




**(Very short) Introduction on CEN/TC 351
Construction products: Assessment of
release of dangerous substances**

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Why?



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CE marking of construction products

- Construction Products Regulation (EU/305/2011)
- To prevent barriers to trade
- 7 Basic Works Requirements
 - BWR 3 = Hygiene, health and the environment
 - > Dangerous substances
- Harmonised product standards for product families
 - Essential characteristic + method
 - > *EXAMPLE* EN 14041 on Floor covering – emission of formaldehyde – EN 16516
- Declaration of performance
- Information accepted all over Europe: CE mark is 'passport' to enter European market

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Scope of CEN/TC 351

Development of:

- **horizontal** standardised assessment methods
- for **harmonised** approaches
- relating to the **release*** to soil, ground water and into indoor air
- of **regulated dangerous substances**
- under the **CPD** (now **CPR**) taking into account
- the **intended conditions of use** of the product
- Mandate M/366 to CEN

* **Content** if legally required or most practical solution

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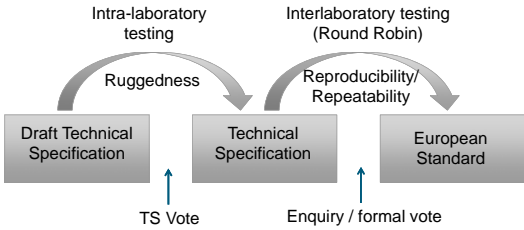
Relevant for

- **Products** and product groups that are mandated under the CPD/CPR → **Product CEN/TCs to adapt Annex ZA of hENs**
- **Producers** that place products on the market in Member States with regulations regarding DS from or in construction products → **to decide on intended use and to declare performance**
- **National or vertical method** for assessment of release of DS → **to be replaced by horizontal harmonised European method**

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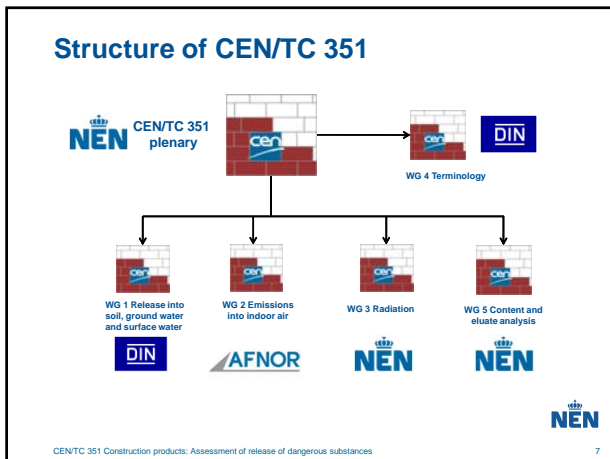
Way of working

- Investigate available methods
- Amend to draft TS



Bron: CEN Guide 13 *Validation of environmental test methods*

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WG 1 Release into soil, ground water and surface water

- 2 leaching tests:
 - Dynamic surface leaching test **CEN/TS 16637-2**
 - Up-flow percolation test **CEN/TS 16637-3**
 - Guidance on selection of test method **CEN/TS 16637-1**
- Results of round robin validation now implemented
- Enquiry on prEN 16637-1/2/3 in 2020
- Determination of ecotoxicity of eluates from specific products: TS Vote on FprCEN/TS **17459** until 30 January 2020

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WG 2 Emissions into indoor air

- EN **16516** Determination of emissions into indoor air

Under development:

- EN **16516/prA1** on ammonia emissions at 50 % RH
- preWI **00351042** Determination of N-nitrosamines in air samples derived by EN 16516

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WG 3 Radiation

- CEN/TS **17216** Determination of activity concentrations
- Round robin validation in 2020
- Enquiry on prEN 17216 in 2021

Under development:

- WI **00351032** Dose assessment
- Compliance test method for CEN/TS 17216 under investigation

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WG 4 Terminology

- EN **16687** Terminology
- New WG convenor
- Review and updating about to start

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WG 5 Content and eluate analysis (1)

Eluate analysis [mg/l]	Content analysis [mg/kg]
	CEN/TS 17196 Digestion by aqua regia
CEN/TS 17195 Analysis of inorganic substances in eluates	CEN/TS 17201 Content of inorganic substances – Methods for analysis of aqua regia digests
	CEN/TS 17197 ICP-OES Analysis of eluates and digests
	CEN/TS 17200 ICP-MS Analysis of eluates and digests
CEN/TS 17332 Analysis of organic substances in eluates	CEN/TS 17331 Content of organic substances – Methods for extraction and analysis

- Results of round robin validation now or to be implemented
- Enquiry on prENs 17195, 17196, 17197, 17200, 17201, 17331, 17332 in 2020/2021

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WG 5 Content and eluate analysis (2)

Under development:

- WI 00351034 PAH and BTEX content
- WI 00351035 Biocide residues
- Results of round robin validation to be implemented
- Enquiry on prENs 00351034 and 00351035 in 2020/2021
- Investigation of available methods for determination of asbestos content
- Investigation of existing regulations on content of 'similar' or 'other' fibres, including methods for determination



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What is NOT up to CEN/TC 351?

- Decide on AVCP level for BWR 3 (hygiene & health)
- Amend product mandates or prepare standardization requests
- Assess which substances are relevant for specific products/product families
- Set requirements to sampling and sample pre-treatment
- Amend regulations
- Decide on classes



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What should product TCs do?

- Be informed: Establish liaison to CEN/TC 351 and appoint liaison officer
- Assess which substances are relevant for their products and product families
- Get a standardization request to include BWR 3 in hEN
- Replace vertical method by horizontal CEN/TC 351 method
- Set requirements to sampling and sample pre-treatment
- Decide how to report test values
 - For introduction of new class, delegated act required!



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Tools: Technical Reports

1. CEN/TR 15855 **Barriers to trade**
2. CEN/TR 15858 **Without testing and Without further testing**
3. CEN/TR 16045 **Analysis of content**
4. CEN/TR 16098 **Concept of horizontal testing**
5. CEN/TR 16220 **Complement to sampling**
6. CEN/TR 16410 **Barriers to use – Extension to CEN/TR 15855**
7. CEN/TR 16496 **Use of harmonised horizontal assessment methods**
8. CEN/TR 16797 **Guidance on the statistical assessment of declared values**
 - Part 1: Principles and rules of application
 - Part 2: Technical and statistical background
9. CEN/TR 17105 **Guidance on the use of ecotoxicity tests applied to construction products**
10. CEN/TR 17113 **Radiation from construction products - Dose assessment of emitted gamma radiation**
11. CEN/TR 17304 **Determination of emissions into indoor air of ammonia from cellulose insulation at 90 % RH**



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Curious on construction products and dangerous substances?

- EC funding, including
- Budget to make presentations to product TCs, European organisations, etc.
- On leaching, emission, radiation, content, analysis
- Contact Annemieke and we'll find the best expert and occasion
- Invite the CEN/TC 351 plenary meeting?



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Did you count the abbreviations?

Some of the most important are

- AVCP Attestation and Verification of Constancy of Performance
- BWR 3 Hygiene, health and the environment
- BWR Basic Works Requirement
- CPR Construction Products Regulation
- DoP Declaration of performance
- EN European standard
- hEN Harmonised European (product) standard
- TC Technical Committee
- TR Technical Report
- TS Technical Specification
- WI Work item



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More information

CEN/TC 351 secretariat:

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- www.cen351.org
- www.cen.eu
- European database on **substances in construction products**: <http://ec.europa.eu/growth/tools-databases/cp-ds/>



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