European Standardization Organizations

Workshop ‘Development of complementary Product Category Rules under the CPR: status and next steps’

24 FEBRUARY 2025

Introduction

Background

- **New Construction Products Regulation**, December 2024
- Environmental Product Declarations, **EPD become mandatory**, gradually over the next 15 years
- **All 36 construction product groups** have **to develop a standard with rules** for a life cycle assessment

Introduction

Objectives of todays workshop

- Target audience are product TC’s
- Focus on complementary product category rules (c-PCR)
- To inform product TC about the current status
- To collect questions and needs
- To inform about upcoming steps
- To allow for interaction and to learn from each other

Agenda

- Welcome and introduction
  - ✓ **Karine Dari,** Secretary of CEN/TC 350, AFNOR and **Dieter De Lathauwer,** Chair of CEN/TC 350
- Environmental information and the CPR: horizontal elements and rules in the CPR acquis environmental group
  - ✓ **Oscar Nieto,** European Commission, DG GROW H1
- The process of establishing a harmonized product standard and the relation with a c-PCR
  - ✓ **Nuno Pargana,** CEN and CENELEC
- Shared experience from the sector: lessons learned from the precast concrete (CEN/TC 229)
  - ✓ **Alessio Rimoldi**, BIBM
- The relation of environmental data under the CPR with other EU legislation
  - ✓ **Oscar Nieto,** European Commission, DG GROW H1
- Development of a c-PCR
  - ✓ **Julia Goerke,** Convenor CEN/TC 350/WG3
- Challenges from the point of perspective of consistency - Identification of gaps and needs in the process
  - ✓ **Eric Winnepenninckx, Buildwise,** FIEC, Member of the CEN-CENELEC Coordination Group (COG) on Construction and the built environment and **Dieter De Lathauwer**
- Conclusions
  - ✓ **Karine Dari,** Secretary of CEN/TC 350, AFNOR and **Dieter De Lathauwer,** Chair of CEN/TC 350

Speakers

Dieter DE LATHAUWER

Chair CEN/TC 350 - Sustainability of construction works

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Speakers

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Apologised

CEN/TC 350 ‘Sustainability of construction works’

CEN/TC 350 ‘Sustainability of construction works’ provides a standardized approach for the delivery of environmental information on construction products, the assessment of the environmental, social and economic performance of new and existing construction works (buildings and civil engineering works), and more generally the sustainability performance of construction works.

Note: The committee is also entrusted with an advisory function to CEN committees to ensure the effective implementation of horizontal core rules regarding the development a specific Product Category Rules based on EN 15804. (2 CEN/ BT decisions in 2013 and 2022)

In 2020, **CEN/TC 350/SC 1 'Circular economy in the construction sector'** was created. The purpose of this subcommittee is to develop deliverables enabling the transition from a linear to a circular economy of the construction sector to support a climate neutral and resource efficient sector.

CEN/TC 350 Sustainability of construction works

Chairman : Dieter De Lathauwer

Committee manager : Karine Dari

WG 1
Environmental performance of buildings
Ari Ilomaki

EN 15978 envt performance of buildings

WG 3
Products Level
Julia Goerke

EN 15804 EPD
EN 22057 EPD4BIM
EN 15941 Data Quality
EN 15942 communication B2B
EN 17672 communication B2C
TS042 Chain of custody in EPD

WG 4 *
Economic performance assessment of buildings

EN 16627 Economic performance of buildings

WG 5 *
Social performance assessment of buildings

EN 16309 Social performance of buildings

WG 6
CEW
Antonio Burgueno

EN 17472 Sustainability assessment of CEW – calculation methods
TR 7016 CEW/SDG

WG 7 *
Framework

EN 15643 Framework for assessment of buildings and civil engineering works

WG 8
Sustainable refurbishment
Svein Bjorbeg

EN 17680 Evaluation of the potential for sustainable refurbishment of buildings

WG 9
EU-Taxonomy
S.K. Andersen

TR046 Findings, existing knowledge, and initiatives on EU-Taxonomy

CEN/TC 350/ SC1 Circular Economy in the construction sector

Chairman: Kasper Guldager Jensen

Committee manager: Charlotte Vartou Forsingdal

SC1/WG 1
Framework, principles and definitions
Lisbeth M. Ottosen

EN 18177 Framework/ definition

SC1/WG 4
Circular related information in construction works
Pernille Brændstrup Kjær

pWI044 Horizontal requirements for digital passports for construction products

SC1/WG 5
Circularity assessment
Flora Anvarifar

pWI047 Circularity assessment – Indicators and methods for construction works, components of construction and construction products

SC1/WG 6
Reuse of construction products
Markus Beckman

pWI043 Horizontal requirements for reuse of construction products

SC1/WG 7
Circular design for the construction sector
Evert Schut

pWITR 049 Guidance for the implementation of circular design of construction products and CW
pWI048 Horizontal requirements for circular design of CW and construction products

SC1/WG 8
Pre-demolition and pre-redevelopment audits and evaluation
Dominik Campanella

. Pre-demolition audits and evaluation
. Pre-redevelopment audit and evaluation

European Standardization Organizations

Environmental information and the CPR: horizontal elements and rules in the CPR acquis environmental group

Oscar Nieto, European Commission, DG GROW H1

ENVIRONMENTAL INFORMATION AND THE CPR: HORIZONTAL ELEMENTS AND RULES IN THE CPR ACQUIS ENVIRONMENTAL GROUP

GROW H.1

European Commission

BG ES CS DA DE ET EL EN FR GA HR IT LV LT HU MT NL PL PT RO SK SL FI SV

Official Journal
of the European Union

EN
L series

2024/3110

18.12.2024

REGULATION (EU) 2024/3110 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 27 November 2024

laying down harmonised rules for the marketing of construction products and repealing Regulation (EU) No 305/2011

PE/12/2024/REV/1
OJ L, 2024/3110, 18.12.2024
ELI: http://data.europa.eu/eli/reg/2024/3110/oj

Overview of the new CPR timeframe

Preparatory phase

CPR-2024 (Regulation 2024/3110)

CPR-2011 (Regulation 305/2011)

2024

2025

7 January 2025

Entry into force

2026

8 January 2026

Date of application

Mandatory declaration of GWP environmental impacts

Market Surveillance Chapter of new CPR replaces that of current CPR

31 December 2026

Impact assessment Green Public Procurement

8 December 2026

Notification of Penalties by Member States

2027

2028

2029

2030

9 January 2030

Mandatory declaration of all core environmental indicators

2031

9 January 2031

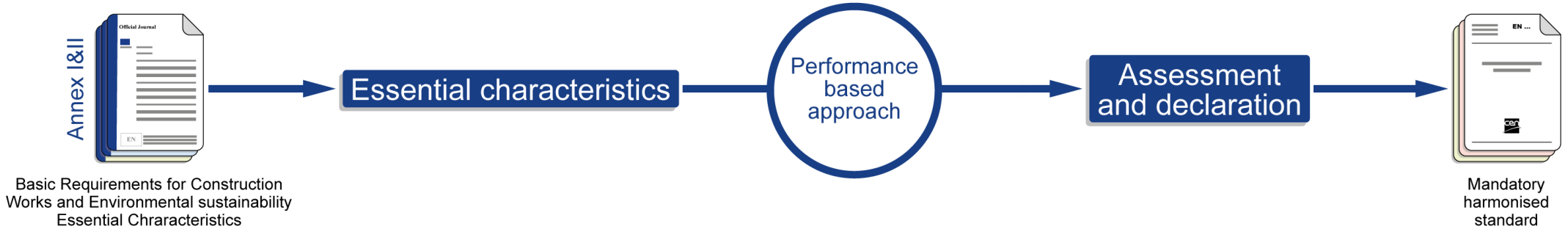
EAD according to the ongoing CPR no longer applicable

2032

9 January 2032

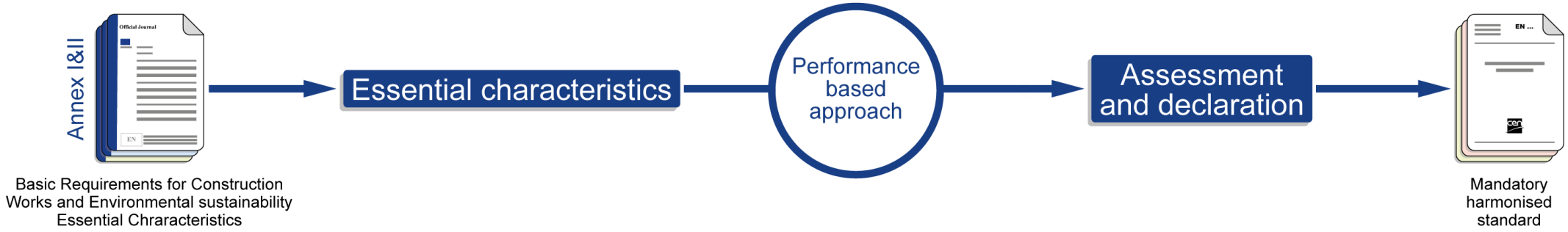
Mandatory declaration of all life cycle environmental indicators

Standards for performance assessment



Articles 5 & 6

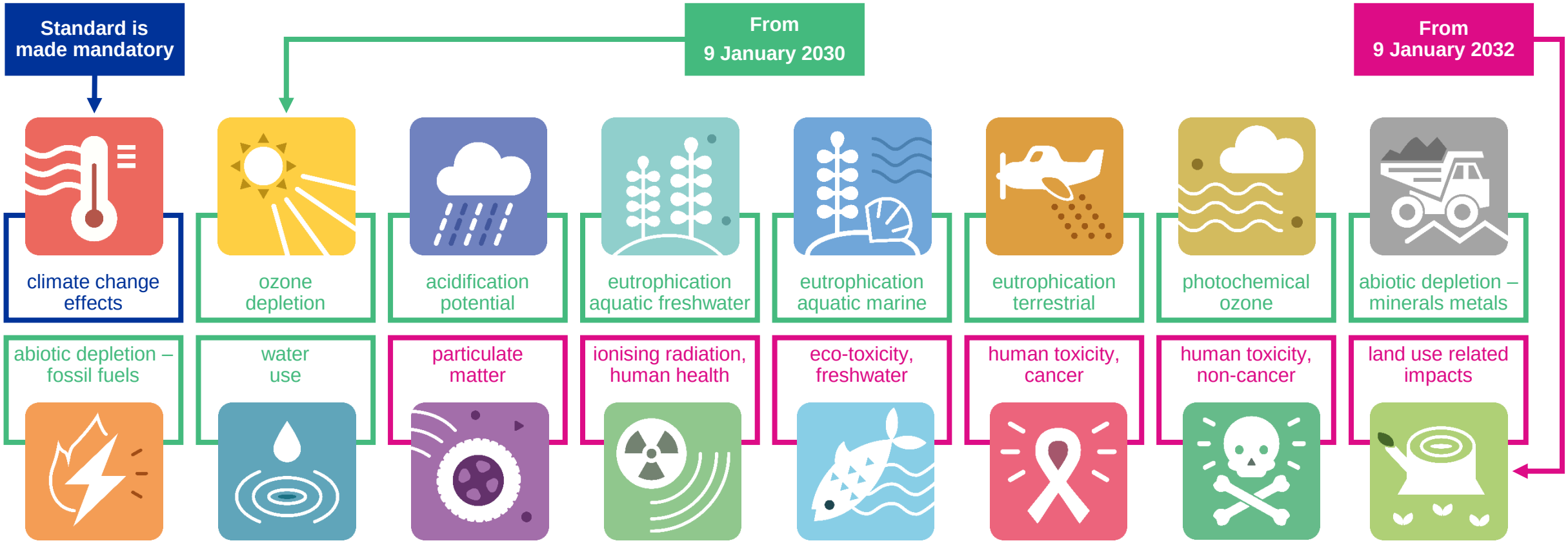
Basic Requirements for Construction Works



1. Structural integrity of construction works
2. Fire safety of construction works
3. Protection against adverse hygiene and health impacts related to construction works
4. Safety and accessibility of construction works
5. Resistance to the passage of sound and acoustic properties of construction works
6. Energy efficiency and thermal performance of construction works
7. Emissions into the outdoor environment of construction works
8. Sustainable use of natural resources of construction works

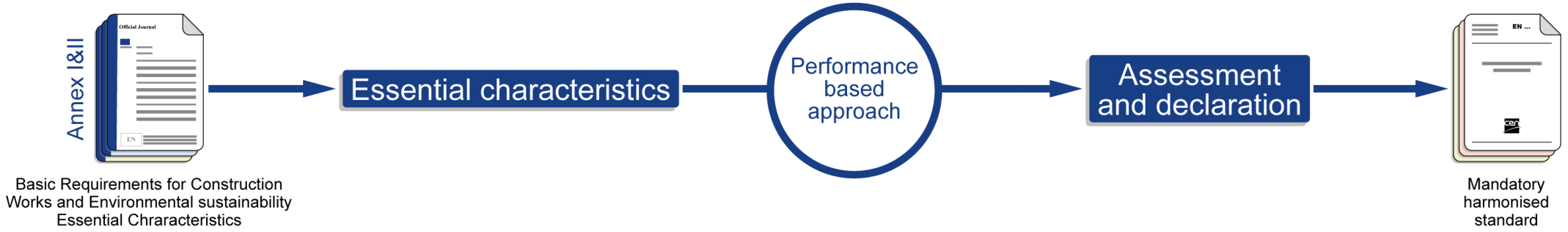
Annex I

Environmental sustainability essential characteristics

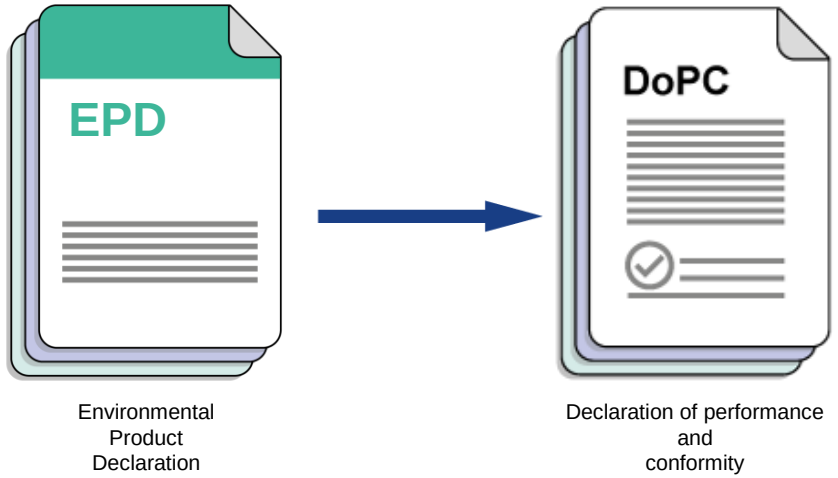


Annex II

Performance declaration

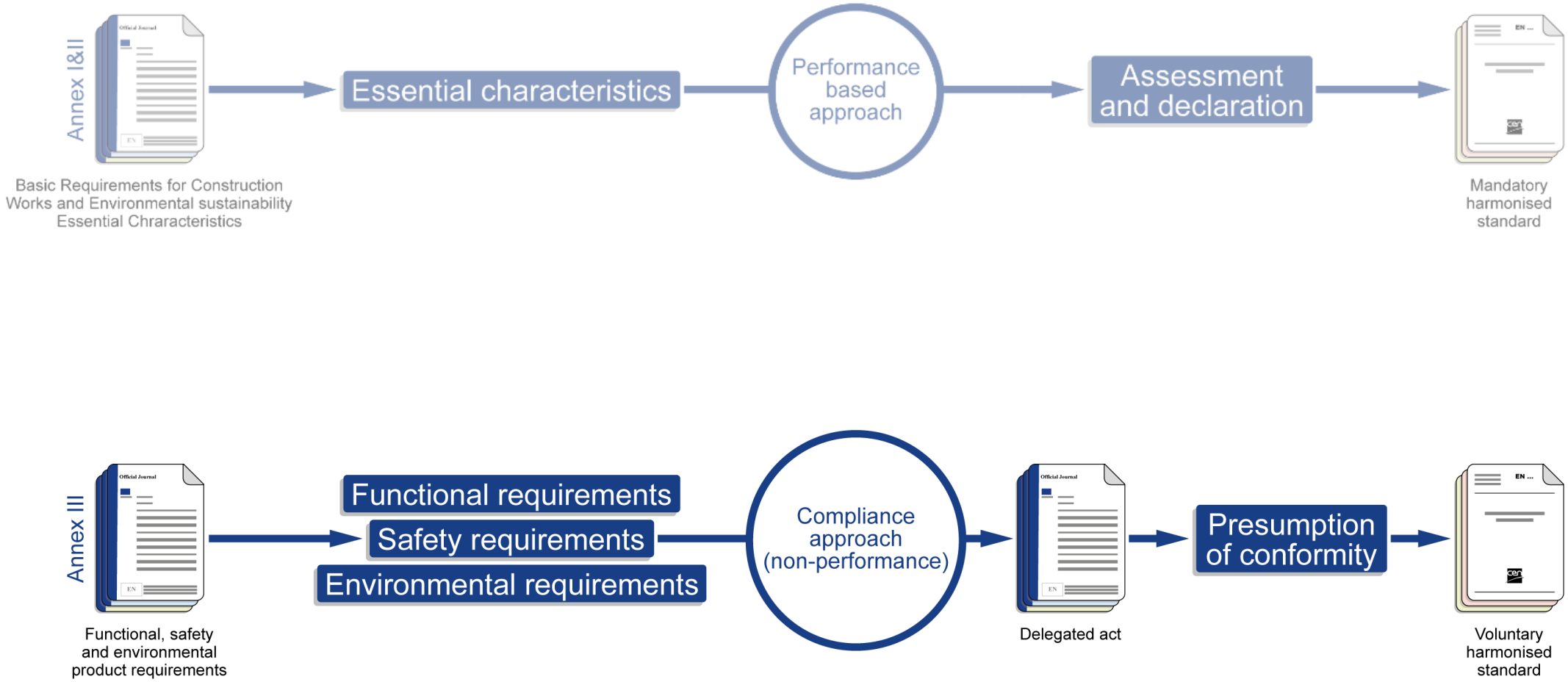


Information currently included in Environmental Product Declarations is transferred to the DoPC



Articles 5 & 6

Product requirements



Articles 7 & 8

Product requirements

Functionality

- use of specific materials which can be specified also in terms of their chemical composition
- specific dimensions and shapes of products or their components
- use of certain components which can be specified also in terms of materials, dimensions and shapes
- use of certain accessories and requirements for them
- ease of installation and deinstallation
- ease of maintenance or the lack of maintenance required for the expected life span
- characteristics of the product, including its cleanability, scratch resistance and break resistance, under usual operation conditions

