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*Status: Point in time view as at 30/11/2009.*

**Changes to legislation:** *There are currently no known outstanding effects for the Commission Decision of 30 November 2009 on establishing the ecological criteria for the award of the Community Ecolabel for textile floor coverings (notified under document C(2009) 9523) (Text with EEA relevance) (2009/967/EC). (See end of Document for details)*

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## 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.

This product 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 rugs 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 in the European commission of normalisation CEN/TC 134.

The functional unit, to which inputs and outputs should be related, is 1 m<sup>2</sup> 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.

### 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):

- |     |                                    |
|-----|------------------------------------|
| R23 | (toxic by inhalation),             |
| R24 | (toxic in contact with skin),      |
| R25 | (toxic if swallowed),              |
| R26 | (very toxic by inhalation),        |
| R27 | (very toxic in contact with skin), |

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R28	(very toxic if swallowed),
R39	(danger of very serious irreversible effects),
R40	(limited evidence of a carcinogenic effect),
R42	(May cause sensitisation by inhalation),
R43	(May cause sensitisation by skin contact),
R45	(may cause cancer),
R46	(may cause heritable genetic damage),
R48	(danger or serious damage to health by prolonged exposure),
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),
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<sup>(1)</sup> (Dangerous Substances Directive), and its subsequent amendments, and considering the Directive 1999/45/EC of the European Parliament and of the Council<sup>(2)</sup> (Dangerous Preparations Directive).

*Alternatively*, classification may be considered according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006<sup>(3)</sup>. In this case no substances or preparations may be added to the raw materials that are assigned, or may be assigned at the time of application, with and of the following hazard statements (or combinations thereof): H300, H301, H310, H311, H317 H330, H331, H334, H351, H350, H340, H350i, H400, H410, H411, H412, H413, H360F, H360D, H361f, H361d H360FD, H361fd, H360Fd, H360Df, H341, H370, H372.

*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 — chemical substances

If the fibres are of recycled origin, the criteria set in this section do 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 and polypropylene.

#### Wool treatments

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

Substance	CAS no
$\gamma$ -hexachlorocyclohexane (lindane)	319-84-6
$\alpha$ -hexachlorocyclohexane	319-85-7

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β-hexachlorocyclohexane	58-89-9
δ-hexachlorocyclohexane	319-86-8
aldrin	309-00-2
dieldrin	60-57-1
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:

<b>Substance</b>	<b>CAS no</b>
Propetamphos	31218-83-4
Diazinon	333-41-5
Dichlofenthion	97-17-6
Fenclorphos	299-84-3
Chlorpyrifos	2921-88-2
Chlorfenvinphos	470-90-6
Ethion	563-12-2
Pirimiphos-Methyl	29232-93-7

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

<b>Substance</b>	<b>CAS no</b>
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:

<b>Substance</b>	<b>CAS no</b>
Diflubenzuron	35367-38-5
Triflumuron	64628-44-0
Dicyclanil	112636-83-6

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

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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 EU 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 N<sub>2</sub>O 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**

- a) 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) next to the eco-labelled product.
- b) The emissions of VOCs during polymerisation and fibre production of polyester, measured at the process steps where they occur, including fugitive emissions as well, expressed as an annual average, shall not exceed 1,2 g/kg of produced polyester resin. (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).

*Assessment and verification:* For (a) 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. For (b) 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.

### **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<sub>x</sub> and SO<sub>2</sub> from the production of PP (monomer production, polymerisation and granulation) must not exceed the following limits:  
NO<sub>x</sub>: 12 kg/ton PP  
SO<sub>2</sub>: 11 kg/ton PP

*Assessment and verification:* the fibre manufacturer must measure or calculate the quantities of NO<sub>x</sub> and SO<sub>2</sub> emitted during PP production and provide a declaration of compliance with the criterion. 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 1 'Generic material requirements' shall be applied.

### **Foam rubber (natural and synthetic latex and polyurethane)**

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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 hydride or cold vapour technique.

- (b) Volatile organic compounds<sup>(4)</sup> (VOCs): The concentration of VOCs shall not exceed 0,5 mg/m<sup>3</sup>.

*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.

- (c) 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.

- (d) 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.

- (e) 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.

- (f) Nitrosamines: The concentration of N-nitrosamines shall not exceed 0,001 mg/m<sup>3</sup> as measured with the chamber test.

