed products only)

The applicant shall provide an appropriate documentation on the procedures adopted for the recycle of the by-products originated from the process. The applicant shall provide a report including the following information:

- kind and quantity of waste recovered;
- kind of disposal;
- information about the reuse (internally or externally to the production process) of waste and secondary materials in the production of new products.

At least **85%** (by weight) of the total waste generated by the process or the processes¹⁰ shall be recovered according to the general terms and definitions established by Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste¹¹.

Assessment and verification: the applicant shall provide appropriate documentation based on, for example, mass balance sheets and/or environmental reporting systems showing the rates of recovery achieved whether externally or internally, for example, by means of recycling, re-use or reclamation/regeneration.

6 - USE PHASE

6.1. Radioactivity (for natural products only)



release from the final product shall not exceed the following hurdle:[mmo1]

Parameter	Hurdle	Reference
Iy	2	RP 112

Assessment and verification: the applicant shall provide a declaration of conformity with the limits imposed in the requirement, using the following calculation methods provided in the “Radiation protection 112” technical norm¹².

6.2. Release of dangerous substances (glazed tiles only)

In order to control the potential release of dangerous substances in the use phase and at the end of the glazed tile's life, the products shall be verified according to the EN ISO 10545-15 test. The following limits shall not be exceeded:

Parameter	Hurdle (mg/m ²)	Testing method
Pb	80	ISO 10545-15
Cd	7	ISO 10545-15

¹⁰ Process wastes does not include maintenance wastes, organic wastes and urban wastes produced by auxiliary and office activities.

¹¹ OJ L 78, 26.3.1991, p. 32.

¹² "Radiological protection principles concerning the natural radioactivity of building materials", 1999.

Assessment and verification: the applicant shall provide an analysis and test reports with regard to the emission parameters mentioned above. This shall include a declaration of conformity of the product with the requirements of Council Directive 89/106/EEC of 21 December 1988¹³ on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products and with relevant harmonised standards created by CEN once published in the Official Journal of the European Communities.

7 – PACKAGING [STILL UNDER DISCUSSION]

Paperboard used for the packaging of the final product should be multi-use systems or be made out of XX% recycled materials with a take back opportunity for recycling.

Plastics used for the packaging of the product shall be made of XX% recycled materials. They must comply with the Directive 2005/84/CE on phthalates¹⁴

Assessment and verification: a sample of the product packaging shall be provided together with a corresponding declaration of compliance with all the requirements. If plastics are used, an informative declaration about the correct disposal of the material shall be included within the packaging.

8 - FITNESS FOR USE

The product shall be fit for use. This evidence may include data from appropriate ISO, CEN or equivalent test methods, such as national or in-house test procedures.

An indication of the kind of use for which the product is fit for use has to be clearly specified: wall, floor or wall/floor if suitable for both purposes.

Assessment and verification: details of the test procedures and results shall be provided, together with a declaration that the product is fit for use based on all other information about the best application by the end-user. According to Directive 89/106/EEC a product is presumed to be fit for use if it conforms to a harmonised standard, a European technical approval or a non-harmonised technical specification recognised at Community level. The EC conformity mark ‘CE’ for construction products provides producers with an attestation of conformity easily recognisable and may be considered as sufficient in this context.

9. CONSUMER INFORMATION

The product shall be sold with relevant user information, which provides advice on the product's proper and best general and technical use as well as its maintenance. It shall bear the following information on the packaging and/or on documentation accompanying the product:

¹³ OJ L 40, 11.2.1989, p. 12.

¹⁴ Directive 2005/84/CE - “restrictions and use of certain dangerous substances and preparations (phthalates in toys and childcare articles)”

(a) information that the product has been awarded the EU Eco-label together with a brief yet specific explanation as to what this means in addition to the general information provided by box 2 of the logo;

(b) recommendations for the use and maintenance of the product. This information should highlight all relevant instructions particularly referring to the maintenance and use of products. As appropriate, reference should be made to the features of the product's use under difficult climatic or other conditions, for example, frost resistance/water absorption, stain resistance, resistance to chemicals, necessary preparation of the underlying surface, cleaning instructions and recommended types of cleaning agents and cleaning intervals. The information should also include any possible indication on the product's potential life expectancy in technical terms, either as an average or as a range value;

(c) an indication of the route of recycling or disposal (explanation in order to give the consumer information about the high possible performance of such a product);

(d) information on the EU Eco-label and its related product groups, including the following text (or equivalent): 'for more information visit the EU Eco-label website: <http://europa.eu.int/ecolabel>'.

Assessment and verification: the applicant shall provide a sample of the packaging and/or texts enclosed.

10. INFORMATION APPEARING ON THE ECO-LABEL

Box 2 of the Eco-label shall contain the following text:

Natural products:

- reduced impact of extraction on habitats and natural resources,
- limited emission from finishing operations,
- improved consumer information and waste management.

Processed products:

- — reduced energy consumption of production processes,
- — reduced emissions to air and water,
- — improved consumer information and waste management.

Assessment and verification: the applicant shall provide a sample of the packaging and/or texts enclosed.

TECHNICAL APPENDIX FOR HARD COVERINGS

The applicant shall provide all the required information calculated, measured or tested for the period immediately before the application. Measurements shall be representative for the respective series of testing and it should be consistent for all parts of the application as appropriate.

A1. RAW MATERIAL EXTRACTION — INDICATORS AND WEIGHTS DEFINITIONS

Confined waterbed

The expression ‘confined waterbed’ identifies an artesian waterbed.

Average flow of the surface water-bodies

The average flow of the watercourse that interferes with the quarry shall be calculated taking into account the authorised area of the considered quarry. The calculation shall be made multiplying the section of the water body by the velocity of the water. The values shall be representative of at least 12 months.

Indicator description

I.1. Water recycling ratio

See A3.

I.2. Rehabilitation simultaneity degree

The calculation of I.2 consists of the measurement of the compromised area, which includes quarry front and active dump areas, and of the authorised area. These areas should be measured during operating activities.

I.3. Materials recovery

The calculation of I.3 consists of the evaluation of commercial material and of the total volume excavated yearly. Commercial material refers to the basis of utilisable stone consisting of the block, the shapeless pieces, the rock and everything that is sold by the quarry and is not designated to landfills.

I.4. Natural resource appreciation

The calculation of I.4 consists of the evaluation of the usable material and of the total volume extracted yearly. Usable material refers to all the volume which **can be used in any process**: for example commercial blocks, aggregate materials, everything else suitable for further processing and use **and for dumps**.

I.5. Working conditions of operating equipment

The calculation of I.5 consists of the evaluation of the total number of hours worked by a machine for productive activities and its division by the yearly production (m³) of usable material. Usable material refers to all the volume which is not destined to dumps: for example commercial blocks, aggregate materials and everything else suitable for further appreciation. If more than one excavator or wheel loader is present in the quarry, the highest number of worked hours shall be taken into consideration.

I.6. Air quality

This indicator is described in Council Directive 1999/30/EC of 22 April 1999 relating to limit values for sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter and lead in ambient air¹⁵. The calculation of I.6 consists of the measurement, along the border of quarry area, of PM 10 suspended particles based on the specific requirements of the test method and the general provisions of the Council Directive (PM 10 are defined in Article 2(11)). The test method is defined in EN 12341.

I.7. Water quality

This indicator considers the total emissions of suspended solids after treatment on surface water flowing out of the quarry site. The calculation of I.7 consists of the measurement of total suspended solids using the test method reported in ISO 5667-17.