Annex III

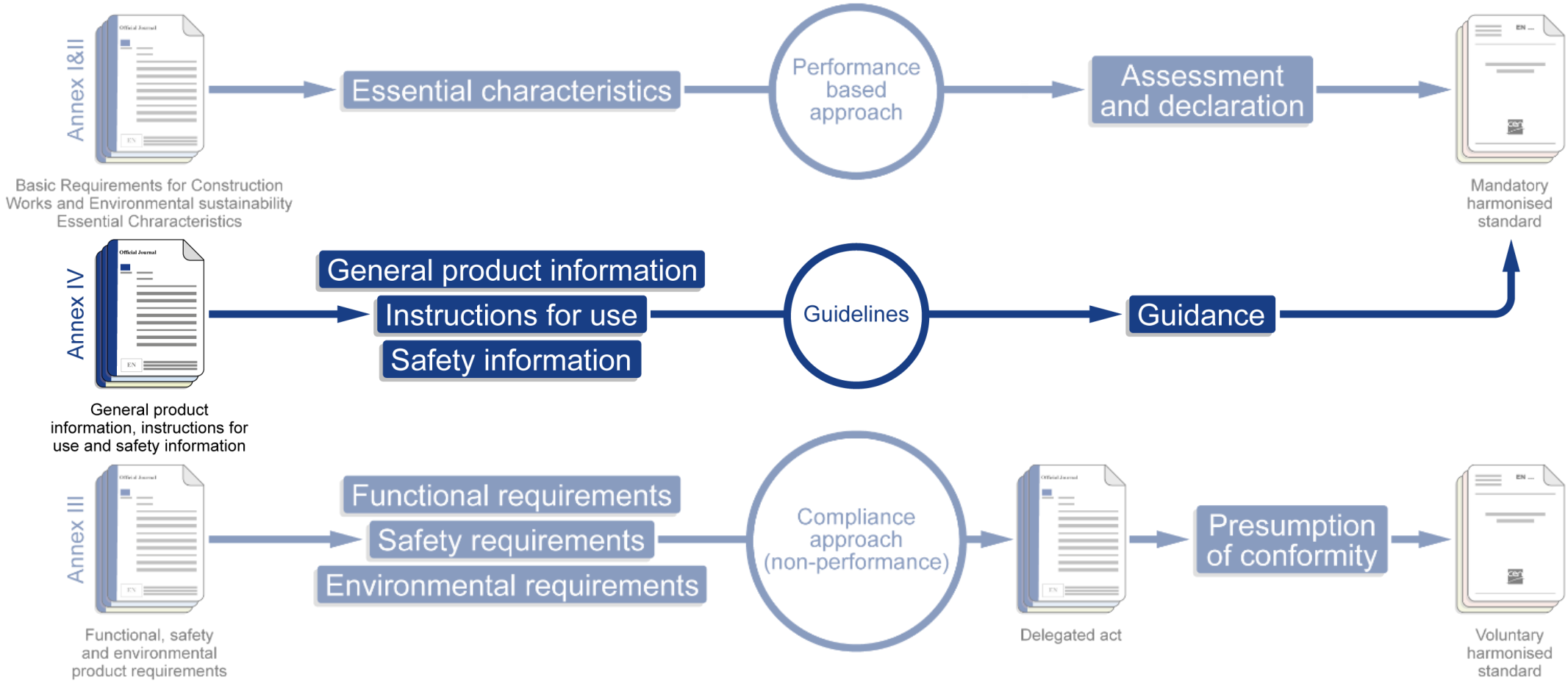
Safety

- chemical risks due to leaking or leaching
- risk of unbalanced composition in terms of substances resulting in flawed, safety- relevant functioning of products
- mechanical risks
- mechanical failure
- physical failure
- risks of electric failure
- risks linked to electricity supply breakdown
- risks linked to unintended charge or discharge of electricity
- risks linked to software failure
- risks of software manipulation
- risks of incompatibility of substances or materials
- risks linked to the incompatibility of different items, at least one of them being a product
- risk of not performing as intended, where the performance is safety relevant
- risk of misunderstanding instructions for use in a field affecting health and safety
- risk of unintended inappropriate installation or use
- risk of intended inappropriate use

Environment

- maximising durability and reliability of the product or its components as expressed through a product's technical lifetime indication of real use information on the product, resistance to stress or ageing mechanisms and in terms of the expected average life span, the minimum life span under worst but still realistic conditions, and in terms of the minimum life span requirements and prevention of premature obsolescence
- minimising life-cycle greenhouse gas emissions
- maximising reused, recycled and by-product content
- selection of safe, sustainable-by-design, and environmentally benign substances
- energy use and energy efficiency
- resource efficiency
- modularity
- identifying which product or parts thereof and in what quantity can be reused after de-installation (reusability), and in what quantities
- upgradability
- ease of reparability during the expected life span, including compatibility with commonly available spare parts
- ease of maintenance and refurbishment during the expected life span
- recyclability and the capability to be remanufactured
- capability of different materials or substances to be separated and recovered during dismantling or recycling procedures
- sustainable sourcing
- minimising the product-to-packaging ratio
- amounts of waste generated, notably hazardous waste

Instructions for use and safety information



Article 9

Information aspects to be covered

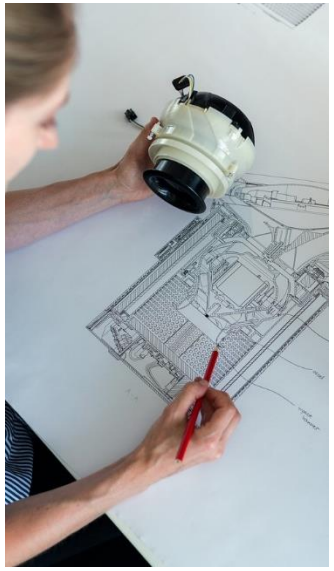
Safety during transport, installation, deinstallation, maintenance, deconstruction and demolition

Compatibility and integration into systems or kits

Maintenance needs with a view to maintaining the performance of the product during its service life span

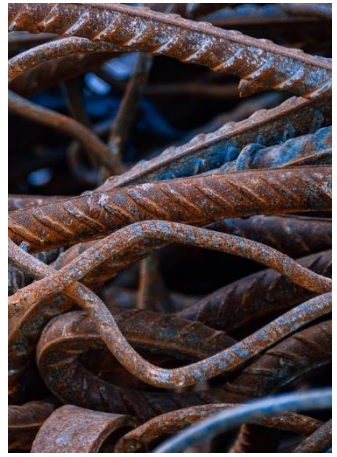
Safety during use

Training and other requirements necessarily to be fulfilled for safe use



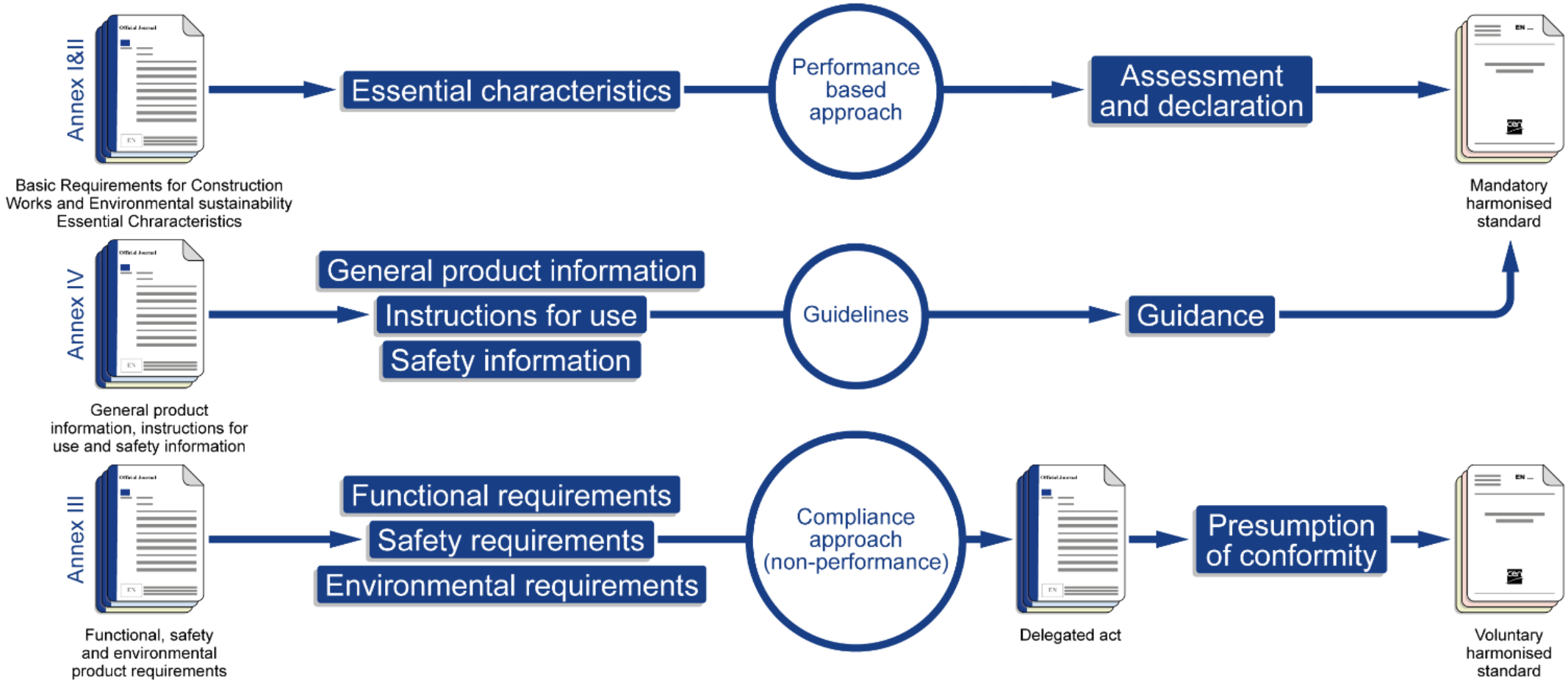
Risk mitigation beyond the previous points

Recommendations for a product's end of life: reuse, remanufacture, recycle and safe deposit



Annex IV

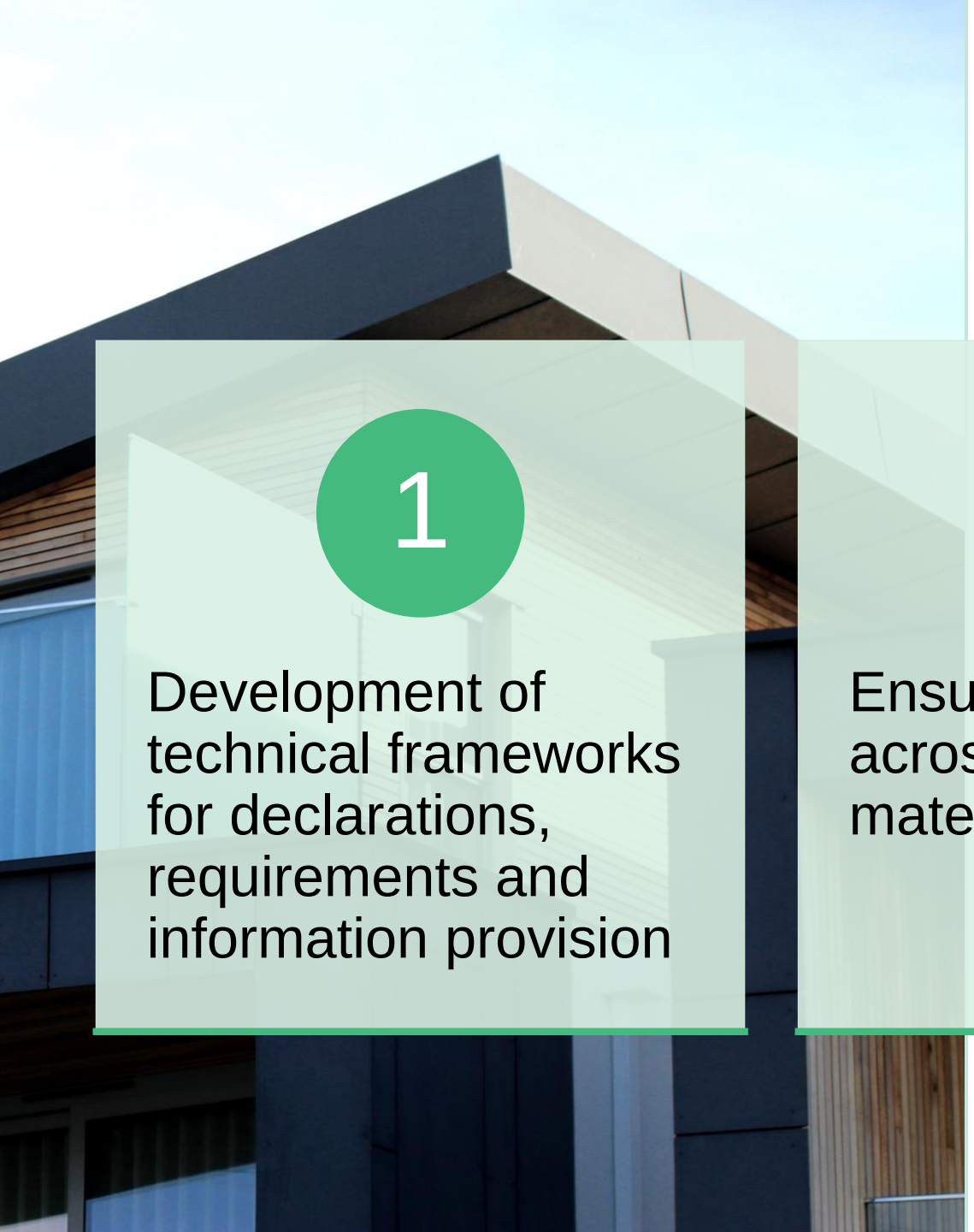
Instructions for use and safety information



Article 5 to 9 and annexes I to IV

CPR Acquis Sub-Group

Environmental Sustainability



Sub-Group Objectives

1

Development of technical frameworks for declarations, requirements and information provision

2

Ensure consistency across products and materials

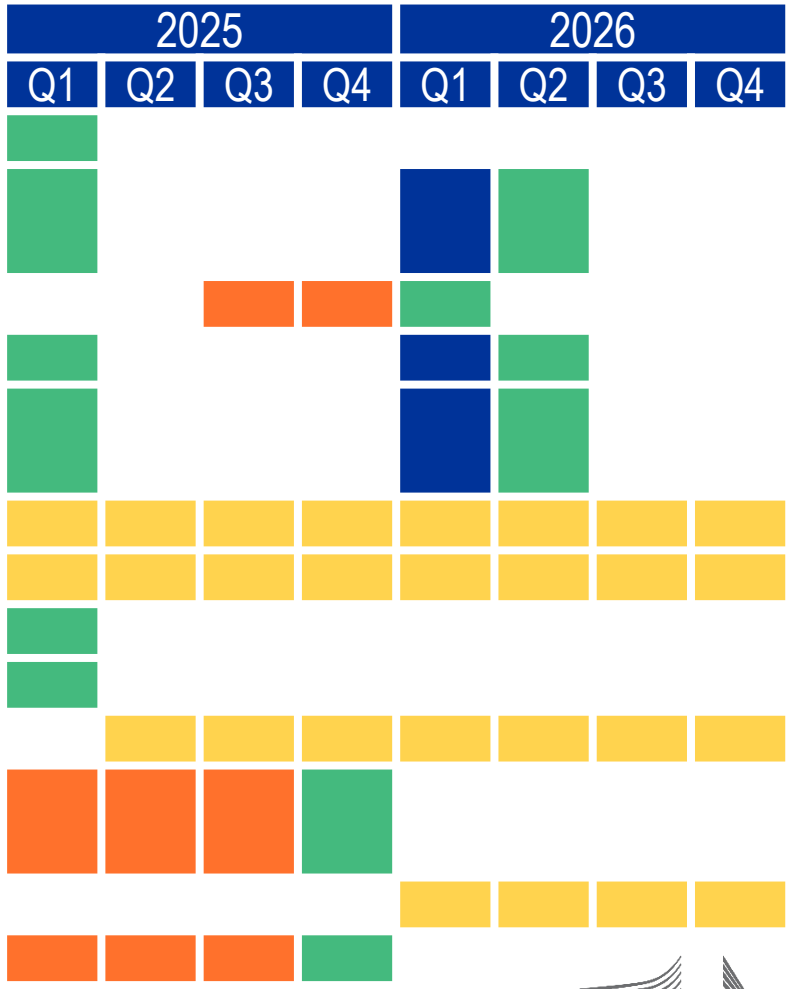
3

Facilitate the use of the information for the calculation at building/construction works level

Planning

Guidance available
Revision of guidance, if needed
Preparatory work
Activity starting under request

Milestone	Task	Topic
A	1	Life cycle assessment indicators
	2-5	Resource use indicators, waste indicators, output flows indicators and biogenic carbon indicators
	6	Carbon removals
	7	Other indicators
B	1-6	Methodology for the assessment, declaration of the performance, modularity, scenarios, reference service life, simplification
	7-9	Benchmarking, modelling rules and allocation
	10	Other issues
C	1	CPR-2011
	2	CPR-2024
	3	Notified bodies inputs
D	1-3	Background datasets potential problems, endorsed background datasets and data quality requirements
E	1	Mandatory declaration
F	1	Development of guidance for declaration without testing dossiers



Milestone A

LCA indicators

All included in the standardisation request and in the standards

No possibility to remove any of them from the list

Mandatory declaration at EU level (timeframe already presented)

Other EPD indicators

All included in the standardisation request and in the standards

Declaration subject to national requirements

Mandatory declaration to be discussed case by case

Other indicators

Carbon removals in the pipeline

Other resource indicators not mature enough to be included in the system

Milestone B - software

Commission “software”	Characterisation factors (available)	Background data (under development)
Lifecycle assessment software used by the manufacturer	Under the responsibility of the manufacturer	Subject to Assessment and Verification system 3+

Milestone B – EN 15804 applicable clauses

Assessment to follow EN 15804 rules except:

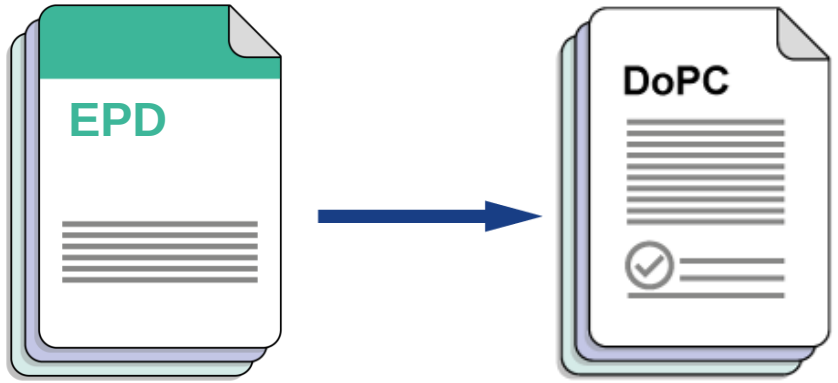
Types of EPD	Additional information not derived from LCA	Release of dangerous substances
Ownership, responsibility, and liability		Communication formats
Content of the EPD	Project report	Verification and validity

Milestone B – Declaration

Declaration of all modules for the applicable harmonised scenarios

Digitalisation will facilitate access to the information

EPD can be maintained if it contains the same information



Milestone B - Scenarios

Parametric or European harmonised scenarios

Parameter	Information
Scenario A4.1	Transport by lorry 16-32t, EURO 5
Fuel type and consumption of vehicle or vehicle type used for transport, e.g. long distance truck, boat etc.	Litre of fuel per km
Capacity utilization (including empty returns)	%
Bulk density of transported products	kg/m^3
Volume capacity utilization factor (factor: = 1 or < 1 or ≥ 1 for compressed or nested packaged products)	

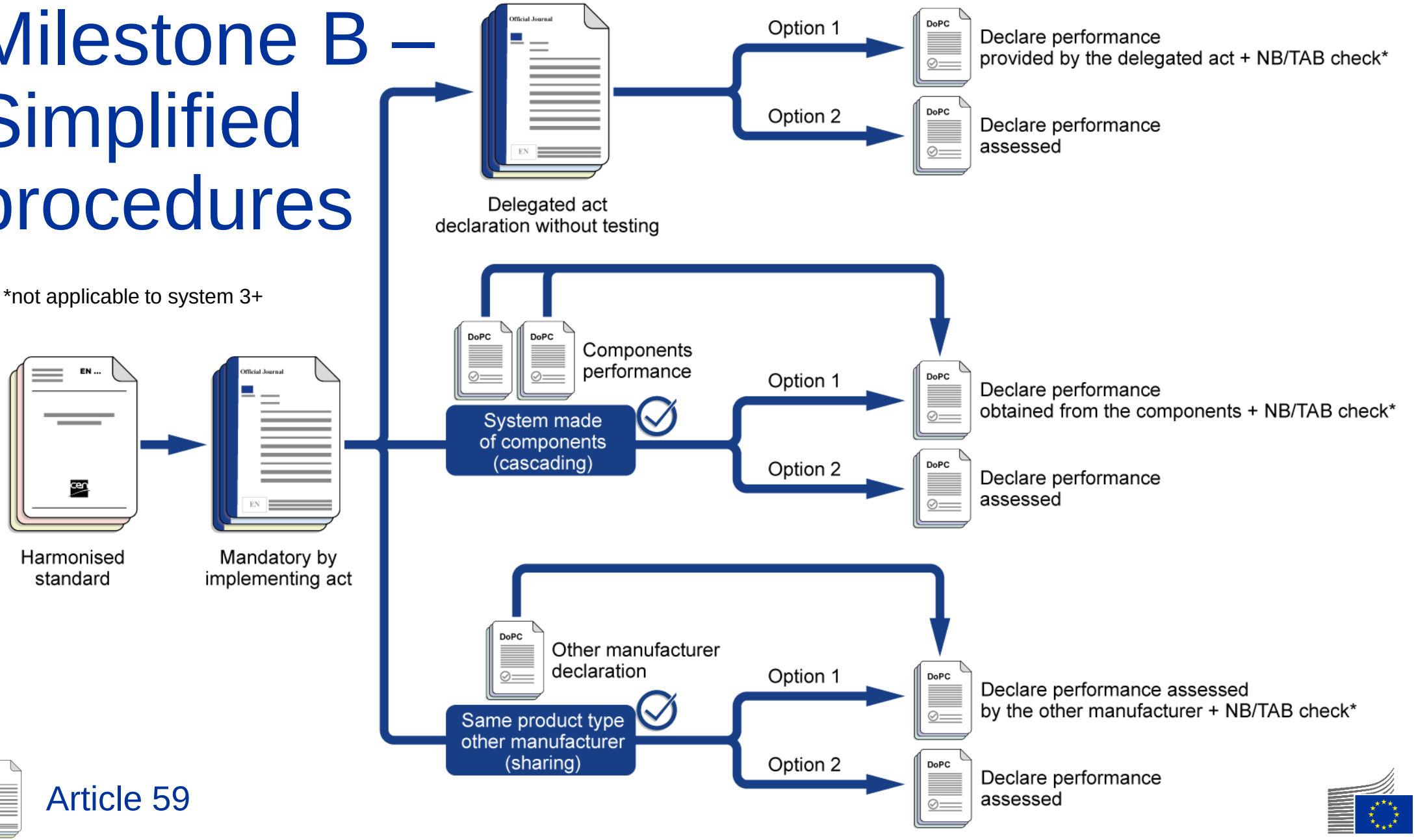
Milestone B - Scenarios

Parameter	Information
Scenario A4.1	Transport by lorry 16-32t, EURO 5
Fuel type and consumption of vehicle or vehicle type used for transport, e.g. long distance truck, boat etc.	Litre of fuel per km
Capacity utilization (including empty returns)	%
Bulk density of transported products	kg/m^3
Volume capacity utilization factor (factor: = 1 or < 1 or ≥ 1 for compressed or nested packaged products)	

