



CAN FIRE PRODUCTS BE RE-USED?

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THE ACTUAL SITUATION ON EVALUATION



Environmental benefit

- Buidling sector = 46 Mt waste per year
- Avoid usage of natural resources
- Limit the logistic
- The Carbon impact of a reuse material is considered as 0 in the LCA calculation

Economical benefit

- Opportunity for new local activities
- removal from waste status = TGAP + waste treatment economy

Conformity with legislation

France example: PEMD diagnostic mandatory for demolition project



CAN ALL FIRE PRODUCTS BE RE-USED ?



YES: Doorsets/windows Suspended ceiling Floorings (at elast some of them) Smoke and heat exhaust systems Wood panels MAYBE: Insulation Plasterboard

NO:

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Fire protective products: rendering, intumescent paints

Dismantling will destroy the product

What do we expect to do with the product ?



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WHAT ABOUT FIRE PERFORMANCE ?

- To evaluate the fire performances of a product for re-use:
 - Detailed description of the products
 - Historical data: test and classification reports
 - ✓ Standards applied : EN, National, ect.
 - Evolution of the standard since : e.g. standard withdrawn, revised with impact on performances etc.
 - ✓ Data on durability available ?
- Assessment: Can we predict the performance of the « used product »?

| Impact of evolution of the standard on the performances | Impact of gap analysis Done anyway when incoporating a new standard |
|---|--|
| Impact of ageing related to its use | Need to have data on durability Need to know the history of the installed product |
| Assess the performance of the disassembled product | Full documentation assessment Assessment supported by testing |



DO WE NEED NEW FIRE TEST METHODS ?



WHAT ELSE?

- Is there a real appetite for re-use products ?
- Is there a re-use network ?
- Is there requirements in some Member state :
 - % of re-used products in a new built ?
 - Specific requirments in termes of performance?
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- How can we/ Do we need to list products than can be potentialy re-used?
- Is there a need for standardisation ?
 - Way to assess products for re-use
 - Addapted test methods
 - New test methods
 - Durability evaluation to be included in the inital evaluation:
 - ✓ Scenario to consider
 - ✓ Specific classification
 - ✓

* For building with floor area above 1000 m²

**PEMD= product - equipement- material and waste

Présentation





THANK YOU

Efectis