

## **Amendment of Standardisation Mandate M/350 to CEN**

This amendment introduces specific demands to revise existing European standards developed under mandate M/350 (Development of horizontal standardised methods for the assessment of the integrated environmental performance of buildings) from 29 March 2004.

### *Requested standardisation activities*

The European Committee for Standardisation (CEN), is requested to revise European standards as listed in Annex I.

### *Establishment of the work programme*

CEN shall prepare the work programme indicating all requested deliverables, responsible technical bodies and a timetable for the execution of the work in line with the deadlines set out in Annexes I and II. CEN shall submit the work programme to the Commission by xx and provide it with access to an overall project plan.

### *Agreement on the work programme*

CEN shall inform the Commission of any amendments to the work programme.

### *Reporting*

CEN shall report annually to the Commission on the execution.

## **Annex I: General requirements**

This amendment is covering standards developed by CEN under mandate M/350 for assessing the environmental performance of buildings, civil engineering works and construction products (see annex II). According to Construction Products Regulation (305/2011/EU; CPR), construction products are the products placed on the market for permanent incorporation in construction works. The harmonised structure for the marketing of construction products is to be established in or by means of the CPR within the realm of its Basic Works Requirements, as defined in Annex I to it. This amendment has thus implications also to the European Standards of product TCs for PCR complementary to EN 15804.

The set of standards developed by the ISO committee for Sustainability in buildings and civil engineering works, ISO TC 59 SC17, (in particular ISO 21930 for environmental declaration of construction products) as well as the sets of standards developed by the ISO environmental management committee, ISO-TC 207 (in particular the 14040 series that provides the means for the systematic determination of environmental information in the form of a Life Cycle Assessment and the 14020 series, provide the means for the dissemination of the information) are regarded as basis for the amendment of the above mentioned CEN standards. The relevant ISO standards are listed in annex III.

The amendment is aiming to deal with differences between the contents of the standards developed by CEN under mandate M/350 and the methodological requirements included in the Product Environmental Footprint method as foreseen to be developed by the Commission with Recommendation (2013/179/EU) on 9 April 2013 and evaluated in pilot projects for certain construction products in 2014-2016.

The work should be focused on the specific requirements described in Annex II.

In its reply to the mandate CEN should indicate where in addition to the intended developments at the horizontal level covered under mandate M/350 and this amendment, complementary steps are considered necessary to be taken by the Commission at product (TC) level in order to establish the said harmonised structure for construction products, to ensure the consistency of the systems in place and to avoid diverging developments.

## Annex II: European standards and deadlines for adoption in relation to environmental requirements

**Table 2: Existing standards covered by this request**

Reference information			Deadline for adoption
EN 15643-1& 2: Sustainability of construction works – Framework for assessment of buildings	Adapting to changes at product level (e.g. EN 15804) wherever necessary	Keep Framework equivalent for all 3 fields of sustainability.	Adoption according to internal planning of CEN
EN 15978: Sustainability of construction works – Assessment of environmental performance of buildings – Calculation methods	Adapting to changes at product level (e.g. EN 15804) wherever necessary	Keep consistency between product and building level. At the construction works level, modularity should be maintained and the system boundaries defined.	Adoption according to internal planning of CEN
EN 15804: Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products	<ol style="list-style-type: none"> <li>1. Functional unit definition</li> <li>2. System boundary – Benefits and loads beyond system boundary</li> </ol>	<ol style="list-style-type: none"> <li>1. Provide more detailed rules and guidance for product TCs how to develop a functional unit for “cradle to grave” EPD for their product groups based on scenarios for the construction works level, “what”, “how much”, “how long” and “how well”, where possible and appropriate.</li> <li>2. Develop a formula for EoL (C modules and module D) applying a precise terminology consistent with the experiences gathered from the PEF pilot projects and</li> </ol>	Adoption according to internal planning of CEN