Parameter	Information
Scenario C3.1	Mechanical process for recycling
Energy use	Electricity for mechanical activities [MJ]
Scenario C3.2	Chemical process for recycling
Energy use	Electricity for mechanical activities [MJ]

Milestone B – Simplified procedures

*not applicable to system 3+



Article 59

Milestone C – AV system 3+

Manufacturer

performance assessment

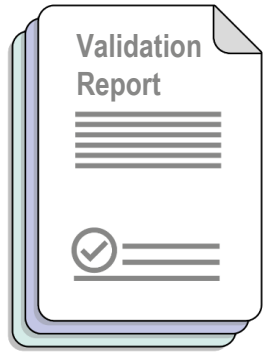
factory production control

Notified Body

validation of the assessment

- input values
- assumptions
- compliance with applicable PCR
- process applied
- correct usage of software

initial inspection of the manufacturing plant to validate any company-specific data



Validation Report

Annex IX

Product families

Fire

Dangerous substances

Environmental sustainability

1 Precast normal/ lightweight/ autoclaved aerated concrete products 1	17 Masonry and related products - Masonry units, mortars, and ancillaries. 9	5 Structural bearings - Pins for structural joints 17	7 Gypsum products 25	6 Chimneys, flues and specific products 33
20 Structural metallic products and ancillaries 2	24 Aggregates 10	34 Building kits, units, and prefabricated elements 18	33 Fixings 26	32 Sealants for joints 34
16 Reinforcing and prestressing steel for concrete – Post-tensioning kits 3	10 Fixed fire fighting equipment 11	21 Internal & external wall and ceiling finishes. Internal partition kits 19	3 Membranes, including liquid applied and kits 27	35 Fire stopping, sealing and protective products - Fire retardant products
2 Doors, windows, shutters, gates and related building hardware 4	23 Road construction products 12	27 Space heating appliances 20	30 Flat glass, profiled glass and glass block products 28	29 Construction products in contact with water intended for human consumption
15 Cement, building limes and other hydraulic binders 5	19 Floorings 13	22 Roof coverings, roof lights, roof windows, and ancillary products. roof kits 21	8 Geotextiles, geomembranes, and related products 29	36 Attached ladders
4 Thermal insulation products - Composite insulating kits/systems 6	4 Thermal insulation products - Composite insulating kits/systems 14	12 Circulation fixtures: road equipment 22	11 Sanitary appliances 30	
13 Structural timber products/elements and ancillaries 7	9 Curtain walling/cladding/structural sealant glazing 15	18 Wastewater engineering products 23	28 Pipes-tanks and ancillaries not in contact with water for human consumption 31	
26 Products related to concrete, mortar and grout 8	14 Wood based panels and elements 16	25 Construction adhesives 24	31 Power, control and communication cables 32	

Horizontal subgroups

Standardisation request adopted

CPR Acquis ongoing work

CPR Acquis not started yet

Fast track ongoing

1 Priority

Conclusions

The system is already taking its final shape

c-PCR will ensure homogeneous implementation

Pending issues:

- Carbon removals
- Background data
- Declaration without testing

Thank you

European Standardization Organizations

The process of establishing a harmonized product standard and the relation with a c-PCR

Nuno Pargana, CEN and CENELEC

Content

- Harmonized standard workflow
- CPR Acquis
- Standardization request development and SRAHG
- Harmonized standards development
- c-PCR: key points for TCs

Acronyms

BT: Technical Board

c-PCR: complementary Product Category Rules

CPR: Construction Products Regulation

EC: European Commission

EN: European Standard

hEN: Harmonized European standard

QC: Quality-check

SRAHG: standardization request ad-hoc group

SReq: standardization request

New CPR: Harmonized standard workflow

STEP 1

CPR Acquis
- CPR Acquis Steering Group
- CPR Acquis SG 1
- CPR Acquis SG 2
- CPR Acquis SG …

European Commission

STEP 2

Consultation

Standardization request (SReq)

SReq is a precondition for harmonized standards development

SReq accepted by CEN

STEP 3

Draft Harmonized standard

ASSESSMENT

STEP 4

Official Journal of the European Union

Legislation

Harmonized standard

ASSESSMENT

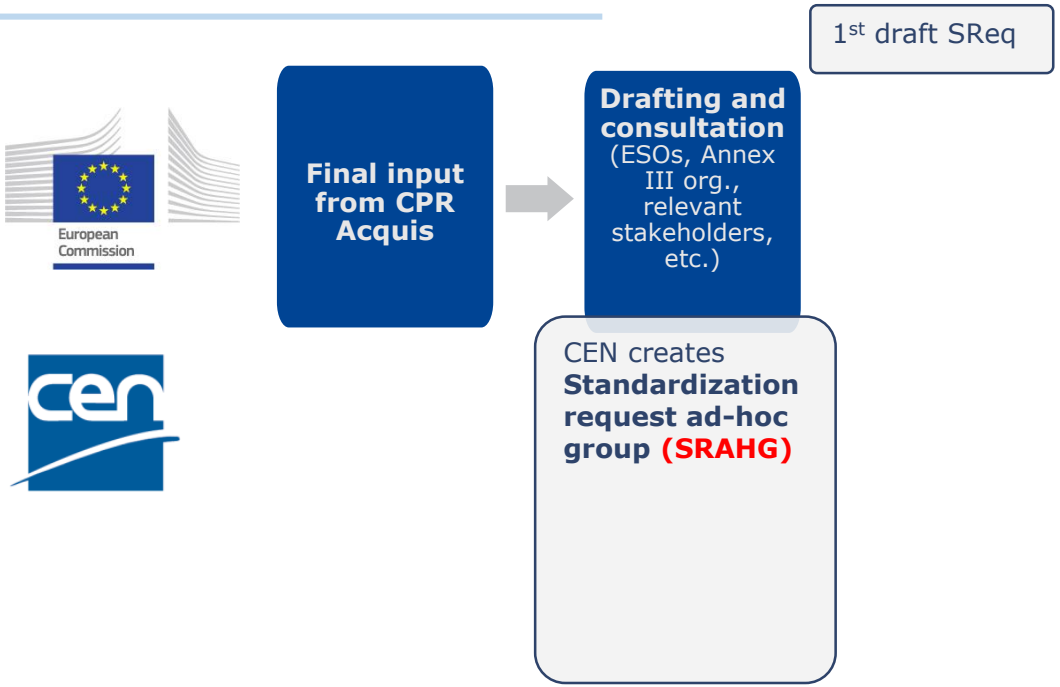
EC assessment of hEN

CPR Acquis

- **Goal**: ensure compliance of Acquis with the CPR
- Prioritization list: **34 product families**
- CPR Acquis: collection of input for the preparation of standardization requests
- **CPR acquis is key for well-functioning of new CPR**

	2021	2022				2023				2024				2025
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
HORIZONTAL SUBGROUPS														
Dangerous substances														Waiting
Fire														Waiting
Environmental sustainability					Start									
PRODUCT SUBGROUPS														
Rank	**Mandate**	**Product families**	**Fast track**											
1	M100	Precast concrete		Start										
2	M120	Structural metallic		Start										
3	M115	Reinforcing steel				Start								...
4	M101	Doors, windows				Start								...
5	M114	Cement						Start						...
6	M103	Thermal insulating						Start						...
7	M112	Structural timber											Start	
8	M128	Concrete, mortar &											Start	
9	M116	Masonry												Upcoming
10	M125	Aggregates												Upcoming
11	M109	Fixed fire fighting												Queueing
12	M124	Road construction												
13	M119	floorings												
14	M489	ETICS												
15	M108	Curtain walling	X											
16	M113	Wood base												
17	M104	Structural bearings												
18	???	Kits and assembled products												
19	M121	Wall and ceiling finishes												
20	M129	Space heating												
21	M122	Roof coverings												
22	M111	Circulation fictures												
23	M118	Waste water disposal												
24	M127	Adhesive												
25	M106	Gypsum												
26	???	Anchors and fasteners												
27	M102	Membrames												
28	M135	Glass	X											
29	M107	Geotextiles												
30	M110	Sanitary appliances												
31	M131	Pipes, tanks not in												
32	M443	Power, control and												
33	M105	Chimney	X											
34	M474	Sealants for non-												

SReq development process



SReq development process – SRAHG

Standardization Request Ad-hoc Group – SRAHG

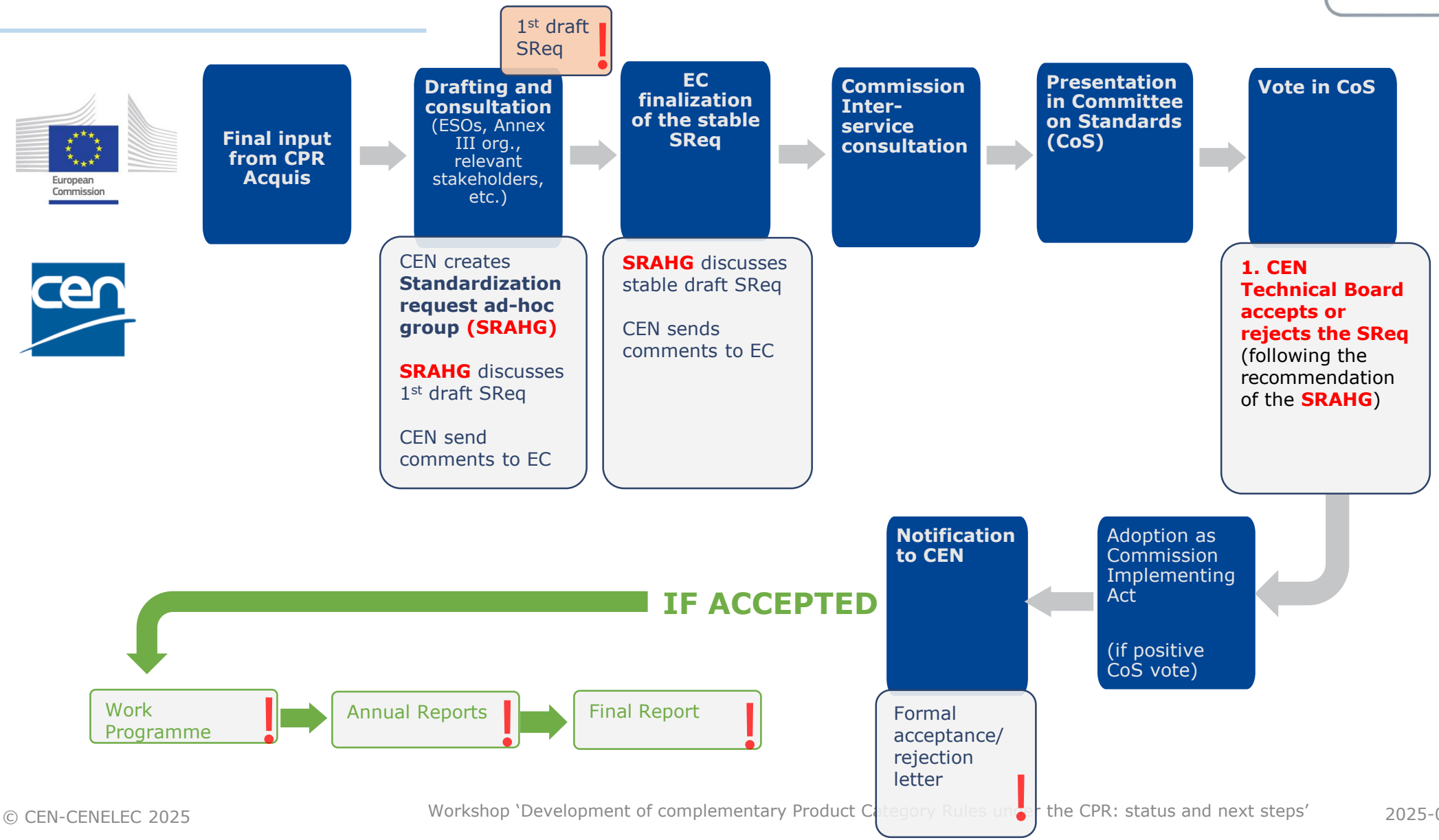
Role: coordination between all stakeholders during drafting of SReq and advises BTs on problematic issues

Composition

- Convenor
- Secretariat: CCMC
- Interested CEN/BT Permanent Delegates (PD)
- Experts nominated by CEN/BT PDs
- Partner Organizations represented in Technical Bodies, including Annex III Organizations
- **Representatives of the concerned Technical Bodies (you!)**
- one representative of Coordination Group
- ISO/IEC representatives
- EC representative

- **Duration**: SRAHG is disbanded upon the acceptance of SReq

Standardization request development



Mandates vs Standardization Requests

	Mandate	Standardization Request
Validity	Open, no deadline	Fixed deadline
Deliverables	Proposed by the TCs	Listed in the SReq, with titles
Old mandate/SReq	Superseded by new one	Superseded by new one
Deadlines for deliverables	No deadlines	Fixed deadlines
Work Programme	Yes, for TCs to suggest list of deliverables	Yes, based on list of deliverables provided in the SReq
Annual Report	No	1/year + Final report
Amendment	Yes	New Implementing act (i.e. new SReq)
TC answers to mandate	Yes	No

EC database for standardization requests

Draft SReq and CEN/TC 350

DECISION BT C117/2022

BT,

- decides, when a new SReq is being developed referring to EN 15804 and/or to quantified environmental characteristics of constructions products or services, that:
  - CEN/TC 350 shall be informed and consulted regarding the content of the draft construction products SReq prior to their acceptance
  - CEN/TCs involved in the execution of the SReq shall contact CEN/TC 350 to inform about the standards of concern and liaise with CENTC 350 to apply the workflow and templates of CEN/TC 350 when developing complementary PCRs to avoid conflicts with EN 15804

Example: SReq precast concrete under CPR

Article 1
Requested standardisation activities

The European Committee for Standardisation (CEN) is requested to draft new harmonised standards listed in Table 1 of Annex I to this Decision and to revise existing European standards listed in Table 2 of Annex I to this Decision for precast concrete products in support of Regulation (EU) No 305/2011 by the deadlines set out in that Annex.

The standards referred to in the first paragraph shall meet the requirements set out in Annex II.

CEN shall provide the Commission with the titles of the requested harmonised standards in all the official languages of the Union.

ANNEX I

List of new standards to be drafted and list of existing standards to be revised as referred to in Article 1

Table 1: List of new harmonised standards to be drafted and deadlines for their adoption

	Reference information	Deadline for the adoption by the ESOs[1]
1.	European standard: 'Precast concrete products performance assessment and declaration' [To covers in its scope solid slabs, HVAC flue elements, junction boxes and products within the scope of EN 15037-1:2008, EN 15037-2:2009+A1:2011, EN 15037-3:2009+A1:2011, EN 15037-4:2010+A1:2013, EN 15037-5:2013, EN 14844:2006+A2:2011, EN 15050:2007+A1:2012, EN 14991:2007, EN 14992:2007+A1, EN 12839:2012, EN 13747:2005+A2:2010, EN 12737:2004+A1:2007, EN 12794:2005+A1:2007, EN 12794:2005+A1:2007/AC:2008, EN 13978:2005, EN 1168:2005+A3:2011, EN 13225:2013, EN 12843:2004, EN 15258:2008, EN 13224:2011, EN 13693:2004+A1:2009, EN 15435:2008, EN 15498:2008 and EN 14843:2007[2]]	15.11.2025
2.	European standard: 'Sustainability of construction works - Environmental product declarations - Product Category Rules for precast lightweight concrete with an open structure and precast autoclaved aerated concrete'	15.11.2025

Table 2: List of existing harmonised standards to be revised and deadlines for their adoption

	Reference information	Deadline for the adoption by the ESOs
1.	EN 1520:2011 to cover 'Precast lightweight concrete products with an open structure'	15.11.2025
2.	EN 12602:2016 to cover 'Precast autoclaved aerated concrete products'	15.11.2025
3	EN 16757:2022 'Sustainability of construction works - Environmental product declarations - Product Category Rules for concrete and concrete elements'	15.11.2025

Performance-based harmonized standards

c-Product Category Rules

SReq Annex II and hENs

- Standardization work must be consistent with EN 15804 and c-PCR

- Each performance-based hEN covers:
  - Products and intended uses
  - Essential characteristics
    - Essential Characteristic 1
    - Essential Characteristic 2
    - Essential Characteristic X
    - Essential Characteristic '**Environmental sustainability**' → assessment method: c-PCR
  - Classes and thresholds (where applicable)

- 'Environmental sustainability' applicable to all harmonized standards

SReq Annex III – environmental sustainability

ANNEX III
List of essential characteristics related to release of dangerous substances and environmental sustainability

Part C. List of essential characteristics related to environmental sustainability

(1) reference service life
(2) climate change - total
(3) climate change - fossil
(4) climate change - biogenic
(5) climate change - land use and land use change
(6) ozone depletion
(7) acidification
(8) eutrophication aquatic freshwater
(9) eutrophication aquatic marine
(10) eutrophication terrestrial
(11) photochemical ozone formation
(12) depletion of abiotic resources - minerals and metals
(13) depletion of abiotic resources - fossil fuels
(14) water use
(15) particulate matter emissions
(16) ionising radiation, human health
(17) ecotoxicity (freshwater)
(18) human toxicity, cancer effects
(19) human toxicity, non- cancer effects
(20) land use related impacts / soil quality
(21) use of renewable primary energy excluding renewable primary energy resources used as raw materials
(22) use of renewable primary energy resources used as raw materials
(23) total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)
(24) use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials
(25) use of non-renewable primary energy resources used as raw materials
(26) total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)
(27) use of secondary material
(28) use of renewable secondary fuels
(29) use of non-renewable secondary fuels
(30) net use of fresh water
(31) hazardous waste disposed
(32) non-hazardous waste disposed
(33) radioactive waste disposed
(34) components for re-use
(35) materials for recycling
(36) materials for energy recovery
(37) exported energy
(38) biogenic carbon content in product
(39) biogenic carbon content in accompanying packaging

SReq Annex VI – Scenarios for c-PCR

ANNEX VI
Environmental sustainability related harmonised scenarios

The following harmonised scenarios shall be included in the standard.

