



EFFERTZ®

NEW

Ferroflam®

Fire-Resistant Rolling Door

Tested according to
EN 1634-1 (E120)



Ferroflam® fire-resistant rolling door



SP-profile



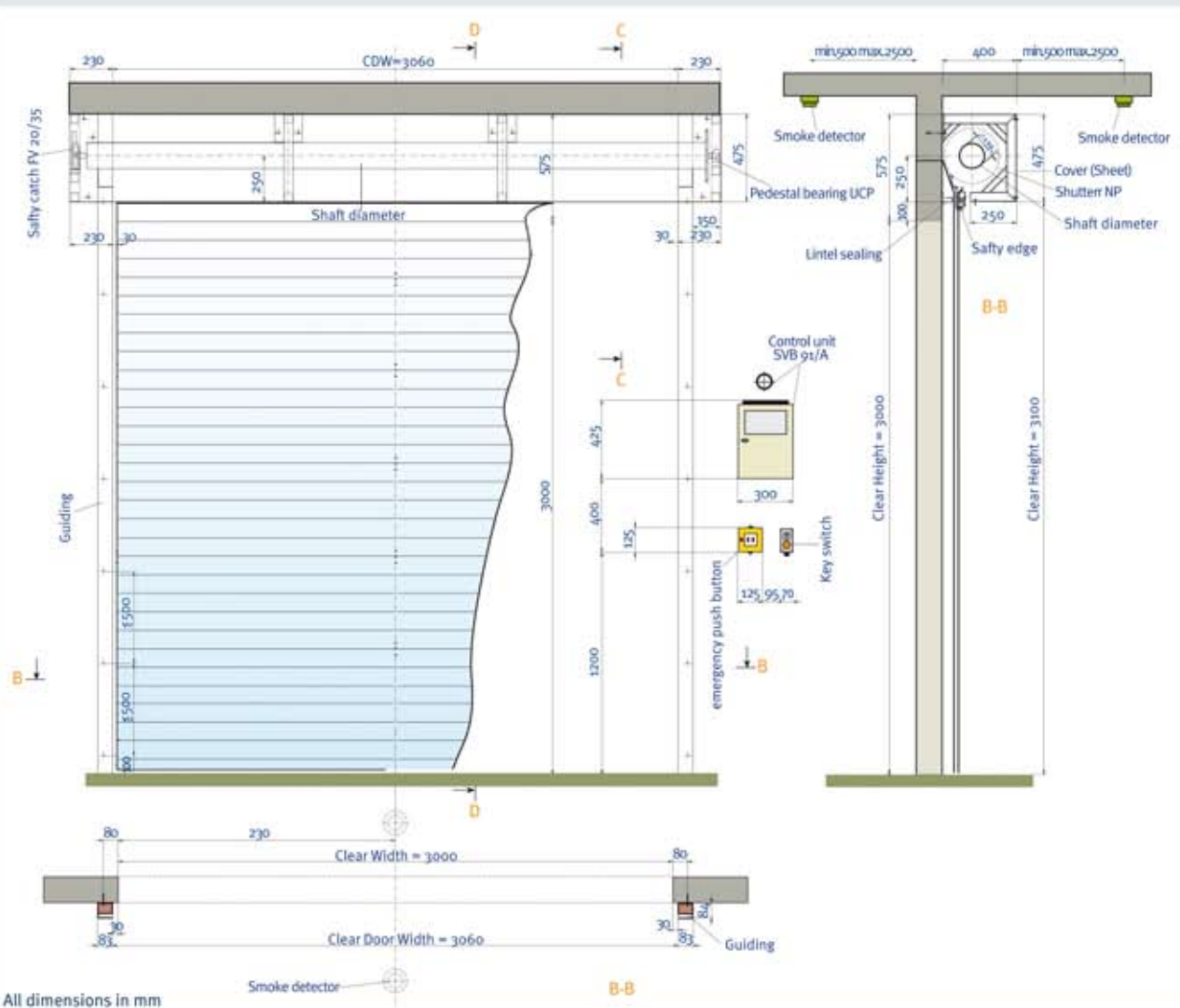
During fire test



NP-profile



Ferroflam® Fire-Resistant Rolling Door



All dimensions in mm

Ferroflam® NP-Profil

NEW

All visible outer surfaces are protected against scratches and soiling until commissioning by an easily removed plastic film.

