



Present the #4 webinar in the CPR Series



Digital Product Passport Under the New Construction Products Regulation

13 November, 2025
2 PM - 3:30 PM CET

Key take-aways

- Learn what the CPR requires regarding Digital Product Passports
- Understand how standardisation links DPP, EPD, and BIM
- Discover how to prepare your organisation for future-proof implementation



Oscar Nieto
European Commission
Policy Officer
Guest Expert



Christian Donath
ECO Platform
Managing Director
Co-Host



Fabian Diaz
Climate Earth
Senior LCA/EPD Project Manager
Co-Host



Espen Schulze
CEN/TC 442,
Convenor of WG 12
Guest Expert



Christophe Sykes
Construction Products Europe
Director General
Moderator

Digital Product Passport

ECO Webinar CPR Series - November 13



- 1 Introduction Webinar
- 2 The Story of CPR Series
- 3 DPP in Regulation
- 4 DPP in Standardization
- 5 Questions & Answers



The Webinar Series

Overview



Webinar 1 Will EPDs become mandatory?

Webinar 2 Are EPDs still needed?

Webinar 3 Decoding the new CPR
What it means for Product Families

Webinar 4 DPP



The Webinar Series

Overview



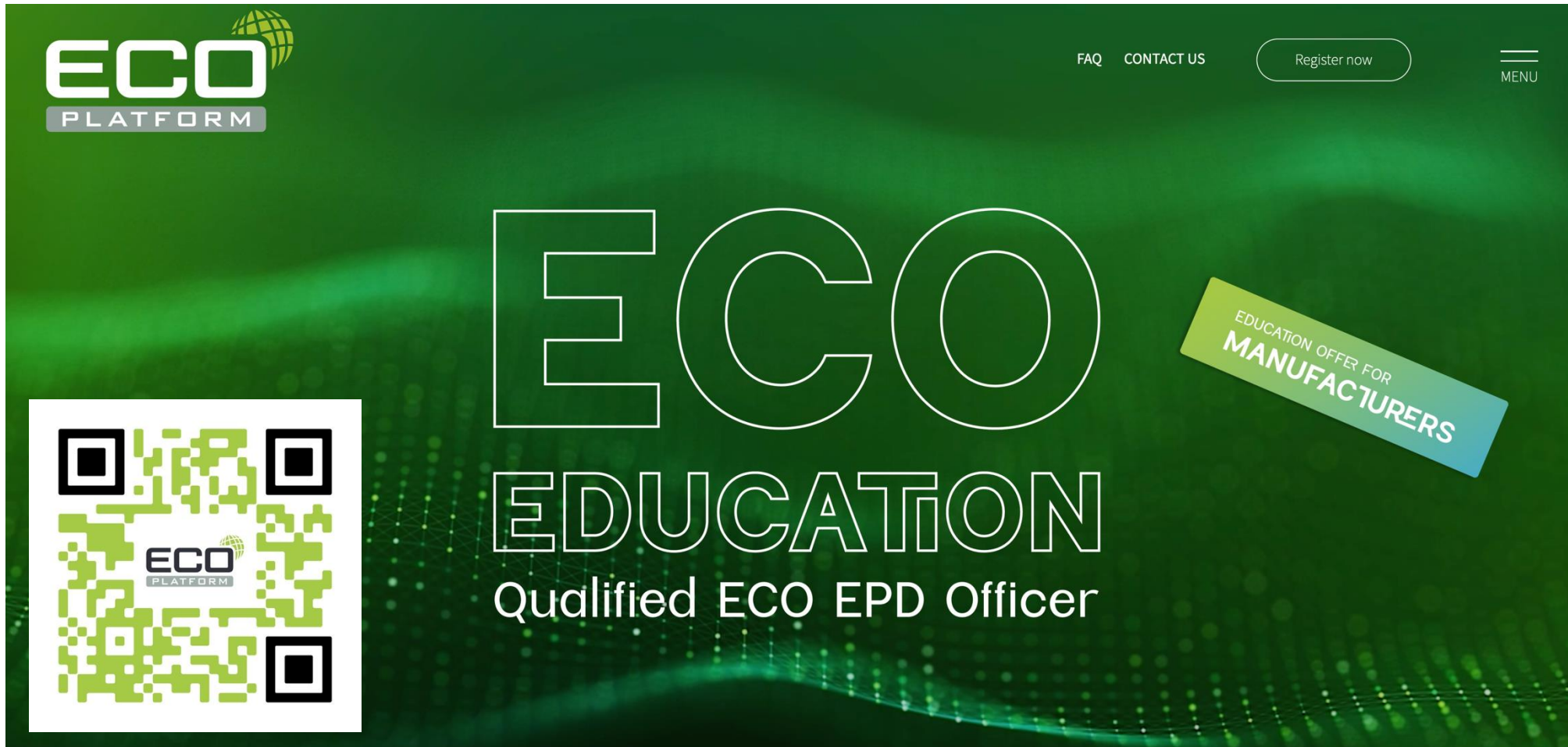
Webinar 1 Will EPDs become mandatory?

