



Passive Fire Protection in Europe

A brief overview of some European issues

Niall Rowan – EAPFP Technical Officer

You all know what this is



But what about these?



PFP Works - 1



PFP works – 2



PFP works – 2



PFP works – 3



PFP works – 4





Passive Fire Protection in Europe

- Single European Market
- Free movement of goods across EU Countries
- Member States still responsible for own Building regulations
- Construction Products Regulation
- Need for a ‘common technical language’



‘Common language for construction products’ - 1

- European product standards (hEN) – prepared in CEN
- European Technical Assessments – (ETAs) – prepared by an Approval Body against a European Assessment Document (EAD) (only where no hEN exists)



European product standards (hEN)

- Is termed a 'harmonised' EN (hEN)
- Written in response to a mandate from EU Commission
- Published in the EU Official Journal (OJEU)
- A list of all harmonised ENs under the CPR can be found here: https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/construction-products_en



GROWTH

Internal Market, Industry, Entrepreneurship and SMEs

European Commission > Growth > The European Single Market > European Standards > Harmonised Standards > Construction products (CPD/CPR)







Search


Single Market and Standards
Industry
Entrepreneurship and SMEs
Access to finance for SMEs

European Standards

Standardisation Policy ▼

Harmonised Standards ▲

Formal objections

Notification System ▼

Standardisation requests

Key Players

Standardisation and SMEs

Vademecum on European standardisation

Construction products (CPD/CPR)

Regulation (EU) No 305/2011

Directive 89/106/EEC (CPD)

Short name:	Construction products (CPD/CPR)
Base:	<ul style="list-style-type: none"> Council Directive 89/106/EEC of 21 December 1988 approximation of laws, regulations and administrative Member States relating to construction products OJ No L 40 of 11 February 1989 Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products

Examples:

- EN 13162 Thermal insulation products – mineral wool
- EN 13964 Suspended ceilings
- EN 14041 Resilient, textile & laminate floor coverings
- EN 16034 Pedestrian doorsets
- EN 15650 Fire Dampers
- EN 14509 Self supporting double skin metal faced insulating panels
- EN 12101-8 Smoke control dampers



‘Common language for construction products’ - 2

- European product standards (hEN) – prepared in CEN
- European Technical Assessments – (ETAs) – prepared by an Approval Body against a European Assessment Document (EAD) (only where no hEN exists)



Common language for construction products

- An EAD (European Assessment Document) is a document drafted by and for the EOTA Technical Approval Bodies as a result of a mandate from the European Commission

<http://www.eota.be/>

EADs

The list below provides for titles of EADs adopted in EOTA and for which first ETAs have been issued. EADs published in the Official Journal of the European Union ([OJEU](#)) retain the reference of the time citation. Once cited in the OJEU final EADs will be provided for download and published on [NANDO](#). A new edition of an EAD supersedes the previous one. All EADs cited remain available on this webpage.

EOTA is coding the EAD number "ECNNNN-ED-PGSG" according to the following principles:

- product area according to Annex IV of the CPR (**ECNNNN-ED-PGSG**)
- subsequent number in that product area (**ECNNNN-ED-PGSG**)
- edition (**ECNNNN-ED-PGSG**)
- EOTA classification related to intended use (**ECNNNN-ED-PGSG**)

