

The DPP in the new CPR

Regulation (EU) 2024/3110

DG GROW H.1

What is the CPR?

Construction products

- Harmonised rules
 - Single market
 - Free movement of products (CE marking)
 - Common technical language
 - Digital Product Passport
- National Building Codes
- Construction works



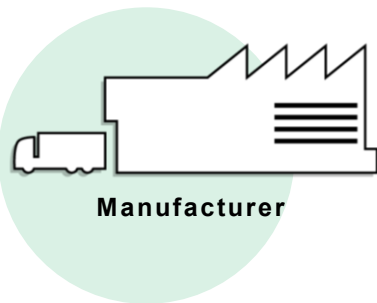
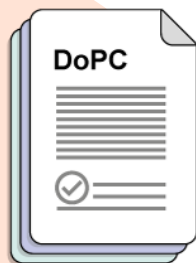
Construction Products Regulation

Product related
regulatory needs

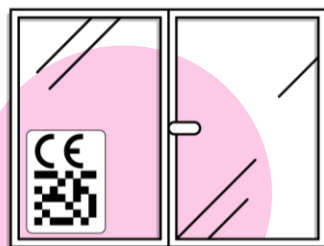
National construction codes

**Single
market for
construction
products**

Declaration of
performance and
conformity



Manufacturer



CE marking

Placing on
the market

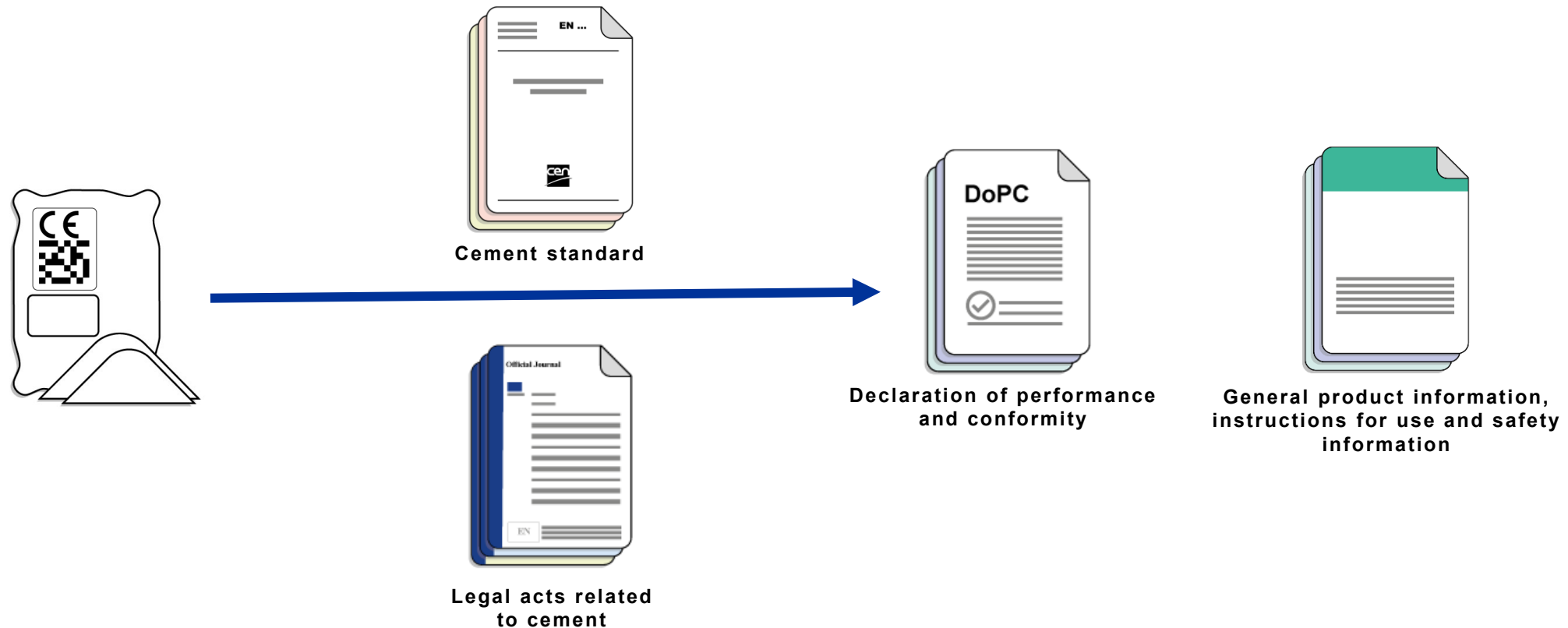


Construction works



Placing products on the EU market

Manufacturers 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		$\leq 5.0\%$
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		$\leq 5.0\%$
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	Value
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

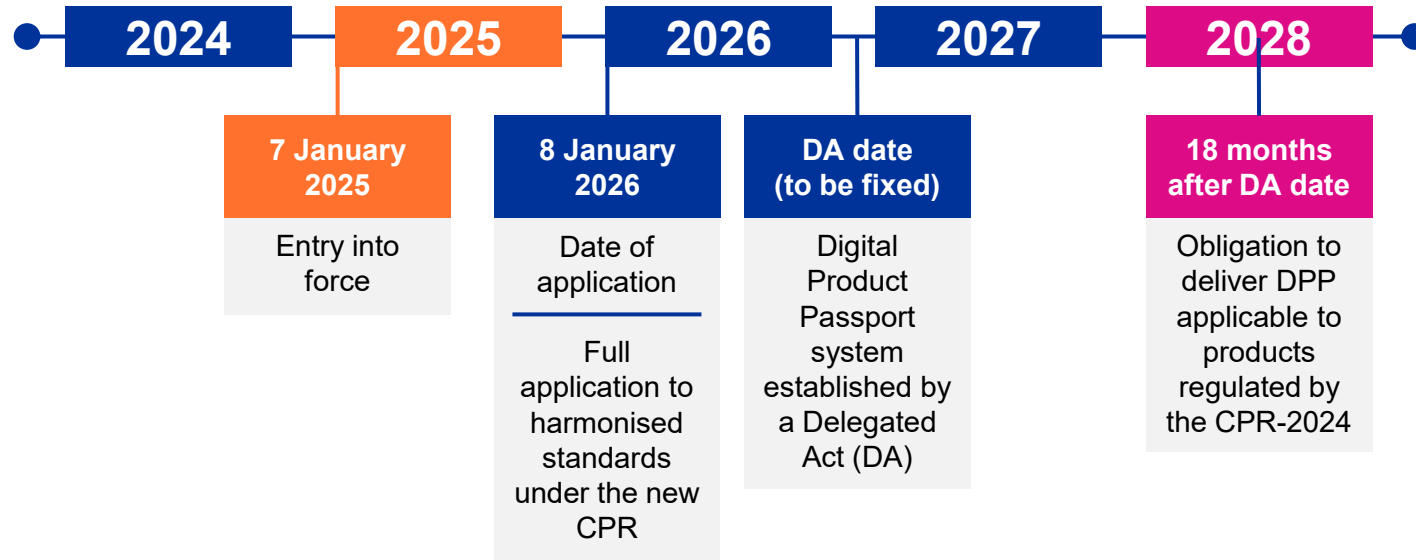
Declaration does not mean fit for purpose or safety

