CONSTRUCTION PRODUCTS EUROPE

Digital Construction

Workshop
Brussels, 7th October 2025

The new Construction Products Regulation

Regulation (EU) 2024/3110

DG GROW H.1

European Commission

Official Journal
of the European Union

EN
L series

2024/3110

18.12.2024

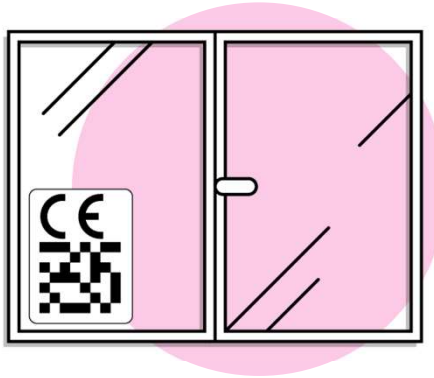
REGULATION (EU) 2024/3110 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

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

CE marking meaning



Affixing the CE marking and drawing up the relevant DoPC means assuming the responsibility for the conformity of the product with the declared performance and applicable product requirements.

By affixing the CE marking, the economic operator becomes liable for the declared performance and the fulfilment of those requirements in accordance with national law on contractual and extra-contractual liability.

Article 13(2)

Product type

Granularity of the declaration

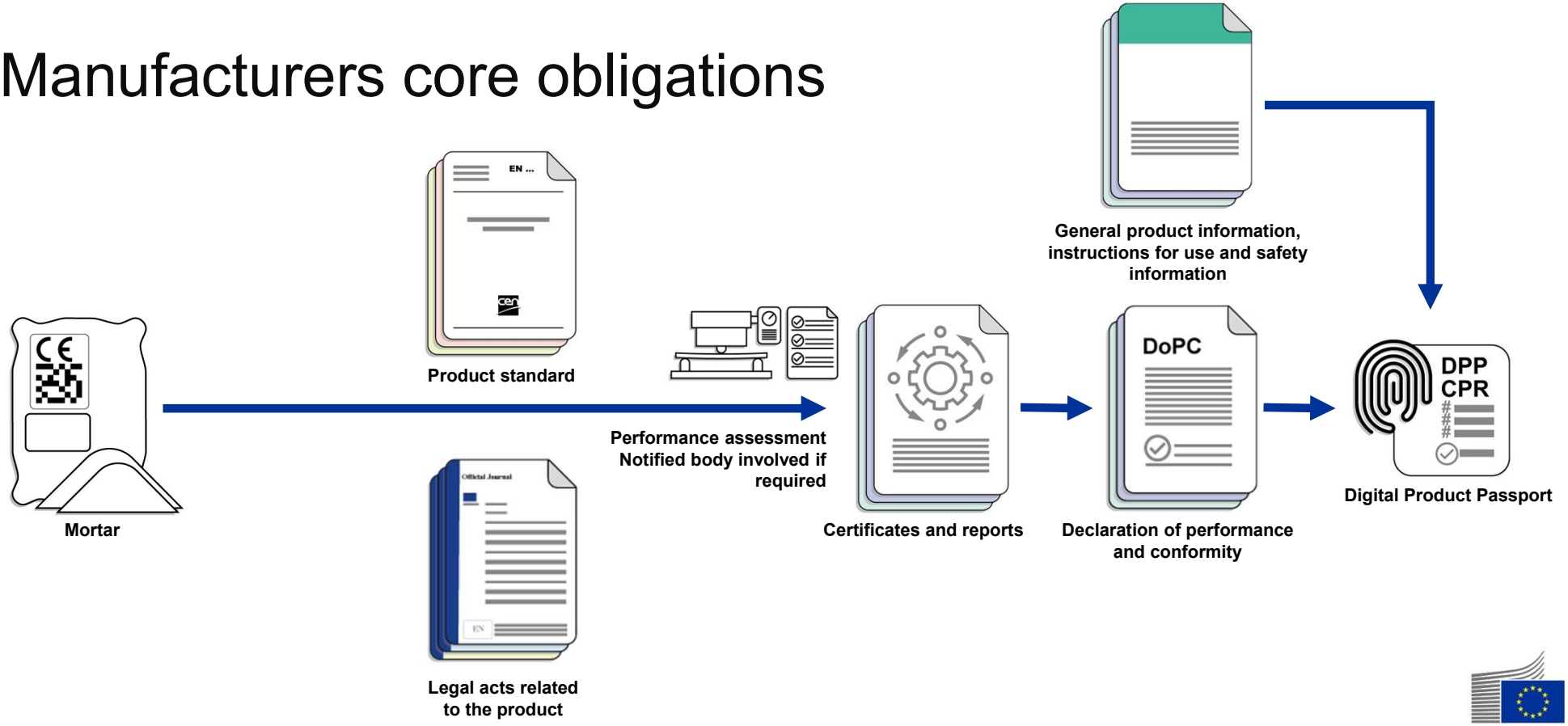
abstract model of individual products, determined by the intended use and a set of characteristics which exclude any variation with regard to performance or to the fulfilment of product requirements set out in or in accordance with this Regulation, although identical products of different manufacturers belong to different product types