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Webinar 3 Decoding the new CPR

Webinar 4 DPP



A green banner with a digital, network-like background. In the top left corner is the ECO PLATFORM logo. In the top right corner are links for "FAQ", "CONTACT US", a "Register now" button, and a "MENU" icon. The center features the text "ECO EDUCATION" in large, white, outlined letters, with "Qualified ECO EPD Officer" below it. A tilted blue banner on the right says "EDUCATION OFFER FOR MANUFACTURERS". In the bottom left is a QR code with the ECO PLATFORM logo in the center.



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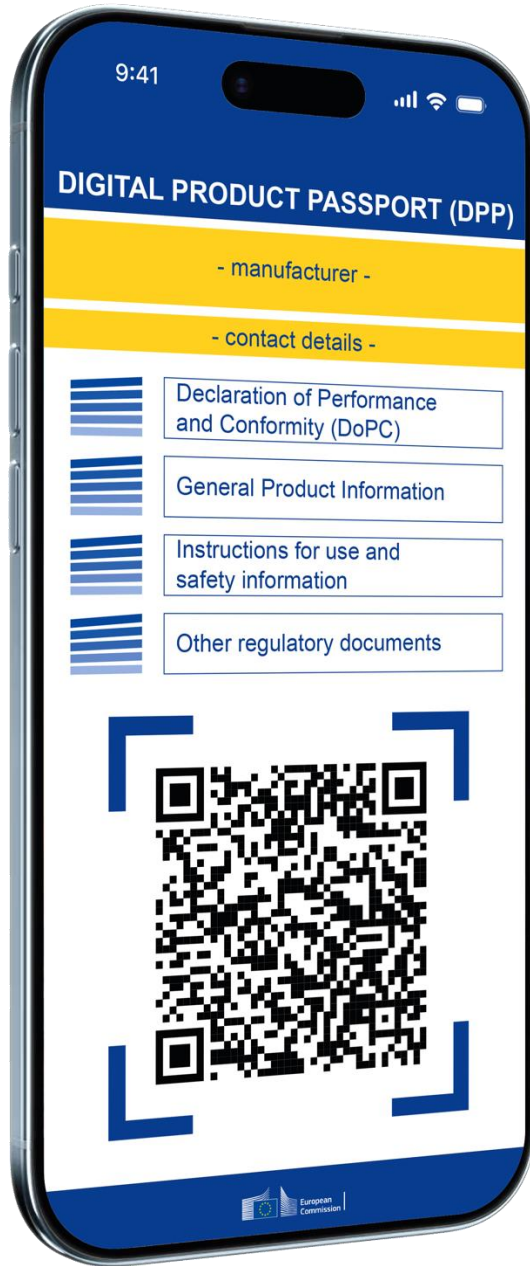


Christophe Sykes
Construction Products Europe
Director General
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DPP CPR