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

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

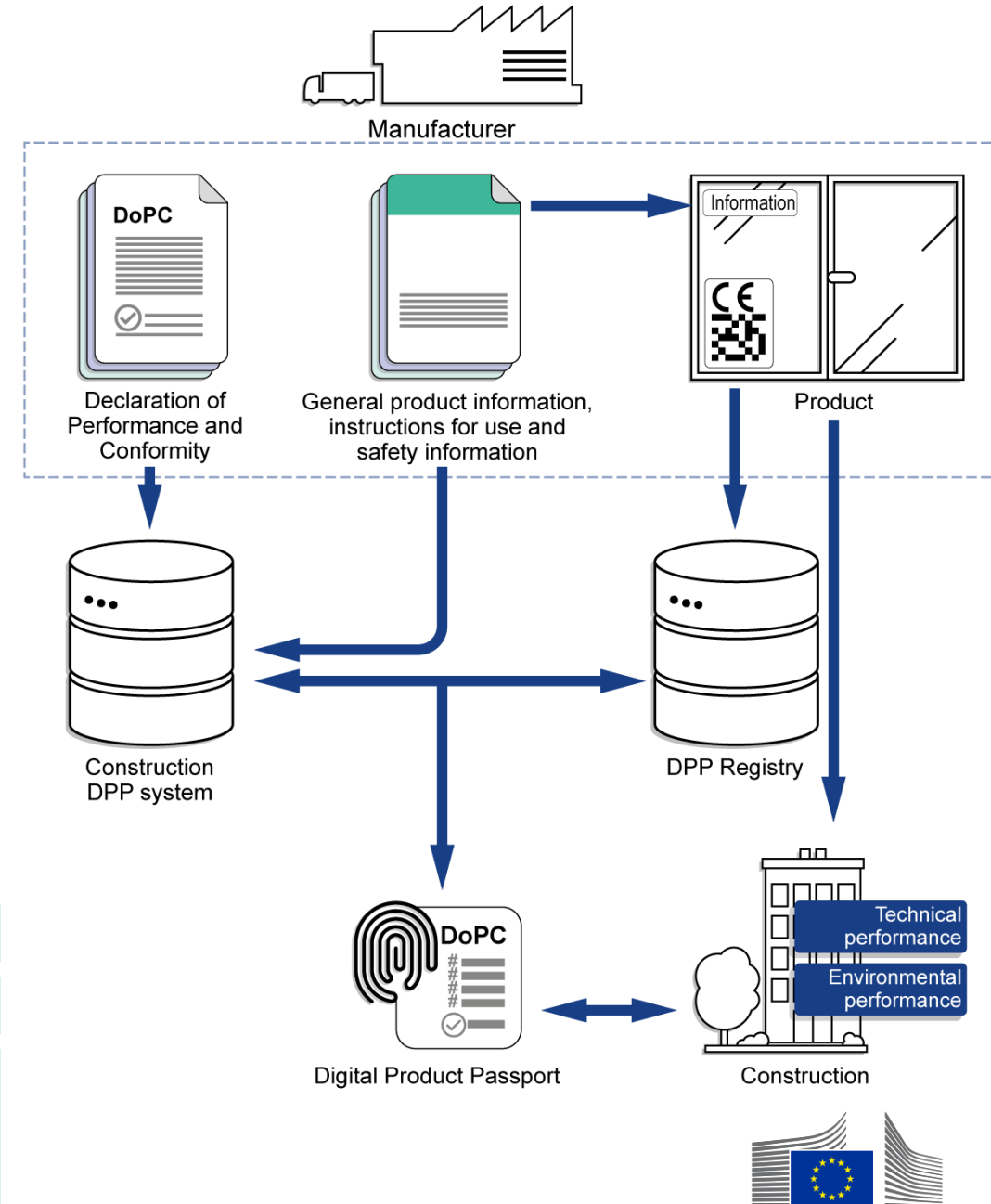