Article 3(27)

Placing products on the EU market

Manufacturers core obligations



Essential characteristics

Example: cement

Essential characteristic	Assessment method	Quantity	Units	Classes	Thresholds
minimum standard compressive strength - 28 days	EN 196-1	ML-1T-2	MPa	■	≥ 32.5 MPa
maximum standard compressive strength - 28 days	EN 196-1	ML-1T-2	MPa	■	≥ 32.5 MPa
initial setting time	EN 196-3	T	Min		≥ 45 min
loss of ignition	EN 196-2	ratio	unitless		≤ 5.0%
soundness	EN 196-3	L	mm		≤ 10 mm
heat of hydration	EN 196-8	L2T-2	J/g		
…					

Assessment and FPC may require third party involvement (notified bodies)



Classes

Example: cement

Essential characteristic	Assessment method	Quantity	Units	Classes	Thresholds
minimum standard compressive strength - 28 days	EN 196-1	ML-1T-2	MPa	■	≥ 32.5 MPa
maximum standard compressive strength - 28 days	EN 196-1	ML-1T-2	MPa	■	≥ 32.5 MPa
initial setting time	EN 196-3	T	Min		≥ 45 min
loss of ignition	EN 196-2	ratio	unitless		≤ 5.0%
soundness	EN 196-3	L	mm		≤ 10 mm
heat of hydration	EN 196-8	L2T-2	J/g		
…					

Classes

Essential characteristic	Assessment method	Value
minimum standard compressive strength - 28 days	32.5	32.5 MPa
	42.5	42.5 MPa
	52.5	52.5 MPa

Essential characteristic	Assessment method	Valu
maximum standard compressive strength - 28 days	42.5	42.5 MPa
	52.5	52.5 MPa
	62.5	62.5 MPa

The list of essential characteristics reflects all regulatory and technical needs related to the product

Declaration of performance



Declaration of performance and conformity

DoPC includes the declared performance

Only some essential characteristics must be declared the rest is voluntary

Declaration does not mean fit for purpose or safety

Member States can only regulate the essential characteristics available in the standard

Manufacturer is liable if the product does not reach the declared performance



Digital Product Passport





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?

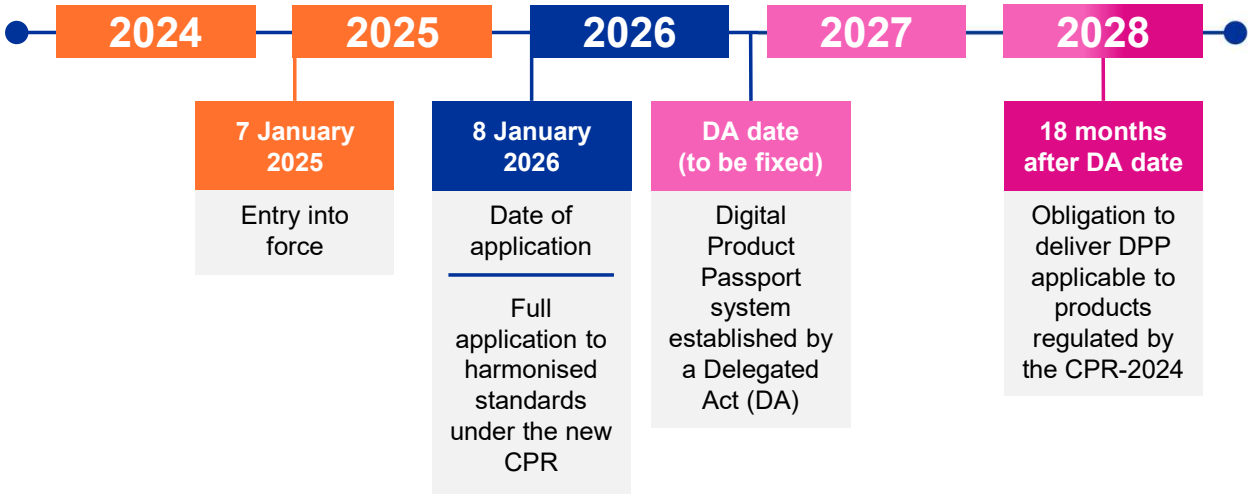
Increase transparency and facilitates traceability