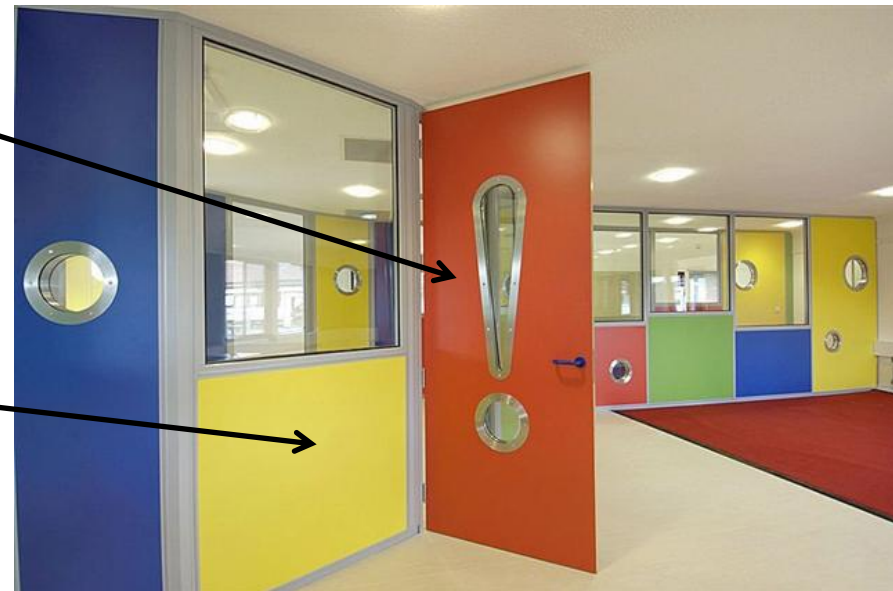


Examples – **MANY PASSIVE FIRE PROTECTION PRODUCTS**

- ETAG 003 Internal Partition Kits
- ETAG 004 External Thermal Insulation Composite Systems with Rendering
- ETAG 018 Fire protective products
 - Part 2: Reactive coatings for structural steelwork
 - Part 3: Renderings and rendering coatings
 - Part 4: Fire protective board, slab and mat
- ETAG 026 Fire stopping and sealing products
 - Part 2: Penetration seals & Part 3: Linear joint seals

Confusing dual system for approval

1. European product standards (hEN) – door
2. European Assessment Document – (EAD/ETAG) – partition
3. Don't blame me, I didn't make the rules...



What is in hENs and EADs?

- Performance requirements for the product in support of the relevant **Basic Works Requirements** of CPR:
 - Mechanical resistance and stability
 - **Safety in case of fire**
 - Hygiene, health and environment
 - Safety in use
 - Protection against noise
 - Energy economy and heat retention
 - Environmental Product Declarations
 - Sustainable use of natural resources (new)



CEN TC127

CEN/TC 127 Scope

1) To develop standards utilizing relevant existing work where available e.g. in ISO, IEC, CENELEC, CEC and EFTA assessing the fire behaviour of building products, components and elements of construction, 2) To develop standards for classification of products, components and elements of construction, appropriate to the fire risks related to their application, 3) To develop standards for assessing fire hazard and for providing fire safety in buildings.

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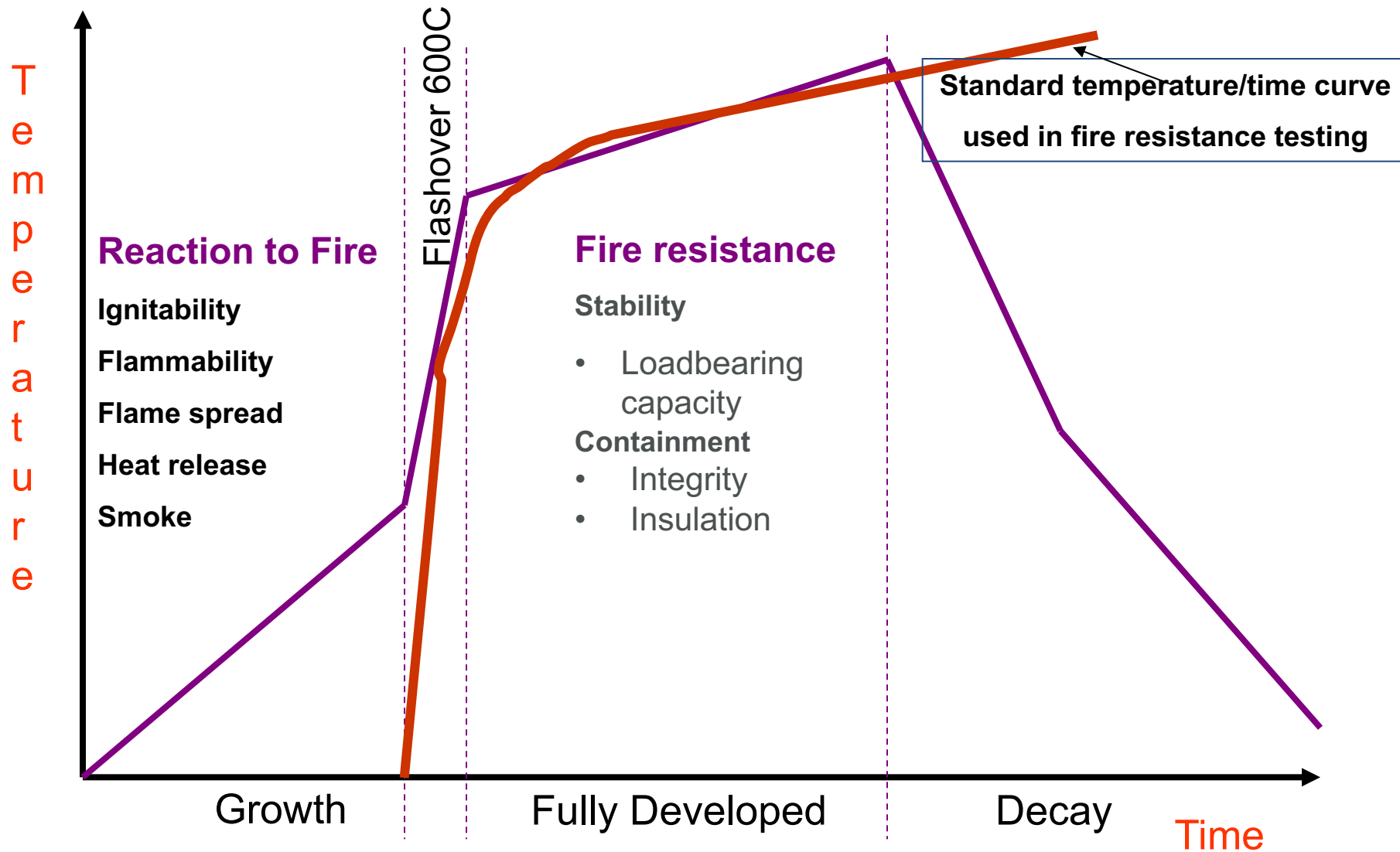
Mr David Hyde