Digitalisation

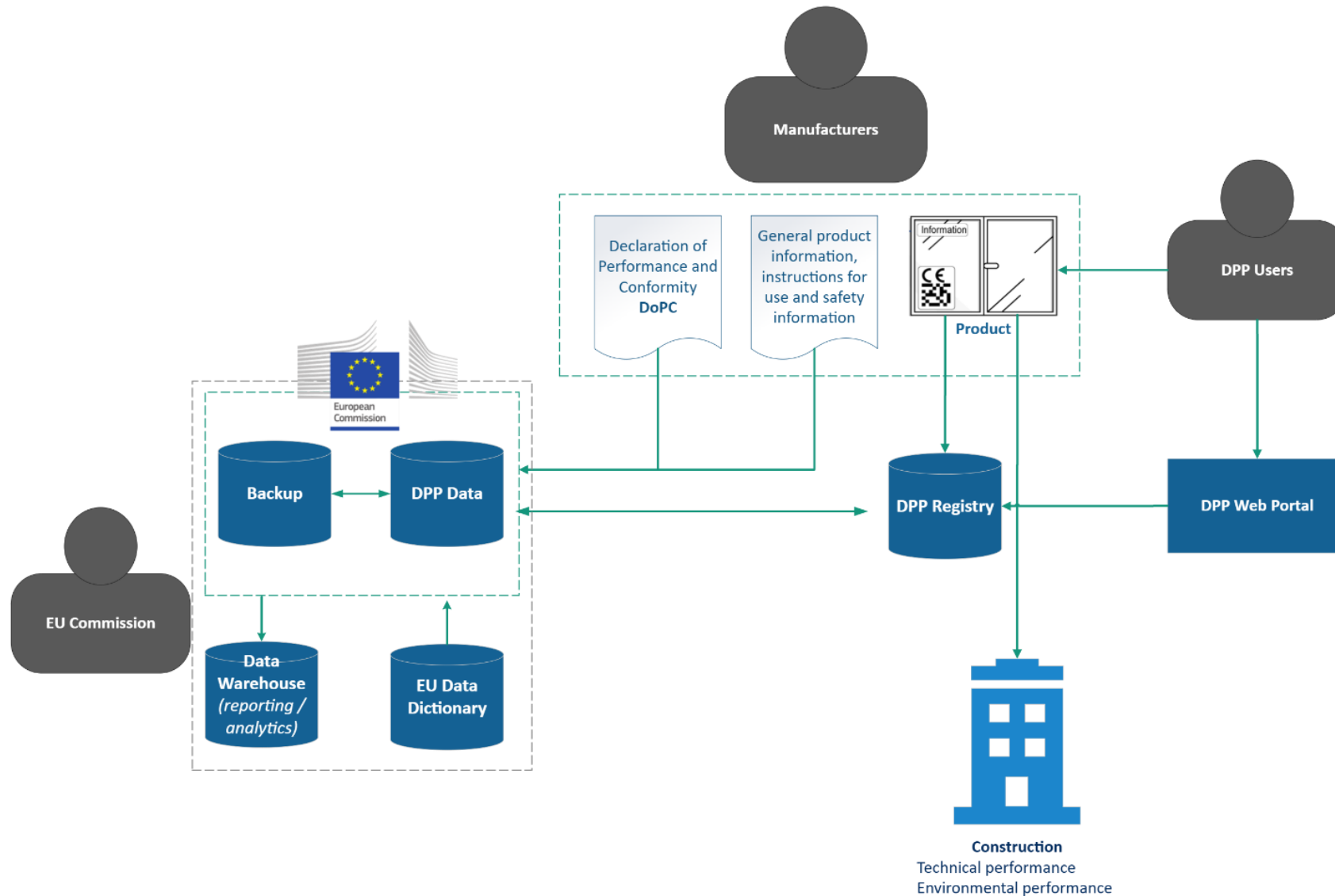


Information

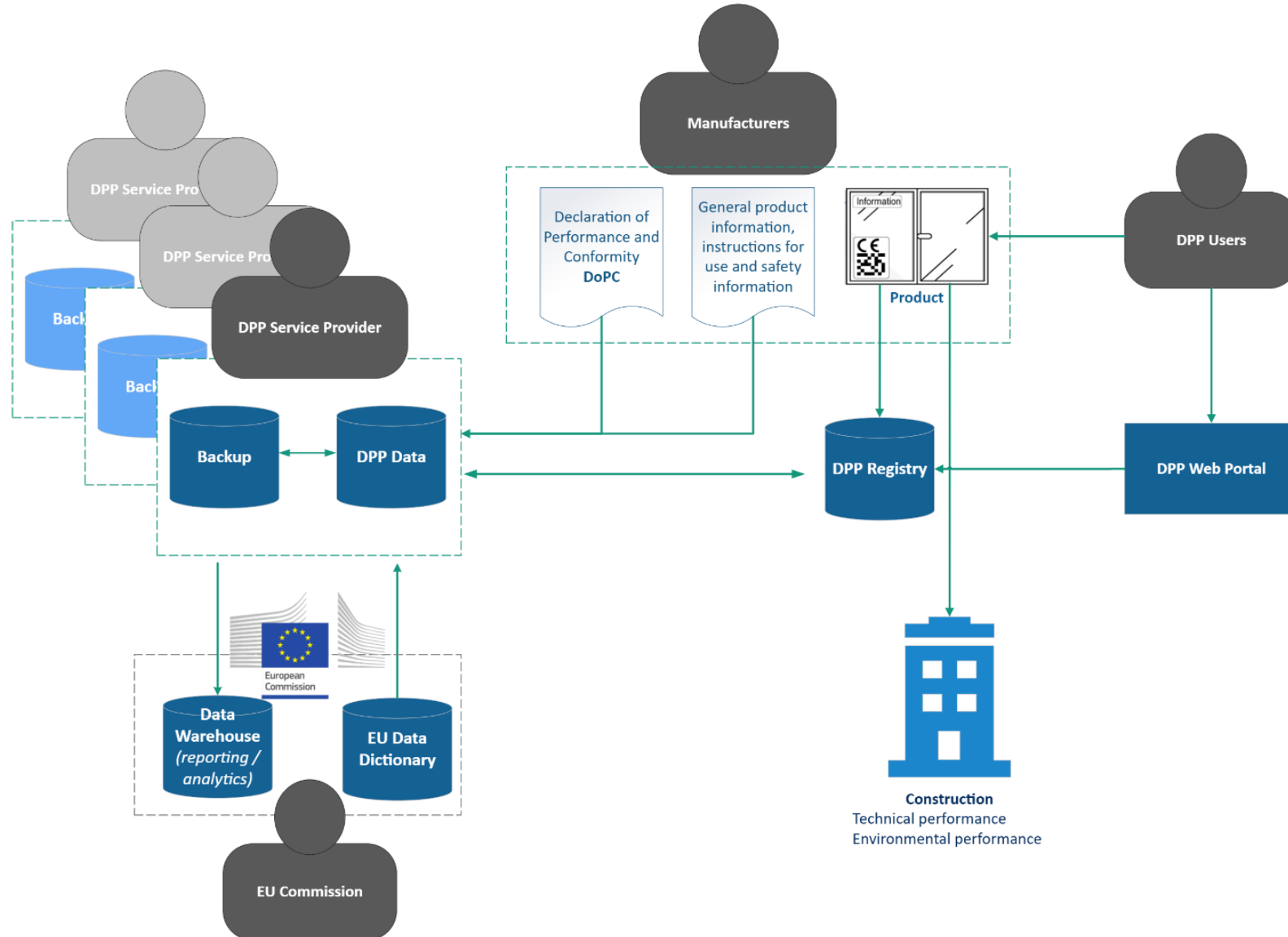
based on open standards	structured
machine-readable	searchable
developed with an interoperable format	transferable through an open interoperable data exchange network without vendor lock-in