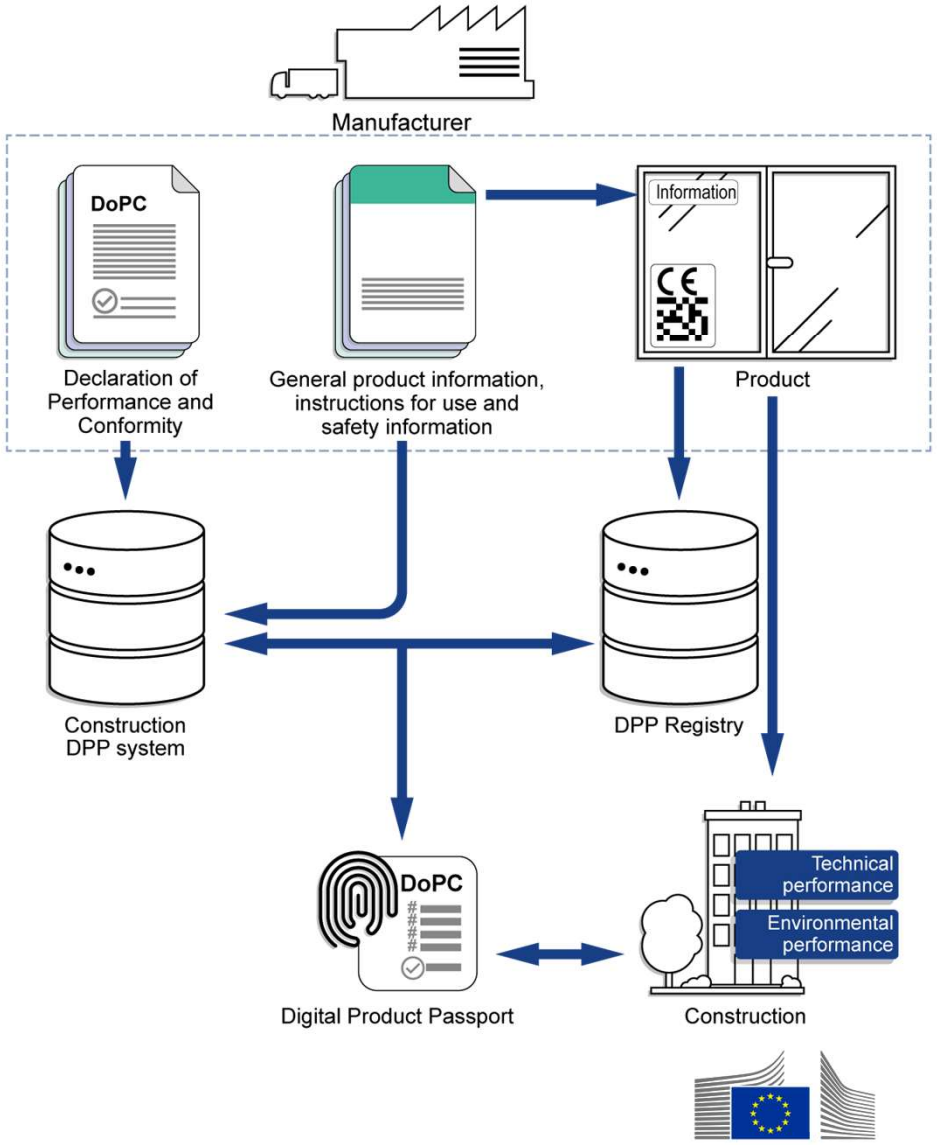
Improve the management of complex information