Module	Harmonised scenario	Description	Comments
A1-A3	N/A	calculation according to the constituents and manufacturing process including packaging	
A4	transport by lorry	transport of the declared unit by lorry, value declared per km	different scenarios to be defined in the standard depending on the size and weight
A4	transport by train	transport of the declared unit by train, value declared per km	
A4	transport by ship (inland waterway)	transport of the declared unit by ship, value declared per km	
A4	transport by ship (ocean)	transport of the declared unit by ship, value declared per km	
A5	lifting, erecting, and fixing - electric machinery	required tasks to finalise the assembly of the product	value to be used for the final calculation together with the applicable energy mix impacts e.g., crane energy consumption
A5	lifting, erecting, and fixing - fuel machinery	required tasks to finalise the assembly of the product	standard fuel use
A5	complementary processes	additional processes related to the installation	e.g., joints installation
B1	carbonation in use	carbonation per year	conditions calculated according to the rules provided. EN 16757 Annex G provides a reference method
B2	maintenance		if not relevant, impacts equal to zero e.g., cleaning surfaces
B3	repair of elements		if not relevant, impacts equal to zero
B4	replacement of elements		if not relevant, impacts equal to zero e.g., joints replacement
B5	refurbishment of elements		if not relevant, impacts equal to zero
B6	operational energy use		if not relevant, impacts equal to zero
B7	operational water use		if not relevant, impacts equal to zero
C1	demolition		elements transformed into debris
C1	disassembly		elements recovered for potential second use
C2	transport by lorry of debris	transport of the declared unit by lorry, value declared per km	
C2	transport by lorry of complete elements	transport of the declared unit by lorry, value declared per km	different scenarios depending on the size and weight
C3	disposal at a landfill site		preparation for disposal
C3	reuse of elements		preparation for reuse of elements
C3	use of debris in land restoration		preparation for the use in land restoration
C3	crushing/recycling of concrete without further processing -		value to be used for the final calculation together with the

Example: SReq precast concrete products

Module	Harmonised scenario	Description	Comments
	electric machinery		applicable energy mix impacts
C3	crushing/recycling of concrete without further processing - fuel machinery		standard fuel use
C3	reinforcement recovery		
C4	disposal of debris	treatment and disposal	
C4	carbonation in landfilling		carbonation in landfill calculated according to the rules provided. EN 16757 Annex G provides a reference method
D	reuse in new construction works outside the boundary limits		
D	use of debris in land restoration outside the boundary limits		
D	crushing recycling of concrete outside the boundary limits		
D	recycling of reinforcement outside the boundary limits		
D	waste packaging recycling outside the boundary limits		
D	waste packaging recovery as energy source outside the boundary limits		
D	aggregates replacement outside the boundary limits		
D	carbonation outside the boundary limits		conditions calculated according to the rules provided. EN 16757 Annex G provides a reference method

c-PCR and CPR

- Is a c-PCR a harmonized standard?
- Article 2(1.c) of Reg 1025/2012: *'harmonised standard' means a European standard adopted on the basis of a request made by the Commission for the application of Union harmonisation legislation;'*
- c-PCR will not have an Annex ZA

ANNEX I

List of new standards to be drafted and list of existing standards to be revised as referred to in Article 1

Table 1: List of new harmonised standards to be drafted and deadlines for their adoption

	Reference information	Deadline for the adoption by the ESOs[1]
1.	European standard: 'Precast concrete products performance assessment and declaration' [To covers in its scope solid slabs, HVAC flue elements, junction boxes and products within the scope of EN 15037-1:2008, EN 15037-2:2009+A1:2011, EN 15037-3:2009+A1:2011, EN 15037-4:2010+A1:2013, EN 15037-5:2013, EN 14844:2006+A2:2011, EN 15050:2007+A1:2012, EN 14991:2007, EN 14992:2007+A1, EN 12839:2012, EN 13747:2005+A2:2010, EN 12737:2004+A1:2007, EN 12794:2005+A1:2007, EN 12794:2005+A1:2007/AC:2008, EN 13978:2005, EN 1168:2005+A3:2011, EN 13225:2013, EN 12843:2004, EN 15258:2008, EN 13224:2011, EN 13693:2004+A1:2009, EN 15435:2008, EN 15498:2008 and EN 14843:2007[2]]	15.11.2025
2.	European standard: 'Sustainability of construction works - Environmental product declarations - Product Category Rules for precast lightweight concrete with an open structure and precast autoclaved aerated concrete'	15.11.2025

Table 2: List of existing harmonised standards to be revised and deadlines for their adoption

	Reference information	Deadline for the adoption by the ESOs
1.	EN 1520:2011 to cover 'Precast lightweight concrete products with an open structure'	15.11.2025
2.	EN 12602:2016 to cover 'Precast autoclaved aerated concrete products'	15.11.2025
3	EN 16757:2022 'Sustainability of construction works - Environmental product declarations - Product Category Rules for concrete and concrete elements'	15.11.2025

hEN development and offering

- **SReq**: legal basis for harmonized standards
- **Innovative process for development of hENs under CPR**
  1. HAS assessment system applicable (HAS consultants)
  2. **CEN quality-check (QC)**
  3. Four possible HAS assessments by consultants
- In the frame of HAS/EC hEN assessments, supporting standards (e.g., c-PCR) will be checked
- Guidance, templates and checklists under preparation

Revised CEN-CLC Guide 36

Link for **Guide 36**

CEN-CENELEC GUIDE 36

Guidance on the rules for the drafting and presentation of candidate harmonized standards in support of the Regulation (EU) 305/2011 Construction Products Regulation

April 2024

Draft revised CEN-CENELEC Guide 36:2024(E)

MODEL CLAUSE

4.x **Reference service life**

The reference service life is the service life to be expected under a set of reference in-use conditions with which the characteristics of the products are consistent. When assessed in accordance with the method given in clause 5.x, the results are expressed as a value in years.

4.9.5.3 Life cycle assessment environmental essential characteristics

Life cycle assessment environmental essential characteristics correspond to the life cycle assessment core and additional environmental indicators in EN 15804:2012+A2:2019+AC:2021. They shall be included as characteristics if included in the standardization request.

MODEL CLAUSE

4.x **Life cycle assessment environmental characteristics**

Characteristics in table x are related to the life cycle assessment of the product. When assessed in accordance with the method given in clause 5.x, the results are expressed as a value in the units included in table x for modules A1 to A3 and for each module and European harmonised scenario described in clause 5.x.

Table x - life cycle assessment environmental characteristics

Characteristic	Unit	dimensions
climate change – total	kg CO_2 eq.	M
climate change – fossil	kg CO_2 eq.	M
climate change – biogenic	kg CO_2 eq.	M
climate change - land use and land use change	kg CO_2 eq.	M
ozone depletion	kg CFC 11 eq.	M
Acidification	mol H^+ eq.	N
eutrophication aquatic freshwater	kg PO_4 eq.	M
eutrophication aquatic marine	kg N eq.	M
eutrophication terrestrial	mol N eq.	N
photochemical ozone formation	kg NMVOC eq.	M
depletion of abiotic resources - minerals and metals	kg Sb eq.	M
depletion of abiotic resources - fossil fuels	MJ, net calorific value	ML2T-2
water use	m^3 world eq. deprived	L3
particulate matter emissions	Disease incidence	-
ionising radiation, human health	kBq U235 eq.	S-1
ecotoxicity (freshwater)	CTUe	M-1
human toxicity, cancer effects	CTUh	M-1
human toxicity, non- cancer effects	CTUh	M-1
land use related impacts / soil quality	Unitless	-

4.10.4 Environmental sustainability related essential characteristics

4.10.4.1 General

In case essential characteristics related to environmental sustainability are included in the standardisation request, the following rules apply.

4.10.4.2 Reference service life

The standardization request will provide rules for the calculation of the reference service life which may be related to specific rules described in the harmonized standard and in the relevant c-PCR.

MODEL CLAUSE

5.x Reference service life

For products off-the shelf [Text to be removed if all products are off-the shelf], the reference service life shall be defined according to reference in-use conditions as defined in [applicable c-PCR]. The consistency with other characteristics related to the product with an influence on it shall be considered.

For custom-made products, the reference service life shall be defined according to [applicable c-PCR] and/or this standard, considering the service life required in the project and the expected loads and exposure scenarios. The consistency with other characteristics related to the product with an influence on t shall be considered. [Text to be removed if not applicable]

The result derived from the assessment will correspond to minimum value determined (in case of more than one) rounded to the nearest integer.

The performance shall be expressed in dimensions T and in unit year.

4.10.4.3 Life cycle assessment environmental essential characteristics

Model clause to define the assessment method applicable to the life cycle assessment environmental essential characteristics.

MODEL CLAUSE

5.x **Life cycle assessment environmental characteristics**

Life cycle assessment environmental characteristics shall be assessed according to EN 15804:2012+A2:2019+AC, [applicable c-PCR] and the following… [complete with the necessary information when needed]

The results derived from the assessment will correspond to the results for each module and each European harmonized scenario, as described in [applicable c-PCR].

The performance shall be expressed in the dimensions and units included in table [reference to table in clause 4.9.5.3].

4.10.4.4 Resource use environmental essential characteristics

Model clause to define the assessment method applicable to the resource use environmental essential characteristics.

MODEL CLAUSE

5.x **Resource use environmental characteristics**

Resource use environmental characteristics shall be assessed according to EN 15804:2012+A2:2019+AC, [applicable c-PCR] and the following… [complete with the necessary information]

The results derived from the assessment will correspond to the results for each module and each European harmonized scenario, as described in [applicable c-PCR].

The performance shall be expressed in the dimensions and units included in table [reference to table in

Revised Annex ZA

Annex ZA
(informative)

Relationship of this European Standard with Regulation (EU) No.305/2011

(When applying this standard as a harmonized standard under Regulation (EU) No. 305/2011, manufacturers and Member States are obliged by this regulation to use this Annex)

ZA.1 Scope and relevant characteristics

This European Standard has been prepared under standardization request [code and the title of the standardization request] given to [insert here CEN or CENELEC] by the European Commission (EC) and the European Free Trade Association (EFTA).

When this European Standard is cited in the Official Journal of the European Union (OJEU), under Regulation (EU) No 305/2011, it shall be possible to use it as a basis for the establishment of the Declaration of Performance (DoP) and the CE marking, from the date of the beginning of the co-existence period as specified in the OJEU.

Regulation (EU) No 305/2011, as amended, contains provisions for the DoP and the CE marking.

Table ZA.1.1 — Relevant clauses for product [A-n] and intended use [1-n]

Product: [name of product A-n as given in the standardization request] **Intended use:** [intended use 1-n as given in the standardization request]				
Essential characteristics *[1]*	**Clause of this European standard related to essential characteristic** *[2]*	**Clauses of this European standard related to assessment** *[3]*	**Classes and/or threshold levels** *[4]*	**Notes** *[5]*
[name of essential characteristic 1 as given in the standardization request]				
[name of essential characteristic 2 as given in the standardization request]				
[name of essential characteristic n as given in the standardization request]				

Table ZA.1.x — Relevant clauses for all products and intended uses related to environmental sustainability

Essential characteristics on environmental sustainability	**Clause of this European standard related to essential characteristics**	**Clauses of this European standard related to assessment**	**Classes and/or threshold levels**	**Notes**
climate change – total				
climate change – fossil				
climate change - biogenic				
climate change - land use and land use change				
ozone depletion				
Acidification				
eutrophication aquatic freshwater				
eutrophication aquatic marine				
eutrophication terrestrial				
photochemical ozone formation				
depletion of abiotic resources - minerals and metals				
depletion of abiotic resources - fossil fuels				
water use				
particulate matter emissions				
ionising radiation, human health				

c-PCR: key points for TCs

- TCs developing hENs under CPR must develop c-PCR
  - How urgent? Check CPR Acquis priority list

- Inform CEN/TC 350 secretariat about c-PCR development

- Drafting c-PCR:
  - Use templates from CEN/TC 350
  - Recommendation: c-PCR should be EN with dated normative references
  - Ensure fulfilment with requirements of SReq (if applicable)
  - Ideally should be published before performance-based hEN
  - Be aware of decision BT 003/2013:
    - BT asks CEN/TCs developing product standards to take into consideration the horizontal rules of EN 15804
    - BT encourages the close liaison between CEN/TC 350 and product TCs when preparing PCRs based on EN 15804

Overview of c-PCR

Revision/amd ongoing

EN 16757 cPCR Concrete	**EN 17074** cPCR Glass	**EN 16485** cPCR timber	**FprEN 17662** cPCR Steel and Aluminium	**prEN 16903** cPCR Plastic piping outside building	**prEN XXXXX** cPCR Masonry
EN 16908 cPCR Cement	**EN 17213** cPCR Windows & doorsets	**EN 17160** cPCR Ceramic tiles	**prEN 18001** cPCR Curtain walling	**prEN 16904** cPCR Plastic piping inside building	**prEN XXXXX-1** cPCR Aggregates
EN 17610 cPCR Building hardware	**EN 16810** cPCR Resilient, textile & laminate floor		**prEN XXXXX** cPCR on fibre cement	**prEN 295-9** cPCR Clay pipes	**prEN XXXXX-2** cPCR Aggregates
EN 17388-1 cPCR Flexible sheets for water proofing	**EN 17328** cPCR Gypsum	**prEN XXXXX** cPCR for rooflights and roof hatches	**prEN XXXXX** cPCR for wood flooring	**prEN XXXXX** cPCR Ventilation components	**prEN XXXXX** cPCR Chimneys
EN 17388-2 cPCR Flexible sheets for water proofing	**prEN XXXXX** cPCR AAC	**prEN XXXXX** cPCR Geosynthetics	**prEN XXXXX** cPCR Sandwich panels	**prEN XXXXX** cPCR for wood flooring	
EN 16783 cPCR Insulation					

PCR published

Brand new c-PCRs under development

European Standardization Organizations

Shared experience from the sector:

lessons learned from the precast concrete (CEN/TC 229)

Alessio Rimoldi, BIBM

1. Intro

- Environmental sustainability as essential part of product characteristics
- (EN 15804 through) cPCRs as basis for assessment and declaration
- Case of precast concrete products (PCP)
- Focus on pragmatic topics

Agenda

1. Intro

2. Legislative Framework
   a. CPR
   b. Acquis process
   c. Standardisation request

3. Standardisation framework
   a. CEN
   b. TC/229
   c. Environmental sustainability

4. Challenges ahead

5. Pragmatic advices

Agenda

1. Intro

2. Legislative Framework
   a. CPR
   b. Acquis process
   c. Standardisation request

3. Standardisation framework
   a. CEN
   b. TC/229
   c. Environmental sustainability

4. Challenges ahead

5. Pragmatic advices

2. Legislative framework

a. CPR 2011

- Standardisation request prepared in 2023/2024
- The only legal framework at that moment was CPR 2011
- Only standardisation requests issued after 8 January 2025 can be under CPR 2024 (articles 4, 5 and 6)

Source: European Commission

2. Legislative Framework

b. Acquis Process PCP

- Timeline
  - more than 20 months (July 2021 to May 2023) to finish the process
  - 4 milestones, including "Sustainability Assessment" under *Milestone 3 - Content of the harmonised technical specification*

	Task Name
1	**Area 01 _Precast concrete products WP**
2	**Milestone 1 - scope of product**
3	List of products
4	List of materials
5	List of intended uses
6	List of forms
7	Supporting product areas
8	**Milestone 2 - creation of technical boards**
9	Working plan
10	Definition of TB
11	Attribution of experts
12	**Milestone 3 content of Hts**
13	A.1 BWR
14	A.2 Threshold and classes
15	A.3 Verification methods
16	B.1 Declared performance
17	B.2 Conditions of use
18	B.3 Work provisions
19	C.1 Safety product requirements
20	D.1 Envir. Prod. requirements
21	E.1 Sust. Assessments
22	F.1 Envir. Obligations for
23	G.1 to G.4 Information
24	**Milestone 4 - Final Consultation and adoption of deliverables**
25	Evaluation of outcomes
26	Reporting outputs
27	Consultation
28	Adoption of outcomes

2. Legislative Framework

b. Acquis Process SG5

Environmental sustainability

- Mainly indicative (SG 5 for CPR 2024) but core principles are valid for PCP

- EN 15804+A2 clauses do not apply within the CPR regulatory framework:
  - Types of EPD (5.2) – In the regulatory context of the CPR, essential characteristics are declared for every module and scenario (exceptions for specific products possible)
  - Additional Information not derived from LCA (5.4.4)
    - A more detailed approach to scenarios is required in the context of the CPR.
    - release of substances must be excluded because they are already addressed by the CPR
  - Ownership, responsibility and liability for the EPD (5.5) – regulated by the CPR.
  - Communication formats (5.6) – CPR specific rules for drafting declarations of performance (references to EN 15942 [6] may be relevant).
  - Content of the EPD (7) – CPR defines content and verification (AVCP/AVS).
  - Project report (8) – This clause is relevant as supporting document for the assessment. In the CPR context it is called technical documentation and manufacturers are obliged to make it available under request of notified bodies and market surveillance authorities.
  - Verification and validity of an EPD (9) – regulatory provisions of the CPR apply.

2. Legislative Framework

c. Standardisation request

- Standardisation request
  - 15months from the first draft (September 2023) to the vote in the CoS (February 2025)

- Legal text + 7 annexes

1. List of standards to be drafted
2. **Requirements** for the standards
3. **Essential characteristics** related to release of dangerous substances and environmental sustainability
4. Factory production control checks
5. Classes
6. Environmental sustainability related **harmonised scenarios**
7. EU standards list

2. Legislative Framework

c. Standardisation request

Environmental sustainability

Annex 2 – ***Requirements*** *for the standards (for each and every product family)*

(b) Essential characteristics, classes, and thresholds

Group (BRCW)	Essential characteristic	EU threshold	Class	Comments
concrete (1)	characteristic compressive strength lightweight concrete with an open structure		■	mandatory declaration
	dry density lightweight concrete with an open structure	≥400 kg/m³ ≤2000 kg/m³	■	mandatory declaration
	modulus of elasticity lightweight concrete with an open structure - testing			
	modulus of elasticity lightweight concrete with an open structure - calculation			
	drying shrinkage lightweight concrete with an open structure - testing			
	drying shrinkage lightweight concrete with an open structure - tabulated values			
	freeze-thaw resistance of concrete			hardened concrete
	corrosion protection			hardened concrete
reinforcing steel (1)	elongation at maximum load - reinforcing steel			products reinforced with steel, galvanised steel or stainless steel
	elongation after fracture - reinforcing steel			
	stress ratio - reinforcing steel			
	tensile yield strength - reinforcing steel			
	ultimate tensile strength - reinforcing steel			
fire performance (2)	reaction to fire - class declaration		■	
water performance (3)	water vapour permeability - resistance factor - testing			
	water vapour permeability - resistance factor - tabulated value			
acoustic performance (5)	airborne sound insulation index - calculation			
	airborne sound insulation index - testing			
	sound absorption coefficient building elements			
	sound absorption coefficient traffic elements			
other performances (1&7)	mass of the element			
release of dangerous substances - indoor air (3)	all included in annex III part A			
release of dangerous substances - soil and ground water (3)	all included in annex III part B			
environmental sustainability (7)	all included in annex III part C			

2. Legislative Framework

c. Standardisation request

Environmental sustainability

Annex 3(C) – Essential characteristics

related to release of dangerous substances and environmental sustainability

Part C. List of essential characteristics related to environmental sustainability

(1)	reference service life
(2)	climate change - total
(3)	climate change - fossil
(4)	climate change - biogenic
(5)	climate change - land use and land use change
(6)	ozone depletion
(7)	acidification
(8)	eutrophication aquatic freshwater
(9)	eutrophication aquatic marine
(10)	eutrophication terrestrial
(11)	photochemical ozone formation
(12)	depletion of abiotic resources - minerals and metals
(13)	depletion of abiotic resources - fossil fuels
(14)	water use
(15)	particulate matter emissions
(16)	ionising radiation, human health
(17)	ecotoxicity (freshwater)
(18)	human toxicity, cancer effects
(19)	human toxicity, non- cancer effects
(20)	land use related impacts / soil quality
(21)	use of renewable primary energy excluding renewable primary energy resources used as raw materials
(22)	use of renewable primary energy resources used as raw materials
(23)	total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)
(24)	use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials
(25)	use of non-renewable primary energy resources used as raw materials
(26)	total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)
(27)	use of secondary material
(28)	use of renewable secondary fuels
(29)	use of non-renewable secondary fuels
(30)	net use of fresh water
(31)	hazardous waste disposed
(32)	non-hazardous waste disposed
(33)	radioactive waste disposed
(34)	components for re-use
(35)	materials for recycling
(36)	materials for energy recovery
(37)	exported energy
(38)	biogenic carbon content in product
(39)	biogenic carbon content in accompanying packaging

"Reference service life" + 38 indicators of EN 15804 (7.2.3 to 7.2.5)

2. Legislative Framework

c. Standardisation request

Environmental sustainability

Annex 6 *– Environmental sustainability related* ***harmonised scenarios***

The following harmonised scenarios shall be included in the standard.

