



EUROPEAN COMMISSION
ENTERPRISE AND INDUSTRY DIRECTORATE-GENERAL
New Approach Industries, Tourism and CSR
Construction

Brussels, 7th June 2010

M/103 rev.1 EN

AMENDMENT TO:

MANDATE TO CEN/CENELEC

CONCERNING THE EXECUTION OF STANDARDISATION WORK

FOR HARMONISED STANDARDS ON

THERMAL INSULATION PRODUCTS (M/103)

1. EXPLANATORY NOTE

The Construction Products Directive (89/106/EC) – CPD covers six essential requirements for construction products. In the original mandate and work programme these aspects were only partly taken into consideration, mostly due to a lack of data on existing requirements and/or lack of technical instruments to be harmonised in European standards.

Construction products could emit or contain substances that have been defined as “dangerous substances” under European Directives and national regulations. While the emission (or the content) shall be below any existing European and/or national threshold values (where the product is placed on the market), manufacturers and authorities need transparent and understandable schemes in place for the declaration of product performance in this respect in order to determine conformance of the product with these regulatory requirements. This requires harmonised standards for the declaration of the potential release (or presence in those cases where a substance is banned or content where it is not possible to measure releases) of dangerous substances from construction products. The test methods to support this declaration will be provided by CEN TC 351 following the requirements of the Commission’s mandate M 366.

To identify substances to be assessed, CEN TCs have to consider the current versions of EU Directives and notified national regulations.

Regulatory requirements to be referred to can be found:

- Commission's database on dangerous substances¹;
- Indicative list indoor air/soil and (ground) water (DS 051)
- Annexes of amendment of mandate M/103

To facilitate the work of CEN product TCs, the attached annexes provide an inventory of substances/materials that are considered as the most relevant² in the first phase for products covered under mandate M/103. It remains to the product TC to select the most efficient approach of identifying dangerous substances regulated and relevant for their specific products³.

However, the financial and technical burden of testing could in many cases be avoided if a clear definition and product declaration of a product and/or its intended use is introduced in a product standard. This could allow manufacturers and authorities to avoid any testing or to focus on a few relevant substances/components/materials for testing, while they could exclude certain substances/components/materials from their test schemes⁴.

2. OBJECTIVE

The objective of this mandate is for CEN to amend existing harmonised product standards (or standards under development) to cover ER3 requirements⁵ to an extent that will allow CE marked construction products to be placed on national markets without additional national requirements.

Note: It should be stressed that this exercise shall not duplicate the ongoing work in TC 351 and its links to product TCs. But to avoid later misunderstandings and complications that might lead to delayed publications of harmonised product standards and/or the use of CE marking the dialogue

¹ <http://ec.europa.eu/enterprise/construction/cpd-ds/>

² The term "most relevant" for substances/materials in the inventory as well as in the selection and reply of each product TC highlights the importance of *a fast and pragmatic approach* two step approach for the first generation of product standards covering ER 3. The focus in the inventory as well as in the selection and reply by CEN TCs is on the substances/materials which are

- most likely present in a product or will most likely emit from products;
- have been identified by regulators as risk for health and the environment;

To avoid that the standardisation work will be unnecessarily delayed by trying to cover less likely or less dangerous risks in the first generation, the first generation is supposed to cover the *majority* of risks and substances/materials, but allows for adaptations in subsequent five year reviews of the product standards.

³ However, the manufacturer, or his agent established in the Community, shall be responsible for the attestation that products are in conformity with the requirements of a technical specification. (Art.13 of the CPD)

⁴ Following this approach not all substances listed in a mandate have to be tested. Some substances can be excluded by description (i.e. "substance xy is not used in concentrations above 0.1 % w/w")

⁵ These ER-requirements include that the products put on a national market can fulfil the national legal requirements.

between specification writers and the Commission/regulators/experts should be facilitated and strengthened.

3. DESCRIPTION OF THE MANDATED WORK

The attached annex provides an overview on national notified regulatory requirements that have been linked by several experts of the Commission's expert group on dangerous substances to products covered under mandate M/103.

CEN (TC 88) has to assess the list and to take it completely into consideration when describing and justifying its selection of substances and their relevance in its work programme, in particular on the following aspects:

- If these substances may be present in products covered by mandate M/103 and in all existing harmonised product standards or harmonised product standards under development;
- If these substances are likely to emit from the above mentioned products and if these emissions are close to existing limit values in regulations referred to in this document⁶;
- If there is available data, particularly where the above mentioned products have been tested in the past on either content or emission of these substances by national authorities/bodies⁷;

Note: The work programme of the product TC will be used for further discussion in the EGDS between the Commission, national experts and experts of the product TC and TC 351.