I.8. Noise

This indicator considers the noise level recorded along the border of the quarry area. Non impulsive noises are to be measured. The calculation of I.8 consists in the measurement of the noise using the test method reported in ISO 1996-1.

¹⁵ OJ L 163, 29.6.1999, p. 41.

Weight description

W2. Soil protection/land capability classification

According to the European Soil Bureau's indication, land is graded on the basis of its potentialities and the severity of its

limitations for crop growth into eight capability classes. An indicative description of the classes is as follows:

- Class I soils have slight limitations that restrict their use,
- Class II soils have moderate limitations that reduce the choice of plants or require moderate conservation practices,
- Class III soils have severe limitations that reduce the choice of plants or require special conservation practices, or both,
- Class IV soils have very severe limitations that restrict the choice of plants or require very careful management, or both,
- Class V soils have little or no hazard of erosion but have other limitations, impractical to remove, that limit their use mainly to pasture, range, forestland, or wildlife food and cover,
- Class VI soils have severe limitations that make them generally unsuited to cultivation and that limit their use mainly to pasture, range, forestland, or wildlife food and cover,
- Class VII soils have very severe limitations that make them unsuited to cultivation and that restrict their use mainly to grazing, forestland, or wildlife,
- Class VIII soils and miscellaneous areas have limitations that preclude their use for commercial plant production and limit their use to recreation, wildlife, or water supply or for aesthetic purposes.

A2. RAW MATERIALS SELECTION

“Closed loop recycling” means recycling a waste product into the same product; for “Secondary material” arising from a manufacturing process (such as leftovers or remnants), "closed loop recycling" means that the materials are used again in the same process.

A3. WATER RECYCLING RATIO

The calculation of the water recycling ratio shall be consistent with the following formula based on the flows highlighted in Figure A2.

$$\text{Recycling ratio} = \frac{\text{Waste water recycled}}{\text{Total water exits the process}} \cdot 100 = \frac{R}{W1} \cdot 100$$

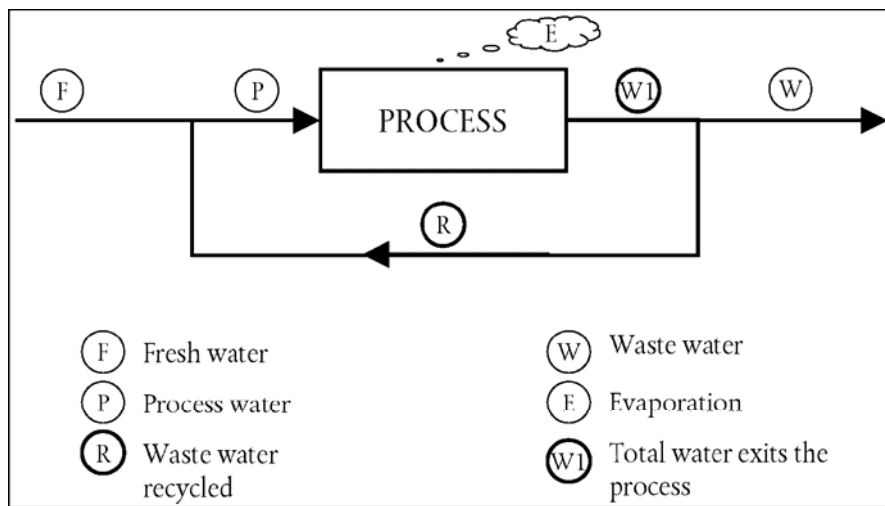


Figure A2: Water flow scheme that shall be used to calculate Water Recycling Ratio¹⁶

For waste water is meant only the water used in processing plants, not comprehensive of the fresh water coming from rain and subsoil water.

A4. ENERGY CONSUMPTION CALCULATION (PER, ERF)

When providing a calculation of process energy requirement (PER) or energy requirement for firing (ERF), the correct energy carriers shall be taken into account for the entire plant or for the firing stage only. Gross calorific values (high heat value) of fuels shall be used to convert energy units to MJ (Table A1). In case of use of other fuels, the calorific value used for the calculation shall be mentioned. Electricity means net imported electricity coming from the grid and internal generation of electricity measured as electric power.

Evaluation of PER for agglomerated stone production shall consider all energy flows entering the production plant both as fuels and electricity.

¹⁶ W means the waste water discharged into the environment.

Evaluation of PER for terrazzo tiles production must consider all energy flows entering the production plant both as fuels and electricity.

Evaluation of ERF for ceramic tile production shall consider all energy flows entering all the kilns as fuels for the firing stage.

Evaluation of ERF for clay tile production shall consider all energy flows entering all the kilns as fuels for the firing stage.

Evaluation of PER for cement production shall consider all energy flows entering the production system both as fuels and electricity.

Table A1: Table for calculation of PER or ERF (see text for explanations)

Production period	Days	From	To	
*Production (kg)				
Fuel	Quantity	Units	Conversion factor	Energy (MJ)
Natural gas		kg	54,1	
Natural gas		Nm ³	38,8	
Butane		kg	49,3	
Kerosene		kg	46,5	
Gasoline		kg	52,7	
Diesel		kg	44,6	
Gas oil		kg	45,2	
Heavy Fuel oil		kg	42,7	
Dry Steam Coal		kg	30,6	
Anthracite		kg	29,7	
Charcoal		kg	33,7	
Industrial Coke		kg	27,9	
Electricity (from net)		kWh	3,6	
Total energy				
Specific energy consumption (MJ/*kg of product)				

A5. WATER CONSUMPTION CALCULATION

The Fresh Water Specific Consumption shall be calculated as follows:

$$CW_{p-a} = (W_p + W_a) / P_t$$

CW_{p-a} = Fresh Water Specific Consumption. The results are expressed in **m³/tonnes**, equivalent to **l/kg**;

P_t = total stored production in **tonnes**;

W_p = water from wells and intended for exclusive use industrial (excluding water from wells for domestic use, irrigation and any other non-industrial use), in **m³**;

W_a = water from aqueduct and intended for exclusive use industrial (excluding water from wells for domestic use, irrigation and any other non-industrial use) in **m³**;

The system boundaries are intended from raw materials to firing operation”.

A6. EMISSIONS TO AIR (FOR PROCESSED PRODUCTS ONLY)

The air pollutant emission factors shall be calculated as follows:

1. the concentration in the exhaust gas emitted to the environment of each parameter considered in the tables shall be calculated;
2. the measurements used for the calculation must be made following the testing methods indicated in the tables;
3. the samplings shall be representative of the considered production.

WOOD AND PLANT BASED FLOOR COVERINGS

CRITERIA

1. RAW MATERIALS

All cork, bamboo and virgin wood must originate from forests that are managed, to implement the principles and measures aimed at certifying sustainable forest management.

1.1 Sustainable forest management

At least 50% of the bamboo and virgin wood from forests must originate from sustainable managed forests, certified by independent third party forest certification schemes, fulfilling the criteria listed in paragraph 15 of the Council Resolution of 15 December 1998 on the Forestry Strategy for the EU and further development.