Regulation (EU) 2024/3110

DG GROW H.1

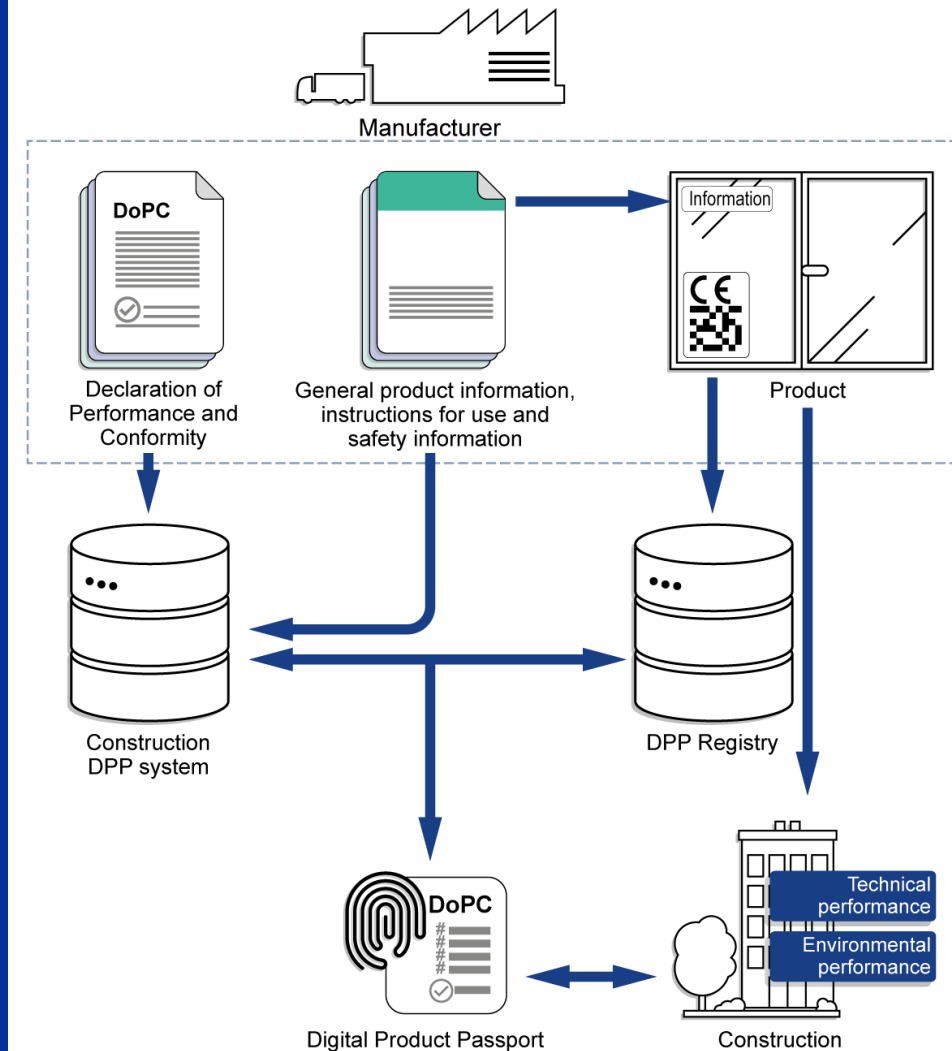


Set of digital documents

Traceable to the relevant product placed on the market

Providing regulatory and technical information about the product

Interoperable with other passports, IT tools and software, including BIM





Set of digital documents

Traceable to the relevant product placed on the market

Providing regulatory and technical information about the product

Interoperable with other passports, IT tools and software, including BIM

Why do we need a DPP in the CPR?

Increase transparency and facilitates traceability

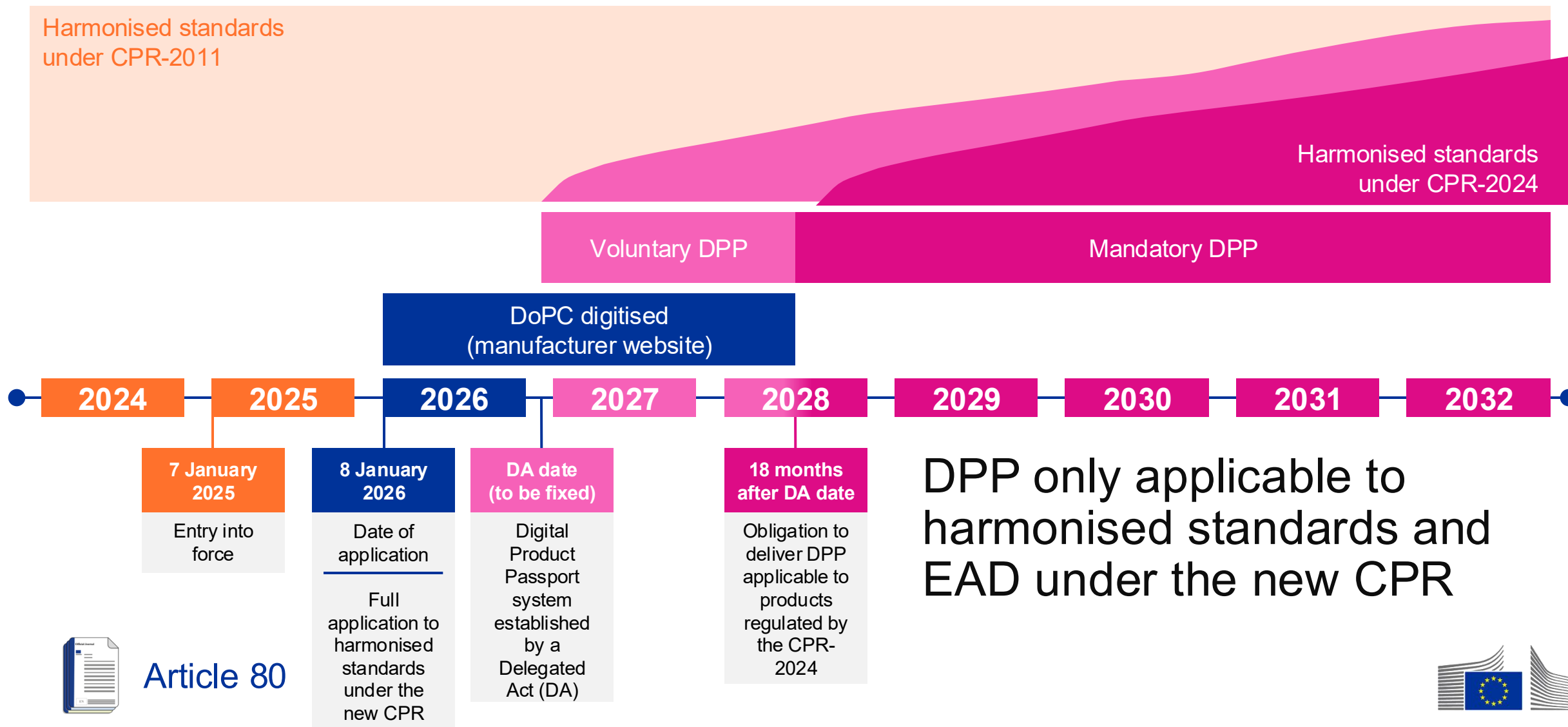
Improve the management of complex information

Reduce administrative burdens through digital process

Advantages only if DPP are harmonised at EU level



Digitalisation timeline



Product families and priorities

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



Annex VII



Product families and priorities

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

	Horizontal subgroups
	Standardisation request adopted
	CPR Acquis ongoing work
	CPR Acquis not started yet
1	Priority



Annex VII



ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR)

CONSTRUCTION PRODUCTS REGULATION (CPR)

CPR Delegated Act Article 75

Harmonised technical specifications and European assessment documents



Chapter X



ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR)