CEN has to provide in existing harmonised product standards or harmonised product standards under development either

- clear and transparent definitions of products⁸ that will make further requirements for testing for dangerous substances obsolete or/and
- a set of clear and transparent requirements for product which will be laid down in product standards for these specific product families or relevant sub-families.

⁶ The possibility of excluding products, components or substances from testing will be dealt with in detail in another document describing a system of defining products "without testing" or "without further testing".

⁷ If products have not been subject to testing for dangerous substances (or specific substances now mentioned in this document have not been assessed in the past) will be helpful to assess the priority given by regulators or the lack of useful technical instruments for the assessment, but does not necessarily indicate that Member State authorities might not insist on these specific requirements during the development of a standard or *after* it has been finalised. Therefore, each substance should be assessed carefully by the TC and in case of doubt clarification should be requested from the Commission.

⁸ If necessary with regard to materials, constituents, admixtures, etc.

4. EXECUTION OF THE MANDATE

The standards resulting from this amended mandate will have to be delivered by no later than 12 months after the adoption of technical specifications developed under the mandate M/366.

After formal acceptance of the mandate, CEN will present to the Commission within 2 months a detailed proposal for the Work Programme. Having regard to the scope of this mandate this Work Programme will include

- a selection and clear indication of substances/materials indicated in the annexes of this mandate which are considered as relevant in products covered by mandate M/103, or a justification for excluding substances/materials of the attached annex from standardisation work in the relevant product TC;
- a list of all product standards considered to require declaration categories for the potential release or content of regulated dangerous substances to enable fulfilment of regulatory requirements;
- the timetable for the development and the publication of each amended standard; if not all regulated dangerous substances can be dealt with in one phase/generation, it should be explained how and when to handle the other substances and which steps still need to be taken.

Note: Due to regulatory requirements (e.g. the content of restricted and banned substances in construction products), content⁹ measurement/test standards may also be considered.

Content may also be used as screening method in FPC or as part of a “Without Further Testing” scenario.

After examination of the Work Programme and consultations with CEN, the Commission will endorse the timetable and the list of measurement/test standards or parts of measurement/test standards, which meet the terms of this mandate.

The terms of reference of the mandate may be subject to modification or addition, if necessary, following the consultation of the Standards and Technical Regulations Committee, where appropriate. Especially, when the Commission has endorsed the Work Programme, the annex will be updated with the corresponding parts of the endorsed Work Programme.

The Commission¹⁰ may participate in standardisation activities as an observer and has the right to receive all relevant documents.

⁹ For other regulations than the CPD the content of substances in a product/materials is relevant. Therefore the characteristic to be considered can also, as pointed out in the Guidance Paper H, be the content of the dangerous substance in the construction product, when this is the only practicable or legally correct solution (e.g. when waste is used). Although the CPD deals in particular with the emission of dangerous substances, measurement methods based on content may help for example with regard to incoming materials (e.g. any material used in the production process, treated or not, be it raw materials or materials resulting from any previous use or production).

CEN will immediately inform the Commission of any problem relating to the carrying out of the mandate from within the Technical Committees.

In an annual review meeting CEN/CENELEC will inform the Commission about the progress of the work.

The formal acceptance of this mandate by CEN will initiate the standstill procedure referred to in article 7 of the European Parliament and the Council Directive 98/34/EC of 22 June 1998.

CEN will present the final drafts of the harmonised European product standards to the Commission for confirmation of compliance with this mandate at the latest in accordance with the timetable agreed between CEN and the Commission.

The text of the European standards shall be delivered to the Commission in the three working languages of CEN (English, French, German).

CEN will provide the titles of the standards in all the official languages of the European Union.

Organisations to be involved

As appropriate, CEN will invite the representative organisations of consumers' interests (ANEC), environmental protection (ECOS), workers (ETUI-REHS) and small and medium-size enterprises (NORMAPME) to take part in the standardisation work.

¹⁰ This could also include assistance from the European Commission expert group on regulated dangerous substances.