Module	Harmonised scenario	Description	Comments
A1-A3	N/A	calculation according to the constituents and manufacturing process including packaging	
A4	transport by lorry	transport of the declared unit by lorry, value declared per km	different scenarios to be defined in the standard depending on the size and weight
A4	transport by train	transport of the declared unit by train, value declared per km	
A4	transport by ship (inland waterway)	transport of the declared unit by ship, value declared per km	
A4	transport by ship (ocean)	transport of the declared unit by ship, value declared per km	
A5	lifting, erecting, and fixing - electric machinery	required tasks to finalise the assembly of the product	value to be used for the final calculation together with the applicable energy mix impacts e.g., crane energy consumption
A5	lifting, erecting, and fixing - fuel machinery	required tasks to finalise the assembly of the product	standard fuel use
A5	complementary processes	additional processes related to the installation	e.g., joints installation
B1	carbonation in use	carbonation per year	conditions calculated according to the rules provided. EN 16757 Annex G provides a reference method
B2	maintenance		if not relevant, impacts equal to zero e.g., cleaning surfaces
B3	repair of elements		if not relevant, impacts equal to zero
B4	replacement of elements		if not relevant, impacts equal to zero e.g., joints replacement
B5	refurbishment of elements		if not relevant, impacts equal to zero
B6	operational energy use		if not relevant, impacts equal to zero
B7	operational water use		if not relevant, impacts equal to zero
C1	demolition		elements transformed into debris
C1	disassembly		elements recovered for potential second use
C2	transport by lorry of debris	transport of the declared unit by lorry, value declared per km	
C2	transport by lorry of complete elements	transport of the declared unit by lorry, value declared per km	different scenarios depending on the size and weight
C3	disposal at a landfill site		preparation for disposal
C3	reuse of elements		preparation for reuse of elements
C3	use of debris in land restoration		preparation for the use in land restoration
C3	crushing/recycling of concrete without further processing -		value to be used for the final calculation together with the

Module	Harmonised scenario	Description	Comments
	electric machinery		applicable energy mix impacts
C3	crushing/recycling of concrete without further processing - fuel machinery		standard fuel use
C3	reinforcement recovery		
C4	disposal of debris	treatment and disposal	
C4	carbonation in landfilling		carbonation in landfill calculated according to the rules provided. EN 16757 Annex G provides a reference method
D	reuse in new construction works outside the boundary limits		
D	use of debris in land restoration outside the boundary limits		
D	crushing recycling of concrete outside the boundary limits		
D	recycling of reinforcement outside the boundary limits		
D	waste packaging recycling outside the boundary limits		
D	waste packaging recovery as energy source outside the boundary limits		
D	aggregates replacement outside the boundary limits		
D	carbonation outside the boundary limits		conditions calculated according to the rules provided. EN 16757 Annex G provides a reference method

Complementing and specifying 7.3 of EN 15804

Agenda

1. Intro

2. Legislative Framework
   a. CPR
   b. Acquis process
   c. Standardisation request

3. Standardisation framework
   a. CEN
   b. TC/229
   c. Environmental sustainability

4. Challenges ahead

5. Pragmatic

3. Standardisation framework

a. CEN

SRAHG

- ensures coordination between and input from all relevant CEN stakeholders during the **drafting** and **approval** of SRs
  - DURING - advises in case **problematic issues** associated with the SR arise
  - AFTER CoS approval - to develop a **consensus view** about acceptance/refusal of a SR by CEN/BT

INVOLVED TCs

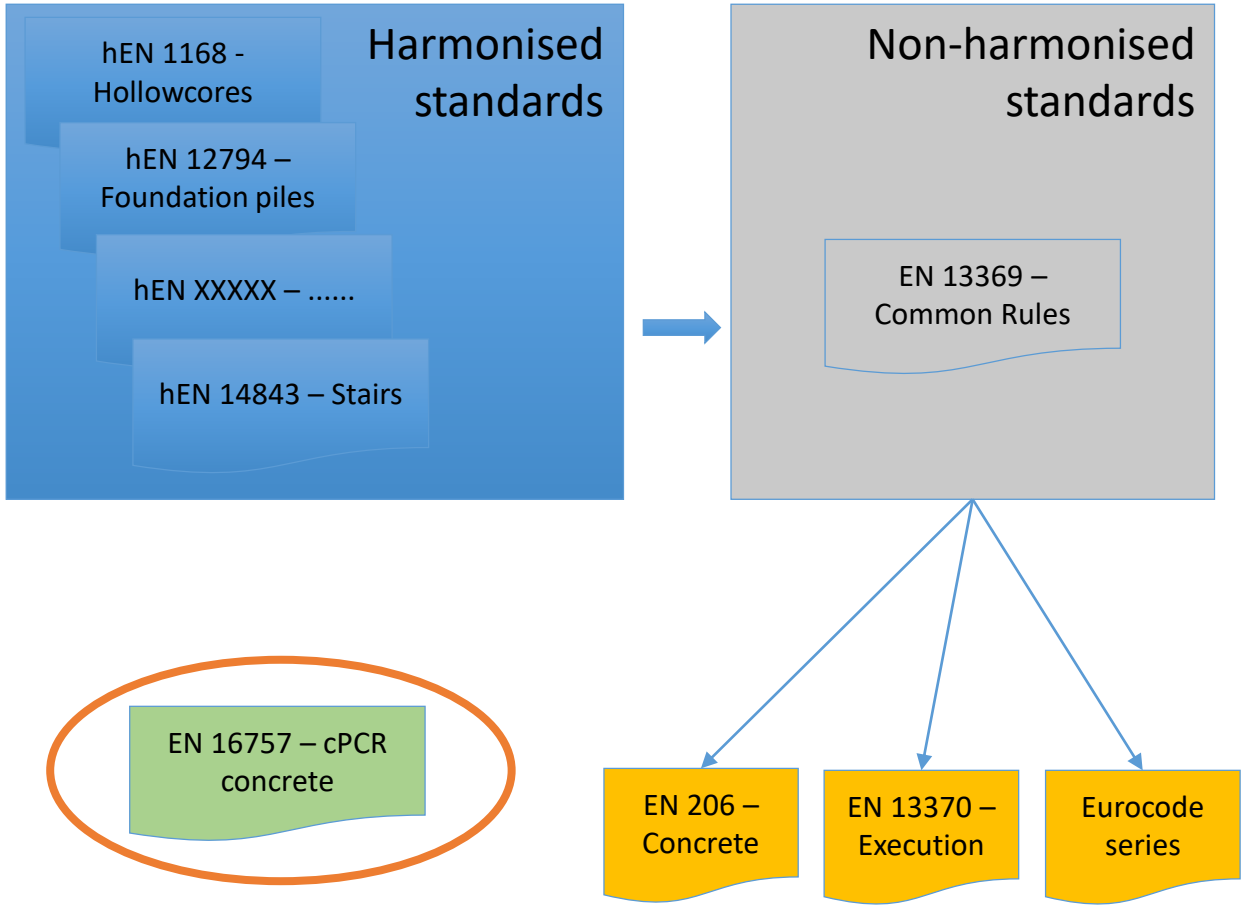
- **TC 229 "Precast Concrete Products"**
- TC 177 "AAC and lightweight concrete with open structure"

3. Standardisation framework

b. CEN/TC 229

Current framework

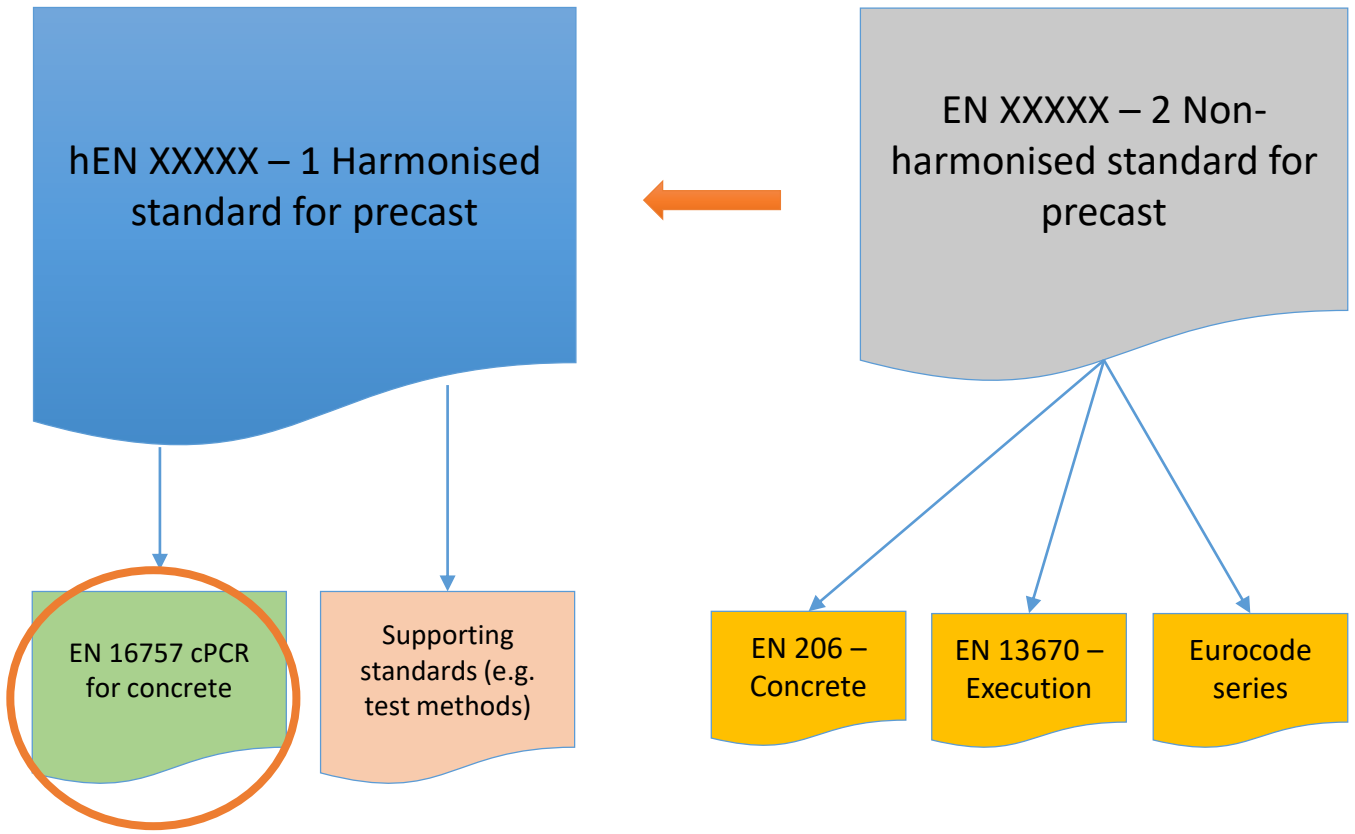
Today



3. Standardisation framework

b. CEN/TC 229

Potential future framework



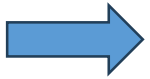
3. Standardisation framework

c. Environmental sustainability

Standardisation request

+

Input from SG 5



Clauses and Annexes in hEN

+

cPCR for Concrete and Concrete elements

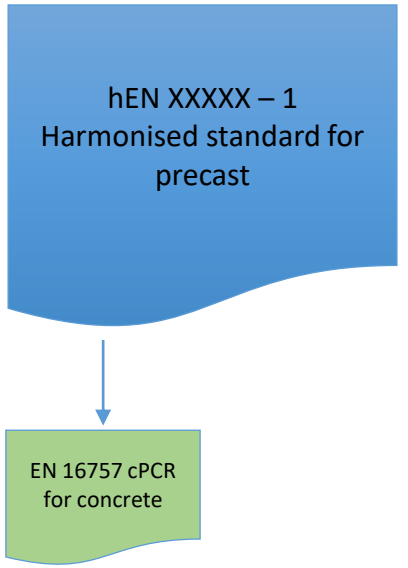
TC 229 choice!
It is also possible to draft a harmonised cPCR

3. Standardisation framework

1-3	Introduction, scope, definitions, references
4	CHARACTERISTICS
5	TESTING, ASSESSMENT, SAMPLING
6	AVCP (AVS)
A	Annexes
ZA	Relation with CPR

Harmonised Standards

Structure



3. Standardisation framework

1-3	Introduction, scope, definitions, references
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c. Environmental sustainability

Characteristics (from Annex II of the SR)

0. Reference service life
1. Life cycle assessment environmental characteristics
2. Resource use environmental characteristics
3. Waste environmental characteristics
4. Output flows environmental characteristics
5. Biogenic carbon environmental characteristics

Characteristic	Unit	dimensions
climate change – total	kg CO_2 eq.	M
climate change – fossil	kg CO_2 eq.	M
climate change – biogenic	kg CO_2 eq.	M
climate change - land use and land use change	kg CO_2 eq.	M
ozone depletion	kg CFC 11 eq.	M
Acidification	mol H^+ eq.	N
eutrophication aquatic freshwater	kg PO_4 eq.	M
eutrophication aquatic marine	kg N eq.	M

Characteristic	unit	dimensions
use of renewable primary energy excluding renewable primary energy resources used as raw materials	MJ	ML2T-2
use of renewable primary energy resources used as raw materials	MJ	ML2T-2
total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	ML2T-2

3. Standardisation framework

1-3	Introduction, scope, definitions, references
4	CHARACTERISTICS
5	TESTING, ASSESSMENT, SAMPLING
6	AVCP (AVS)
A	Annexes
ZA	Relation with CPR

c. Environmental sustainability

Testing, assessment, sampling

- Reference service life
  - reference to cPCR for Concrete for the assessment
  - Distinction between off-the-shelf and made-to-measure products
- Environmental characteristics
  - Same approach for the 5 families
  - Reference to EN 15804+A2 and cPCR for Concrete for the assessment
  - "The results derived from the assessment will correspond to the results for **each module** and **each scenario**"

3. Standardisation framework

1-3	Introduction, scope, definitions, references
4	CHARACTERISTICS
5	TESTING, ASSESSMENT, SAMPLING
6	AVCP (AVS)
A	Annexes
ZA	Relation with CPR

c. Environmental sustainability

AVCP (AVS)

1. ITT (Assessment of performance)

- Test samples, testing and assessment criteria

Characteristic	Clause	Minimum No. of samples	Assessment methods and criteria
Reference service life	4.11.1	modelling applicable to the product family	5.8
climate change – total	4.11.2	modelling applicable to the product family	5.9.1
climate change – fossil	4.11.2	modelling applicable to the product family	5.9.1

Reference to "Characteristics"

Reference to "Testing, assessment, sampling"

3. Standardisation framework

1-3	Introduction, scope, definitions, references
4	CHARACTERISTICS
5	TESTING, ASSESSMENT, SAMPLING
6	AVCP (AVS)
A	Annexes
ZA	Relation with CPR

c. Environmental sustainability

AVCP (AVS)

2. Verification of constancy of performance

- FPC
- **Initial inspection** to validate environmental sustainability company specific data
  - when the production process has been **finalized** and in operation
  - **factory documentation** shall be assessed to verify that environmental sustainability company specific data is correct and representative
  - All **locations** where environmental sustainability company specific data is collected shall be assessed
  - Possibility to **extend environmental sustainability company specific data** to more than one product, production line or production process
  - All assessments and their results shall be **documented** in the initial inspection report
- Continuous surveillance of FPC
- Environmental sustainability assessment **validation**
  - Environmental sustainability assessment (**ITT**) shall be validated.
  - The records of input values and assumptions shall be reviewed to validate that they correspond to the **product-type**.
  - Reference to EN 15804:2012+A2 and cPCR for concrete to be reviewed to validate that rules are **properly used**.
  - The **process** and any **software** used for the assessment to be reviewed to validate that the results are consistent and correct and provide conservative results

3. Standardisation framework

1-3	Introduction, scope, definitions, references
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A	Annexes
ZA	Relation with CPR

c. Environmental sustainability

Normative annex J

Environmental impact indicators

- Defines the rules for the application of the cPCR for concrete
- The cPCR applies fully except where EN 15804+A2 is not in line with the CPR (see slide 5 – Acquis process SG5)
  - Either the cPCR for concrete applies **with modifications** for a limited number of topics
    - Objective – reference to scenarios development and data quality
    - Additional information not derived from LCA are excluded
    - Reference to Annex G of cPCR for concrete for the assessment of carbonation
    - Transportation and end-of-life scenarios clarification (in line with the SR)
    - Characterisation factors
  - Or cPCR clauses are **not applicable**
    - 5.2 Types of EPD with respect to life cycle stages covered
    - 5.3 Comparability of EPD for construction products
    - 5.5 Ownership, responsibility and liability for the EPD
    - 5.6 Communication formats
    - 7 Content of the EPD (except for 7.3 Scenarios and additional technical information that is applicable)
    - 8 Project report
    - 9 Verification and validity of an EPD

3. Standardisation framework

1-3	Introduction, scope, definitions, references
4	CHARACTERISTICS
5	TESTING, ASSESSMENT, SAMPLING
6	AVCP (AVS)
A	Annexes
ZA	Relation with CPR

c. Environmental sustainability

Annex ZA

Table ZA.1.8 — Relevant clauses for environmental sustainability

Product:	Solid slabs, HVAC flue elements, junction boxes, beam and blocks: beams, concrete, lightweight concrete, clay and EPS blocks and permanent lightweight formwork, box culverts, deck elements for bridges, cladding elements, fence elements, floor plates, floor slats for livestock, foundation elements, foundation piles, garage boxes, hollow core slabs, linear structural elements, loadbearing and non-loadbearing wall elements, masts and poles, retaining wall elements, ribbed floor elements, special roof elements, concrete and woodchip concrete shuttering blocks, stairs
Intended use	Structural and non-structural

Essential Characteristics	Clauses of this European Standard related to essential characteristics	Clauses of this European standard related to assessment	Classes and/or threshold levels	Notes
reference service life	4.11.1	5.8		Years
climate change - total	4.11.2	5.9		kg CO^2 eq.
climate change - fossil	4.11.2	5.9		kg CO^2 eq.
climate change - biogenic	4.11.2	5.9		kg CO^2 eq.

3. Standardisation framework

Concluding remarks

- In the presented case, the **essential characteristics** related to environmental sustainability have been
  - **included** in the *hEN* (harmonised standard)
  - with **reference** to the *cPCR* (supporting standard)

- Other product families might chose a different strategy
  - Develop a **harmonised** *cPCR*

- Deciding factor in the case of precast:
  - The cPCR is valid for **concrete** (non-harmonised product needing to develop EPDs) **and precast concrete elements** (harmonised products)
  - Harmonised standards have a given **structure** (see above) – would have required deep changes and lack of direct correspondence with EN 15804+A2 structure
  - **Essential characteristics principles** are already in the harmonised standard (otherwise, it should have been repeated in the cPCR)
  - Concrete cPCR can be used (should be) as reference by other TCs developing cPCR for **products made of concrete** (at least for modules A1-A3, C and D)

Agenda

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   b. TC/229
   c. Environmental sustainability

4. Challenges ahead

5. Pragmatic advices

4. Challenges ahead

1 – Tight timeframe

- Harmonised standard to be ready by 15 November 2025
- Harmonised standard to be published in the OJ of the EU by 8 January 2026

2 – Future of EPDs

- Short term
  - Need for a transitional period where both EPDs and DoP(C)s will be made available
- Long-term
  - What will be the compatibility with the DoP(C)s? Will EPDs still be allowed (with the same info as in the DoP(C))?
- National databases
  - What will be their role in the future?
  - "Mixed" input from EPDs and DoP(C)s?

4. Challenges ahead

3 – AVCP 3+

- Now that the system is in place, will verifiers be available (lack of experts)?
- Physical inspections for validation of company-specific data - Costs and timing
- Acceptance on the market of the declaration under DoP(C) instead of “usual” EPDs

4 – Data

- What (secondary background) databases will be accepted?
- All products must comply to their declarations, this leads to what is called “worst case” – no guidance/rules available
- What will be the future of Sectoral DoP(C)s?

5. Pragmatic advices

- The development of a cPCR effectively starts **well before** the work in the TC
  - Acquis process (framework)
    - Involvement as sector and through MS authorities
  - Standardisation request (legal bases)
    - Involvement in SRAHG and relevant product TCs

- cPCR available is a good starting point
  - If you have it, I would advise to create reference in the hEN
  - If not, decide on the strategy (hEN + cPCR or hcPCR) early and start developing a document accordingly

- Ensure cooperation between TCs
  - Under the same SR
    - Different interpretation, different interests ...
    - ... Same challenges!
  - Dealing with same material but different products
    - Ensure consistency (references!)
    - Think about well being of users (not over-regulate)

- Timeframe is quite long, but also requires a lot of work
  - Start as soon as possible!