Cork, bamboo and virgin wood from forests that are not certified as being sustainably managed forests shall not originate from:

- disputed land-rights or primary old growth forests
- Illegal harvesting
Illegally harvested wood: wood that is harvested, traded or transported in a way that is in breach with applicable national regulations and international treaties (such regulations can for example address CITES species, money laundering, corruption and bribery¹⁷, and other relevant national regulations).
- Genetically modified trees
Wood from genetically modified trees: which have been induced by various means to consist of genetic structural changes (for a definition of genetically modified, please refer to Directive 2001/18/EC on the deliberate release of genetically modified organisms in the environment). Please note that this does not exclude traditional tree breeding programmes, since these are not considered to be part of the techniques of genetic modification.
- Uncertified high conservation value forests
High Conservation Value Forests are forests that possess one or more of the following attributes:
 - a. forest areas containing globally, regionally or nationally significant concentrations of biodiversity values (e.g. endemism, endangered species, refugia); and/or large landscape level forests, contained within, or containing

¹⁷ These are the topics addressed in the Commission communication on an EU Action plan on FLEGT.

the management unit, where viable populations of most if not all naturally occurring species exist in natural patterns of distribution and abundance

- b. forest areas that are in or contain rare, threatened or endangered ecosystems
- c. forest areas that provide basic services of nature in critical situations (e.g. watershed protection, erosion control)
- d. forest areas fundamental to meeting basic needs of local communities (e.g. subsistence, health) and/or critical to local communities' traditional cultural identity (areas of cultural, ecological, economic or religious significance identified in cooperation with such local communities)

Assessment and verification: The applicant shall indicate types, quantities and origins of the wood used in the eco-labelled product. The origin of cork, bamboo and solid wood shall be indicated with sufficient precision to allow checks, where appropriate.

- *For cork, bamboo and solid wood from certified sustainably managed forests, the control of a chain of custody is required as a proof of supply of sustainable forestry resources. The manufacturer shall provide evidences of commitment to a credible certificate of chain of custody: (traceability procedure, letter of application for membership at one of systems, letter of control chain request with third part audit).*
- *For cork, bamboo and solid wood from uncertified sustainably managed forests, the applicant and/or the supplier shall indicate the species, quantity and origin of the timber used. The origin shall be indicated with sufficient precision to allow checks to be carried out that the timber is from well-managed forests. The appropriate declarations, charter, code of conduct or statement, verifying that the requirements of criterion 1.1. are met, shall be made available for checking. References to appendix (from existing forestry certification schemes) stipulating implementation of requirements from the avoidance of the procurement of raw material from controversial sources shall be brought.*

1.2 Recycled wood and plant materials (only for laminate flooring)

At least 70% of the total weight of dry raw materials used for the panel board production shall be woodchip¹⁸ or recycled wood and plant secondary materials.

The **total amount of the** recycled material shall comply with the limits indicated in table below:

¹⁸ Processed post-consumer wood pieces formed by shredding, crushing, hammering or chopping.

Elements and compounds	Limit values (mg/kg of total dry panel)
Arsenic	25
Cadmium	50
Chromium	25
Copper	40
Lead	90
Mercury	25
Fluorine	100
Chlorine	1000
Pentachlorophenol (PCP)	5
Tar oils (benzo(a)pyrene)	0,5

Assessment and verification: A declaration shall be provided that recycled wood or plant materials is used in the production of laminates **indicating, also, the percentage**. In addition, test results shall be provided to verify compliance with limit values as laid down in text. **If it can be proved that the substances indicated have not been used in any previous preparation or treatment, the application of test to demonstrate compliance with this requirement can be avoided.**

1.3 Recycled cork (only for cork floorings)

At least 25% of the total weight of dry cork used for the coverings production shall be recycled¹⁹.

Assessment and verification: A declaration shall be provided that recycled cork material is used in the covering production and the requirement conformity.

2. USE OF DANGEROUS SUBSTANCES

2.1 Dangerous substances for the raw wood and plant treatments

Preservatives and biocides, shall not be used for preserving timber.

¹⁹“recycled cork” means all the secondary material coming from other uses; the manufacturing scraps can be considered as recycled material.

Assessment and verification: a declaration non use shall be provided.

2.2 Dangerous substances in the transformation processes

DELETED (a) Substances used for wood and plant preservation in the production process should comply with the Directive 98/8/CE of 16 February 1998 concerning the placing of biocide products on the market.

Assessment and verification: a declaration of conformity with the EU Directive 98/8/CE shall be provided.

THE FOLLOWING POINTS ARE UNDER DISCUSSION BY ISC

(a) Cork, Bamboo and Wood used in wood and plant based materials shall not be treated with substances or preparation that are classified as carcinogenic (R40, R45, R49), harmful to the reproductive system (R60, R61, R62, R63), mutagenic (R46, R68), toxic (R23, 24 , R25, R26, R27, R28), allergenic (R42, R43) or harmful to the environment (R50, R50/R53, R51/R53, R52, R52/R53, R53), as laid down in Directives 67/548/EEC, 1999/45/EC and their amendments.

(b) Chlorinated/brominated paraffins, halogenated organic flame retardants, organic tin compounds, phthalates and fluorinated compounds must not be actively added to the floor covering.

Cadmium (Cd), lead (Pb), chrome(VI) and mercury (Hg) must not be applied to the floor covering materials.

Only the flame retardants for which a registration number has been provided by the ECHA, in compliance with the REACH (REGULATION (EC) No 1907/2006)²⁰, shall be allowed.

Until the registration is possible, suppliers of flame retardants shall declare the availability of information required to constitute the REACH registration dossier (in compliance with the Annexes V and VII to X of the REACH regulation) and which contains evidence that no classification for any of the risk phrases listed at the point (a) may occur.

(c) The content of free formaldehyde in products or preparations used in the panels shall not exceed 0.3% by weight.

The content of free formaldehyde in binding agents, adhesives, and glues for plywood panels or laminated wood panels shall not exceed 0.5% by weight.

Assessment and verification: the applicant shall provide appropriate declarations verifying that the above requirements (b), (c) and (d) are respected. For the chemical products used in the production

²⁰ OJ L 396 30.12.2006 p. 1

a SDS or equivalent documentation shall be presented containing information on health hazard classification.

2.3 Dangerous substances in the coating and surface treatments

Generic requirements

Chemical substances classified as harmful for the environment by the chemical manufacturer/supplier in accordance with EU classification system (28th Amendment to Directive 67/548/EEC) shall comply with the 2 following limits:

1. Chemical substances classified as harmful for the environment in accordance with the Directive 1999/45/EG must not be added to substances and preparations for surface treatment. Nevertheless the products may contain up to 5 % volatile organic compounds (VOC) as defined in the Directive 1999/13/EC (VOC shall mean any organic compound having at 293,15 K a vapour pressure of 0,01 kPa or more, or having a corresponding volatility under the particular conditions of use.). If the product requires dilution, the contents of the diluted product must not exceed the abovementioned threshold values.
2. The applied quantity (wet paint/varnish) of environmentally harmful substances shall not exceed 14 g/m² surface area and applied quantity (wet paint/varnish) of VOC shall not exceed 35 g/m².

Assessment and verification: The applicant shall provide a declaration of compliance with this criterion, together with documents to support this declaration, including:

- a complete recipe with designation of quantities and CAS numbers for constituent substances;
- the test method and test results for all substances present in the product, according to the Directive 67/548/EEC;
- a declaration stating that all constituent substances have been disclosed;
- number of coats and quantity applied per coat per square meter of surface.

The following standard degrees of effectiveness are used for the purpose of calculating the consumption of surface treatment product and of the applied quantity: Spraying device without recycling 50%, spraying device with recycling 70%, electrostatic spraying 65%, spraying, bell/disk 80%, roller coating 95%, blanket coating 95%, vacuum coating 95%, dipping 95%, rinsing 95%.