Reduce administrative burdens through digital process

Advantages only if DPP are harmonised at EU level

Digitalisation

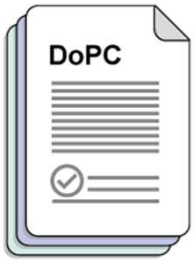




Information

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

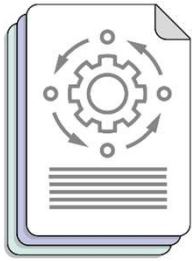
DPP content



Declaration of performance and conformity



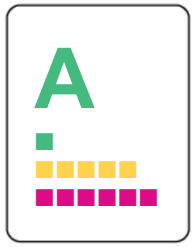
General product information, instructions for use and safety information



Technical documentation



Documentation required under other Union law



Label (when applicable)

Unique product identifier

dpp:**3234567890126**

Unique operator identifier

dpp:VAT:**AT U14589505**

Unique facility identifier

dpp:ISO3166-2:**BE**



Data carriers Key parts

DPP framework

ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR)	Unique identifiers	Data carriers
	ESPR registry	Web portal
CONSTRUCTION PRODUCTS REGULATION (CPR)	Documents	Granularity
	Availability	General rules
CPR Delegated Act Article 75	Access	Data dictionary
	DPP system	BIM connection
Harmonised technical specifications and European assessment documents	Guidelines to ensure interoperability	

ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR)

CONSTRUCTION PRODUCTS REGULATION (CPR)

CPR Delegated Act Article 75

Harmonised technical specifications and European assessment documents

ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR)

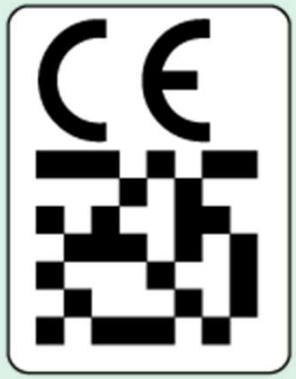
Unique identifiers

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

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	Back up DPP
15 years	Procedure to ensure availability	

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

ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR)

CONSTRUCTION PRODUCTS REGULATION (CPR)

CPR Delegated Act Article 75

BIM	Access	Options	Data dictionary
Compatibility with product data templates Data post-integrated in other tools	DPP access rights Permissions for creation and update DPP service providers	Centralised database Licensed DPP service providers Manufacturers hosting + backup	Procedure to create and update data

Harmonised technical specifications and European assessment documents

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

Harmonised technical specifications and European assessment documents

EUROPEAN COMMISSION

Brussels, 28.7.2025
C(2025) 4828 final

ANNEXES 1 to 2

ANNEXES

to the

COMMISSION IMPLEMENTING DECISION

on a standardisation request to the European Committee for Standardisation as regards cement, lime and other hydraulic binders in support of Regulation (EU) 2024/3110 of the European Parliament and of the Council

EN **EN**

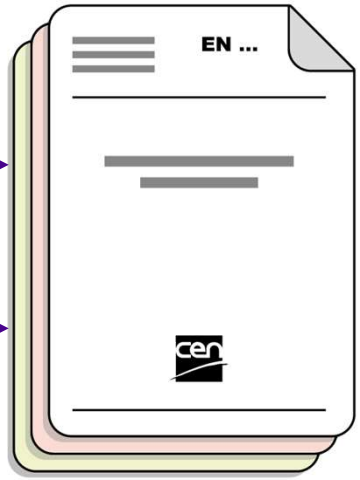
DRAFT

CEN-CENELEC GUIDE 36

Guidance on the rules for the drafting and presentation of candidate performance harmonized standards in support of Regulation (EU) 2024/3110 Construction Products Regulation CPR-2024

March 2025

CEN and CENELEC decided to adopt this new CEN-CENELEC Guide 36 through…



Harmonised technical specifications and European assessment documents

CEN shall follow the procedures in place for quality verification of harmonised standard before their adoption.

2.2. References to standards

The harmonised standards shall only contain unequivocal dated normative references to other CEN standards, CEN ISO standards, ISO standards or parts thereof ('supporting standards'). Supporting standards or parts thereof may neither conflict with Union law nor provide for discretion where such discretion has not been laid down in Union law and shall not include direct or indirect references to national provisions.

Supporting standards shall not include normative references to other standards or parts thereof other than those fulfilling the conditions set out in this point. Where these conditions are not fulfilled, the harmonised standard may clarify the normative reference referred to, including the dates of the chain of references which are applicable.

2.3. Essential characteristics

In relation to the assessment and declaration of essential characteristics, the standards shall include the reference assessment method for each essential characteristic (the harmonised standard may offer additional information referring to other supporting standards as regards sampling or testing conditions when needed).