Unique identifiers

Unique product identifier

dpp:3234567890126

Unique operator identifier

dpp:VAT:AT U14589505

Unique facility identifier

dpp:ISO3166-2:BE

Data carriers



ESPR Registry

Stores in a secure manner unique identifiers

Other DPP data to be stored

Web portal

Information
Digital Product
Passport

CONSTRUCTION PRODUCTS REGULATION (CPR)

CPR Delegated Act Article 75

Harmonised technical specifications and European assessment documents



Article 79



ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR)

CONSTRUCTION PRODUCTS REGULATION (CPR)

Granularity

Product type as defined by the manufacturer

abstract model of individual products, determined by the intended use and a set of characteristics which exclude any variation with regard to performance or to the fulfilment of product requirements

Availability

10
years

Manufacturer
responsibility

15
years

Procedure to
ensure
availability

Back up DPP

Documents

Declaration of performance and conformity

General product information, instructions for use and safety information

Label

Unique identifiers

Documentation under other Union law

Technical documentation

CPR Delegated Act Article 75

Harmonised technical specifications and European assessment documents



Article 75 to 78



ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR)

CONSTRUCTION PRODUCTS REGULATION (CPR)

CPR Delegated Act Article 75

BIM

Compatibility with
product data
templates

Data
post-integrated
in other tools

Access

DPP access rights

Permissions for
creation and update

DPP service
providers

Options

Centralised
database

Licensed DPP
service providers

Manufacturers
hosting + backup

Data dictionary

Procedure to create
and update data

Harmonised technical specifications and European assessment documents



Article 75(1) and Chapter X



ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR)

CONSTRUCTION PRODUCTS REGULATION (CPR)

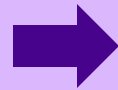
CPR Delegated Act Article 75

Harmonised technical specifications and European assessment documents

Human and machine-readable format

Guidelines to ensure interoperability

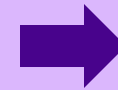
Horizontal
guidance at
ESPR level not
detailed
enough



Under the
responsibility of
CEN/TC
dealing with
products



IT knowledge
usually not
available



Clear rules to
be followed
in agreement
with CCMC



Article 16(3) and 35(2)(c)



