



EU textiles
Textile related legislations and testing

Pros Van Hoeyland Bolton - October 2013



Where? Belgium, UK, Germany ...?

EN 469



Uniform standards and test methods Europe nearby or ... still far away?



Textiles - can someone help me?







Uniform standards and test methods

Actual situation

Areas to improve

Perfect!!

Future??



Actual situation for most interior textiles

diversity in

- Test methods/standards important parameters?
- Specification standards based on different parameters
- Requirements



Problems?

- Technical
 - FR finishes necessary or not depends on how severe requirements are
 - composition of the product?
 - ageing requirement (FR finish influenced)?
 - Environment (toxic FR's, persistant FR's ...)
- Economical
 - Barriers to trade



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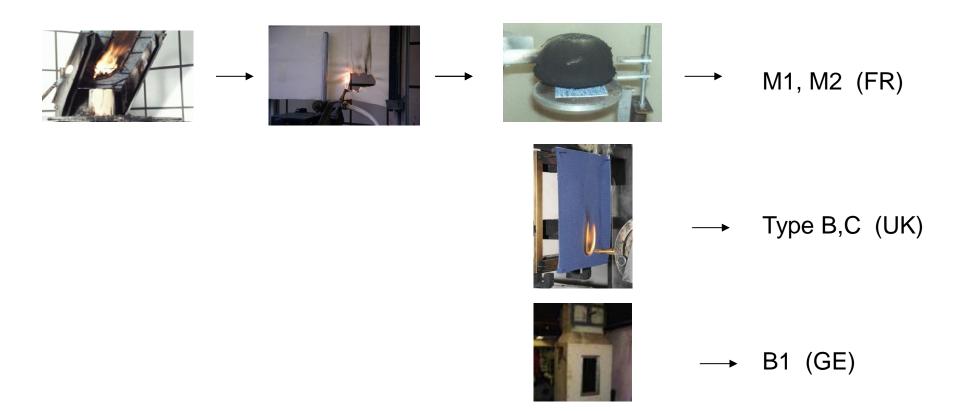


Actual situation for curtains

EN1101 ISO6941 EN13772UNI8456 ISO6941 NFP92-504 BS5867 DIN4102 ISO6940NFP92-503 FN1102



Completely different methods for the same end use



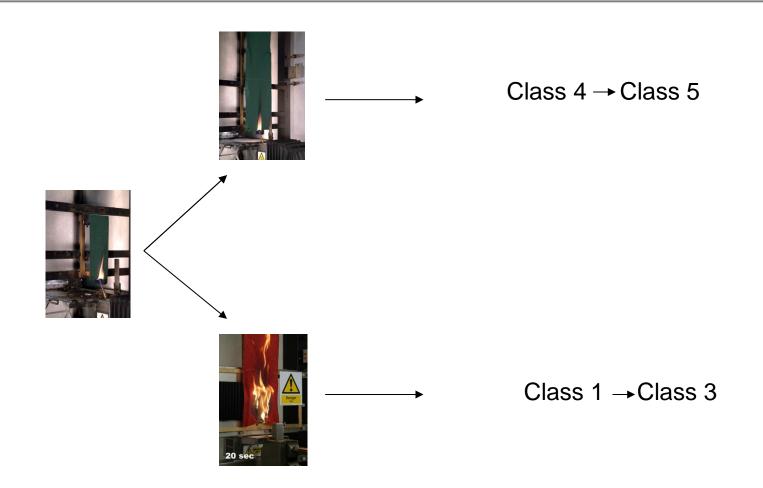


Future for curtains?

EN1101 EN13772



Future for curtains - European system?





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Actual situation for furniture

BS5852part1DIN4102 NFP92-503 EN1021-2 1 IN19175



Completely different methods for the same end use











→ M class - FR



square burner - FR



Future for furniture?

EN1021-1 EN1021-2 EN1021-3



Future for furniture - European system?



cigarette test (RIP cigarettes??)



match flame test

to be developed?

large(r) scale test



LOI – the solution?

- This test, in isolation
 - is insufficient to evaluate the burning behaviour
 - should not be used for regulations relating to safety control and consumer protection.



LOI – the solution?

- The results are dependent upon
 - the specimen size
 - shape
 - orientation



LOI – textile materials







other areas to improve

mattresses

bedding

clothing textiles

• . . .



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case study for a 'perfect' situation Protective clothing

PPE Directive 89/686/EEC

Personal protective equipment



case study for a 'perfect' situation Protective clothing for fire fighters

- EN 469
 - IgnitabilityISO EN 15025



Convective heat ISO 9151



Radiant heat ISO 6942





case study for a 'perfect' situation interiors for coaches

ECE Regulation No. 118

".. burning behaviour ... of materials used in the construction of certain categories of motor vehicles"



case study for a 'perfect' situation interiors for coaches

Annex 6 - horizontal burning rate



Annex 7 - melting behaviour



Annex 8 - vertical burning rate





case study for a 'perfect' situation floor coverings

Building regulations EN 13501-1

"Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests"



case study for a 'perfect' situation floor coverings

ignitability



Euroclasses

radiant panel





Uniform standards and test methods

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promote and use these methods!!

- European methods exist for
 - curtains
 - furniture (cigarette and match)
 - mattresses (cigarette and match)
 - bedding (cigarette and match)
 - clothing textiles
 - ...



develop new EN test methods where needed

- furniture (larger ignition source EN 1021-3)
- mattresses (larger ignition source EN 597-3)
- · ...



remove actual barriers

in the meantime

• Mutual acceptance of results/classifications based on national standards?

??? Previous experience with building materials???



pre-treatment / ageing

- agree on e.g.
 - washing
 - dry cleaning
 - ageing procedures
 - ...



Uniform standards and test methods

Actual situation

Areas to improve

Perfect!!

Future: Promote EN Standards!!



Uniform standards and test methods

- Actual situation for textiles
 - Limited number of EN standards
 - Almost no harmonised standards
 - No European directive / regulation
 - National standards are used in stead of EN's

!! Building standards are used for testing textiles!!



Europe is a large building site with seventeen cranes

Christine Lagarde (IMF - International Monetary Fund).



Future??











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