For all essential characteristics, the same methods and criteria for assessing the performance shall apply across products, unless it is found necessary, and justified in writing, to apply particular methods and or criteria in relation to particular products.

For the essential characteristics related to the content and release of emission of dangerous substances, the harmonised standards shall apply assessment methods applicable across materials, consistent with those developed by the Technical Committee dealing with construction products – assessment of release of dangerous substances.

For the essential characteristics related to environmental sustainability, the harmonised standards shall identify and enumerate all the relevant elements of performance related to the whole life cycle of the products concerned. This standardisation work shall be consistent with Annex II of Regulation (EU) 2024/3110, the most updated version of the horizontal standard dealing with sustainability of construction works – environmental product declarations – core rules for the product category of construction products and with the complementary product category rules defined in the harmonised standard listed in Table 2, point 9, of Annex II.

When the declared performance is a numerical value or a class obtained from a numerical value, the harmonised standards shall include the following information for each essential characteristic:

(a) the physical dimensions according to the SI standard: time (T), length (L), mass (M), electric current (I), thermodynamic temperature (K), amount of substance (N) and luminous intensity (J) a derivation of them or ratio in case of dimensionless quantities;

(b) the statistical value declared expressed using a specific point, like the fractile (e.g., 50% fractile is the median) and a confidence interval, which indicates the range within which the true value is likely to fall, as well as the probability that this interval contains the true value. In justified circumstances a simpler method, such as setting out a characteristic value can also be applied;

(c) the units in which the performance is expressed or dimensionless;

(d) when applicable, the rounding method used for the declaration.

Group	BRCW[1]	Essential characteristic	EU threshold	Class	Comments
common cement	1	minimum standard compressive strength - 28 days	≥ 32.5 MPa	Table 24	mandatory declaration
		maximum standard compressive strength - 28 days		Table 25	
		minimum very early compressive strength - 24 h			
		minimum early compressive strength - 2 days		Table 32	
		minimum early compressive strength - 7 days		Table 33	
		minimum late compressive strength - 56 days			
		minimum late compressive strength - 90 days			
		initial setting time	≥ 45 min		mandatory declaration
		loss on ignition	≤ 5.0%		mandatory declaration only for primary cement (a minimum of 95% clinker) and binary cements with clinker and 36% to 95% of blast furnace slag
		soundness	≤ 10 mm		mandatory declaration
		heat of hydration			
		pozzolanicity - hydroxyl ion concentration			relevant only for pozzolanic cements with a maximum of 55% of a combination of silica fume, natural pozzolana, natural activated pozzolana, fly ash and coal bottom ash and a maximum of 10% silica fume
		pozzolanicity - calcium oxide concentration			relevant only for pozzolanic cements with a maximum of 55% of a combination of silica fume, natural pozzolana, natural activated pozzolana, fly ash and coal bottom ash and a maximum of 10% silica fume
		insoluble residue content	≤ 5.0%		mandatory declaration and threshold only for primary cement (a minimum of 95% clinker) and binary cements with clinker and 36% to 95% of blast furnace slag
		sulphate content			
		chloride content	≤ 0.10%		mandatory declaration, threshold not applicable to binary cement with clinker and a maximum of 95% of blast furnace slag and to composite cements with a minimum of 35% clinker, a maximum of 59% of blast-furnace slag and a maximum of 20% of natural pozzolana, natural activated

Standardisation request

Harmonised technical specifications and European assessment documents

Group	BRCW[1]	Essential characteristic	EU threshold	Class	Comments
		minimum standard compressive strength - 28 days	≥ 32.5 MPa	Table 24	mandatory declaration

In relation to the assessment and declaration of essential characteristics, the standards shall include the reference assessment method for each essential characteristic (the harmonised standard may offer additional information referring to other supporting standards as regards sampling or testing conditions when needed).

(a) the physical dimensions according to the SI standard: time (T), length (L), mass (M), electric current (I), thermodynamic temperature (K), amount of substance (N) and luminous intensity (J) a derivation of them or ratio in case of dimensionless quantities;

(b) the statistical value declared expressed using a specific point, like the fractile (e.g., 50% fractile is the median) and a confidence interval, which indicates the range within which the true value is likely to fall, as well as the probability that this interval contains the true value. In justified circumstances a simpler method, such as setting out a characteristic value can also be applied;

(c) the units in which the performance is expressed or dimensionless;

(d) when applicable, the rounding method used for the declaration.