Adhesives

They must comply with the general requirements defined in § 2.2 (b),(c),(d).

Assessment and verification: the applicant shall provide appropriate declarations verifying that the above requirements are met. For each chemical product used in the assembly of furniture, a SDS or equivalent documentation shall be presented containing information on health hazard classification. Test reports or a declaration from the supplier shall be provided for the free formaldehyde content.

The VOC content of adhesives used in the assembly of the product shall not exceed 10% by weight (w/w).

Assessment and verification: a declaration shall be provided by the applicant indicating all adhesives used in the assembly the product, as well as the compliance with this criterion.

Formaldehyde

Formaldehyde emissions from substances and preparations for surface treatment liberating formaldehyde shall be less than **0.05 ppm**.

Assessment and verification: the applicant and/or its supplier shall provide the Material Safety Data Sheet or an equivalent declaration for the compliance of this requirement, together with information on the formulation of the surface treatment.

3. PRODUCTION PROCESS

3.1 Energy Consumption

The energy consumption shall be calculated as the process energy used for the production of the coverings.

The process energy, calculated as indicated in the Technical Appendix – A1, shall exceed the following limits (P= scoring point):

Product Family	Hurdle (P _[MSOffice2])
Wood floor and Bamboo coverings _[mmo3]	7
Laminate floor coverings	9
Cork coverings	5,5

Assessment and verification: the applicant shall calculate the Energy consumption of the production process according to the Technical Appendix — A1 instructions providing the related results and supporting documentation.

3.2 Emissions to air **DELETED**

Wood and Plant based products dust

The wood and plant based product dust emissions present in the exhaust air released by wood-machining equipment shall be less than or equal to 10 mg/m³ and less than or equal to 50 mg/m³ in the exhaust air released by splints or fibre dryers.

Assessment and verification: the applicant and/or its supplier shall provide a declaration that the above requirement is met, together with information on the formulation of the surface treatment (test method EN 13284).

3.2 Waste management

The applicant shall provide an appropriate documentation on the procedures adopted for the recovery of the by-products originated from the process. The applicant shall provide a report including the following information:

- kind and quantity of waste recovered;
- kind of disposal;
- information about the reuse (internally or externally to the production process) of waste and secondary materials in the production of new products.

Assessment and verification: the applicant shall provide appropriate documentation based on, for example, mass balance sheets and/or environmental reporting systems showing the rates of recovery achieved whether externally or internally, for example, by means of recycling, re-use or reclamation/regeneration.

4. USE PHASE

4.1 Release of dangerous substances

Formaldehyde release

The release of formaldehyde from the panels of cork, bamboo or wood fibres constituting the covering shall not exceed 0.05 ppm.

Assessment and verification: the applicant shall provide appropriate documentation based on test following the chamber method according to EN 717-1 method.

Volatile Organic Compounds (VOC)

The finished products must not exceed the following emission values:

Substance		Requirement
Volatile Organic Compounds (VOC)	Boiling point 50-250 °C	0,3 mg/m ³ air
	Boiling point > 250 °C	0,1 mg/m ³ air

Assessment and verification: The applicant shall present a test certificate according to emission tests ENV 13419 or prEN 15052 or DIN ISO 16006-6.

5. PACKAGING **STILL UNDER DISCUSSION**

Paperboard used for the packaging of the final product should be multi-use systems or be made out of XX% recycled materials with a take back opportunity for recycling.

Plastics used for the packaging of the product shall be made of XX% recycled materials. They must comply with the REACH Regulation and with the Directive 2005/84/CE on phthalates²¹.

Assessment and verification: a sample of the product packaging shall be provided on application, together with a corresponding declaration of compliance with all the requirements. If plastics are used, an informative declaration about the correct disposal of the material shall be included on the packaging itself.

6. FITNESS FOR USE

The product shall be fit for use. This evidence may include data from appropriate ISO, CEN or equivalent test methods, such as national procedures.

Assessment and verification: details of the test procedures and results shall be provided, together with a declaration that the product is fit for use based on all other information about the best application by the end-user. According to Directive 89/106/EEC a product is presumed to be fit for use if it conforms to a harmonised standard, a European technical approval or a non-harmonised technical specification recognised at Community level. The EC conformity mark ‘CE’ for construction products provides producers with an attestation of conformity easily recognisable and may be considered as sufficient in this context.

7. DURABILITY AND SAFETY **DELETED**

The product shall fulfil the requirements on durability, strength, safety and stability in applicable EN or ISO standards. If no EN or ISO standard exists, specific standards for the products can be used or, in alternative, an evaluation of the product’s durability, strength, safety and stability on the basis of the design and choice of materials shall be performed by an independent test institution.

The user manual will provide the list of norms and standards that shall be used for the durability assessment.

Assessment and verification: The applicant shall provide a declaration completed with documentation on the test methods performed by the accredited institution and the test results. The standard life duration of the product should be indicated in the packaging for consumers information.

²¹ Directive 2005/84/CE - “restrictions and use of certain dangerous substances and preparations (phthalates in toys and childcare articles)”

7. CONSUMER INFORMATION

The product shall be sold with relevant user information, which provides advice on the product's proper and best general and technical use as well as its maintenance. It shall bear the following information on the packaging and/or on documentation accompanying the product:

- (a) information that the product has been awarded the EU Eco-label together with a brief yet specific explanation as to what this means in addition to the general information provided by box 2 of the logo;
- (b) recommendations for the use and maintenance of the product. This information should highlight all relevant instructions particularly referring to the maintenance and use of products. As appropriate, reference should be made to the features of the product's use under difficult climatic or other conditions, for example, frost resistance/water absorption, stain resistance, resistance to chemicals, necessary preparation of the underlying surface, cleaning instructions and recommended types of cleaning agents and cleaning intervals. **The information should also include any possible indication on the product's potential life expectancy in technical terms, either as an average or as a range value;**
- (c) an indication of the route of recycling or disposal (explanation in order to give the consumer information about the high possible performance of such a product);
- (d) information on the EU Eco-label and its related product groups, including the following text (or equivalent): 'for more information visit the EU Eco-label website: <http://europa.eu.int/ecolabel>'.

Assessment and verification: the applicant shall provide a sample of the packaging and/or texts enclosed.

8. INFORMATION APPEARING ON THE ECOLABEL

[STILL UNDER DISCUSSION]

Box 2 of the Ecolabel shall contain the following text:

- sustainable managed forests and reduced impact on habitats;
- hazardous substance restricted;
- production process energy saving;
- no risk to health in the living environment;

TECHNICAL APPENDIX

WOOD AND PLANT BASED COVERINGS

A1. ENERGY CONSUMPTION CALCULATION

Energy consumption is calculated as an annual average of the energy consumed during the production process (excluding premises heating) from the raw material in bulk to the finished **covering**. This means, for example, that the energy calculation for wood and plant based products shall be measured from the input of the raw material into the factory until the finishing operations, packaging included.

The calculation shall not include the energy content of the raw material (nda: feedstock energy).

The energy required to manufacture adhesives and varnish or coatings shall not be included in the calculations.

The unit chosen for the calculations is the **MJ/m²**.

Electricity consumption refers to electricity purchased from an external supplier.

If the producer has an energy surplus that is sold as electricity, steam or heat, the sold quantity can be deducted from the fuel consumption. Only the fuel that is actually used in floor covering production shall be included in the calculations.

