Reuse and Recycle

Considering the soil below constructions

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laying down harmonised conditions for the marketing of construction products and repealing

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION.

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 114 thereof,

Having regard to the proposal from the Commission,

Member States have introduced provisions, including requirements, relating not only to safety of buildings and other construction works but also to health, durability, energy economy, protection of the environment, economic aspects, and other important aspects in the public interest. Laws, regulations, administrative measures or case-law, established either at Union level or at Member State level, concerning construction works not have an impact on the requirements of construction products. Since their effect on the functioning of the internal market is likely to be very similar, it is appropriate to consider such laws, regulations, administrative measures or case-law as ‘provisions’ for the purposes...
Construction Products Regulation

BWR3: Construction products must … throughout their life cycle … not be a threat to … health … environmental quality, climate … as a result of … the release of dangerous substances into ground water, marine waters, surface waters or soil

• National criteria
• CEN test methods
  – European exposure models
    • Indoor air
    • Gamma radiation
• European declaration of performance
Harmonise models for release to soil and groundwater?
Why harmonise?

- Exchange of knowledge
- Better quality
- Adjusted to test methods
- Easier for new stakeholders
- Easier communication
- Less work & cost
Limit values for release to soil and groundwater

- Review of source model: constructions
- Review of transport model: soil beneath

![Graph showing limit values for various elements including As, Ba, Cd, Co, Cr, Cu, Hg, Mo, Ni, Pb, Sb, Se, Sn, V, Zn, Br, Cl, F, Be, Dk, De, Fr, Nl, and Se. The graph includes symbols for WAC and different concentrations ranging from 0.001 to 1].
Limit values for release to soil and groundwater

- Review of source model: constructions
- Review of transport model: soil beneath

- Similar model structure
- Different details
- Variation within countries > between countries
Harmonise constructions

Harmonise source models
Several constructions in common for Europe
Why harmonise constructions?

• Similar constructions in reality
• Variation within countries > between countries
• Exchange of knowledge
• Better quality
• Adjusted to test methods
• Easier for new stakeholders
• Easier communication
• Less work & cost
Differences in source term between & within countries

- Infiltration
- Thickness
- Surface area
- Permeability
- Description of release mechanism
Condensed to 6 constructions

Road
Parking lot
Landscaping
Sound barrier
Isolating road
Backfill

Details of generic constructions in our paper in the proceedings
A way forward

1. Agree on constructions / source models
   1. For risk
   2. For Environmental Product Declarations

2. Exchange transport model experiences
   1. Differ for a reason
   2. Show your reason!

3. National adjustments
Thank you! Questions?

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