Conclusions



Single market

Full harmonisation

Simplification

Interoperability

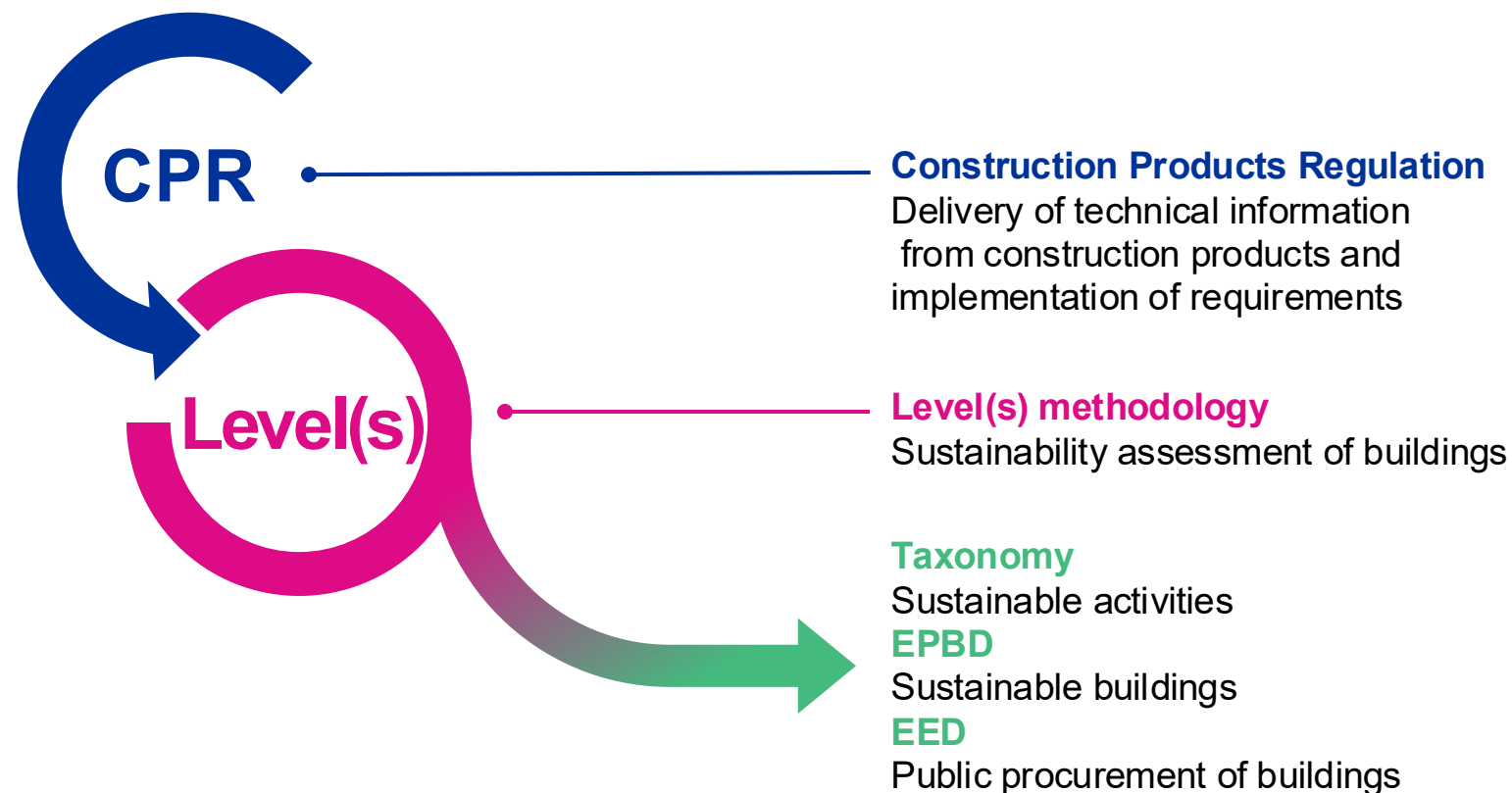
Common digital technical language

One stop shop for the access of the information
Information provided when needed

Data source to be used when required



Conclusions



Interoperability

Data source to be used when required



Conclusions



EPBD: Mandatory calculation of life-cycle GWP of new buildings

Values	Numeric indicator for each life-cycle stage
Units	kg CO ₂ eq./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

Thank you!



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The background of the slide features a light blue and white pattern of interconnected circles and lines, resembling a network or data flow. Various digital icons are scattered throughout, including laptops, smartphones, tablets, and server racks. The text is centered in a dark green, sans-serif font.

Standards supporting Digital Product Passport

ECO Webinar #4 Digital Product Passport
under the new Construction Products Regulation, 13.11.2025



Espen Schulze

Group VP Research, Cobuilder

- Expert in numerous standardization projects in CEN and ISO
- CEN/TC 442
 - **Convenor WG12 – Digital DoPC**
 - Project leader in WG 7 – Methodology for CEN TCs
 - Project leader of EN ISO 23387 – Data templates
- CEN/CLC/JTC 24 – Digital Product Passport
 - Expert – semantic interoperability



Ecodesign for Sustainable Products Regulation (ESPR)

Making sustainable products in the EU the norm

- the cornerstone of the European Commission's approach to more environmentally sustainable and circular products
 - framework for the setting of **ecodesign requirements**
 - aim of improving the environmental sustainability of products in order to make **sustainable products the norm**
 - reduce the overall **carbon footprint**
 - ensuring the **free movement of sustainable products** within the internal market



Ecodesign for Sustainable Products Regulation (ESPR)

Making sustainable products in the EU the norm

- This Regulation also establishes a **Digital Product Passport (DPP)**

*‘**digital product passport**’ means a set of data specific to a product that includes the information specified in the applicable delegated act adopted pursuant to Article 4 and that is accessible via electronic means through a data carrier in accordance with Chapter III;*

CEN-CLC/JTC 24 “Digital Product Passport Framework and System”

Objectives	Participants	Timing
Fulfill the Standardization Request (SReq) to define harmonized standards for the DPP System according to Ecodesign for Sustainable Products Regulation (ESPR) Battery Regulation + ...	Appr. 300 Experts in Delegations from 20 Member States + Switzerland, UK Currently 24 Liasons requests (European and Global)	Deadline to deliver hEN for 8 Modules Dec. 31st, 2025 2023 2024 2025 2028 Dec. 18th, 2023 Kick Off Meeting Planned End of JTC 24

List of Standards to be delivered by JTC 24

List of European standards to be drafted and deadlines for their adoption as referred to in Article 1

Reference information		Deadline for the adoption by the ESOs	
1.	European standard(s) on unique identifiers	31 December 2025	
2.	European standard(s) on data carriers and links between physical product and digital representation	31 December 2025	
3.	European standard(s) on access rights management, information, system security, and business confidentiality	31 December 2025	
4.	European standard(s) on interoperability (technical, semantic, organisation)	31 December 2025	
5.	European standard(s) on data processing, data exchange protocols and data formats	31 December 2025	
6.	European standard(s) on data storage, archiving, and data persistence	31 December 2025	
7.	European standard(s) on data authentication, reliability, integrity	31 December 2025	
8.	European standards on Application Programming Interfaces (APIs) for the product passport lifecycle management and searchability	31 December 2025	

(New) Construction Products Regulation

Digital Product Passport

(including Declaration of
Performance and
Conformity)

Article 75

Construction digital product passport system

The construction digital product passport system shall:

- *be compatible, interoperable and built on the digital product passport established by the regulation (EU) .../... [Regulation on eco design for sustainable products], without compromising interoperability with Building Information Modelling (BIM) while taking into account the specific characteristics and requirements related to construction products;*

Article 77

General requirements for the product passport

all information included in the product passport shall be based on open standards, developed with an interoperable format and shall be, as appropriate, machine-readable, structured, searchable and transferable

(New) Construction Products Regulation

Implementing
digitalization
through the use of
data dictionary
and **machine-
readable format**

*It is necessary to establish well-functioning information flows, including via electronic means and in a **machine-readable format***

Whereas: (4)

