Zwaluw FireProtect

Products for Passive Fire Protection are the primary means, included in the construction of a building, limiting flames, heat and smoke to spread and significantly increase the fire safety.
By the right application of these products the fundamental and legal requirements of creating fire compartments are met. These fire compartments contribute to the structural stability of a building and offer time to safely leave or clear a building. Passive Fire Protection prevents the fire, flames and smoke to leap over or through to the adjacent compartment.

Passive Fire Protection:

- ***Saves lives***
- ***Limits material damage***
- ***Minimalizes business losses***
- ***Protects the construction of a building, preserving accessibility after the fire***

The creation of fire compartments in a building is an essential and mandatory part of Passive Fire Protection. The basic idea is to limit and delay the expansion of fire to one compartment. This allows present persons to safely leave the building, and offers firefighters time to master and extinguish the fire.

Because the importance of Passive Fire Protection is significantly increasing in renovating or building new constructions, Den Braven decided to heavily invest in product development and certifications for this market segment.

With a huge experience concerning the sealing of linear joints (EN 1366-4), we proudly present, our completed assortment which also offers solutions for service penetrations (EN 1366-3).

Reaction to fire and fire resistance

Reaction to fire is a completely different matter than fire resistance. Both classifications are strictly regulated in National and International norms.

Reaction to fire indicates the degree of contribution of a material to the arise and expansion of a fire. In other words: How inflammable / flammable is a certain material. A well-known norm for reaction to fire is the German DIN4102 part 1, with classifications A1, A2, B1, B2 and B3.

Fire Resistance is the time expressed in minutes which a compartment is able to fulfil its task; preventing the fire to expand out of the compartment. This fire resistance of (combined) products is tested and measured with standardized and frequently occurring situations.

This means in fact, a product can have the highest classification for reaction to fire but does not offer any guarantee for a higher fire resistance.

On our website and in our brochure you can find all essential information about our product portfolio and accompanying certification. The certification offers a transparent indication of where the products can and cannot be applied to obtain a safe seal compliant with the required fire resistance. Besides we have clear application guidelines available.

Assortment for fire retardant sealing of linear joints (EN 1366-4)

A fire compartment exists of fire resistant walls, ceilings and floors. A compartment is completed by a solid and fire retardant sealing of movement and connection joints between these building components.

Products and systems tested according EN1366-4 are applied to fully seal and close fire compartments where walls, floors and ceilings meet. Most of these products to seal linear joints are developed to adopt movements between the building components.

Our solutions for sealing linear joints:
- Zwaluw FireProtect® FP Acrylic Sealant
- Zwaluw FireProtect® FP Silicone Sealant
- Zwaluw FireProtect® FP Hybrid Sealant
- Zwaluw FireProtect® FP PU Foam

The Fire resistance of our solutions to seal linear joints are tested by certified labs (notified bodies) conform National and International norms. The results of these tests are summarized in clear test reports and classification reports.

These specifically developed products can be applied separately. We have also tested combinations of products offering a solution for every occurring situation.

Assortment for fire retardant sealing of service penetrations (EN 1366-3)

Compartment walls and floors have recesses containing service installations as tubes and electrics. A Fire compartment is only completed and functional when these recesses are securely sealed with the right products.

Our solutions for sealing service penetrations
- Zwaluw FireProtect® FP Sealing System
  - Zwaluw FireProtect® FP Intumescent Coating
  - Zwaluw FireProtect® FP Intumescent Acrylic
  - Zwaluw FireProtect® FP Fire Board
- Zwaluw FireProtect® FP Pipe Wrap
- Zwaluw FireProtect® FP Pipe Collar
- Zwaluw FireProtect® FP Pipe Collar Brackets
- Zwaluw FireProtect® FP Wall Outlet
- Zwaluw FireProtect® FP Sealing Sticker

The Fire resistance of our solutions to seal recesses are tested by certified labs (notified bodies) conform National and International norms. The results of these tests are summarized in clear test reports and classification reports.

Tabel 1

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