European Standardization Organizations

The relation of environmental data under the CPR with other EU legislation

Oscar Nieto, European Commission, DG GROW H1

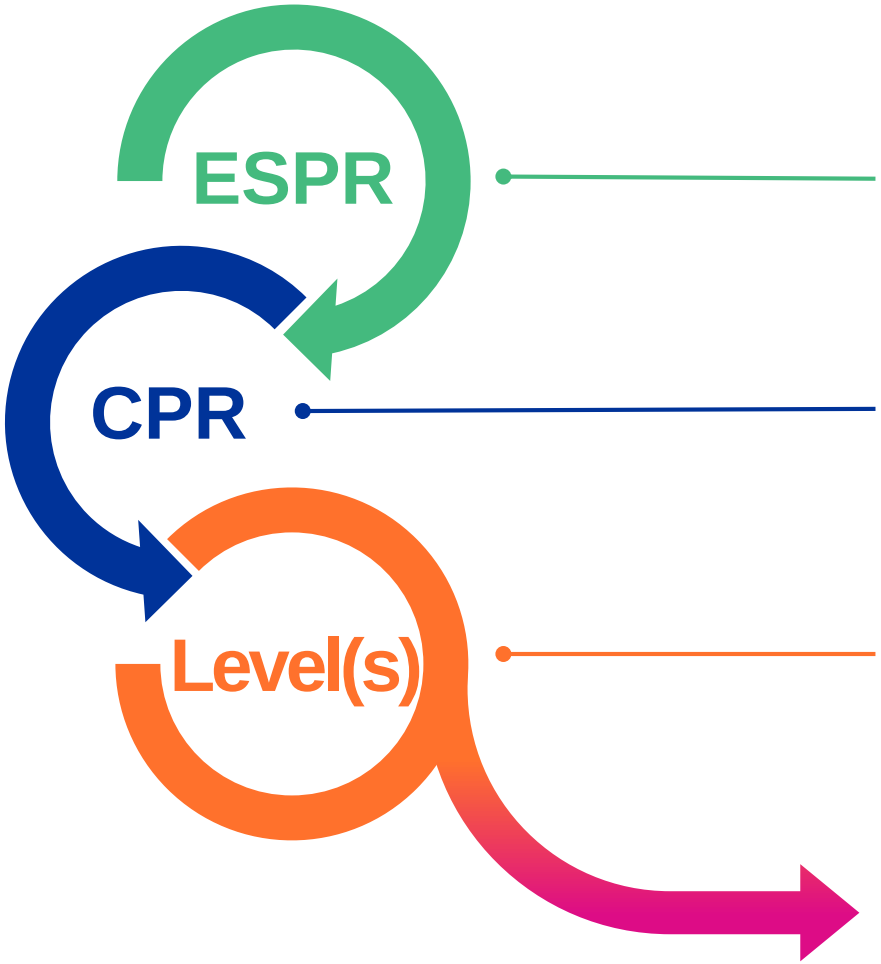
THE RELATION OF ENVIRONMENTAL DATA UNDER THE CPR WITH OTHER EU LEGISLATION

GROW H.1

European Commission

EU Regulatory framework

Default approach

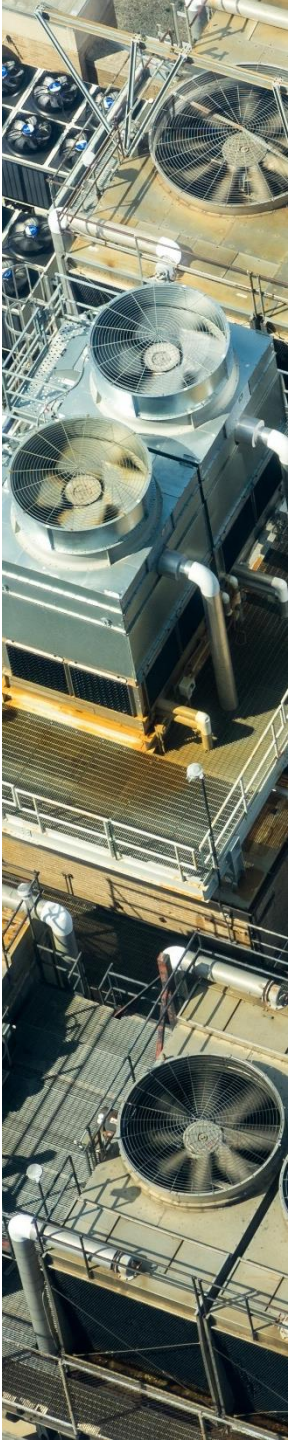


Ecodesign for Sustainable Products Regulation
Setting performance and information requirements for products placed on the Single Market

Construction Products Regulation
Delivery of environmental information from construction products and implementation of requirements

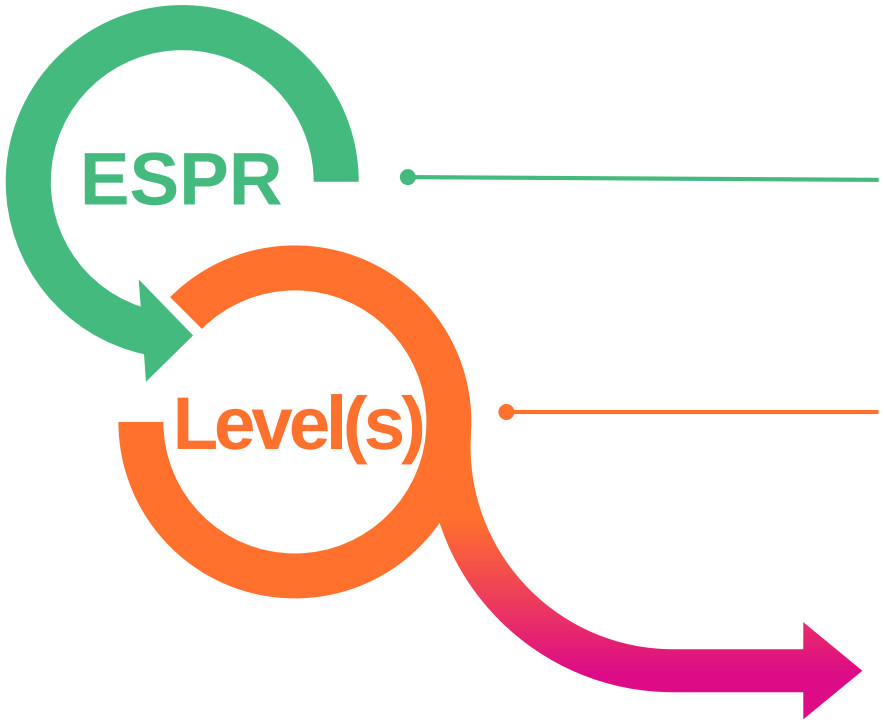
Level(s) methodology
Sustainability assessment of buildings

Taxonomy
Sustainable activities
EPBD
Sustainable buildings
EED
Public procurement of buildings



EU Regulatory framework

Energy related products



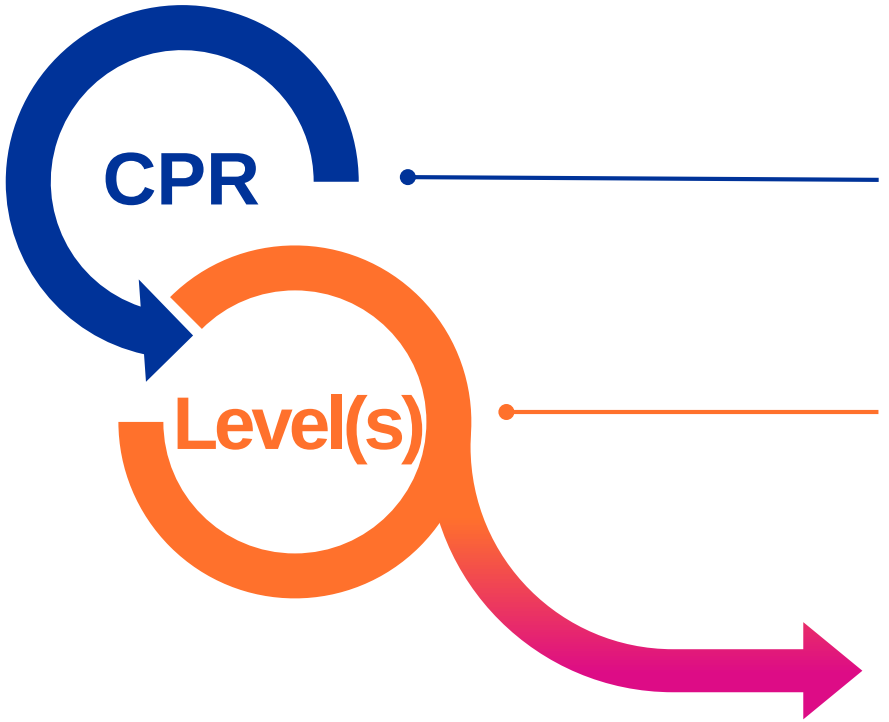
Ecodesign for Sustainable Products Regulation
Setting performance and information requirements for products placed on the Single Market

Level(s) methodology
Sustainability assessment of buildings

Taxonomy
Sustainable activities
EPBD
Sustainable buildings
EED
Public procurement of buildings

EU Regulatory framework

Other products



Construction Products Regulation
Delivery of environmental information from construction products and implementation of requirements

Level(s) methodology
Sustainability assessment of buildings

Taxonomy
Sustainable activities

EPBD
Sustainable buildings

EED
Public procurement of buildings

Objectives of the recast EPBD

2030 Medium-term contribution

Renovation Wave Strategy aims at doubling renovations by 2030 and foster deep renovations

Climate target plan 2030 reduce buildings' GHG emissions by 60%, their final energy consumption by 14% and energy for heating and cooling by 18%.

RePowerEU Strategy and EU Save Energy Communication asking co-legislators for more ambition on recast EPBD

2050 Long-term vision

Long Term Strategy
climate neutral economy
Climate Target Plan 2040
reduction of 90% of net GHG emissions

Focus areas of the recast EPBD

Renovation

- Minimum Energy Performance Standards
- National trajectories for the progressive renovation of the residential building stock
- National Building Renovation Plans

Decarbonisation

- Introduction of zero-emission buildings as standard for new buildings
- Solar deployment in buildings
- Calculation of whole life cycle carbon
- Phasing out incentives for fossil fuels and new legal basis for national bans

Enabling framework

- Strengthened Energy Performance Certificates
- Renovation passports
- Sustainable finance & energy poverty
- One-stop-shops
- Deep renovation standard
- National energy performance databases

Modernisation & system integration

- Infrastructure for sustainable mobility
- Smart Readiness Indicator
- Indoor air quality, ventilation and other technical building systems
- Digitisation & national databases

Calculation of life-cycle GWP of new buildings

Values	Numeric indicator for each life-cycle stage
Units	kg CO_2eq./m^2 of useful floor area
Reference study period	50 years
Modelling	EN 15978 and Annex III of the EPBD
Scope	Level(s) framework indicator 1.2.
Additional rules	Revision of Annex III by 31 December 2025
Other tools of methods	Allowed if they fulfil Level(s) applicable criteria
Data sources	CPR information when available

National Roadmaps

Member States to publish roadmaps by 2027 establishing targets for new buildings from 2030

Additional guidance to be provided by the Commission:

- Definition on progressive downward trend
- Information on climatic zones
- Information on building typologies
- Union’s objective of climate neutrality

Technical support to Member States at their request

Digital Product Passport

Why do we need a DPP in the CPR?

Increase transparency and facilitates traceability

Improve the management of complex information

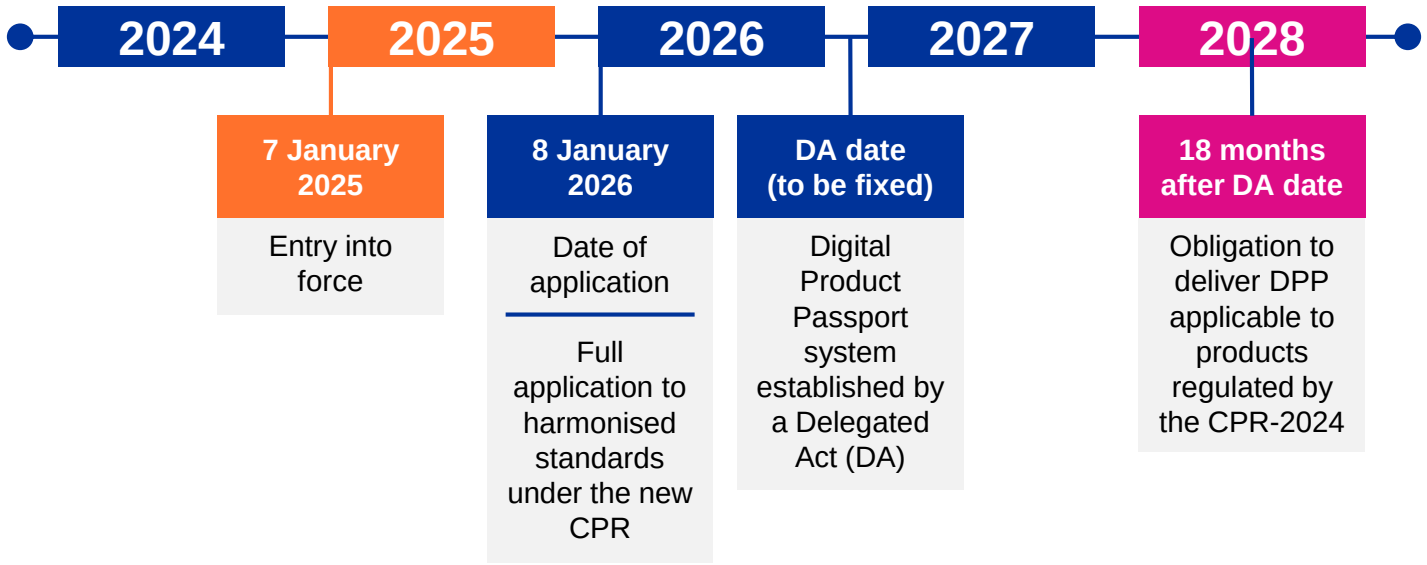
Reduce administrative burdens through digital process

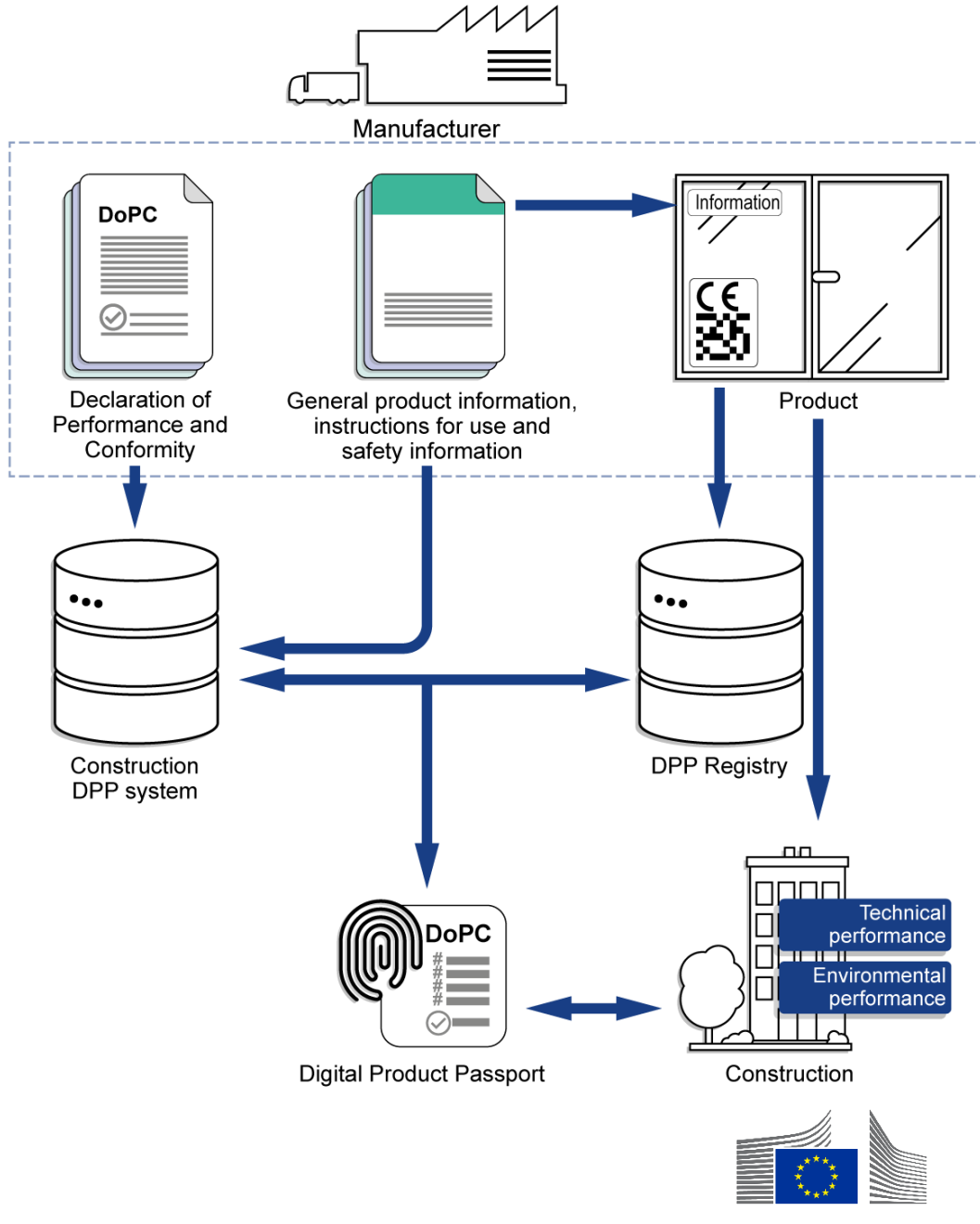
Advantages only if DPP are harmonised at EU level

CPR DPP

Content	Standardised and harmonised following a European data dictionary based on Standards and EAD
Governance	European Commission managed according to rules set out in a delegated act
Interoperability	Harmonised format and digitalisation methodology available in harmonised standards and usable by non-experts
Access and use	Public access to the documents except for the technical documentation which is restricted to market surveillance authorities
Stability	Predictable system established in European legislation adopted and maintained following regulatory procedures

Digitalisation

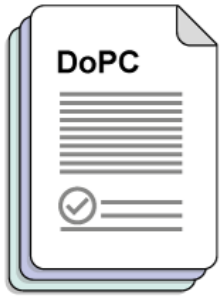




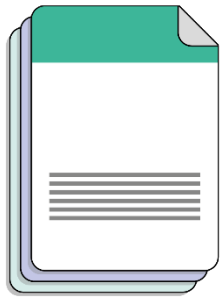
Information

based on open standards	structured
machine-readable	searchable
developed with an interoperable format	transferable through an open interoperable data exchange network without vender lock-in

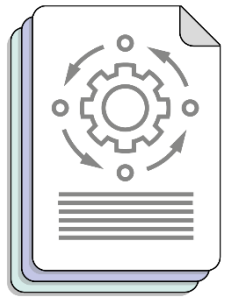
DPP content



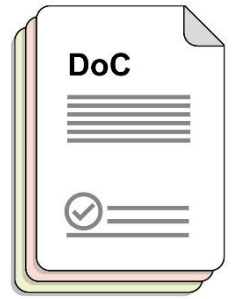
Declaration of performance and conformity



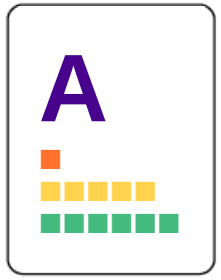
General product information, instructions for use and safety information



Technical documentation



Documentation required under other Union law

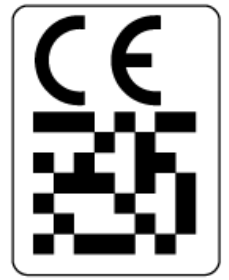


Label (when applicable)

Unique product identifier
dpp:GTIN:**3234567890126**

Unique operator identifier
dpp:VAT:**AT U14589505**

Unique facility identifier
dpp:ISO3166-2:**BE**



Data carriers Key parts

Thank you

European Standardization Organizations

Development of a c-PCR

Julia Goerke, Convenor CEN/TC 350/WG3

C-PCRs within CEN/TC 350

▶ BT decision

PROPOSAL(S)

BT,

- noting the request of CEN/TC 350 as in Annex 1 BT N 9216;
- noting the concerns and recommendation of the Construction Core Group as in Annex 2 to BT N 9216;
- endorses the Construction Core Group recommendation 165/2013;
- asks CEN/TCs developing product standards to take into consideration the horizontal rules of EN 15804;
- encourages the close liaison between CEN/TC 350 'Sustainability of construction works' and product TCs when those product TC's are preparing specific Product Category Rules based on EN 15804;
- invites product TCs in the construction sector and CEN/TC 350 to consult the Construction Core Group, should issues be identified

2013-03-27 – GA

PROPOSAL(S)

BT,

- noting,
  - decision 284 of CEN/TC 350 'Sustainability of construction works' taken on 2022-04-05 (see Annex 2);
  - CEN/BT Decision 3/2013, asking CEN/TCs developing product standards to take into consideration the horizontal rules of EN 15804 and encouraging the close liaison between CEN/TC 350 and product TCs when those product TCs are preparing specific Product Category Rules (PCRs) based on EN 15804 (see Annex 1);
- decides, when a new Standardization Request (SReq) is being developed referring to EN 15804 and/or to quantified environmental characteristics of construction products or services, that:
  - CEN/TC 350 shall be informed and consulted regarding the content of the draft construction product SReq prior to their acceptance;
  - CEN/TCs involved in the execution of the SReq shall contact CEN/TC 350 to inform about the standards of concern and liaise with CEN/TC 350 to apply the workflow and templates of CEN/TC 350 when developing complementary PCRs to avoid conflicts with EN 15804.