*To improve machine readability, it is necessary to establish **a common data dictionary** based on European standards, a tool to govern and publish the data structure and their meaningful definitions and descriptions for all relevant construction products. **For each product family or category, the data dictionary should include all the essential characteristics and other properties as set out in the harmonised technical specifications** as well as other information required according to this regulation. A data dictionary harmonised at the EU level allows for the classification and use of structured definitions by both competent national authorities and in the further digitalisation of the construction sector, in particular in Building Information Modelling, building logbooks, digital passports and registries.*

Whereas: (84a)



CEN/TC 442

BIM standards supporting Digital Product Passport



ISO/TC 59

Horizontal (cross-
domains) technical
framework

EN ISO
23386

Expert
process,
meta data

EN ISO
23387

Data
templates

EN ISO
12006-3

Data
dictionaries

Methodology to
support domain
specific
development -
format independent

WI
00442061

Digital
DoPC

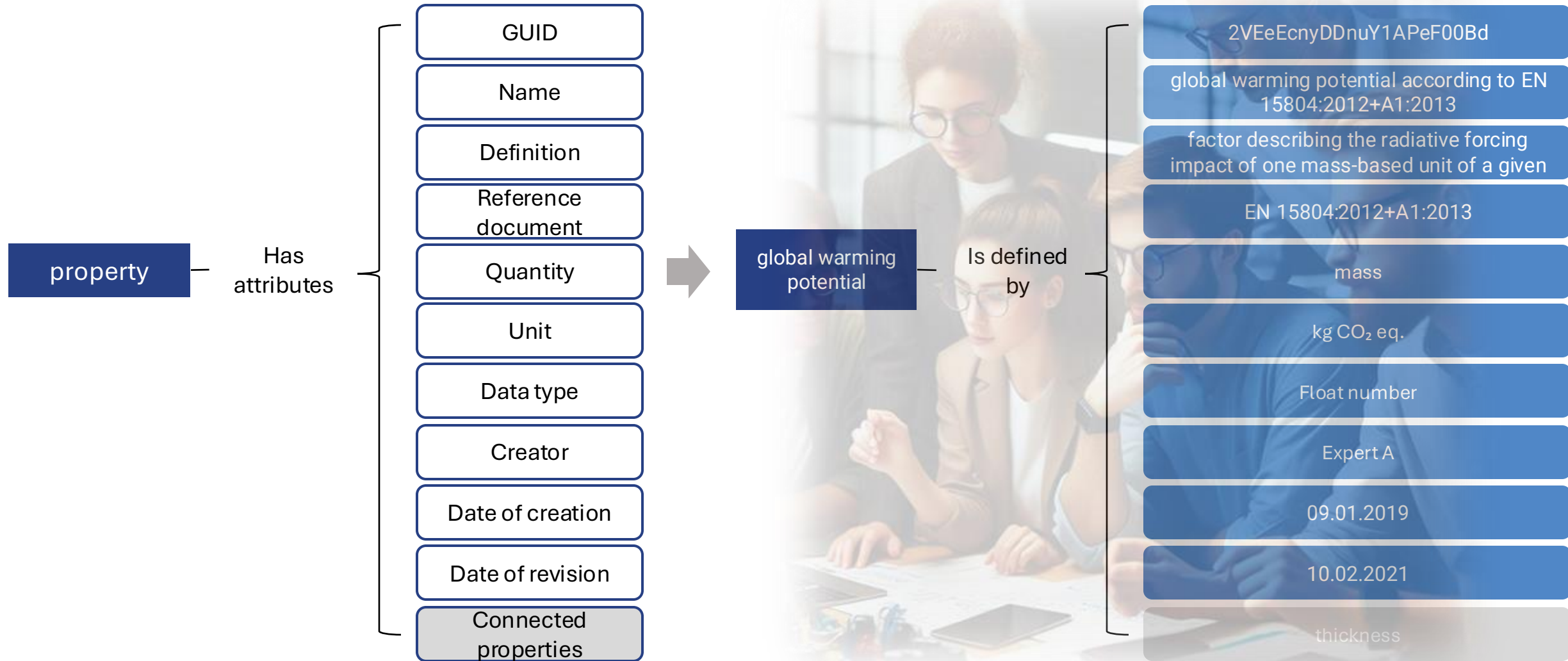
WI
00442051

Guideline
for TC

EN ISO
22057

Digital EPD

'BIM properties' modeling process - governed by domain experts





Methodology for CEN technical committees



TC 442/WG 7

Horizontal role

TC XXX

Technical framework

EN ISO
23386

EN ISO
23387

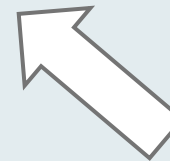
*Expert
process*



*Data
model*

Methodology (guideline)