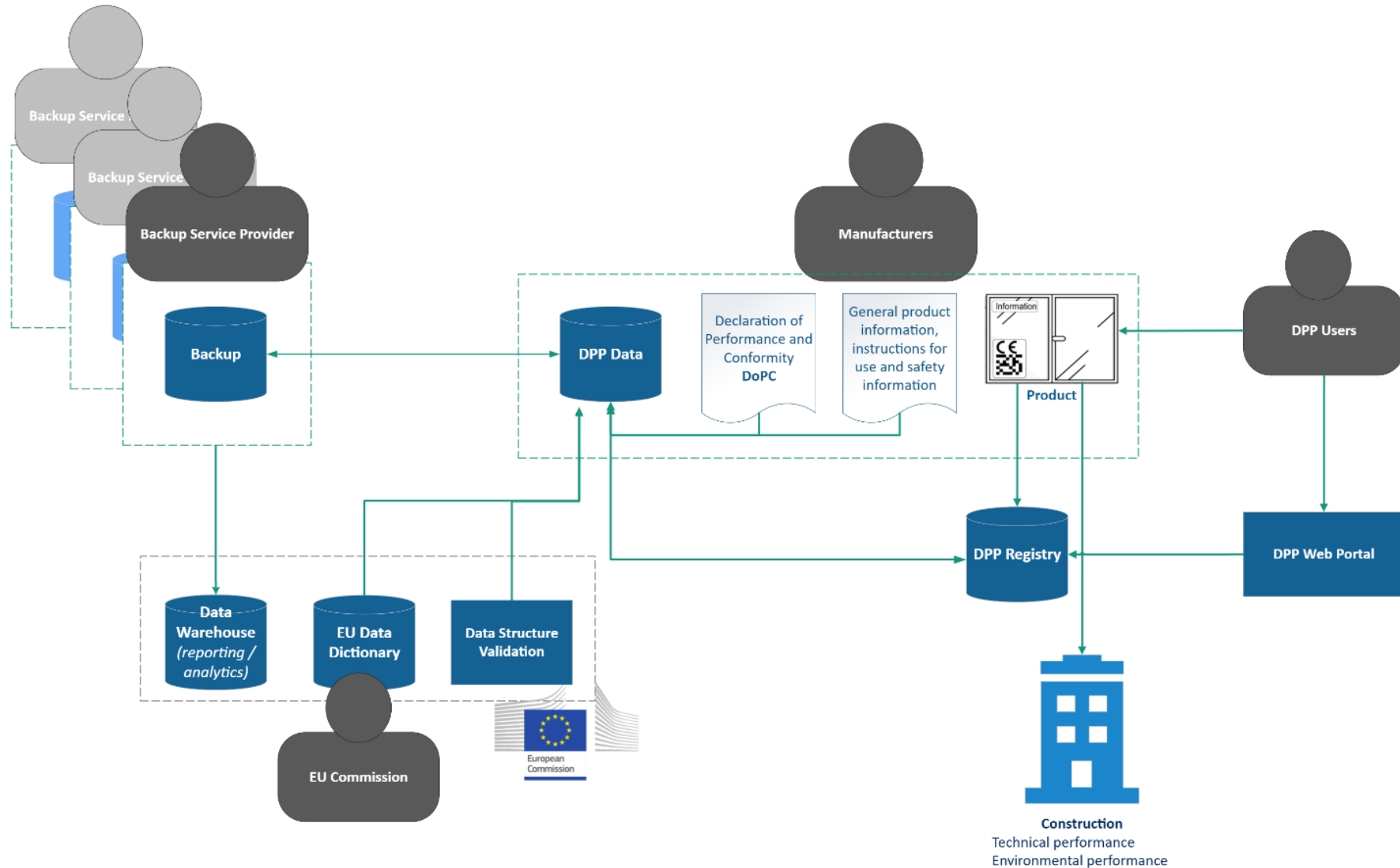
Option 1 centralised system



Option 2 decentralised with service providers



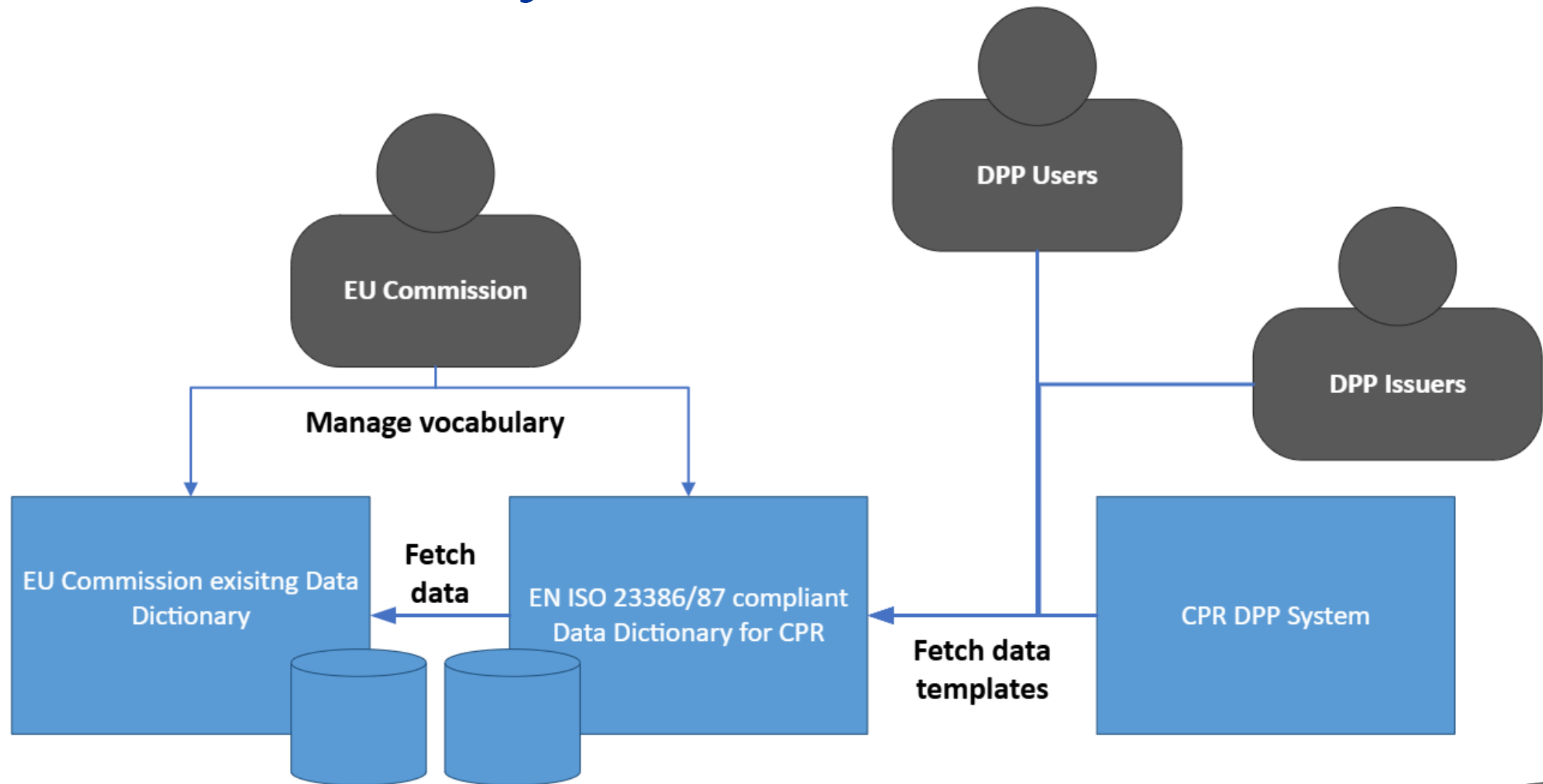
Option 3 decentralised, with manufacturers' systems



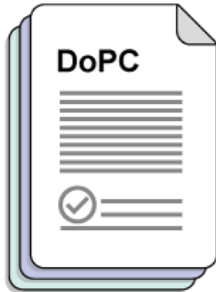
Summary of the assessment

KPI	Option 1	Option 2	Option 3
Scalability	+ + (+)	+ + + + +	+ + + + +
Flexibility / adaptability	+	+ + +	+ + +
Complexity and control	+ + + +	+ + + + +	+ + +
Security	+ +	+ + + +	+ + + +
Data integrity / consistency	+ + + + +	+ + + +	+ + +
Reliability (fault tolerance)	+ + + (+)	+ + + +	+ + +
Place a product on the market	+ + +	+ + + +	+ + + + +
Interoperability	+ + +	+ + + + +	+ +
Usability for manufacturers	+ + (+)	+ + + (+)	+ + + +
Usability for DPP users	+ + + +	+ + + +	+ + + +
Manufacturers' preferences (open survey)	+ + +	+ + +	+ + + +
DPP users' preferences (open survey)	+ + + +	+ + +	+ +
Total	36 +	46 +	42+