2022-04-22 – ALG

⇒ Alignment with EN 15804+A2 is necessary
⇒ Liaise with CEN TC 350
⇒ Follow the flow as laid down by CEN/TC 350

EN 15804+A2

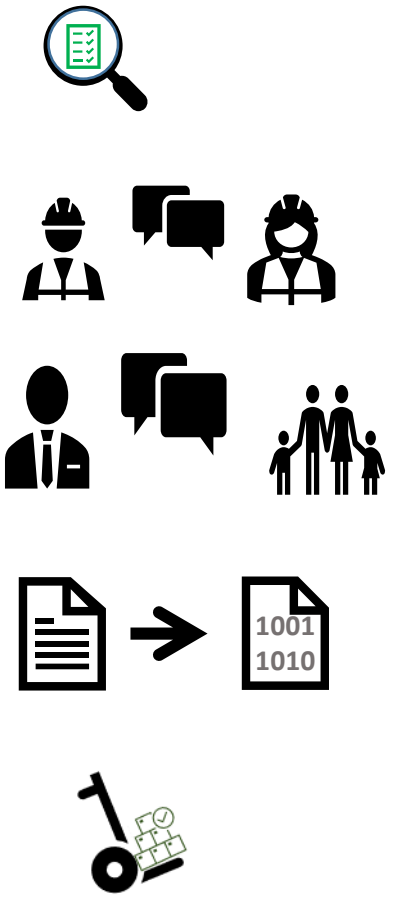
- Basic rules for the product category construction products

Sustainability of construction works - Environmental product declarations - Basic rules for the product category construction products;
EN 15804:2012+A2:2019 + AC:2021

This document has been prepared by Technical Committee CEN/TC 350 “Sustainability of construction works” (Secretariat: AFNOR, France).

CEN/TC 350/WG 3

Name
EN 15941- Sustainability of construction works — data quality for environmental assessment of products and construction works — Selection and use of data (Data Quality)
EN 15942 - Sustainability of construction works - Environmental product declarations – Communication format business-to-business, (B2B)
EN 17672 - Sustainability of construction works — Environmental product declarations — Horizontal rules for business-to consumer communication (B2C)
EN ISO 22057 - Sustainability in buildings and civil engineering works – Data templates for the use of EPDs for construction products in building information modelling BIM (EPDs for BIM)
NWI (N6420) - Requirements for the use of chain of custody models in Environmental Product Declarations for construction products

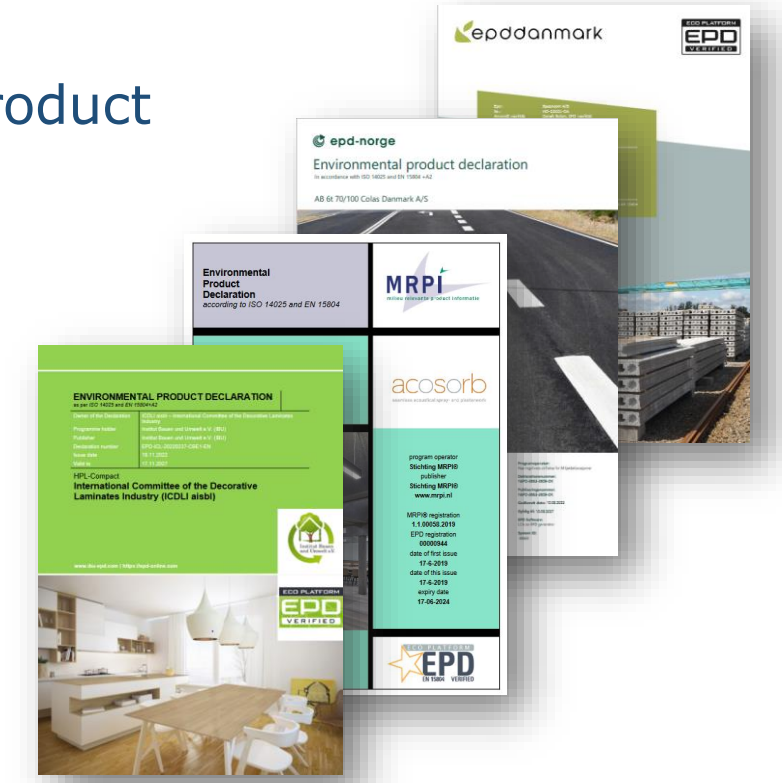


The Environmental Product Declaration

- Contains the product's carbon footprint and much more

An EPD

- is based on EN 15804+A2
- is a document of approx. 10 pages
- contains data of the Life Cycle Assessment (LCA) of a product
- considers the product from "cradle to grave"
- is independently verified
- has a high level of credibility
- follows the rules of product group specific rules (PCR)

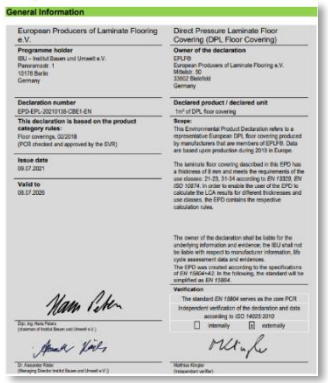


Source: https://www.eco-platform.org/epd-data.html

Content of an EPD

- Life cycle approach

Verification


General Information

European Producers of Laminate Flooring e.V.

Direct Pressure Laminate Floor Covering (DPL Floor Covering)

Programme holder
IBU – Institut Bauen und Umwelt e.V.
Panoramastr. 1
10178 Berlin
Germany

Owner of the declaration
EPLF®
European Producers of Laminate Flooring e.V.
Mittelstr. 50
33602 Bielefeld
Germany

Declaration number
EPD-EPL-20210138-CBE1-EN

Declared product / declared unit
1m² of DPL floor covering

This declaration is based on the product category rules:
Floor coverings, 02/2018
(PCR checked and approved by the SVR)

Scope:
This Environmental Product Declaration refers to a representative European DPL floor covering produced by manufacturers that are members of EPLF®. Data are based upon production during 2019 in Europe.

Issue date
06.07.2021

The laminate floor covering described in this EPD has a thickness of 8 mm and meets the requirements of the use classes: 21-23, 31-34 according to *EN 13329*. *EN ISO 10874* In order to enable the user of the EPD to calculate the LCA results for different thicknesses and use classes, the EPD contains the respective calculation rules.

Valid to
06.07.2026

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.
The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as EN 15804.

Verification
The standard EN 15804 serves as the core PCR
Independent verification of the declaration and data according to ISO 14025:2010
☐ internally ☒ externally

Dipl.-Ing. Hans Peters
(Chairman of Institut Bauen und Umwelt e.V.)

Dr. Alexander Röder
(Managing Director Institut Bauen und Umwelt e.V.)

Matthias Klingler
(Independent verifier)

Product and Production

LCA Results

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D

Core Indicator	Unit	A1-A3	A4	A5	B2	C1	C2	C3	D
GWP-total	[kg CO_2-Eq.]	-2.65E+0	4.37E-2	2.77E-1	1.70E-1	0.00E+0	4.23E-2	1.19E+1	-6.67E+0
GWP-fossil	[kg CO_2-Eq.]	5.93E+0	4.34E-2	3.63E-2	1.58E-1	0.00E+0	4.21E-2	0.00E+0	-6.66E+0
GWP-biogenic	[kg CO_2-Eq.]	-8.58E+0	0.00E+0	2.41E-1	-3.32E-2	0.00E+0	0.00E+0	1.19E+1	0.00E+0
GWP-luluc	[kg CO_2-Eq.]	6.25E-3	3.51E-4	4.13E-6	4.53E-2	0.00E+0	3.40E-4	0.00E+0	-5.28E-3
ODP	[kg CFC11-Eq.]	2.70E-12	5.21E-18	4.47E-17	8.19E-9	0.00E+0	5.05E-18	0.00E+0	-7.91E-14
AP	[mol H^+-Eq.]	1.70E-2	1.43E-4	5.26E-5	4.67E-4	0.00E+0	1.39E-4	0.00E+0	3.99E-3
EP-freshwater	[kg PO_4-Eq.]	1.41E-5	1.32E-7	7.65E-9	6.01E-6	0.00E+0	1.28E-7	0.00E+0	-9.72E-6

Source: www.ibu-epd.com

Scenarios according to EN 15804+A2

CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D

Transport to the construction site (A4)

Name	Value	Unit
Litres of fuel (consumption per kg)	0.00159	l/100km
Transport distance	250	km
Capacity utilisation (including empty runs)	85	%
Gross density of products transported	800-1200	kg/m³

Maintenance (B2)

Name	Value	Unit
Maintenance cycle (cleaning frequency per year)	120 times/year	Number/RSL
Water consumption (per year)	0.0068	m³
Auxiliary (per year)	0.0507	kg
Electricity consumption (per year)	0.074	kWh

Installation in the building (A5)

Name	Value	Unit
Output substances following waste treatment on-site packaging waste	0.231	kg

End of life (C1-C4)

Name	Value	Unit
Recycling	3	kg

To ensure the principle of comparability for one product group => Product Category Rules are needed

Product Category Rules (PCR)

- What is a PCR according to ISO 14025 and EN 15804+A2?

3.12
product category
group of **products** (3.11) that can fulfil equivalent functions

3.5
product category rules
PCR
set of specific rules, requirements and guidelines for developing **Type III environmental declarations** (3.2) for one or more **product categories** (3.12)

A2 **3.5**
complementary product category rules
c-PCR
product group specific or horizontal PCR, which provide additional compliant and non-contradictory requirements to EN 15804

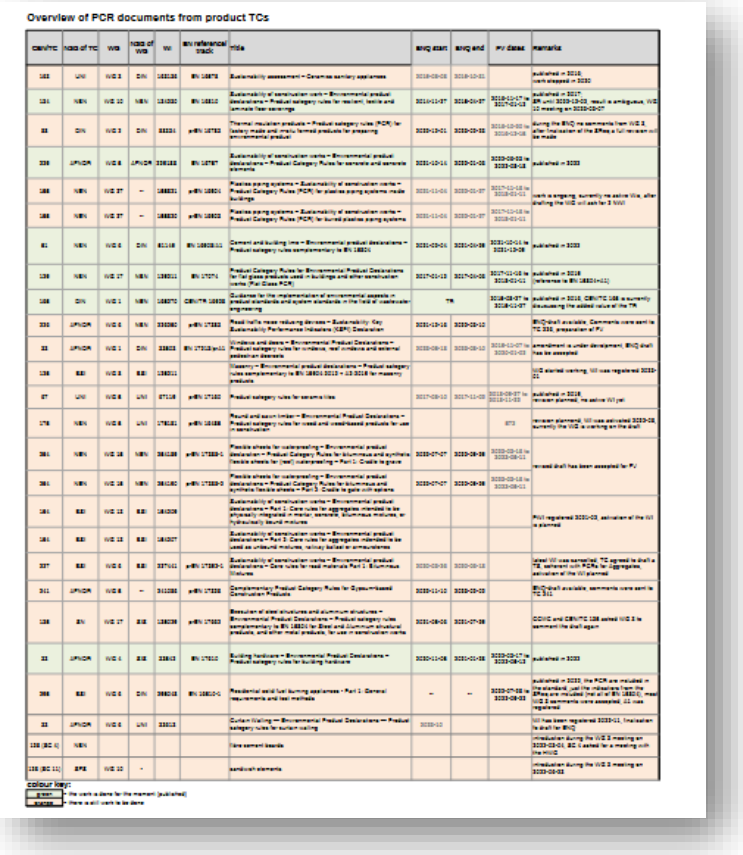
Note 1 to entry: c-PCR are meant to be used together with EN 15804.

House full of “Product Categories”

Product Category Rules

- Ensure the principle of comparability

  - Ceramics sanitary appliances
  - Resilient, textile and laminate floor coverings
  - Thermal insulation products
  - Concrete and concrete elements
  - Plastics piping systems
  - Cement and building lime
  - Flat glass products
  - Road traffic noise reducing devices
  - Windows and doors
  - Round and sawn timber
  - …


Overview of PCR documents from product TCs

CEN/TC	lead of TC	WG	lead of WG	WI	EN reference/ track	title	enq start	enq end	PV dated	remarks
163	UNI	WG 2	DIN	163130	EN 15978	Sustainability assessment – Ceramics sanitary appliances	2018-09-06	2018-12-31		published in 2018; work stopped in 2020
134	NEN	WG 10	NEN	134350	EN 16810	Sustainability of construction work – Environmental product declarations – Product category rules for resilient, textile and laminate floor coverings	2016-11-07	2018-01-07	2018-12-17 to 2021-02-03	published in 2017; EPLani 2020-12-03, result is ambiguous; WG 10 meeting on 2019-09-07
88	DIN	WG 3	DIN	88334	prEN 16783	Thermal insulation products – Product category rules (PCR) for factory made and insitu formed products for preparing environmental product	2020-10-01	2020-09-30	2018-10-30 to 2018-12-06	during the BVQ no comments from WG 3 after finalization of the EPDs a full revision will be made
229	AFNOR	WG 8	AFNOR	229168	EN 16757	Sustainability of construction works – Environmental product declarations – Product Category Rules for concrete and cementitious materials	2021-12-14	2020-01-09	2020-09-09 to 2020-09-16	published in 2020
164	NEN	WG 27	–	164831	prEN 16809	Plastics piping systems – Sustainability of construction works – Product Category Rules (PCR) for plastics piping systems inside buildings	2021-11-01	2020-01-07	2017-12-18 to 2018-01-11	work is ongoing, currently no active life, after drafting the WG will ask for 3 NAV
164	NEN	WG 27	–	164832	prEN 16903	Plastics piping systems – Sustainability of construction works – Product Category Rules (PCR) for buried plastics piping systems	2021-11-01	2020-01-07	2017-12-18 to 2018-01-11	
51	NEN	WG 6	DIN	51168	EN 16908:11	Cement and building lime – Environmental product declarations – Product category rules complementary to EN 15804	2021-09-01	2021-01-09	2021-12-01 to 2021-12-08	published in 2022
129	NEN	WG 27	NEN	129211	EN 17074	Product Category Rules for Environmental Product Declarations for flat glass products used in buildings and other construction works (Flat Glass PCR)	2017-01-13	2017-04-06	2017-11-16 to 2018-01-11	published in 2018 (reference to EN 15804+A2)
128	DIN	WG 1	NEN	128072	CEN/TR 16970	Guidance for the implementation of environmental aspects in product standards and system standards in the field of wastewater engineering	TR		2018-10-17 to 2018-11-07	published in 2018; CEN/TC 165 is currently discussing the added value of the TR
336	AFNOR	WG 6	NEN	336360	prEN 17383	Road traffic noise reducing devices – Sustainability Key Sustainability Performance Indicators (KSPI) Declaration	2021-12-15	2020-09-10		BVQ draft available, Comments were sent to TC 226, preparation of PV
33	AFNOR	WG 1	DIN	33803	EN 17333/prA1	Windows and doors – Environmental Product Declarations – Product category rules for windows, roof windows and external pedestrian doorsets	2020-09-18	2020-09-10	2019-12-17 to 2020-01-17	amendment is under development, BVQ draft has be accepted
128	NEN	WG 6	NEN	128011		Masonry – Environmental product declarations – Product category rules complementary to EN 15804:2012 + A2:2019 for masonry products				WG started working, WI was registered 2020-01
67	UNI	WG 6	UNI	67118	prEN 17160	Product category rules for ceramic tiles	2017-09-13	2017-11-08	2018-09-07 to 2018-11-03	published in 2018; revision planned, no active WI yet
175	NEN	WG 6	UNI	175181	prEN 16485	Round and sawn timber – Environmental Product Declarations – Product category rules for wood and wood-based products for use in construction			873	revision planned, WI was activated 2020-08, currently the WG is working on the draft
384	NEN	WG 16	NEN	384288	prEN 17333-1	Flexible sheets for waterproofing – Environmental product declarations – Product Category Rules for bituminous and synthetic flexible sheets for (roof) waterproofing – Part 1: Cradle to gate	2020-07-07	2020-09-09	2020-09-16 to 2020-09-11	revised draft has been accepted for PV
384	NEN	WG 16	NEN	384282	prEN 17333-2	Flexible sheets for waterproofing – Environmental product declarations – Product Category Rules for bituminous and synthetic flexible sheets – Part 2: Cradle to gate with options	2020-07-07	2020-09-09	2020-09-16 to 2020-09-11	
104	104	WG 12	104	104328		Sustainability of construction works – Environmental product declarations – Part 2: Core rules for aggregates intended to be physically integrated in mortar, concrete, bituminous mixtures, or hydraulically bound mixtures				PWI registered 2020-03, activation of the WI is planned
104	104	WG 12	104	104327		Sustainability of construction works – Environmental product declarations – Part 3: Core rules for aggregates intended to be used as unbound mixtures, namely ballast or embankments				
227	104	WG 6	104	227101	prEN 17333-3	Sustainability of construction works – Environmental product declarations – Core rules for road materials Part 3: Bituminous mixtures	2020-09-06	2020-09-13		steel WI was cancelled, TC agreed to draft a TR, coherent with PCRs for aggregates, activation of the WI planned
311	AFNOR	WG 6	–	311286	prEN 17329	Complementary Product Category Rules for Sprayed-based Construction Products	2020-11-10	2020-09-09		BVQ draft available, comments were sent to TC 311
135	EN	WG 27	EN	135259	prEN 17583	Execution of steel structures and aluminium structures – Environmental Product Declarations – Product category rules complementary to EN 15804 for Steel and aluminium structural products, and other metal products, for use in construction works	2021-09-01	2021-07-09		CEN/TC and CEN/TC 135 asked WG 2 to comment the draft again
33	AFNOR	WG 4	EN	33813	EN 17213	Building hardware – Environmental Product Declarations – Product category rules for building hardware	2020-12-08	2021-01-08	2020-09-17 to 2020-09-23	published in 2020
295	181	WG 6	DIN	295018	EN 15511-1	Residential solid fuel burning appliances – Part 1: General requirements and test methods	–	–	2020-07-08 to 2020-09-09	published in 2020, the PCR are included in the standard, and the emissions from the EPDs are included (not all of EN 15511), most WG 2 comments were accepted, 22 was registered
33	AFNOR	WG 6	UNI	33815		Curtain Walling — Environmental Product Declarations — Product category rules for curtain walling	2020-10			WI has been registered 2020-11, finalization is draft for BVQ
150 (SC 4)	NEN					Lime cement blends				introduction during the WG 2 meeting on 2020-09-01, SC 4 asked for a meeting with the WG2
350 (SC 11)	BSI	WG 12	-			sandwich elements				introduction during the WG 2 meeting on 2020-09-02