	<ul style="list-style-type: none"> <li>3. System boundary – Offsets</li> <li>4. Impact categories</li> <li>5. Common LCI–nomenclature for ease of data transfer</li> <li>6. Fossil and biogenic carbon emissions and removals</li> <li>7. Carbon storage and delayed emissions</li> <li>8. Data quality requirements</li> </ul>	<p>clarify the system boundary between the product systems which needs to be more detailed for situations when materials and energy are exiting or entering the product system under study. The use of modules C and D shall always be part of the assessment when carried out.</p> <ul style="list-style-type: none"> <li>3. Align with PEF principles on carbon offsets, i.e. offsets shall not be included in calculation of indicator results, however they may be reported as additional environmental information.</li> <li>4. Align the impact assessment models, indicator’s units and characterisation factors used in EN 15804 and the corresponding ones developed on the basis of the current PEF method.</li> <li>5. Use ILCD nomenclature and format for life cycle inventories.</li> <li>6. Align with PEF rules, i.e. removals and emissions shall be reported as LCI data separately for both fossil and biogenic sources.</li> <li>7. Align with PEF rules, i.e. temporary carbon storage and delayed emissions shall not be included in the calculation of indicator results, however it they may be reported as additional environmental information.</li> <li>8. Define more precise data quality requirements with respect to technological and geographic representativeness, similar to the time related data quality requirements.</li> </ul>	
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<p>EN 15942: Sustainability of construction works – Environmental product declarations – Communication formats business to business</p> <p>WI 350014 (EN) Sustainability of construction works – Environmental product declarations – Communication format business to consumer</p>	<ol style="list-style-type: none"> <li>1. Aggregation of results</li> <li>2. Benchmarks</li> </ol>	<ol style="list-style-type: none"> <li>1. In addition to the detailed communication rules in EN 15804 and EN 15942 allow the option of aggregating results from modules A1-C4 into a total sum of impacts or respective LCI indicators for communication of cradle to grave EPD for Business to Consumer purposes (WI 350014)</li> <li>2. Develop the rules for benchmarking and rules for the definition of representative products based on default scenarios to be used in defining the respective Functional Unit and taking into account findings from the PEF pilot phase. Provide guidance to allow product TCs to develop their own representative product(s) and classes for indicator results for B-to-C communication, where relevant.</li> </ol>	<p>Adoption according to internal planning of CEN</p>
<p>CEN/TR 15941: Sustainability of construction works – Environmental product declarations – Methodology for selection and use of generic data</p>	<ol style="list-style-type: none"> <li>1. Data quality requirements</li> <li>2. Data source hierarchy.</li> </ol>	<ol style="list-style-type: none"> <li>1. Define more precise data quality requirements with respect to technological and geographic representativeness, similar to the time related data quality requirements.</li> <li>2. Identify a clear hierarchy for secondary data sources applicable for EN 15804.</li> </ol>	<p>Adoption according to internal planning of CEN</p>

## 1. ANNEX III RELEVANT ISO STANDARDS

Relevant standards of ISO/TC59/SC17:

- ISO 15392:2008 Building Construction – Sustainability in building construction – General Principles
- ISO 21929:2011 Building construction - Sustainability in building construction – Sustainability indicators - Part 1 - Framework for development of indicators for buildings
- ISO 21930:2007 Building construction - Sustainability in building construction – Environmental declaration of building products (CURRENTLY IN THE ALIGNMENT PROCESS ACCORDING TO EN 15804+A1:2012; excepted to be ready 12/2016)
- ISO 21931:2010 Building construction - Sustainability in building construction – Framework for methods of assessment for environmental performance of construction works - Part 1 - Buildings
- ISO/TR 21932 Building construction - Sustainability in building construction – Terminology

Relevant standards of ISO/TC59/SC14:

- ISO 15686-1:2011 Buildings and constructed assets – Service life planning – General principles
- ISO 15686-2:2012 Buildings and constructed assets – Service life planning – Service life prediction procedures
- ISO 15686-4:2012 Buildings and constructed assets – Service life planning – Service life planning using Building Information Modelling
- ISO 15686-5:2008 Buildings and constructed assets – Service life planning – Life cycle costing
- ISO 15686-7:2006 Buildings and constructed assets – Service life planning – Performance evaluation for feedback of service life data from practice
- ISO 15686-8:2008 Buildings and constructed assets – Service life planning – Reference service life and service life estimation
- ISO/TS 15686-9:2008 Buildings and constructed assets – Service life planning – Service life declarations

Relevant standards of ISO/TC207/SC5:

- ISO 14040:2006 Environmental management - Life cycle assessment - Principles and framework.
- ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines
- ISO 14046:2014 Environmental management - Water footprint - Principles, requirements and guidelines

Relevant standards of ISO/TC207/SC3:

- ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures

Relevant standards of ISO/TC207/SC7:

ISO/TS 14067:2012 Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification and communication