Data dictionary



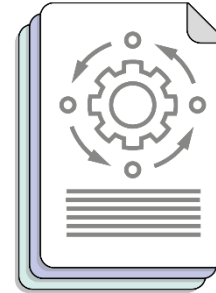
DPP content



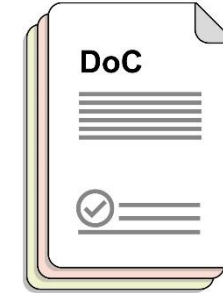
Declaration of performance and conformity



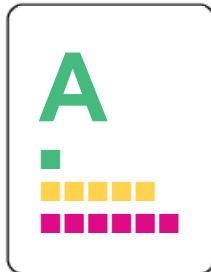
General product information, instructions for use and safety information



Technical documentation



Documentation required under other Union law



Label
(when applicable)

Unique product identifier

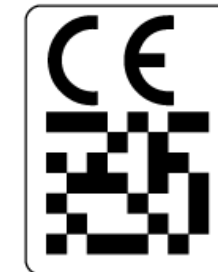
dpp:3234567890126

Unique operator identifier

dpp:VAT:AT U14589505

Unique facility identifier

dpp:ISO3166-2:BE



Data carriers
Key parts



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

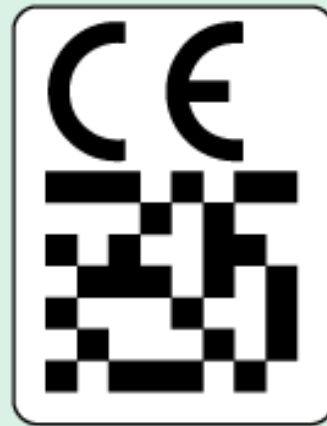
Unique operator identifier

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

15
years

Procedure to
ensure
availability

Back up DPP

Documents

Declaration of performance and conformity

General product information, instructions for use and safety information

Technical documentation

Label

Unique identifiers

Documentation under other Union law

Data carriers of key parts

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

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
website + backup

Data dictionary

Procedure to create
and update data

Harmonised technical specifications and European assessment documents



ECODESIGN FOR SUSTAINABLE PRODUCTS REGULATION (ESPR)

CONSTRUCTION PRODUCTS REGULATION (CPR)

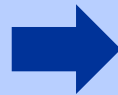
CPR Delegated Act Article 75

Harmonised technical specifications and European assessment documents

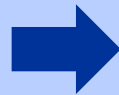
Human and machine-readable format

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



Standards

Content in standards – essential characteristics

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]
...
reference service life [only if included in the standardisation request]	4.[x]	5.[x]		EN15804:2012 +A2:2019 +AC:2021		T	years	=			3+	
climate change - total	4.[x]	5.[x]	...	EN15804:2012 +A2:2019 +AC:2021		M	kg CO ₂ eq.	≤			3+	

Standards

Content in standards – essential characteristics

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
declaration code	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	nominal	unitless	text	null	null	declaration code based on the unique identification code of the product type
version	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	nominal	unitless	text	null	null	version of the DoPC
date	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	date	unitless	null	DD-MM-YYYY	null	date of the DoPC
place of signature	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	null	place of signature



Conclusions

CPR fully integrate digitalisation

Standardisation work will deliver the technical content

Data dictionaries will grant interoperability

DPP will become the “one stop shop” for customers

Harmonisation is required to obtain the benefits of digitalisation





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Slide 5: animated picture, source: https://commons.wikimedia.org/wiki/File:Compressive_strength_test.gif