CEN TC127 – Structure

CEN/TC 127 Subcommittees and Working Groups

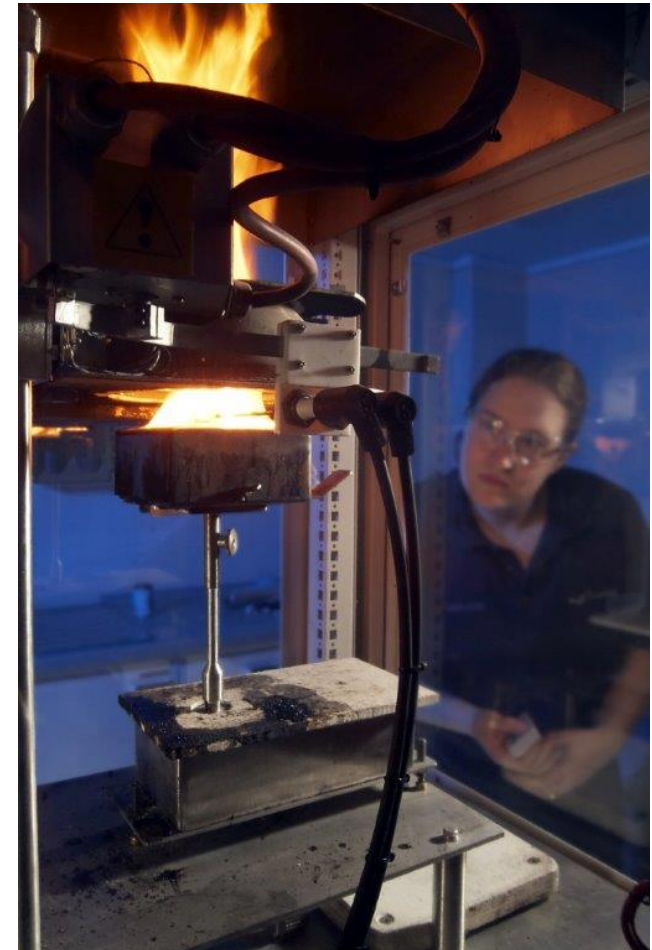
Working group	Title
CEN/TC 127/WG 1	Structural and separating elements
CEN/TC 127/WG 2	Services
CEN/TC 127/WG 3	Fire Doors
CEN/TC 127/WG 4	Reaction to fire
CEN/TC 127/WG 5	Roofs
CEN/TC 127/WG 7	Classification
CEN/TC 127/WG 8	Fire Safety Engineering
CEN/TC 127/WG 9	Fire protective products

