



*Products,
logistics &*
Hoefnagels Fire Safety





*Growth,
risks &*
Hoefnagels Fire Safety

Year on year, the number of distribution centres in the logistics landscape continues to grow. The sector's increase in scale is mirrored by an equivalent increase in risk. The value represented by the huge volume of goods stored in each of the mega-sized warehouses often amounts to many tens of millions of euros, if not more. The number of people working in such centres is also huge.

The logistics sector is one of the focus areas for Hoefnagels Fire Safety. The full spectrum of fire safety is in good hands with Hoefnagels thanks to its attention to the three pillars of advice, products and services.

Advice

It is unfortunately the case that legislation and regulations on fire safety are lagging behind the reality of these rapid developments. Our consultants have many years of experience that bridge the vacuum between deficient regulations and logistic necessity. It is not always apparent what is permitted, what is possible and what is economic from a business point of view. In consultation with the competent authority, we will be happy to help you find a practical solution that provides maximum safety of people, goods, buildings and the environment. Even if business continuity or the insurers demand higher protection than is legally required.

Products

Our portfolio encompasses a complete range of fire doors and other products and services for fire safety in distribution centres. We have fire-resistant rolling doors that deliver 240 minutes protection against fire spread and wicket doors for use in escape routes for warehouse staff. Because fire also affects other elements of fire barriers, Hoefnagels also takes responsibility in project form for apertures and wall structures, for example. You thus have a single point of contact for everything connected with fire safety.

Services

Fire-resistant products may also wear out or become damaged, e.g. by being driven into by delivery vans, forklift trucks and reach trucks. Not only do regular inspections make sense but they are often insisted upon by insurers. Our inspection certificates are recognised by all insurance companies. Professional repair and maintenance work guarantees faultless operation if the premises are unfortunate enough to be affected by fire.



Development of XXL Distribution Centres

There is no official record of the precise number of distribution centres, but the Dutch Association of Real Estate Brokers (NVM) estimates that the total floor area of distribution centres has grown in ten years by 50% to some 40 million m². What is also striking is the size of the distribution centres. In 2013 two XXL distribution centres (> 40,000 m²) went in operation. There are now some 75 centres of this size. They usually have a minimum height of 11 metres. Similar developments are taking place throughout Europe.





*Power,
brains &*

Hoefnagels Fire Safety

Hoefnagels Fire Safety's product portfolio includes four products that are especially useful in distribution centres, and in large-scale storage buildings and production plants.

Firelock Radiation Conveyor Shutter

The Firelock Radiation Conveyor Shutter is a tried-and-tested concept that has been fully tailored to fire safety around transport conveyors. It has recently undergone redevelopment and has been approved in accordance with the stringent European requirements for CE marking.



- › 30, 60, 90 or 120 minutes of fire resistance
- › EW classification (standard EN 1634-1)
- › Designed for high frequency of use
- › Physical fire separation
- › Suitable for distribution centres, industry, airports, etc.
- › Gravity Fail Safe - GFS

Firescreen Temperature

Firescreen Temperature fire-resistant roller screens are flame-resistant, limit heat radiation, and provide thermal insulation. This makes them suitable for such uses as creating an evacuation route or an attack route for the fire brigade.



Firelock Radiation Twin

A few decades ago, the current scale of many distribution centres would have seemed unnecessary and unrealistic. It is unclear as to whether there is an absolute maximum for the size of such halls. Halls that form separate fire compartments can also be connected in a fire-safe manner in several construction phases. Fitting inter-hall passageways with the Firelock Radiation Twin will provide protection against fire spread and fire penetration for 240 minutes.



Smartbox control unit

The Smartbox is the brain behind our safety products. It is a Hoefnagels' in-house developed electronic assembly that ensures that protection can be fully tailored to individual preferences and specific circumstances. The smart control system in the Smartbox combines signals from sensors and the fire alarm panel with data concerning the movement of goods or products on a transport conveyor.



➤ **30, 60, 90 or 120 minutes of fire resistance**

➤ **EI classification (EN 1634-1)**

➤ **Closes via connectivity with control box "Smartbox Firescreen Control"**

➤ **Lightweight**

➤ **Electrical Fail Safe (EFS)**

➤ **240 minutes of fire resistance**

➤ **EW classification (standard EN 1634-1)**

➤ **Physical fire separation**

➤ **Suitable for distribution centres, airports, retail sector and industry, among others**

➤ **Easy to use and maintain**

➤ **Communication with transport system PLC**

➤ **Remote control**

➤ **Open and shut signalling**

➤ **Physical fire separation**

➤ **Error notifications**



Standard adaptation allows for larger fire compartments

The NEN 6060:2015 (Dutch) standard recently superseded the calculation and decision model 'Controllability of Fire'. The standard describes four sets of measures for restricting the spread of fire and also for an equivalent specification for the permissible walking distance to the (sub) fire compartment's exit.

The maximum permitted size of a fire compartment is still calculation-dependent but for new industrial buildings a higher fire load is now included. The new standard also features changes to the requirements for connections between compartments.



Hazardous Substances

The Dutch Hazardous Substances Publication Series (PGS) guidelines describe the requirements that must be met by areas used for storing hazardous substances. This type of storage area or fire compartment



*Norms,
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must be at least EI₁₆₀ certified and thus provide 60 minutes resistance to fire penetration and fire spread, both from the inside to the outside and vice versa. In the event of fire, the doors of the storage room or fire compartment must close automatically.



**Distribution centre Bol.com
Firescreen Temperature**

The online shopping platform Bol.com constructed a new distribution centre in Waalwijk, Netherlands in two phases. Conveyors constitute a key component of the centre’s internal logistics. These are a potential hazard since openings in walls allow fire to spread easily from one fire compartment to another. Construction company Van Wijnen engaged Hoefnagels Fire Safety when the conveyors had already been fitted in the first hall (50,000 m²). We recommended and installed Firescreen Temperature fire-resistant roller screens, with protection value EI₆₀. Because the installation space requirements for these are quite modest, they fit into the spaces between the conveyor belts.

Hoefnagels Fire Safety has also been responsible for the maintenance of Bol.com’s fire doors since 2021. In supplement to the advice and fire protection products supplied earlier, we also provide services as the third pillar for optimal fire protection.



Hoefnagels Fire Safety is a unique total supplier in the field of fire safety. A team of experts advises on the optimum safety solution and designs, manufactures, installs and maintains a full spectrum of fire safety products.

Hoefnagels Fire Safety is a family business whose history goes back to 1884. In 2009, we were granted the right to bear the designation "Purveyor to the Royal Household". That is a reflection of the company's quality, reliability and continuity.



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Since 2009 Hoefnagels Fire Safety has had the honour of being allowed to use the title "Purveyor to the Royal Household", an honorary title which is reserved for companies with a long and impeccable record of service.



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