WI 00442051



Product
standards

Design
standards

Properties table

Name	Definition	Short name	Symbol	Reference document	Quantity kind	Unit	Data type	Possible values	Boundary values	Proxy dependency
maximum hardware operating torque [finger operated] acc. to EN 12046-2				EN 12046-2	torque	Nm	real	user input		
water tightness				EN 14351-1:2006+A2:2016	Inherited	Inherited	Inherited	Inherited	Inherited	classification of water tightness [method A] acc. to EN 12208:1999 of water tightness [method B] acc. to EN 12208:1999
classification of water tightness [method A] acc. to EN 12208:1999				EN 12208:1999	nominal	unitless	string	1A; 2A; 3A; 4A; 5A; 6A; 7A; 8A; 9A; E750; E900; E1050; E1200; E1350; E1500; E1650; E1800		
classification of water tightness [method B] acc. to EN 12208:1999				EN 12208:1999	nominal	unitless	string	1B; 2B; 3B; 4B; 5B; 6B; 7B		
water tightness test result acc. to EN 1027:2016				EN 1027:2016	logical	unitless	boolean	pass; fail		
test pressure acc. to EN 1027:2016				EN 1027:2016	pressure	Pa	real	0; 50; 100; 150; 200; 250; 300; 450; 600; 750; 900; 1050; 1200; 1350; 1500; 1650; 1800		
air permeability				EN 14351-1:2006+A2:2016	Inherited	Inherited	Inherited	Inherited	Inherited	classification of air permeability acc. to EN 12210:2016
classification of air permeability acc. to EN 12207:2016				EN 12207:2016	nominal	unitless	string	1; 2; 3; 4		
classification of air permeability related to overall area acc. to EN 12207:2016				EN 12207:2016	nominal	unitless	string	1; 2; 3; 4		
air permeability related to overall area acc. to EN 12207:2016				EN 12207:2016	volume flow	m3/(m2 h)	real	formula		
overall area acc. to EN 12207:2016				EN 12207:2016	surface density	m2	real	user input		
classification of air permeability related to the length of opening joints acc. to EN 12207:2016				EN 12207:2016	nominal	unitless	string	1; 2; 3; 4		
air permeability related to the length of opening joints acc. to EN 12207:2016				EN 12207:2016	volume flow line density	m3/(m h)	real	formula		
length of opening joints acc. to EN 12207:2016				EN 12207:2016	length	m	real	user input		
air permeability acc. to EN 1026:2016				EN 1026:2016	volume flow	m3/h	real	user input		
total solar energy transmittance		solar factor	g	EN 14351-1:2006+A2:2016	Inherited	Inherited	Inherited	Inherited	Inherited	total solar energy transmittance acc. to EN 410:2011; total transmittance acc. to EN ISO 52022-3:2017
glazing side ID			g'	EN 14351-1:2006+A2:2016	nominal	unitless	string	NULL, left, right		



TC 442

Environmental indicators, EPD for BIM



Technical framework

EN ISO
23386

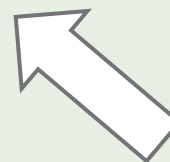
EN ISO
23387

*Expert
process*



*Data
model*

EN ISO 22057



Product
category
rules

EPD property table

Name	Description	GUID	Unit
Global warming potential - fossil fuels	defines the decreasing availability of non - renewable resources as a result of their extraction and underlying scarcity, relating to fossil fuels	3gHt8EnXf4iP2_NVmtSsAW	MJ, net calorific value
Global warming potential - non-fossil fuels - minerals and metals	defines the decreasing availability of non - renewable resources as a result of their extraction and underlying scarcity, relating to scarce elements and their ores	3eENUk7RLAZB0VprsH6p2Q	kg Sb eq
Acidification potential, accumulated	a measure of the acidification caused to land and water from emissions to air of acidifying substances	2cKXEcnKH2Hx7g\$LXSdXX0	mol H ⁺ eq
Depletion potential of the stratospheric ozone layer	the relative amount of degradation to the ozone layer a product can cause	0R6QcQZJnBqO_cgazRe09x	kg CFC 11 eq
Eutrophication potential, accumulated	a measure of the eutrophication caused by emissions	0bxI3NxmHBGhEnAKvHn0gJ	mol N eq
Eutrophication potential, fraction of nutrients reaching freshwater end compartment	a measure of the eutrophication caused by emissions reaching freshwater	0fHDpX02rBe90OnECvCyZ9	kg (PO ₄) ³⁻ eq
Eutrophication potential, fraction of nutrients reaching marine end compartment	a measure of the eutrophication caused by emissions reaching marine water	0jIKukBtDF3BVectVvcKJz	kg N eq
Global warming potential - biogenic	covers carbon emissions to air (CO ₂ , CO and CH ₄) originating from the oxidation and/or reduction of aboveground biomass by means of its transformation or degradation (e.g. combustion, digestion, composting, landfilling) and CO ₂ uptake from the atmosphere through photosynthesis during biomass growth – i.e. corresponding to the carbon content of products, biofuels or above ground plant residues such as litter and dead wood	1l3TyajTP5AAjWIWyoXlj8	kg CO ₂ eq(100 years)
Global warming potential - fossil fuels	it covers greenhouse gas (GHG) emissions to any media originating from the oxidation and/or reduction of fossil fuels by means of their transformation or degradation (e.g. combustion, digestion, landfilling, etc.)	2madygVA50l8lkpTzluxd6	kg CO ₂ eq(100 years)
Global warming potential - land use and land use change	factor describing the potential radiative forcing impact of carbon uptakes and emissions (CO ₂ , CO and CH ₄) originating from carbon stock changes caused by land use change and land use over a given period of time	0LUvsLL_L17w6_kQbr\$wYH	kg CO ₂ eq(100 years)
Global warming potential - total	it accounts for the total global warming potential arising from fossil, biogenic and land use and land use change emissions	0q8OITYA9AMQ262TdhWLUy	kg CO ₂ eq(100 years)



