

Противопожарные двери

Технические характеристики

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Fire doors Fire and smoke barriers



Fire doors are an essential element of smoke-free protection, ensuring the protection objectives of building regulations (protection against fire and smoke, rescue of people and animals) as well as effective extinguishing efforts by the fire service.

The rapid spread of smoke makes escape and rescue routes difficult to see and pass. In addition, the toxic substances in the smoke are dangerous to humans and can lead to unconsciousness after just a few breaths.

Fire barriers prevent the passage of fire and smoke, allowing rooms behind them to be used for approximately 10 minutes to rescue people without respiratory protection in the event of a fire.

Fire doors also prevent fire and smoke from spreading to other areas. The systems should be self-closing so that they close automatically in the event of a fire using control devices.

According to DIN 4102-2, a fire door must meet the requirements of a room-enclosing component. Doors are divided into five fire resistance classes, each specifying the duration of fire resistance in minutes. A door with resistance class T 30 is fire-resistant for 30 minutes. The maximum duration of fire resistance is 180 minutes.

Fire doors ...

- ...prevent fire and smoke **from spreading quickly to other sections** .
- ... keep out fire for up to **180 minutes** .
- ...can be smoke-tight and keep out toxic smoke for a certain period of time.
- ... thus enabling the fire brigade **to rescue people and animals** .
- ... must be **professionally planned and installed** .

Overview Products

- door frame
- door leaf
- Sealing material
- Hold-open systems
- Labeling

Overview of services

- Consulting and planning
- distribution
- Installation and erection
- Maintenance and repair
- Repair

The respective state building regulations stipulate that general fire protection objectives and requirements must be met. This is verified during recurring inspections of individual buildings by the responsible building inspectorate/fire department (fire prevention inspection).

Accordingly, in accordance with the operator's obligations, the individual trades and facilities must be regularly inspected according to recognized technical standards and in compliance with manufacturer specifications. This also includes expert inspections in accordance with the respective inspection regulations of the federal states.

Within the scope of maintenance (servicing, inspection, repair and improvement), the target conditions of the respective trades and facilities are maintained, improved and further developed in order to meet the protection objectives.

Door maintenance isn't explicitly scheduled at a set interval; instead, it's based on manufacturer recommendations. However, according to state building regulations, fire doors must be self-closing at all times. If this isn't the case, they must be repaired immediately.

Important standards for the installation and maintenance of doors:

- **DIN 18095:** Doors, smoke protection doors, terms and requirements.
- **DIN 18093:** Fire protection closures, installation of fire doors in solid walls made of masonry or concrete.
- **DIN EN 14600:** Doors and openable windows with fire or smoke control properties – Requirements and classification.

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