also available in

STAINLESS STEEL

Advantages

Effertz Ferroflam® ER12 fire-resistant rolling doors offer the following advantages:

- Metal rolling door that prevents unauthorised entry when closed
- Reliable flame barrier for two hours (E 120) in accordance with test to European test standard EN 1634-1.
- Durability functionality for at least 10,000 cycles to DIN 4102-18
- Function-monitored safety edge for the purpose of personal and material safety on the underside of the door
- Battery back-up power supply to ensure the fire protecting function for several hours even in the event of a power failure
- Current-free closing in the event of a fire ("gravity failsafe")
- Lower weight and space requirement than for insulated doors

Effertz Release System

The central control unit of any Effertz fire-resistant rolling door is the Effertz release system. Sophisticated electronics ensure that the fire-resistant rolling doors are held open in the normal operating state, but close reliably in the event of an alarm or malfunction. If a smoke detector is tripped or the emergency hand switch is actuated, the power supply to the retaining electromagnet on the drive is interrupted and the drive brake is released. The fire rolling door closes, regulated by a centrifugal brake in the drive,

under its own weight, irrespective of any power supply ("gravity failsafe").

The safety edge allows the closing door to be stopped if the opening is blocked.

In the event of a power failure, this safety device is kept functional by a 24 V battery supply. The drive of the fire door has a siren (approx. 100 dB) that sounds if the release system is tripped. Every Effertz fire-resistant rolling door is equipped with such a release system, specially approved for this purpose. Effertz fire-resistant

doors meet all safety requirements. At ambient temperatures below 0° C, we recommend the installation of a control cabinet heater.

Description of Scope of Supplies and Services

Effertz Ferroflam® ER12 fire-resistant rolling door prevents the spread of fire for 120 minutes according to EN 1634-1 (E 120), tested at the Materials Testing Institute of North-Rhine Westphalia.

- Single-wall hot galvanised steel roller shutter profile
- Roller shutter housing of hot galvanised steel
- Safety edge for protection during closing, with spiral cable
- Galvanised steel guide rails
- All non-galvanised steel parts with a single corrosion-resistant primer coating (e.g. shaft)
- Electric drive with spur gearing, 400 Volt, 50 Hz, 3-phase AC motor. Integrated

centrifugal brake to limit the closing speed in the event of an alarm to max. 15 cm/s.

- Current-free closing under the dead weight of the door so that the door closes reliably even in the event of a power failure or controller failure ("gravity failsafe").
- Drive chain with at least 6-fold safety margin (for door heights less than 2,50 metres with plastic protective cover for the chain "floating" on the chain)
- Release system with internal back-up battery to hold the door open for at least one hour in the event of a failure of the main power supply
- Optical smoke detectors

- Siren that sounds automatically in the event of an alarm
- 1 push-button emergency hand trip behind thin glass in yellow ABS housing
- 1 key-operated contact switch, for surface installation, prepared for cylinder lock
- All documents incl. installation instructions on CD-ROM.

Optional:

- Connection to control and indicating equipment resp. fire alarm system (potential-free)
- Flashlight
- Networked door trip
- Colour coating



Important Notes for all Fire-Resistant Doors

Fire-resistant doors are designed for a service life of around 30 years, whereby it is assumed that not more than approx. 10,000 opening and closing cycles take place during this period. Fire-resistant doors are not designed as service doors which are opened and closed several times a day. This is not expedient either, since fire-resistant doors open and close very slowly, and repairs are several times more

expensive than on standard doors. In such cases, Effertz recommends the combination of a fire protecting door which remains open constantly with a standard rolling door that can be opened and closed as and when necessary.

If several fire-resistant doors are installed to form a firewall (in this case they are generally installed next to one another), the customer has to decide whether

the doors should close independently of one another, or whether a common closing should be triggered by a fire alarm system or by a controller to be supplied by Effertz. Where suspended ceilings are installed, maintenance openings of an adequate size must be provided for inspection, service and repair work.



Requirements on Site

If necessary, an escape door with the corresponding fire class must be provided in the vicinity of the fire-resistant doors and marked accordingly.

The mounting surfaces for the door elements must be smooth.

Design of the walls:

- Concrete or steel-reinforced concrete, wall thickness 140 mm.
- Masonry, strength class min. 12 MN/m², wall thickness ≥ 175 mm.
- F90-clad steel pillars.

The testing and responsibility for the statics of the parts to which the doors are to be attached lies with the customer.