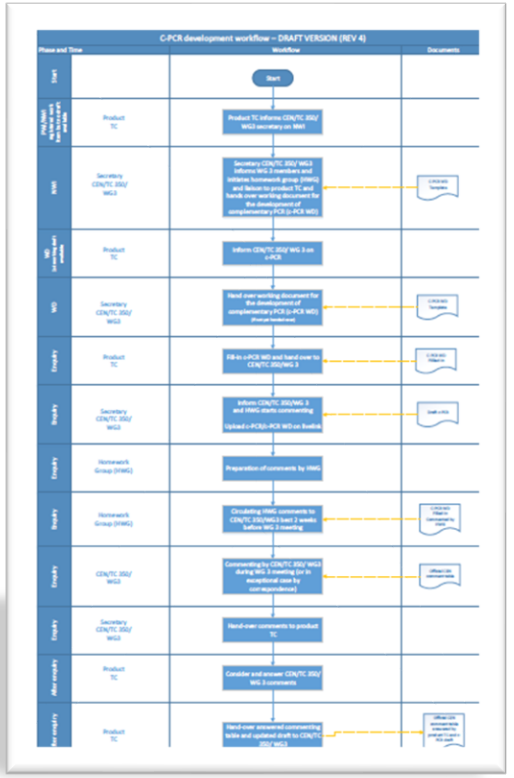
colour key:
- green = We work is done for the moment (published)
- orange = there is still work to be done

Process to create a c-PCR

▶ Contact CEN/TC 350 if you need the template

Milen Kabakov Milen.Kabakov@din.de

Tasks of CEN/TC 350
- We provide templates - We are the point of contact in case of questions before enquiry - We comment the c-PCR in WG 3 meetings during enquiry - We check compliance with EN 15804+A2 - We cannot give guidance on LCA

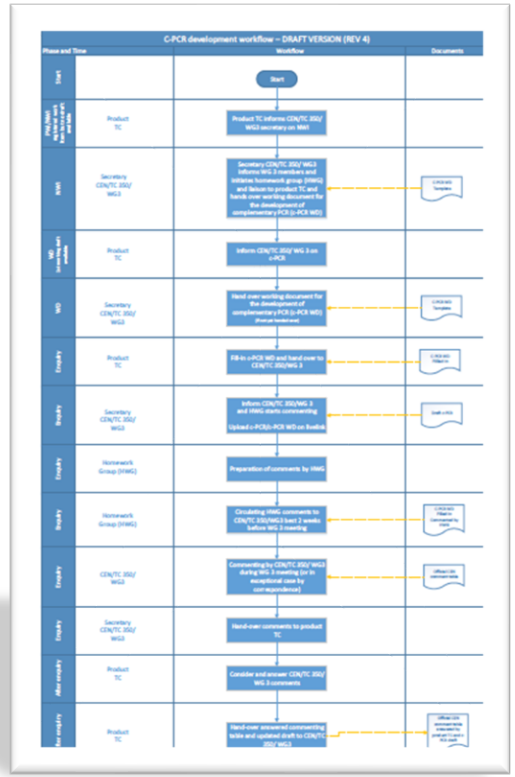


Process to create a c-PCR

- Product TC is responsible for the content of the c-PCR

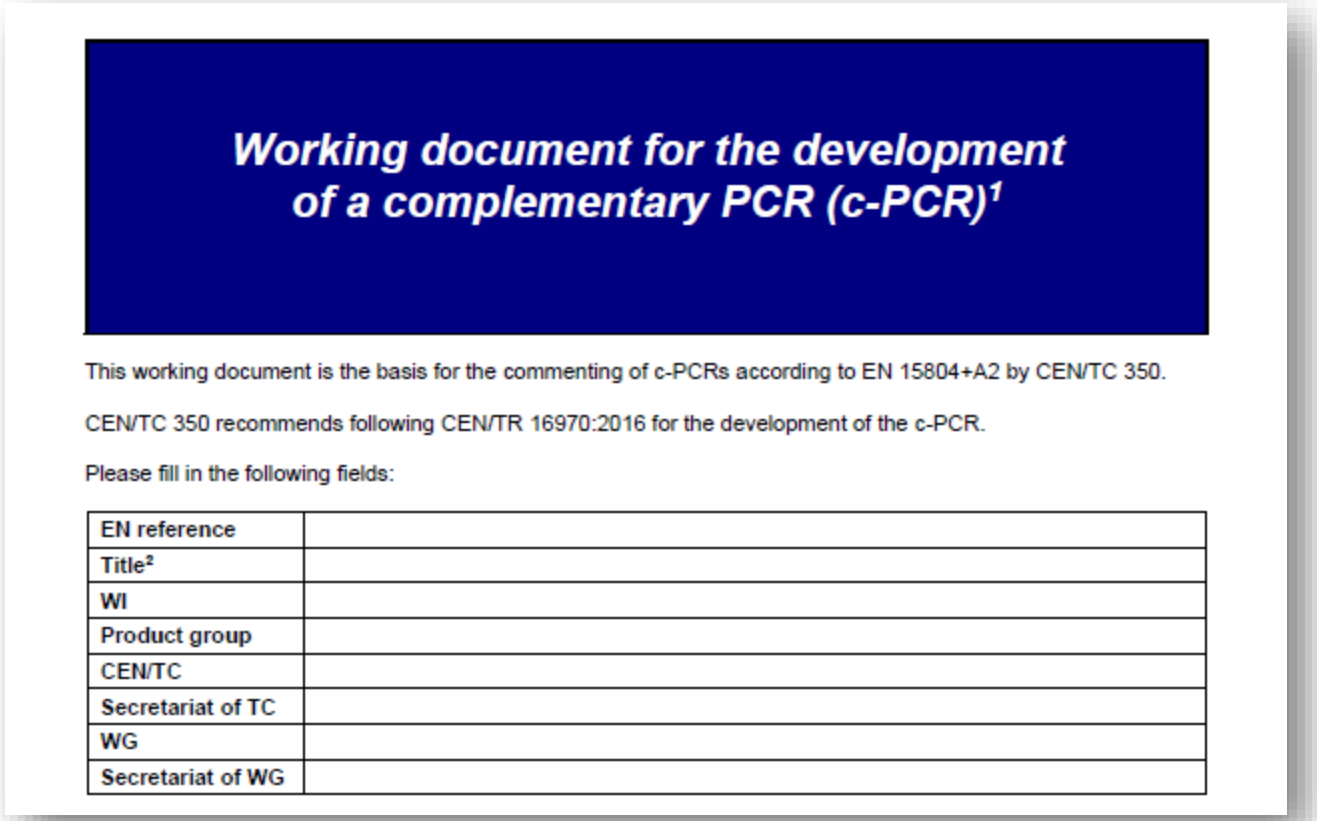
Tasks of product TC	

- Conducts preparatory LCA study
- Drafts c-PCR and defines e.g.
  - functional unit,
  - defines technical properties to be mentioned in EPD
  - specifies certain LCA requirements if needed (e.g allocation)
  - defines plausible and realistic scenarios for use and EoL
- involves CEN/TC 350 in the ENQ and follows up of the treatment of comments
- involves CEN/TC 350 in the version to be sent to FV, including follow up of the treatment of comments from ENQ
	We recommend to:
	– Check existing PCRs
	– Conduct an LCA study
	– Identify “linked” product groups
	– Involve experts and stakeholders with expertise in the PCR development process: LCA experts, expertise for different life cycle stages (use/end of life)



How to write a c-PCR?

- Working document for the development of a complementary PCR (c-PCR)



Working document for the development of a complementary PCR (c-PCR)[1]

This working document is the basis for the commenting of c-PCRs according to EN 15804+A2 by CEN/TC 350.

CEN/TC 350 recommends following CEN/TR 16970:2016 for the development of the c-PCR.

Please fill in the following fields:

EN reference	
Title[2]	
WI	
Product group	
CEN/TC	
Secretariat of TC	
WG	
Secretariat of WG	

Follow the structure of EN 15804+A2

Working document for the development of a complementary PCR (c-PCR)

No	Clause	Text for new c-PCR	EN 15804+A2	Comment
	Titel			
	Introduction			
1	Scope	*Example: As in EN 15804+A2*		
2	Normative references			
3	Terms and definitions	*Example: As in EN 15804+A2, in addition: xxx*	For the purposes of this document, the following terms and definitions apply. **3.1** **additional technical information** information that forms part of the EPD by providing a basis for the development of scenarios **3.2** **ancillary material** input material or product that is used by the unit process producing the product, but which does not constitute part of the product [EN ISO 14040:2006] **3.3** **average data** data representative of a product, product group or construction service, provided by one or more suppliers Note 1 to entry: The product group or construction service can contain similar products or construction services.	
3.1				
3.x.				
4	Abbreviations			
5	General aspects			
5.1	Objective of the Core PCR		An EPD according to this standard provides quantified environmental information for a construction product or service on a harmonized and scientific basis. It also provides information on health related emissions to indoor air, soil and water during the use stage of the building. The purpose of an EPD in the construction sector is to provide the basis for assessing buildings and other construction works, and identifying those, which cause less stress to the environment. Thus, the objective of the core PCR is to ensure:	

Scenarios

7.3.3.1 B1-B5 use stage related to the building fabric

B1: Environmental aspects and impacts connected to the normal (i.e. anticipated) use of products, not including those related to energy and water use, which are dealt with in B6 and B7) e.g. release of substances from the facade, roof, floor covering, walls and other surfaces (interior or exterior) are reported as additional information (see 7.4).

B2-B5, if additional technical information is provided in the EPD for products requiring maintenance, repair, replacement, refurbishment the following information shall be provided to specify the scenarios or to support the development scenarios of these modules at the building level. Information given for Table [A2] 12 [A2] shall be consistent with the [A2] RSL [A2] data given in Table [A2] 13 [A2]:

Table [A2] 12 [A2] — Use stage related to the building fabric

[A2] Scenario information [A2]	Unit (expressed per functional unit or per declared unit)
B2 Maintenance	
Maintenance process	Description or source where description can be found
Maintenance cycle	Number per RSL or year [a]
Ancillary materials for maintenance, e.g. cleaning agent, specify materials	kg / cycle,
Waste material resulting from maintenance (specify materials)	kg
Net fresh water consumption during maintenance	m³
Energy input during maintenance, e.g. vacuum cleaning, energy carrier type, e.g. electricity, and amount, if applicable and relevant	kWh

Table [A2] 14 [A2] — Use of energy and use of water

[A2] Scenario information [A2]	Unit (expressed per functional unit or per declared unit)
Ancillary materials specified by material	kg or units as appropriate
Net fresh water consumption	m³
Type of energy carrier, e.g. electricity, natural gas, district heating	kWh
Power output of equipment	kW
Characteristic performance, e.g. energy efficiency, emissions, variation of performance with capacity utilisation etc.	units as appropriate
Further assumptions for scenario development, e.g. frequency and period of use, number of occupants	units as appropriate

European Standardization Organizations

Challenges from the point of perspective of consistency Identification of gaps and needs in the process

Eric Winnepenninckx, Buildwise, FIEC

and **Dieter De Lathauwer**

CEN-CENELEC Coordination Group (COG) on Construction and the built environment

- Exists since **2025-01-01** (formerly CEN Sector Forum on Construction) with a 2-year lifetime.
- **Coordinates** standardization activities among technical bodies of CEN and CENELEC dealing with construction and the built environment sector, taking into account stakeholders' expectations.
- Provides coordination and guidance to the relevant Technical Bodies involved in the CPR Acquis process and those developing harmonised Standards under a standardisation request.
- Ensures **consistency** between involved technical bodies to prevent conflicts and overlaps, especially on horizontal topics. The COG **advises and makes recommendations** to the CEN and CENELEC Technical Boards if there is a need for intervention.

CEN-CENELEC Coordination Group (COG) on Construction and the built environment

- Chairperson: Steve Denton
- Secretariat: Tracey Wilkins (BSI)
- Members:
  - Representatives appointed by NCs/NSBs.
  - Representatives of Partner organisations including Annex III representatives (i.e. SBS, FIEC, ECOS, EGGA).
  - Representatives of relevant Technical Bodies, in particular horizontal Technical Committees, i.e. CEN/TC 126, CEN/TC 127, CEN/TC 250, CEN/TC 350, CEN/TC 351, CEN/TC 371, CEN/TC 442, CEN-CLC/JTC 11, CEN-CLC/JTC 24.
  - Representatives from the CEN and CENELEC staff.
  - Invited guests, on a limited ad-hoc basis.

AHG "Landscape mapping"

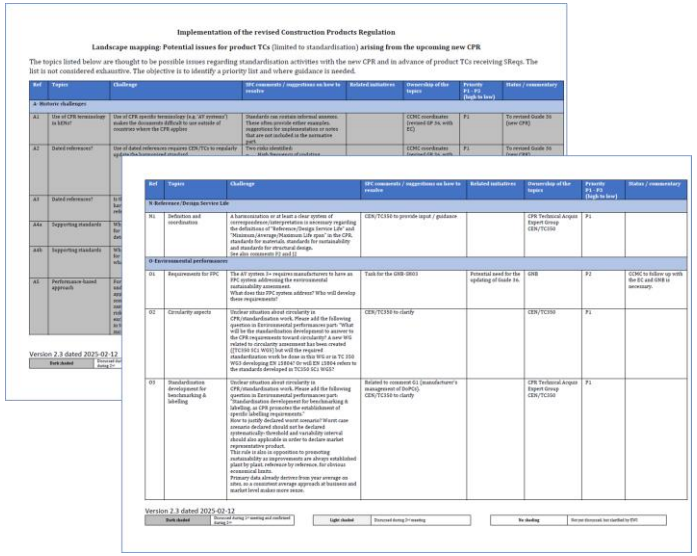
- AHG created to address the implementation of the revised Construction Products Regulation (CPR)
- AHG work is a continuance of CEN-CLC BTWG9 which BT disbanded at the end of 2023.
- Task: Mapping of potential challenges for product TCs (limited to matters of concern to standardisation) arising from the upcoming new CPR, and identifying ownership of the topics and related initiatives
- Objective: Ensure that, once standardisation requests have been issued, product TCs are not faced with obstacles.
- AHG membership: Representatives from COG Construction, specifically having CPR related expertise

AHG "Landscape mapping"

On-going activity, results so far:

- 2 meetings held, 1 being organised
- Approximately 90 challenges on various topics have been identified, several not related to standardisation as such
  - What are the challenges CEN/TCs may be faced with?
  - Who is competent to find solutions?
  - What is the priority of the challenge?
- Topics: historic challenges, related to Expert Group on Technical Acquis processes, standardisation requests, CEN internal coordination, …
- Several related to environmental sustainability and circular economy

Short-term expectation: Start of the process to receive answers / solutions



AHG "Landscape mapping"

Examples of identified challenges

Ref	Topics	Challenge	SFC comments / suggestions on how to resolve	Ownership of the topics	Priority P1 - P3 (high to low)
B-Commission Expert Group CPR Technical Acquis					
B8	'Trigger' that permits dealing with 'used products'	What will be the 'trigger' that permits dealing with 'used products' in standardisation requests (e.g. availability of guidance for evaluation methods, meaning of factory production control).		CPR Acquis Expert Group	P1
C-Standardisation requests (SReq)					
C10	ESPR	What if a product (power operated roof light) is covered by the ESPR and the CPR, how will the environmental performance be determined, which AV system, any consequences for SREQ, and what are NBs expected to do? Reword	EN 15804 and approach for TCs to follow to inform/coordinate with CEN/TC 350 (& its WG 3). EC roadmap of the CPR. CCMC received a SReq on Off mode, SRAHG in January 2025 and two TCs invited to discuss if they can deliver (Nuno to provide details).	EC	P1 (urgent)
C11	Intended use over 50 years	The Standardization Requests require that the methods and the criteria for assessing the performance shall be developed based on the working life for the intended use of 50 years when installed in the works and that the harmonised standard shall not limit the possibility for the manufacturer to declare a longer working life. Most test methods are not based on this requirement, which means that would still need to be developed. TCs have required to delete this part from the Standardization Request. If it continues included, it may significantly delay the development of the harmonised standard.	CCMC to check if included in the new CPR. Relationship between service life, technical performance and environmental performance. Will return to this if not included below.	CPR Technical Acquis Expert Group	

AHG "Landscape mapping"

Examples of identified challenges

Ref	Topics	Challenge	SFC comments / suggestions on how to resolve	Ownership of the topics	Priority P1 - P3 (high to low)
O-Environmental performances					
O15	Timing of finalisation of hEN taking into account amendment of EN 15804	Should EN 15804 be revised to be aligned with the revised CPR? If amendment is necessary, this may influence the c-PCR documents under development by product TCs, which may delay the finalisation of hEN in the framework of the CPR. Since hENs and c-PCR documents are covered by SReqs and the (stringent) deadlines that SReqs comprise, is there no risk that hENs will be delivered too late?	CEN/TC350 to provide clarification. CPR Technical acquis expert group to consider timing.	CPR Technical Acquis Expert Group CEN/TC 350	P1
O16	How will LCA at building level be connected with environmental performance of products?	Taking into account that databases managed under the responsibility of member states may no longer be legal for products covered by the harmonised zone, using environmental performances of products in LCA calculation methods managed by member states may become complicated. The DPP system may facilitate this connection, if and when available. How should member states prepare for this situation?	Not really a standardisation issue, even though CEN/TC350 and CEN/TC442 may be part of the solution.	CPR Technical Acquis Expert Group CEN/TC 350	P1
P-Declaration of performance (and of conformity)					
P1	Use of the DoPC	Complexity of follow up process of published DOPs. Period of validity is unclear: threshold and tolerance should be put in place to avoid multiple updates of LCA results (variability interval)	CEN/TC350 to clarify and provide guidance.	CEN/TC350	P2

AHG "Landscape mapping"

- We are obliged to turn the implementation into a **success story**
- Identifying challenges now increases the likelihood that product TCs can work **efficiently and effectively**
- The AHG offers a platform to **collect** challenges, **describe** them and **identify the competent organisation/structure** to resolve them
- Several challenges related to sustainability and circular economy have already been identified
- Access to the (complete) overview of challenges and getting involved: Contact your COG “Construction” representative

European Standardization Organizations

Conclusion

Conclusion (responsibilities)

- Product TC is responsible for the c-PCR
- CEN/TC 350 will and shall comment in relation to compliance of the c-PCR to EN 15804
- CEN/TC 350 cannot
  - offer guidance on technical content nor guidance on LCA (Independence!), but is available to address questions on the understanding of the EN 15804 or the commenting table
  - systematically check for conflicting standards
- EU COM (or HAS) is responsible for:
  - checking compliance of c-PCR with SREQ
  - checking consistency between c-PCR for use at building level
  - assessing the representativity and the plausibility of the scenarios
  - assessing the representativity and the plausibility of default data/scenarios if provided in the c-PCR
  - (but in case CEN/TC 350 notices something we will flag it)

Conclusion (specific)

- CEN/TC 350 must be involved during ENQ and in the version to be sent to Formal Vote to make sure the c-PCR are in line with EN 15804
- Reach out to CEN/TC 350 when starting the work on c-PCR to receive the working document
- Focus on the current EN 15804
- If work is started before the Sreq is received: check the Milestone documents of the European Commission! Be aware the Sreq will contain requirements on drafting c-PCR
- Shall not be in a c-PCR:
  - Rules for communication or verification
  - Rules for factory production control (FPC)
  - References to national regulations/requirements
  - Completely new rules not foreseen in EN 15804
- Some recommendations according to CEN ISO/TS 14027:
  - Get expertise on LCA on board in your product TC
  - Re-assess the composition of your product TC: are all relevant stakeholders for environmental information represented? E.g. the different technologies (which may not impact the common standards until now)
  - Do a supporting study:
    - Conduct a preparatory LCA study
    - Do a literature study of existing c-PCR
  - Identify and imply all other product TC touching your environmental impact to avoid discussions at a too late stage

Conclusion (general)

- We understand the willingness to move quickly and to start with the development of the c-PCR asap
- The CPR being published in December 2024, everybody is in the process of learning regarding this completely new context. Especially the tasks and responsibilities are to be judged carefully.
- We can inform you that a Guide/guidance is being developed. This work needs to be aligned with CEN Management, the European Commission and probably also CEN/BT, due to this legal context.
- As such we hope you understand that this cannot happen overnight: with every product TC starting its development we may identify other issues where guidance might be needed, every next week we discover a better understanding of the CPR and its consequences.
- If guidance is to be given, we prefer it to be qualitative and correct.
- This guide will not alter the rules of the EN 15804
- This means that for the time being the first set of c-PCR may not be perfect and that the c-PCR standard probably will be an iterative process.

European Standardization Organizations

Thank you for your participation!