TC 442/WG 12

Digital structure for Declaration of Performance and Conformity (DoPC)



TC XXX

Technical framework

EN ISO
23386

EN ISO
23387

*Expert
process*

*Data
model*

Digital DoPC

WI 00442061

Methodologies

WI
00442051

EN ISO
22057



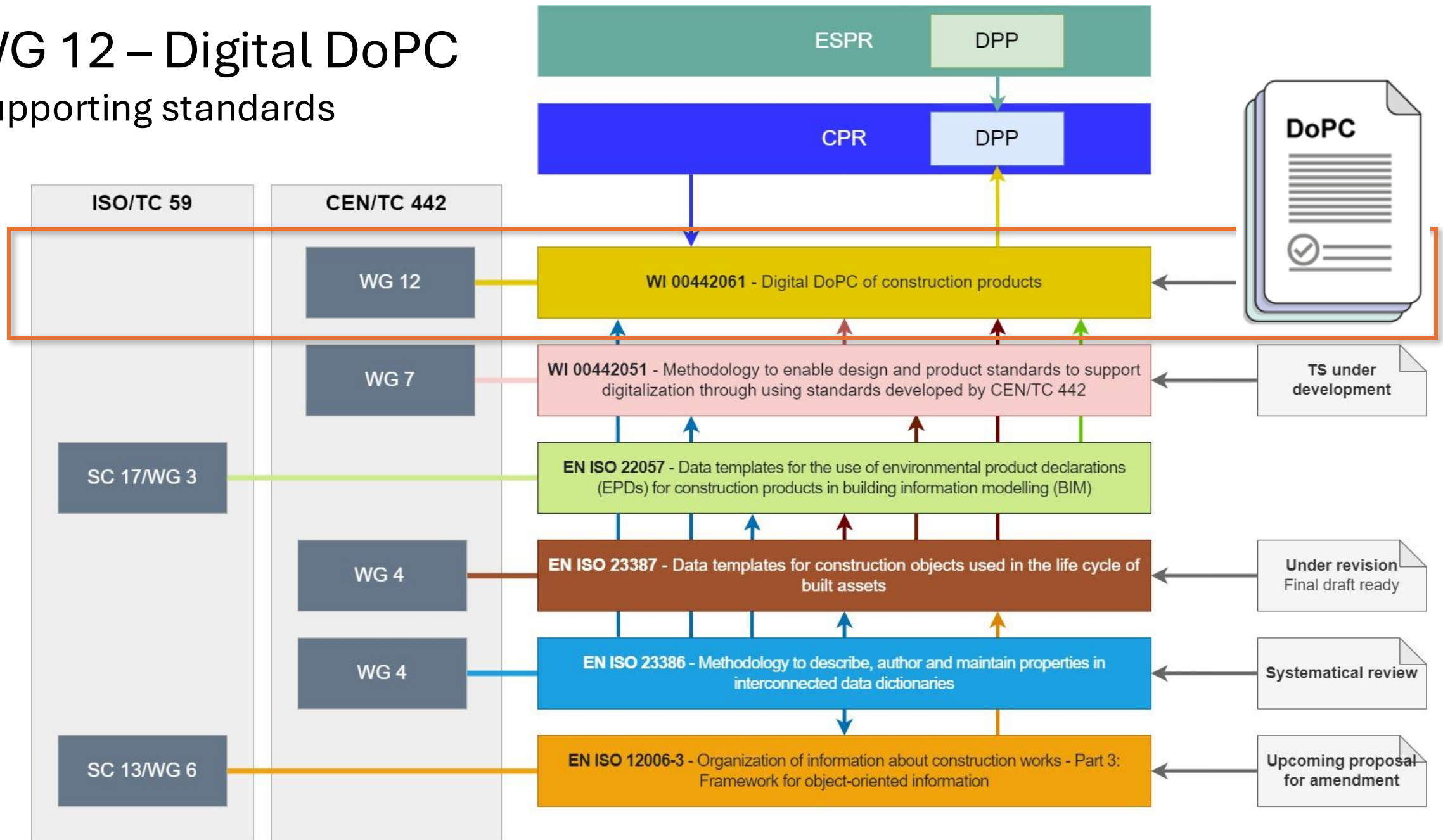
Harmonised
technical
specifications

Essential characteristics table (under development)

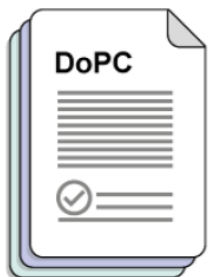
Name	Clause EC	Clause AM	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	AVS	Dependencies	Relevant for intended uses

WG 12 – Digital DoPC

Supporting standards



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

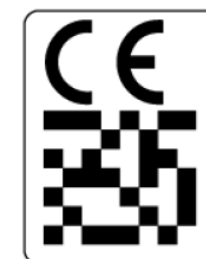
dpp:GTIN:3234567890126

Unique operator identifier

dpp:VAT:AT U14589505

Unique facility identifier

dpp:ISO3166-2:BE



**Data carriers
Key parts**



TC 442



CPR

Digital
DoPC/DPP



CENELEC

JTC 24



Technical
compatibility



DPP

Thank you!

Contact me for further
information and discussions



schulze@cobuilder.no



[/espen-schulze](https://www.linkedin.com/company/espen-schulze)