Annex I for an amendment of Mandate M/103 Thermal Insulation Products with ER3 related requirements, August 2009

NOTE: *this is a general list of notified regulations which may relate to regulated dangerous substances and ER 3 but which also deals with other issues. TC 88 is asked to check through these and establish which regulations and which substances or properties are relevant to this specific task and to cover them in its standards. Further, in the below list of regulations, the different thermal insulation types are not always aligned with the definitions of types in the thermal insulation product standards so TC 88 is asked to adjust as appropriate.*

| Thermal insulation products for buildings | | | | | |
|---|---|--|---|--|---|
| Standards published in the Official Journal of the European Union | | | | | |
| EN Number | Standard Title | Requirements for roofs, exposed to weathering, and for foundations and retaining walls, in contact with soil | Requirements for ceilings, floors, internal walls and partitions (contact with indoor air possible) | Requirements for roofs, protected from weathering, for external walls and claddings (no contact with indoor air) | Regulations |
| EN 13162 | Thermal insulation products for buildings — Factory made mineral wool (MW) products — Specification | not applicable | VOC, formaldehyde, fibre composition | fibre composition | Directive 97/69/EC, 1998-156-D, 2007-90-DK (fibre composition); 2008-273-FIN, 2005-255-D, PL-1996 (formaldehyde, certain VOC) |
| EN 13163 | Thermal insulation products for buildings — Factory made products of expanded polystyrene (EPS) — Specification | not applicable | VOC, styrene, pentane, hexabromocyclododecane (HBCD), medium and short chained chlorinated paraffins (MCCP, SCCP) | hexabromocyclododecane (HBCD), medium and short chained chlorinated paraffins (MCCP, SCCP) | Regulation 1907/2009/EC (candidate list: HBCD, SCCP); 2008-273-FIN (styrene, VOC, pentane), PL-1996 (styrene, certain VOC); 2007-9016-N (HBCD, MCCP); Decision 2007/395/EC (SCCP) |

| | | | | | |
|----------|--|--|--|--|---|
| EN 13164 | Thermal insulation products for buildings — Factory made products of extruded polystyrene foam (XPS) — Specification | hydrofluorocarbons (HFC), hexabromocyclododecane (HBCD), medium and short chained chlorinated paraffins (SCCP , MCCP) | hydrofluorocarbons (HFC), styrene, pentane, VOC, hexabromocyclododecane (HBCD), tributylphosphate (TBP), triphenylphosphate (TPP), medium and short chained chlorinated paraffins (SCCP , MCCP) | hydrofluorocarbons (HFC), hexabromocyclododecane (HBCD), medium and short chained chlorinated paraffins (SCCP , MCCP) | Regulation 1907/2009/EC (candidate list: HBCD, SCCP); 2001-121-DK, 2005-485-A (HFC); 2007-9016-N (HBCD, MCCP), Decision 2007/395/EC (SCCP); 2008-273-FIN (styrene, VOC, pentane, TBP, TPP), PL-1996 (styrene, certain VOC) |
|----------|--|--|--|--|---|

| EN Number | Standard Title | Requirements: contact with soil | Requirements: contact with indoor air possible | Requirements: contact with indoor air or soil | Regulations |
|-----------|---|---------------------------------|--|---|--|
| EN 13165 | Thermal insulation products for buildings — Factory made rigid polyurethane foam (PUR) products — Specification | not applicable | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, pentane, tributylphosphate, triphenylphosphate, trichloroethylene, benzene, cadmium | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, DEHP, DBP, BBP, Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, cadmium | Regulation 552/2009/EC (pentabromodiphenylether, octabromodiphenylether, cadmium); Regulation 1907/2009/EC (candidate list: DEHP, DBP, BBP); Commission Decision 2009/425/EC (organostannic compounds); PL-1996 (DBP); 2005-9020-N (decabromodiphenylether); 2001-121-DK, 2005-485-A (HFC); 2008-273-FIN (pentane, isocyanates, TBP, TPP), 2007-9016-N (cadmium), 2009-34-F (trichloroethylene); 2009-104-F (benzene, DEHP, DBP) |
| EN 13166 | Thermal insulation products for buildings — Factory made products of phenolic foam (PF) Specification | not applicable | phenol, formaldehyde | none: to be confirmed through a WT application | 2008-273-FIN, PL-1996, 2005-255-D (phenol, formaldehyde, VOC according to the target list) |
| EN 13167 | Thermal insulation products for buildings — Factory made cellular glass (CG) products — Specification | none | none | none | |