Solid Wood floor and Bamboo coverings

Environmental parameter
A = Wood from certified, sustainable forest (%)
B = Proportion of renewable fuels (%)
C = Electricity consumption (MJ/m ²)
D = Fuel consumption (MJ/m ²)

$$P = \frac{A}{25} + \frac{B}{25} + (4 - 0,72 \times C) + (4 - 0,3 \times D)$$

Laminates flooring

Environmental parameter
A = Cork, Bamboo or Wood from certified, sustainable forest (%)
B = Proportion of recycled wood raw materials (%)
C = Proportion of renewable fuels (%)
D = Electricity consumption (MJ/m ²)
E = Fuel consumption (MJ/m ²)

$$P = \frac{A}{25} + \frac{B}{25} + \frac{C}{25} + (4 - 0,72 \times D) + (4 - 0,3 \times E)$$

Cork coverings

Environmental parameter
A = Proportion of recycled cork (%)
B = Proportion of renewable fuels (%)
C = Electricity consumption (MJ/m ²)
D = Fuel consumption (MJ/m ²)

$$P = \frac{A}{25} + \frac{B}{25} + (4 - 0,72 \times C) + (4 - 0,3 \times D)$$

The energy contents of various fuels are provided in the following table.

Table A1: Table for calculating fuel consumption.

Production period (1 year)	Days	From	To	
Fuel	Quantity	Units	Conversion factor	Energy (MJ)
Straw (15% W)		kg	14,5	
Pellets (7% W)		kg	17,5	
Waste wood (20% W)		kg	14,7	
Wood chips (45% W)		kg	9,4	
Peat		kg	20	
Natural gas		kg	54,1	
Natural gas		Nm ³	38,8	
Butane		kg	49,3	
Kerosene		kg	46,5	
Gasoline		kg	52,7	
Diesel		kg	44,6	
Gas oil		kg	45,2	
Heavy Fuel oil		kg	42,7	
Dry Steam Coal		kg	30,6	
Anthracite		kg	29,7	
Charcoal		kg	33,7	
Industrial Coke		kg	27,9	
Electricity (from net)		kWh	3,6	
Total energy (MJ)				

TEXTILE FLOOR COVERINGS

CRITERIA

1. RAW MATERIALS

Generic materials requirements

The materials used for the manufacture of the product shall not contain substances or preparation that are assigned, or may be assigned at the time of application, any of the following risk phrases (or combinations thereof):

- R40 (limited evidence of a carcinogenic effect);
- R45 (may cause cancer);
- R46 (may cause heritable genetic damage);
- R49 (may cause cancer by inhalation);
- R50 (very toxic to aquatic organisms);
- R51 (toxic to aquatic organisms);
- R52 (harmful to aquatic organisms);
- R53 (may cause long-term adverse effects in the aquatic environment);
- R54 (Toxic to flora);
- R55 (Toxic to fauna);
- R56 (Toxic to soil organisms);
- R57 (Toxic to bees);
- R58 (May cause long-term adverse effects in the environment);
- R59 (Dangerous for the ozone layer);
- R60 (may impair fertility);
- R61 (may cause harm to the unborn child);
- R62 (possible risk of impaired fertility);
- R63 (Possible risk of harm to the unborn child);
- R68 (Possible risk of irreversible effects);

as laid down in Directives 67/548/EEC, 1999/45/EC and their amendments.

Assessment and verification: in terms of chemical analysis, the materials typology and formulation shall be provided by the applicant together with a declaration of compliance with the abovementioned criteria.

1.1 Textile fibres – composition [DELETED]

- (a) At least 20% of the total weight of the floor covering must be composed of renewable raw materials.
- (b) At least 10% of the total weight of the **synthetic textile floor coverings** must be composed of recycled raw material.

Assessment and verification: a detailed description of the product and the materials from which the floor covering is made, with the specification of their proportions (% by weight) shall be provided by the applicant. For “renewable raw materials” are meant those materials *“that are derived from biological materials that are continually reproduced in nature”*. For “recycled fibres” shall mean *“fibres originating only from cuttings from textile and clothing manufacturers or from post-consumer waste (textile or otherwise)”*.

1.1 Textile fibres - chemical substances

If the origin of the fibres are recycled²² the criteria set in this section does not apply. With regard to the presence of dangerous substances, the requirements described in criteria 1” *Generic material requirements*” shall be applied.

Specific-fibre- criteria are set in this section for wool, polyamide, polyester, polypropylene.

Wool treatments

- (a) The total sum content of the following substances shall not exceed 0,5 ppm:

Substance	CAS no
γ -hexachlorocyclohexane (lindane)	319-84-6
α -hexachlorocyclohexane	319-85-7
β -hexachlorocyclohexane	58-89-9
δ -hexachlorocyclohexane	319-86-8
aldrin	309-00-2
dieldrin	60-57-1

²² "Recycled fibres are defined as originating from closed loop recycling". “Close loop recycling” is defined as “recycling a waste product into the same product. For secondary material arising from a manufacturing process (such as leftovers or remnants), "closed loop recycling" means that the materials are used again in the same process”.

endrin	72-20-8
p,p'-DDT	50-29-3
p,p'-DDD	72-54-8

(b) The total sum content of the following substances shall not exceed **2 ppm**:

Substance	CAS no
Propetamphos	31218-83-4
Diazinon	333-41-5
Dichlofenthion	97-17-6
Fenclorphos	299-84-3
Chlorpyriphos	2921-88-2
Chlorfenvinphos	470-90-6

(c) The total sum content of the following substances shall not exceed **0,5 ppm**:

Substance	CAS no
Cyhalothrin	68085-85-8
Cybermethrin	52315-07-8
Deltamethrin	52918-63-5
Fenvalerate	51630-58-1
Flumethrin	69770-45-2

(d) The total sum content of the following substances shall not exceed 2 ppm:

Substance	CAS no
Diflubenzuron	35367-38-5
Triflumuron	64628-44-0
Dicyclanil	112636-83-6
Cyromazine	66215-27-8

These requirements (as detailed in (a), (b), (c) and (d) and taken separately) do not apply if documentary evidence can be presented that establishes the identity of the farmers producing at least 75% of the wool or keratin fibres in question, together with a declaration from these farmers that the substances listed above have not been applied to the fields or animals concerned.

Assessment and verification: the applicant shall either provide the documentation indicated above or provide a test report, using the following test method: IWTO Draft Test Method 59. **If the textile materials used are awarded with the Ecolabel scheme for the textile products, the requirements are satisfied. The applicant shall provide only the appropriate documentation.**

Polyamide fibres

The emissions to air of N₂O during monomer production, expressed as an annual average, shall not exceed 10 g/kg of finished polyamide-6 fibres produced or 50 g/kg of polyamide-6,6 produced.

Assessment and verification: the applicant shall provide detailed documentation and/or test reports showing compliance with this criterion, together with a declaration of compliance. **If the textile materials used are awarded with the Ecolabel scheme for the textile products, the requirements are satisfied. The applicant shall provide only the appropriate documentation.**

Polyester

The amount of antimony in the polyester fibres shall not exceed 260 ppm. Where no antimony is used, the applicant may state ‘antimony free’ (or equivalent text) in the eco-labelled product.