Standardisation request

Harmonised technical specifications and European assessment documents

Group	BRCW[1]	Essential characteristic	EU threshold	Class	Comments
		minimum standard compressive strength - 28 days	≥ 32.5 MPa	Table 24	mandatory declaration

TEMPLATE

Table ZA.1.1 includes the essential characteristics related to [name of product A-n as given in the standardization request] for the intended use [intended use 1-n as given in the standardization request] and the applicable assessment and verification systems according to the delegated act adopted by the EC: [code of the EC legal act, adopted by the EC] [(insert here the No. of OJEU)].

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

Essential characteristic	Clause	Clause method	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	AVS	Notes
[name of essential characteristic 1 as given in the standardization request]	4.[x]	5.[x]	[symbol]	[EN…]	[X]	[X]	[unit]	[value kind]	[class]	[threshold/ declared]	[X]	[note]
…	…	…	…	…	…	…	…	…	…	…	…	…

CEN Guide 36

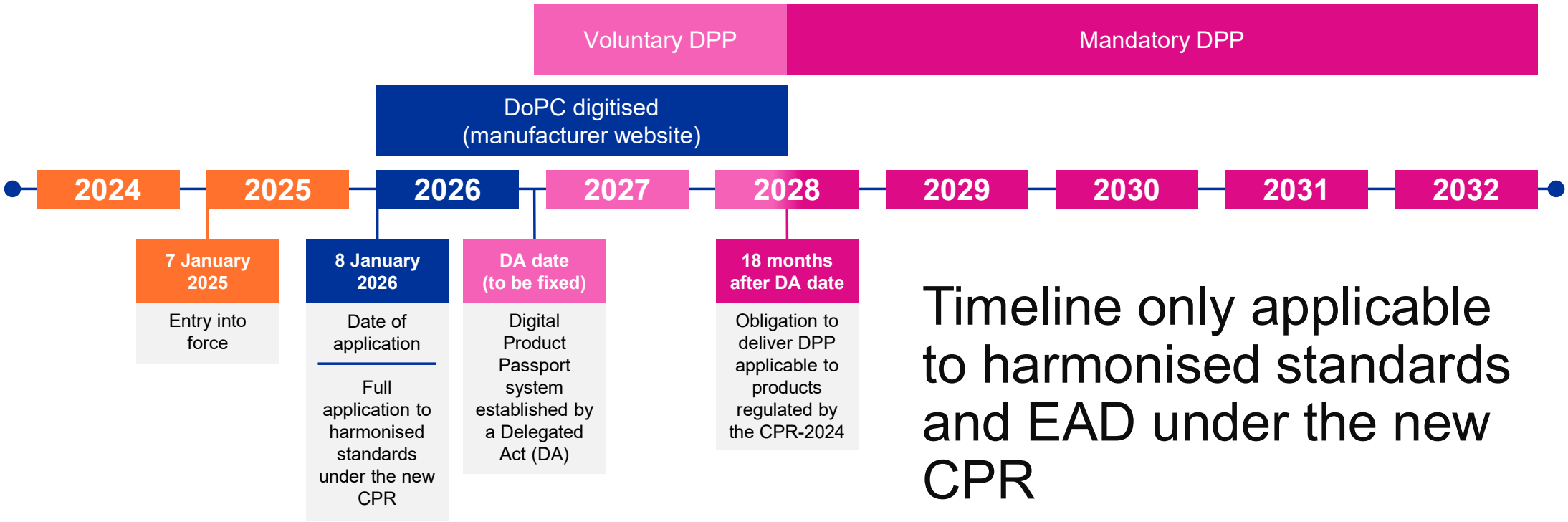
DPP implementation

Manufacturers will provide DoPC following the approach in harmonised standards

Using DPP digitalisation standards, the information will be encoded (DPP service provider/manufacturer)

Registration and activation will make the DPP available linked to the placing on the market of the product

Digitalisation timeline



Timeline only applicable to harmonised standards and EAD under the new CPR



Conclusions

We are developing a regulatory framework to ensure harmonisation of DPP

The technical content is developed by CEN Technical Committees

We need your inputs to make sure the system works properly

Make sure the system reflect your needs from the beginning!

Thank you!



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Slide 6: https://commons.wikimedia.org/wiki/File:Compressive_strength_test.gif