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|------------------|---|--|---|--|---|--------------------|
| EN 13168 | Thermal insulation products for buildings — Factory made wood wool (WW) products Specification | not applicable | VOC, formaldehyde, pentachlorophenol (recycled wood), declaration of biocides | Pentachlorophenol (recycled wood), declaration of biocides | 2008-273-FIN, PL-1996 (VOC, formaldehyde, PCP), Decisions 94/783/EC, 1996/211/EC, 1999/831/EC, 2007-9016-N (PCP), Directive 98/8/EC (biocides) | |
| EN 13169 | Thermal insulation products for buildings — Factory made products of expanded perlite (EPB) — Specification | not applicable | radioactivity, PAH (e.g. benzo(a)pyrene, naphthalene), VOC | none: to be confirmed through a WT application | 2008-273-FIN (VOC, naphthalene, benzo(a)pyrene), PL-1996 (VOC, naphthalene); Directive 96/29/Euratom (radiation) | |
| EN Number | Standard Title | Requirements: contact with soil | Requirements: in contact with soil | Requirements: contact with indoor air possible | Requirements: no contact with indoor air or soil | Regulations |
| EN 13170 | Thermal insulation products for buildings — Factory made products of expanded cork (ICB) — Specification | not applicable | VOC, declaration of biocides, PAH (e.g. naphthalene, benzo(a)pyrene) | declaration of biocides | 2008-273-FIN (VOC, naphthalene, benzo(a)pyrene), PL-1996 (VOC, naphthalene); Directive 98/8/EC (biocides) | |
| EN 13171 | Thermal insulating products for buildings — Factory made wood fibre (WF) products — Specification | not applicable | VOC, formaldehyde, declaration of biocides, PAH (e.g. naphthalene, benzo(a)pyrene), pentachlorophenol (PCP) | declaration of biocides, PCP (recycled wood) | 2008-273-FIN (VOC, formaldehyde, PCP, naphthalene, benzo(a)pyrene), PL-1996 (VOC, formaldehyde, PCP, naphthalene), Decisions 94/783/EC, 1996/211/EC, 1999/831/EC, 2007-9016-N (PCP), Directive 98/8/EC (biocides) | |

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|--|--|---|---|---|--|
| EN 14063-1 | Thermal insulation products for buildings — Insitu formed expanded clay lightweight aggregate products — Part 1: Specification for the loosefill products before installation | not applicable | none: to be confirmed through a WT application | none: to be confirmed through a WT application | relevant regulated dangerous substances, if any |
| EN 14316-1 | Thermal insulation products for buildings — Insitu thermal insulation formed from expanded perlite (EP) products — Part 1: Specification for bonded and loosefill products before installation | not applicable | radioactivity, PAH (e.g. naphthalene), VOC | none: to be confirmed through a WT application | 2008-273-FIN (VOC, naphthalene, benzo(a)pyrene), PL-1996 (VOC, naphthalene); Directive 96/29/Euratom (radiation) |
| EN 14317-1 | Thermal insulation products for buildings — Insitu thermal insulation formed from exfoliated vermiculite (EV) products — Part 1: Specification for bonded and loosefill products before installation | not applicable | radioactivity | none: to be confirmed through a WT application | Directive 96/29/Euratom (radiation) |
| EN Number | Standard Title | Requirements: in contact with soil | Requirements: contact with indoor air possible | Requirements: no contact with indoor air or soil | Regulations |
| Failed Formal Vote or Unique Acceptance Procedure Drafts (CEN snapshot June 2009) | | | | | |