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*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.

- (b) Blowing agents: CFCs, HCFCs, HFCs or methylene chloride shall not be used as blowing agents or as auxiliary blowing agents.

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

**Vulcanized foams**

Vulcanized foams shall not be used for back coating.

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

**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/m<sup>3</sup> 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.

**2. PRODUCTION OF ALL MATERIALS**

With regard to the presence of dangerous substances, the requirements described in criteria 1 'Generic material requirements' shall be applied.

The applicant shall also comply with the following specific requirements:

**Flame retardants**

Only flame retardants that are chemically bound into the polymer fibre or onto the fibre surface (reactive flame retardants) may be used in the product. If the flame retardants used have any of the R-phrases listed below, these reactive flame retardants should, on application, change their chemical nature to no longer warrant classification under any of these R-phrases. (Less than 0,1 % of the flame retardant on the treated yarn or fabric may remain in the form as before application.):

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),
R60	(may impair fertility),
R61	(may cause harm to the unborn child),
R62	(possible risk of impaired fertility),

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R63 (possible risk of harm to the unborn child),  
R68 (possible risk of irreversible effects),

as laid down in Directive 67/548/EEC.

*Alternatively*, classification may be considered according to Regulation (EC) No 1272/2008. In this case no substances or preparations may be added to the raw materials that are assigned, or may be assigned at the time of application, any of the following hazard statements (or combinations thereof): H351, H350, H340, H350i, H400, H410, H411, H412, H413, H360F, H360D, H361f, H361d, H360FD, H361fd, H360Fd, H360Df, H341.

Flame retardants which are only physically mixed into the polymer fibre or into a textile coating are excluded (additive flame retardants).

*Assessment and verification:* The applicant shall provide a declaration that additive flame retardants have not been used and indicate which reactive flame retardants, if any, have been used and provide documentation (such as safety data sheets) and/or declarations indicating that those flame retardants comply with this criterion.

#### **Plasticizers**

If any plasticizer substance in the manufacturing process is applied, only phthalates that at the time of application have been risk assessed and have not been classified with the phrases (or combinations thereof) may be used:

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),  
R60 (may impair fertility),  
R61 (may cause harm to the unborn child),  
R62 (possible risk of impaired fertility),

as laid down in Directive 67/548/EEC.

*Alternatively*, classification may be considered according to Regulation (EC) No 1272/2008. In this case no substances or preparations may be added to the raw materials that are assigned, or may be assigned at the time of application, with and of the following hazard statements (or combinations thereof): H400, H410, H411, H412, H413, H360F, H360D, H361f, H361d, H360FD, H361fd, H360Fd, H360Df

Additionally DNOP (di-n-octyl phthalate), DINP (di-isononyl phthalate), DIDP (di-isodecyl phthalate) are not permitted in the product.

*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 of the European Parliament and of the Council<sup>(5)</sup>.

#### 2.1. *Chemicals used as auxiliaries for textile fibres treatment*

Alkylphenolethoxylates (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.



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## 2.2. *Dyes and pigments*

### **Azo dyes**

Azo dyes shall not be used that may cleave to any one of the following aromatic amines:

- 4-aminodiphenyl (92-67-1)
- Benzidine (92-87-5)
- 4-chloro-o-toluidine (95-69-2)
- 2-naphthylamine (91-59-8)
- o-amino-azotoluene (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)
- 3,3'-dimethyl-4,4'-diaminodiphenylmethane (838-88-0)
- p-cresidine (120-71-8)
- 4,4'-oxydianiline (101-80-4)
- 4,4'-thiodianiline (139-65-1)
- o-toluidine (95-53-4)
- 2,4-diaminotoluene (95-80-7)
- 2,4,5-trimethylaniline (137-17-7)
- 4-aminoazobenzene (60-09-3)
- o-anisidine (90-04-0)
- 2,4-Xylidine
- 2,6-Xylidine

*Assessment and verification:* The applicant shall provide a declaration of non-use of these dyes. Should this declaration be subject to verification the following standard shall be used = EN 14362-1 and 2. (Note: false positives may be possible with respect to the presence of 4-aminoazobenzene, and confirmation is therefore recommended).

### **Dyes that are carcinogenic, mutagenic or toxic to reproduction**

- (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.