Assessment and verification: the applicant shall either provide a declaration of non-use or a test report using the following test method: direct determination by Atomic Absorption Spectrometry. The test shall be carried out on the raw fibre prior to any wet processing. **If the textile materials used are awarded with the Ecolabel scheme for the textile products, the requirements are satisfied. The applicant shall provide only the appropriate documentation.**

Polypropylene

(a) Lead-based pigments shall not be used.

Assessment and verification: the applicant shall provide a declaration of non-use.

(b) Emissions of NO_x and SO₂ from the production of PP (monomer production, polymerisation and granulation) must not exceed the following limits:

NO_x: 12 kg/ton PP

SO₂: 11 kg/ton PP

Assessment and verification : the fibre manufacturer must measure or calculate the quantities of NO_x and SO₂ emitted during PP production and provide a declaration of compliance with the criterion. **If the textile materials used are awarded with the Ecolabel scheme for the textile products, the requirements are satisfied. The applicant shall provide only the appropriate documentation.**

1.2 Backing agents

With regard to the presence of dangerous substances, the requirements described in criteria I "Generic material requirements" shall be applied.

Foam rubber (natural and synthetic latex and polyurethane)

Note: The following criteria needs to be met only if latex foam contributes to more than 5 % of the total weight of the carpet.

(a) **Extractable heavy metals:** the concentrations of the following metals shall not exceed the following values:

Substance	Hurdle value (ppm)
antimony	0,5
arsenic	0,5
lead	0,5
cadmium	0,1
chromium	1,0
cobalt	0,5
copper	2,0
nickel	1,0
mercury	0,02

Assessment and verification: The applicant shall provide a test report, using the following test method: Milled sample extracted according to DIN 38414-S4, L/S=10. Filtration with 0,45 µm membrane filter. Analysis by means of atomic emission spectroscopy with inductive coupled plasma (ICP-AES) or with hybrid or cold vapour technique.

(b) **Formaldehyde:** The concentration of formaldehyde shall not exceed 30 ppm as measured with EN ISO 14184-1. Alternatively it shall not exceed 0,01 mg/m³ as measured with the chamber test.

Assessment and verification: The applicant shall provide a test report, using the following test method: EN ISO 14184-1. Sample of 1 g with 100 g water heated to 40 °C for 1 hour. Formaldehyde in extract analysed with acetylacetone, photometric.

Alternatively, the emission chamber test may be used: ENV 13419-1, with EN ISO 16000-3 or VDI 3484-1 for air sampling and analysis.

(c) **Volatile organic compounds**²³ (VOCs): The concentration of VOCs shall not exceed 0,5 mg/m³.

Assessment and verification: The applicant shall provide a test report, using the following test method: chamber test with DIN ISO 16000-6 for air sampling and analysis.

(e) **Metal complex dyes:** Metal complex dyes based on copper, lead, chromium or nickel shall not be used.

Assessment and verification: The applicant shall provide a declaration of non-use.

(f) **Chlorophenols:** No chlorophenol (salts and esters) shall be present in concentrations exceeding 0,1 ppm, except mono- and di-chlorinated phenols (salts and esters) which shall not exceed 1 ppm.

Assessment and verification: The applicant shall provide a test report, using the following test method: Milling of 5 g sample, extraction of the chlorophenol or sodium salt. Analysis by means of gas chromatography (GC), detection with mass spectrometer or ECD.

(g) **Butadiene:** The concentration of butadiene shall not exceed 1 ppm.

Assessment and verification: The applicant shall provide a test report, using the following test method: Milling and weighing of sample. Sampling by headspace sampler. Analysis by gas chromatography, detection by flame-ionisation detector.

(h) **Nitrosamines:** The concentration of N-nitrosamines shall not exceed 0,001 mg/m³ as measured with the chamber test.

Assessment and verification: The applicant shall provide a test report, using the following test method: the chamber test with Hauptverband der gewerblichen Berufsgenossenschaften ZH 1/120.23 (or equivalent) for air sampling and analysis.

Foam rubber (only for polyurethane)

(a) **Organic tin:** Tin in organic form (tin bonded to a carbon atom) shall not be used.

Assessment and verification: The applicant shall provide a declaration of non-use.

²³ VOCs are any organic compound having at 293,15 K a vapour pressure of 0,01 kPa or more, or having a corresponding volatility under the particular conditions of use

(b) **Blowing agents:** CFCs, HCFCs, HFCs or methylene chloride shall not be used as blowing agents or as auxiliary blowing agents. The use of methylene chloride as an auxiliary blowing agent is nevertheless allowed in conjunction with the application of powdered flame retardants.

Assessment and verification: The applicant shall provide a declaration that these blowing agents have not been used.

Where methylene chloride has been used, that applicant shall declare that this has only been in conjunction with the application of powdered flame retardants, and provide corresponding details.

Vulcanized foams

Vulcanized foams shall not be used for back coating.

Assessment and verification: the applicant shall provide a declaration of non use.

2. PRODUCTION

With regard to the presence of dangerous substances, the requirements described in criteria *I* "Generic material requirements" shall be applied.

The applicant shall also comply with the following specific requirements:

Flame retardants [UNDER DISCUSSION BY ISC]

Halogenated or brominated flame retardants will not be used.

Only the flame retardants for which a registration number has been provided by the ECHA, in compliance with the REACH (REGULATION (EC) No 1907/2006)²⁴, shall be allowed.

Until the registration is possible, suppliers of flame retardants shall declare the availability of information required to constitute the REACH registration dossier (in compliance with the Annexes V and VII to X of the REACH regulation) and which contains evidence that no classification for any of the risk phrases listed at the point (a) may occur.

²⁴ OJ L 396 30.12.2006 p. 1

Assessment and verification: The applicant shall either provide a declaration that flame retardants have not been used, or indicate which flame retardants have been used and provide documentation (such as SDS) and/or declarations indicating that those flame retardants comply with this criterion.

Plasticizers

If any plasticizer substance in the manufacturing process is applied, it cannot contain phthalates.

Assessment and verification: the applicant shall provide a declaration of non-use. No more than 0.1% of phthalate in mass shall be present as impurities in the textile floor covering, as defined in Directive 2005/84/EC.

2.1 Auxiliaries

Alkylphenoethoxylates (APEOs), linear alkylbenzene sulfonates (LAS), bis(hydrogenated tallow alkyl) dimethyl ammonium chloride (DTDMAC), distearyl dimethyl ammonium chloride (DSDMAC), di(hardened tallow) dimethyl ammonium chloride (DHTDMAC), ethylene diamine tetra acetate (EDTA), and diethylene triamine penta acetate (DTPA) shall not be used and shall not be part of any preparations or formulations used.

Assessment and verification: the applicant shall provide a declaration of non-use.