| | | | | | |
|------------|---|--|---|---|--|
| EN 14315-1 | Thermal insulating products for buildings — Insitu formed sprayed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products — Part 1: Specification for the rigid foam spray system before installation | not applicable(to be confirmed by CEN/TC 88) | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, pentane, tributylphosphate, triphenylphosphate, cadmium | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, cadmium | Regulation 552/2009/EC (pentabromodiphenylether, octabromodiphenylether, cadmium); Regulation 1907/2009/EC (candidate list: DEHP, DBP, BBP); Commission Decision 2009/425/EC (organostannic compounds); 2001-121-DK, 2005-485-A (HFC); 2008-273-FIN (pentane, isocyanates, TBP, TPP); 2005-9020-N, 2009-167-D (decabromodiphenylether); 2007-9016-N (cadmium); 2009-104-F (DEHP, DBP, benzene); PL-1996 (DBP); 2009-34-F (trichloroethylene) |
| EN 14318-1 | Thermal insulating products for buildings — Insitu formed dispensed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products — Part 1: Specification for the rigid foam dispensed system before installation | not applicable(to be confirmed by CEN/TC 88) | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, pentane, tributylphosphate, triphenylphosphate, cadmium | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, cadmium | Regulation 552/2009/EC (pentabromodiphenylether, octabromodiphenylether, cadmium); Regulation 1907/2009/EC (candidate list: DEHP, DBP, BBP); Commission Decision 2009/425/EC (organostannic compounds); 2001-121-DK, 2005-485-A (HFC); 2008-273-FIN (pentane, isocyanates, TBP, TPP); 2005-9020-N, 2009-167-D (decabromodiphenylether); 2007-9016-N (cadmium); 2009-104-F (DEHP, DBP, benzene); PL-1996 (DBP); |

| | | | | | | |
|--|---|--|-----------|---|--|---|
| | | | | | 2009-34-F (trichloroethylene) | |
| EN Number | Standard Title | Requirements: contact with soil | in | Requirements: contact with indoor air possible | Requirements: no soil or indoor air contact | Regulations |
| Drafts passed CEN Enquiry (CEN snapshot June 2009) | | | | | | |
| EN 14064-1 | Thermal insulation products for buildings — Insitu formed loosefill mineral wool (MW) products — Part 1: Specification for the loosefill products before installation | not applicable | | VOC, formaldehyde, fibre composition | fibre composition | Directive 97/69/EC, 1998-156-D, 2007-90-DK (fibre composition); 2008-273-FIN, PL-1996 (formaldehyde, VOC) |
| EN 15101-1 | Thermal insulation products for buildings — Insitu formed loosefill cellulose products — Part 1: Specification for the products before installation | not applicable | | declaration of biocides | declaration of biocides | Directive 98/8/EC (biocides) |
| Thermal insulating products for building equipment and industrial installations | | | | | | |
| Failed Formal Vote or Unique Acceptance Procedure Drafts (CEN snapshot June 2009) | | | | | | |

| EN Number | Standard Title | Requirements for piping and other applications exposed to weathering or in contact with soil | Requirements for space heating, cooling and air conditioning and other applications in possible contact with indoor air | Requirements for applications with no contact to indoor air / soil and not exposed to weathering | Regulations |
|------------|---|--|--|--|--|
| EN 14319-1 | Thermal insulating products for building equipment and industrial installations — Insitu formed dispensed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products — Part 1: Specification for the rigid foam dispensed system before installation | not applicable(to be confirmed by CEN/TC 88) | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, pentane, tributylphosphate, triphenylphosphate, cadmium | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, cadmium | Regulation 552/2009/EC (pentabromodiphenylether, octabromodiphenylether, cadmium); Regulation 1907/2009/EC (candidate list: DEHP, DBP, BBP); Commission Decision 2009/425/EC (organostannic compounds); 2001-121-DK, 2005-485-A (HFC); 2008-273-FIN (pentane, isocyanates, TBP, TPP); 2005-9020-N, 2009-167-D (decabromodiphenylether); 2007-9016-N (cadmium); 2009-104-F (DEHP, DBP, benzene); PL-1996 (DBP); 2009-34-F (trichloroethylene) |
| EN Number | Standard Title | Requirements: in contact with soil / weathering | Requirements: contact with indoor air possible | Requirements: no contact with indoor air or soil | Regulations |