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- (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 Directive 67/548/EEC.

*Alternatively*, classification may be considered according to Regulation (EC) No 1272/2008. In this case no substances or preparations may be added to the raw materials that are assigned, or may be assigned at the time of application, with and of the following hazard statements (or combinations thereof): H351, H350, H340, H350i, H360F, H360D, H361f, H361d H360FD, H361fd, H360Fd, H360Df, H341.

*Assessment and verification:* The applicant shall provide a declaration of non-use of such dyes.  
**Potentially sensitising 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.  
**Heavy metals**

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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 — COD**

For scouring effluent discharged to sewer, the COD discharged to sewer shall not exceed 60 g/kg greasy wool, and the effluent shall be treated off-site so as to achieve at least a further 75 % reduction of COD content, expressed as an annual average.

For scouring effluent treated on-site and discharged to surface waters, the COD discharged to surface waters shall not exceed 45 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). The wool scouring plant shall describe, in detail, their treatment of the scouring effluent and continuously monitor the COD-levels.

*Assessment and verification:* The applicant shall provide relevant data and test reports related to this criterion, using the following test method: ISO 6060.

#### **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:

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- 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 detergents, fabric softeners and complexing agents 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); Cr 50 mg/kg; 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 methods: ISO 8288 for Cu, Ni; EN 1233 for Cr.

#### 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, shall exceed the following values (P = scoring point):

<b>Product Family</b>	<b>Limit value(P)</b>
Synthetic Carpets	8

*Assessment and verification:* the applicant shall calculate the Energy consumption of the production process according to the Technical Appendix 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 be exceeded:

<b>Substance</b>	<b>Requirement(after 3 days)</b>
a LCI	= Lowest Concentration of Interest.

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Total organic compounds within the retention range C6 – C16 (TVOC)	0,25 mg/m <sup>3</sup> air
Total organic compounds within the retention range > C16 – C22 (TSVOC)	0,03 mg/m <sup>3</sup> air
Total VOC without LCI <sup>a</sup>	0,05 mg/m <sup>3</sup> air
<b>a</b>	LCI = Lowest Concentration of Interest.

*Assessment and verification:* the applicant shall submit a test certificate according to the emission tests prEN 15052 or DIN ISO 16000-9.

#### 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 Council Directive 89/106/EEC<sup>(6)</sup> 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. Furthermore the norm CEN/TS 14472-2 could be used to demonstrate compliance with this criterion.

#### 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://www.ecolabel.eu>'.

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*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

Box 2 of the Ecolabel shall contain the following text:

- hazardous and toxic substance restricted,
- production process energy saving,
- limited pollutant emissions to water,
- lower risk to health in the living environment.

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## Technical Appendix for Textile Flooring

### 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 (i.e.: feedstock energy).

The energy calculation shall include at least 95 % of the energy required to produce the raw materials. The energy required to manufacture adhesives shall not be included in the calculations.

The unit chosen for the calculations is the MJ/m<sup>2</sup>.

The energy contents of various fuels are given.

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 quantity sold 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 parameters

- A = Proportion of renewable raw materials and recycled non-renewable raw materials (%)<sup>(7)</sup>
- B = Proportion of renewable fuels (%)
- C = Electricity consumption (MJ/m<sup>2</sup>)
- D = Fuel consumption (MJ/m<sup>2</sup>)

$$P = \frac{A}{25} + \frac{B}{25} + (4 - 0,055 \times C) + (4 - 0,022 \times D)$$

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

TABLE FOR CALCULATING FUEL CONSUMPTION

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	

Production period — year:

Days:

From:

To:

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Production period — year:

Days:

From:

To:

Natural gas		kg	54,1	
Natural gas		Nm <sup>3</sup>	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	
<b>Total energy (MJ)</b>				



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- (1) OJ 196, 16.8.1967, p. 1.
- (2) OJ L 200, 30.7.1999, p. 1.
- (3) OJ L 353, 31.12.2008, p. 1.
- (4) 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.
- (5) OJ L 344, 27.12.2005, p. 40.
- (6) OJ L 40, 11.2.1989, p. 12.
- (7) The use of 'renewable raw materials' and/or 'recycled non-renewable raw materials' is left on voluntary base.

**Status:**

Point in time view as at 30/11/2009.

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