2.2 Dyes and pigments

Azo dyes

According to Directive 2002/61/EC: the use of Azo dyes, which potentially cleave one of the aromatic amines listed below, is not permitted:

4-aminobiphenyl	(92-67-1),
benzidine	(92-87-5),
4-chloro-o-toluidine	(95-69-2),
2-naphthylamine	(91-59-8),
o-aminoazotoluene	(97-56-3),
2-amino-4-nitrotoluene	(99-55-8),
p-chloroaniline	(106-47-8),
2,4-diaminoanisole	(615-05-4),
4,4'-diaminodiphenylmethane	(101-77-9),
3,3'-dichlorobenzidine	(91-94-1),
3,3'-dimethoxybenzidine	(119-90-4),
3,3'-dimethylbenzidine	(119-93-7),

<i>3,3'-dimethyl-4,4'-diaminodiphenylmethane</i>	(838-88-0),
<i>p-cresidine</i>	(120-71-8),
<i>4,4'-methylene-bis-(2-chloroaniline)</i>	(101-14-4),
<i>4,4'-oxydianiline</i>	(101-80-4),
<i>4,4'-thiodianiline</i>	(139-65-1),
<i>o-toluidine</i>	(95-53-4),
<i>2,4-diaminotoluene</i>	(95-80-7),
<i>2,4,5-trimethylaniline</i>	(137-17-7),
<i>4-aminoazobenzene</i>	(60-09-3),
<i>o-anisidine</i>	(90-04-0),
<i>3,3'-dimethylbenzidine</i>	(119-93-7),
<i>4-amino-3-fluorophenol</i>	(399-95-1),
<i>6-amino-2-ethoxynaphthalene</i>	
<i>2,4-Xylidine</i>	
<i>2,6-Xylidine</i>	

Assessment and verification: the applicant shall provide a declaration of non-use of such dyes. the following standard shall be used: EN 14362-1 and 2. If the products used are awarded with the Final Draft EU eco-label for textile products. If the textile products used are awarded with Ecolabel for the textile products, with the GUT label or with Öko-Tex Standard 100, they fulfil this requirement. and appropriate documentation shall be provided.

Dyes that are carcinogenic, teratogenic or reprotoxic

(a) the following dyes shall not be used:

C.I. Basic Red 9

C.I. Disperse Blue 1

C.I. Acid Red 26

C.I. Basic Violet 14

C.I. Disperse Orange 11

C. I. Direct Black 38

C. I. Direct Blue 6

C. I. Direct Red 28

C. I. Disperse Yellow 3

Assessment and verification: the applicant shall provide a declaration of non-use of such dyes. If the products used are awarded with the EU eco-label for textile products or with Öko-Tex Standard 100, they fulfil this requirement and appropriate documentation shall be provided.

(b) No use is allowed of dye substances or of dye preparations containing more than 0,1% by weight of substances that are assigned or may be assigned at the time of application any of the following risk phrases (or combinations thereof):

R40 (limited evidence of a carcinogenic effect),

R45 (may cause cancer),

R46 (may cause heritable genetic damage),

R49 (may cause cancer by inhalation),

R60 (may impair fertility),

R61 (may cause harm to the unborn child),

R62 (possible risk of impaired fertility),

R63 (possible risk of harm to the unborn child),

R68 (possible risk of irreversible effects),

as laid down in Council Directive 67/548/EEC of 27 June 1967 on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (1), and its subsequent amendments.

Assessment and verification: the applicant shall provide a declaration of non-use of such dyes. If the products used are awarded with the EU eco-label for textile products or with Öko-Tex Standard 100, they fulfil this requirement and appropriate documentation shall be provided.

Potentially sensitizing dyes

The following dyes shall not be used:

C.I. Disperse Blue 3 C.I. 61 505

C.I. Disperse Blue 7 C.I. 62 500

C.I. Disperse Blue 26 C.I. 63 305

C.I. Disperse Blue 35

C.I. Disperse Blue 102

C.I. Disperse Blue 106

C.I. Disperse Blue 124

C.I. Disperse Brown 1

C.I. Disperse Orange 1 C.I. 11 080

C.I. Disperse Orange 3 C.I. 11 005

C.I. Disperse Orange 37

C.I. Disperse Orange 76 (previously designated Orange 37)

C.I. Disperse Red 1 C.I. 11 110

C.I. Disperse Red 11 C.I. 62 015

C.I. Disperse Red 17 C.I. 11 210

C.I. Disperse Yellow 1 C.I. 10 345

C.I. Disperse Yellow 9 C.I. 10 375

C.I. Disperse Yellow 39

C.I. Disperse Yellow 49

Assessment and verification: The applicant shall provide a declaration of non-use of these dyes. If the products used are awarded with the Final Draft EU eco-label for textile products or with Öko-Tex Standard 100, they fulfil this requirement and appropriate documentation shall be provided.

Heavy metals

Dyes and pigments containing lead (Pb), cadmium (Cd), mercury (Hg) or chromium (chromium total) or Cr(VI) as ingredients of the dyeing component must not be used to dye the materials:

The limit value for the total heavy metal content of a fitted carpet is 100 mg/kg.

Assessment and verification: The applicant shall provide a declaration of non-use of these dyes together with the documentation demonstrating that the limit imposed is not exceeded. If the products used are GUT label, they fulfil this requirement and appropriate documentation shall be provided.

2.3 Water emissions

Wool – biocides

After treating the scouring effluent, the final COD discharge shall not exceed 5 g/kg greasy wool. The pH of the effluent discharged to surface waters shall be between 6 and 9 (unless the pH of the receiving waters is outside this range), and the temperature shall be below 40°C (unless the temperature of the receiving water is above this value).

Assessment and verification: the applicant shall provide relevant data and test report, using the test method ISO 6060. If the products used are awarded with the EU eco-label for textile products they fulfil this requirement and appropriate documentation shall be provided.

Wastewater discharges from wet-processing

(a) Waste water from wet-processing sites (except greasy wool scouring sites) shall, when discharged after treatment (whether on-site or off-site), have a COD content of less than 20 g/kg, expressed as an annual average.

Assessment and verification: the applicant shall provide detailed documentation and test reports, using ISO 6060, showing compliance with this criterion, together with a declaration of compliance.

(b) If the effluent is treated on site and discharged directly to waters, it shall also have a pH between 6 and 9 (unless the pH of the receiving water is outside this range) and a temperature of less than 40 °C (unless the temperature of the receiving water is above this value).

Assessment and verification: The applicant shall provide documentation and test reports showing compliance with this criterion, together with a declaration of compliance. If the products used are awarded with the EU eco-label for textile products they fulfil this requirement and appropriate documentation shall be provided.

Detergents, fabric softeners and complexing agents

At each wet-processing site, at least 95% by weight of the detergents, at least 95% by weight of fabric softeners and at least 95% by weight complexing agents used shall be sufficiently degradable or eliminable in wastewater treatment plants. At each wet-processing site, the detergents (which contain surfactants) in use shall fulfil the criteria: the surfactants meet the criteria for ultimate aerobic biodegradation. At least 95% of the other substances by weight shall be sufficiently degradable or eliminable in wastewater treatment plants.

Assessment and verification: ‘sufficiently biodegradable’ means:

— if when tested with one of the methods OECD 301 A, OECD 301 E, ISO 7827, OECD 302 A, ISO 9887, OECD 302 B,

— or ISO 9888 it shows a percentage degradation of at least 70 % within 28 days, or if when tested with one of the methods OECD 301 B, ISO 9439, OECD 301 C, OECD 302 C, OECD 301 D, ISO 10707, OECD 301 F, ISO 9408, ISO 10708 or ISO 14593 it shows a percentage degradation of at least 60 % within 28 days,

— or if when tested with one of the methods OECD 303 or ISO 11733 it shows a percentage degradation of at least 80 % within 28 days,

— or, for substances for which these test methods are inapplicable, if evidence of an equivalent level of biodegradation is presented.

The applicant shall provide appropriate documentation, safety data sheets, test reports and/or declarations, indicating the test methods and results as indicated above, showing compliance with this criterion for all sizing preparations used.

Metal complex dyes

- (a) In case of cellulose dyeing, where metal complex dyes are part of the dye recipe, less than 20% of each of those metal complex dyes applied (input to the process) shall be discharged to waste water treatment (whether on-site or off-site).