| | | | | | |
|--|---|---|--|--|--|
| EN 14320-1 | Thermal insulating products for building equipment and industrial installations — Insitu formed sprayed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products — Part 1: Specification for the rigid foam spray system before installation | not applicable(to be confirmed by CEN/TC 88) | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, pentane, tributylphosphate, triphenylphosphate, cadmium | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, cadmium | Regulation 552/2009/EC (pentabromodiphenylether, octabromodiphenylether, cadmium); Regulation 1907/2009/EC (candidate list: DEHP, DBP, BBP); Commission Decision 2009/425/EC (organostannic compounds); 2001-121-DK, 2005-485-A (HFC); 2008-273-FIN (pentane, isocyanates, TBP, TPP); 2005-9020-N, 2009-167-D (decabromodiphenylether); 2007-9016-N (cadmium); 2009-104-F (DEHP, DBP, benzene); PL-1996 (DBP); 2009-34-F (trichloroethylene) |
| Drafts undergoing Formal Vote or Unique Acceptance Procedure (CEN snapshot June 2009) | | | | | |
| EN 14303 | Thermal insulation products for building equipment and industrial installations — Factory made mineral wool (MW) products — Specification | not applicable(to be confirmed by CEN/TC 88) | VOC, formaldehyde, fibre composition | fibre composition | Directive 97/69/EC, 1998-156-D, 2007-90-DK (fibre composition); 2008-273-FIN, PL-1996 (formaldehyde, VOC) |
| EN 14304 | Thermal insulation products for building equipment and industrial installations — Factory made flexible elastomeric foam (FEF) products — Specification | not applicable (to be confirmed by CEN/TC 88) | VOC, benzo(a)pyrene, medium chained chlorinated paraffins (MCCP), short chained chlorinated paraffins (SCCP), lead | MCCP, SSCP, lead | Regulation 1907/2009/EC (candidate list: SSCP); 2008-273-FIN (VOC, benzo(a)pyrene, naphthalene), PL-1996 (VOC, naphthalene); 2007-9016-N (MCCP, lead), Decision 2007/395/EC (SCCP) |

| | | | | | |
|------------------|---|--|--|--|---|
| EN 14305 | Thermal insulation products for building equipment and industrial installations — Factory made cellular glass (CG) products — Specification | None | none | none | |
| EN Number | Standard Title | Requirements: in contact with soil / weathering | Requirements: contact with indoor air possible | Requirements: no contact with indoor air or soil | Regulations |
| EN 14306 | Thermal insulation products for building equipment and industrial installations — Factory made calcium silicate (CS) products — Specification | none: to be confirmed through a WT application | none: to be confirmed through a WT application | none: to be confirmed through a WT application | relevant regulated dangerous substances, if any |
| EN 14307 | Thermal insulation products for building equipment and industrial installations — Factory made extruded polystyrene foam (XPS) products — Specification | hydrofluorocarbons (HFC), hexabromocyclododecane (HBCD), medium and short chained chlorinated paraffins (SCCP , MCCP) | hydrofluorocarbons (HFC), styrene, pentane, VOC, hexabromocyclododecane (HBCD), tributylphosphate (TBP), triphenylphosphate (TPP), medium and short chained chlorinated paraffins (SCCP , MCCP) | hydrofluorocarbons (HFC), hexabromocyclododecane (HBCD), medium and short chained chlorinated paraffins (SCCP , MCCP) | Regulation 1907/2009/EC (candidate list: HBCD, SCCP); 2001-121-DK, 2005-485-A (HFC); 2007-9016-N (HBCD, MCCP), Decision 2007/395 /EC (SCCP); 2008-273-FIN (styrene, VOC, pentane, TBP, TPP), PL-1996 (styrene, VOC) |

| | | | | | |
|----------|---|---|---|---|--|
| EN 14308 | Thermal insulation products for building equipment and industrial installations — Factory made rigid polyurethane foam (PUR) and polyisocyanurate foam (PIR) products — Specification | not applicable (to be confirmed by CEN/TC 88) | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, pentane, tributylphosphate, triphenylphosphate, cadmium | hydrofluorocarbons (HFC), pentabromodiphenylether, octabromodiphenylether, decabromodiphenylether, diethylhexylphthalate (DEHP), dibutylphthalate (DBP), benzylbutylphthalate (BBP), Tri-substituted organostannic compounds, Dibutyltin (DBT) compounds, isocyanates, cadmium | Regulation 552/2009/EC (pentabromodiphenylether, octabromodiphenylether, cadmium); Regulation 1907/2009/EC (candidate list: DEHP, DBP, BBP); Commission Decision 2009/425/EC (organostannic compounds); PL-1996 (DBP); 2001-121-DK, 2005-485-A (HFC); 2008-273-FIN (pentane, isocyanates, TBP, TPP); 2005-9020-N, 2009-167-D (decabromodiphenylether); 2007-9016-N (cadmium); 2009-104-F (DEHP, DBP, benzene); 2009-34-F (trichloroethylene) |
| EN 14309 | Thermal insulation products for building equipment and industrial installations — Factory made products of expanded polystyrene (EPS) — Specification | not applicable (to be confirmed by CEN/TC 88) | VOC, styrene, pentane, hexabromocyclododecane (HBCD), medium and short chained chlorinated paraffins (MCCP, SCCP) | hexabromocyclododecane (HBCD), medium and short chained chlorinated paraffins (MCCP, SCCP) | Regulation 1907/2009/EC (candidate list: HBCD, SCCP); 2008-273-FIN (styrene, VOC, pentane), PL-1996 (styrene, certain VOC); 2007-9016-N (HBCD, MCCP); Decision 2007/395/EC (SCCP) |