Stages of a fire v. fire tests



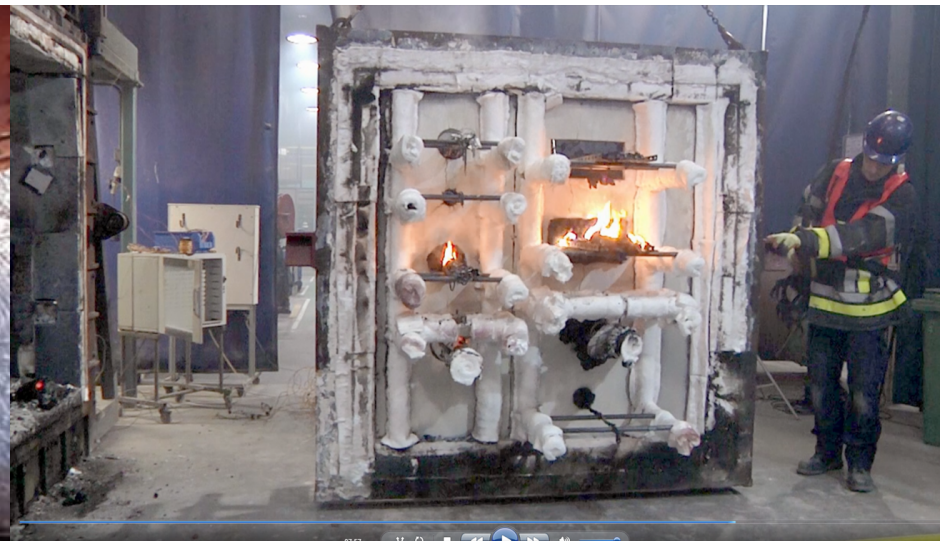
Reaction to fire testing

- **Pre-flashover scenario**
 - Less severe exposure
- Test of materials and products e.g.
 - Wall & ceiling linings,
 - Floorings
 - Component materials
 - Furniture
- Small scale tests



Fire resistance testing

- Post-flashover scenario
 - Severe exposure
- Test of structures e.g.
 - Loadbearing (beams columns)
 - Separating (Walls, floors, doors, services)
- Large scale tests



EGOLF





What is EGOLF?

- Founded in 1988
- Provides a focus for fire issues in Europe
- Open to all - independent, official, nationally recognised organisations that **test**, **inspect** or **certificate** materials, components and products in support of legislation
- Produces common agreements on interpretations of fire tests to ensure harmonisation of results across Europe
- Agreements fed back onto CEN TC127 to improve the standards.



What is EAPFP?



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Popular Downloads

- Application of Intumescent Coatings
- Dublin biedt warm welkom aan EAPFP
- Fire Protection of Steelwork
- Passiv Brandsikring
- Fire Stopping & Penetration Seals
- Best Practice Guidance for Passive Fire Protection in Buildings

Association Européenne pour la Protection Passive contre l'Incendie
Europäischer Verband für Passiven Brandschutz



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EAPFP Activities - 1

- Provides a strong focus for industry to debate and provide a common Europe wide position on matters relating to Passive Fire Protection
- Exists to represent PFP industry and balance influence from Test laboratories, certification bodies, approval bodies and Regulators
- Has strong representation on CEN TC127 etc.
- Meets twice a year – just met in Lisbon last 2 days

EAPFP Activities - 2

- Is a stakeholder on EU Commission research project into considering regulating fire smoke toxicity of construction products using the CPR



Study to evaluate the need to regulate within the Framework of Regulation (EU) 305/2011 on the toxicity of smoke produced by construction products in fires
Draft Final Report

EAPFP Activities - 3

- Developing a position in consultation with EU Commission to promote European Standards (ENs) worldwide and to counter promotion of American standards.





EAPFP Activities - 4

- Main driver behind Standardisation request for majority of Passive Fire Protection Products currently covered by EADs. **This means mandatory CE marking for Passive Fire Protection Products**



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EAPFP publications



**EUROPEAN INDUSTRY BEST PRACTICE GUIDE ON THE APPLICATION OF
INTUMESCENT COATINGS TO CONSTRUCTIONAL STEEL**



Summary

- Passive Fire Protection – what it is – shown that it works
- CPR and common technical language – hENs & EADS
- Fire testing
 - Reaction to Fire – small scale for materials – pre-flashover
 - Fire Resistance to fire – large scale for structures – post flashover
- Other stakeholders
 - CEN TC127
 - EGOLF
- Industry Trade Associations (EAPFP)



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