In case of all other dyeing processes, where metal complex dyes are part of the dye recipe, less than 7% of each of those metal complex dyes applied (input to the process) shall be discharged to waste water treatment (whether on-site or off-site).

- (b) The emissions to water after treatment shall not exceed: Cu 75 mg/kg (fibre, yarn or fabric) or Ni 75 mg/kg.

Assessment and verification: the applicant shall either provide a declaration of non-use or documentation and test reports using the following test method: ISO 8288 for Cu and Ni.

2.4 Energy consumption

The energy consumption shall be calculated as the process energy used for the production of the floor coverings.

The process energy, calculated as indicated in the Technical Appendix – A1, shall exceed the following limits (P= scoring point):

Product Family	Hurdle (P)
Synthetic Carpets	6
Natural Carpets	

Assessment and verification: the applicant shall calculate the Energy consumption of the production process according to the Technical Appendix — A1 instructions. The applicant shall provide the related results and supporting documentation.

3. USE PHASE

3.1 Release of dangerous substances

The following emissions values shall not to be exceeded:

Substance	Requirement (after 3 days)
Total organic compounds within the retention range C6 – C16 (TVOC)	0,25 mg/m³ air
Total organic compounds within the retention range > C16 – C22 (TSVOC)	0,03 mg/m³ air
Total VOC without LIC25	0,05 mg/m³ air

Assessment and verification: the applicant shall submit a test certificate according to the emission tests ENV 13419 or prEN 15052 or DIN ISO 16006-6.

4. PACKAGING **DELETED**

Paperboard used for the packaging of the final product should be multi-use systems or be made out of 100% recycled materials with a take back opportunity for recycling.

Plastics used for the packaging of the product shall be made of 100% recyclable materials. They must comply with the REACH Regulation and with the Directive 2005/84/CE on phthalates²⁶.

Assessment and verification: a sample of the product packaging shall be provided on application, together with a corresponding declaration of compliance with all the requirements. If plastics are used, an informative declaration about the correct disposal of the material shall be included on the packaging itself.

²⁵ LCI = Lowest Concentration of Interest.

²⁶ Directive 2005/84/CE - “restrictions and use of certain dangerous substances and preparations (phthalates in toys and childcare articles)”

4. FITNESS FOR USE

The product shall be fit for use. This evidence may include data from appropriate ISO, CEN or equivalent test methods, such as national test procedures.

Assessment and verification: details of the test procedures and results shall be provided, together with a declaration that the product is fit for use based on all other information about the best application by the end-user. According to Directive 89/106/EEC a product is presumed to be fit for use if it conforms to a harmonised standard, a European technical approval or a non-harmonised technical specification recognised at Community level. The EC conformity mark ‘CE’ for construction products provides producers with an attestation of conformity easily recognisable and may be considered as sufficient in this context.

6. DURABILITY AND SAFETY [DELETED]

The product shall fulfil the requirements on durability, strength, safety and stability in applicable EN or ISO standards. If there is no EN or ISO standard, specific standards for the products can be used or, in alternative, an evaluation of the product’s durability, strength, safety and stability on the basis of the design and choice of materials shall be performed by an independent test institution and/or laboratory..

Assessment and verification: The applicant shall provide a declaration completed with documentation on the test methods performed by the accredited institution and the test results. The standard life duration of the product should be indicated in the packaging for consumers information.

5. CONSUMER INFORMATION

The product shall be sold with relevant user information, which provides advice on the product's proper and best general and technical use as well as its maintenance. It shall bear the following information on the packaging and/or on documentation accompanying the product:

(a) information that the product has been awarded the EU Eco-label together with a brief yet specific explanation as to what this means in addition to the general information provided by box 2 of the logo;

(b) recommendations for the use and maintenance of the product. This information should highlight all relevant instructions particularly referring to the maintenance and use of products. As appropriate, reference should be made to the features of the product's use under difficult climatic or other conditions, for example, frost resistance/water absorption, stain resistance, resistance to chemicals, necessary preparation of the underlying surface, cleaning instructions and recommended types of cleaning agents and cleaning intervals. The information should also include any possible indication on the product's potential life expectancy in technical terms, either as an average or as a range value;

(c) an indication of the route of recycling or disposal (explanation in order to give the consumer information about the high possible performance of such a product);

(d) information on the EU Eco-label and its related product groups, including the following text (or equivalent): ‘for more information visit the EU Eco-label website: <http://europa.eu.int/ecolabel>’.

Assessment and verification: the applicant shall provide a sample of the packaging and/or texts enclosed also according to the **ISO 6347: Textile floor coverings -- Consumer information**.

6. INFORMATION APPEARING ON THE ECOLABEL

[UNDER DISCUSSION]

Box 2 of the Ecolabel shall contain the following text:

- *hazardous and toxic substance restricted;*
- *production process energy saving;*
- *limited pollutant emissions to water;*
- *no risk to health in the living environment;*

TECHNICAL APPENDIX FOR TEXTILE FLOORING

A1. ENERGY CONSUMPTION CALCULATION

Energy consumption is calculated as an annual average of the energy consumed during the production process (excluding premises heating) from the raw material to the finished floor covering.

For synthetic (non-renewable) raw materials, the calculations start from the fabrication of the product used. The calculation shall not include the energy content of the raw material (nda: feedstock energy).

The energy calculation shall include at least 95% by weight of the raw materials' energy consumption. The energy required to manufacture adhesives and varnish shall not be included in the calculations.

The unit chosen for the calculations is the **MJ/m²**.

The energy contents of various fuels are given.

If the producer has an energy surplus that is sold as electricity, steam or heat, the sold quantity can be deducted from the fuel consumption. Only the fuel that is actually used in floor covering production shall be included in the calculations.

Electricity consumption refers to electricity purchased from an external supplier.

If the producer has an energy surplus that is sold as electricity, steam or heat, the sold quantity can be deducted from the fuel consumption. Only the fuel that is actually used in floor covering production shall be included in the calculations.

Environmental parameter
A = Proportion of renewable raw materials and recycled non-renewable raw materials (%) ²⁷
B = Proportion of renewable fuels (%)
C = Electricity consumption (MJ/m ²)
D = Fuel consumption (MJ/m ²)

²⁷ The use of “renewable raw materials” and/or “recycled non-renewable raw materials” is left on voluntary base.

$$P = \frac{A}{25} + \frac{B}{25} + (4 - 0,72 \times C) + (4 - 0,3 \times D)$$

The energy contents of various fuels are given in the following table.

Table A1: Table for calculating fuel consumption.

Production period (1 year)	Days	From	To	
Fuel	Quantity	Units	Conversion factor	Energy (MJ)
Straw (15% W)		kg	14,5	
Pellets (7% W)		kg	17,5	
Waste wood (20% W)		kg	14,7	
Wood chips (45% W)		kg	9,4	
Peat		kg	20	
Natural gas		kg	54,1	
Natural gas		Nm ³	38,8	
Butane		kg	49,3	
Kerosene		kg	46,5	
Gasoline		kg	52,7	
Diesel		kg	44,6	
Gas oil		kg	45,2	
Heavy Fuel oil		kg	42,7	
Dry Steam Coal		kg	30,6	
Anthracite		kg	29,7	
Charcoal		kg	33,7	
Industrial Coke		kg	27,9	
Electricity (from net)		kWh	3,6	
Total energy (MJ)				