| EN Number | Standard Title | Requirements: contact with soil /weathering | Requirements: contact with indoor air possible | Requirements: no contact with indoor air or soil | Regulations |
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| EN 14313 | Thermal insulation products for building equipment and industrial installations — Factory made polyethylene foam (PEF) products — Specification | not applicable (to be confirmed by CEN/TC 88) | VOC, polybrominated diphenylethers (PBDE), MCCP | PBDE, MCCP | Regulation 552/2009/EC (pentabromodiphenylether, octabromodiphenylether); PL-1996, 2008-273-FIN (VOC according to target list), 2007-9016-N (MCCP), 2005-9020-N (decabromodiphenylether) |
| EN 14314 | Thermal insulation products for building equipment and industrial installations — Factory made phenolic foam (PF) products — Specification | not applicable (to be confirmed by CEN/TC 88) | phenol, formaldehyde | none: to be confirmed through a WT application | 2008-273-FIN, PL-1996 (phenol, formaldehyde) |
| Drafts waiting for UAP (foreseen for CEN snapshot September 2009) | | | | | |
| EN 15599-1 | Thermal insulation products for building equipment and industrial installations - In-situ thermal insulation formed from expanded perlite (EP) products - Part 1: Specification for bonded and loose-fill products before installation | not applicable | radioactivity, PAH (e.g. naphthalene), VOC | none: to be confirmed through a WT application | 2008-273-FIN (VOC, naphthalene, benzo(a)pyrene), PL-1996 (VOC, naphthalene); Directive 96/29/Euratom (radiation) |
| EN 15600-1 | Thermal insulation products for building equipment and industrial installations - In-situ thermal insulation formed from exfoliated vermiculate (EV) products - Part 1: Specification | not applicable | radioactivity | none: to be confirmed through a WT application | Directive 96/29/Euratom (radiation) |

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| | for bonded and loose-fill products before installation | | | | |
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| Thermal insulation products for civil engineering applications | | | | | |
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| Approved standards cited in the Official Journal | | | | | |
| EN Number | Standard Title | Requirements for roads and railways and embankment filling and other applications exposed to weathering or in contact with soil | Applications in contact with indoor air | Requirements for roads and railways and embankment filling and other applications not exposed to weathering nor in contact with soil | Regulations |
| EN 14933 | Light weight fill and insulation products for civil engineering applications — Factory made products of expanded polystyrene (EPS) — Specification | Hexabromocyclo-dodecane (HBCD), medium and short chained chlorinated paraffins (MCCP, SCCP) | not applicable | hexabromocyclododecane (HBCD), medium and short chained chlorinated paraffins (MCCP, SCCP) | Regulation 1907/2009/EC (candidate list: HBCD, SCCP); 2007-9016-N (HBCD, MCCP); Decision 2007/395/EC (SCCP) |
| EN 14934 | Thermal insulation and light weight fill products for civil engineering applications — Factory made products of extruded polystyrene foam (XPS) — Specification | hydrofluorocarbons (HFC), hexabromocyclo-dodecane (HBCD), medium and short chained chlorinated paraffins (MCCP, SCCP) | not applicable | hydrofluorocarbons (HFC), hexabromocyclododecane (HBCD), medium and short chained chlorinated paraffins (MCCP, SCCP) | Regulation 1907/2009/EC (candidate list: HBCD, SCCP); 2001-121-DK, 2005-485-A (HFC); 2007-9016-N (HBCD, MCCP), Decision 2007/395/EC (SCCP) |
| Drafts passed CEN Enquiry (CEN snapshot April 2009 – further progress foreseen under a new work item number) | | | | | |

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| EN 15732 | Light weight fill and thermal insulation products for civil engineering applications (CEA) -Expanded clay lightweight aggregate products (LWA) | none: to be confirmed through a WT application | not applicable | none: to be confirmed through a WT application | relevant regulated harmful and dangerous substances, if any |
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