Advantages

- Reliable flame barrier for two hours (E 120) in accordance with test to European test standard EN 1634-1.
- Proven continuous performance (10,000 opening/closing cycles) to DIN 4102-18.
- Function-monitored safety contact strip for the purpose of personal and material safety on the underside of the door (optional).
- Battery back-up power supply to ensure the proper function even in the event of a power failure for several hours.
- Low weight, and hence less demands on the statics of the structural elements to which the door is to be fastened (e.g. on older buildings).
- Current-free closing in the event of a fire ("gravity failsafe")
- Plug-in product for quick commissioning.

VKF AEAI

Approval No. Z 13328
for Switzerland

Important Notes for Fire-Resistant Curtains

It is not expedient to employ fire-resistant curtains as service doors for frequent use, as fire-resistant curtains open very slowly and the curtains should not be operated more than three times per hour. In such cases, Effertz recommends the combination of a fire-resistant curtain that remains open constantly with a standard rolling door that can be opened and closed as and when necessary. If several fire-resistant curtains are installed next to one another, the customer has to decide whether the curtains 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, flaps or removable ceiling elements of an adequate size must be provided for inspection, service and repair work.

Requirements on Site

The opening must satisfy the following requirements so that the curtain can be installed in accordance with the test certificate:

- Lintel height at least 225 mm
- Free lateral clearance of at least 130 mm
- Space in front of the door up to the first interference edge approx. 1 m
- Walls and lintel smooth and in one plane, made of concrete (minimum thickness 100 mm) masonry (minimum thickness 240 mm), strength class min. 12 MN/m², or aerated concrete wall (minimum thickness 240 mm) with steel-reinforced concrete lintel
- Floor horizontal, of non-inflammable material
- Provision of a 230 V AC 16 A power supply in the immediate vicinity of the door drive
- Fire-resistant curtains do not open in the escape direction, so a separate escape door may have to be provided.

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EFFERTZ®

Fibreflam®

Fire-Resistant Rolling Curtain

Tested according to
EN 1634-1 (E120)


Shopping centre

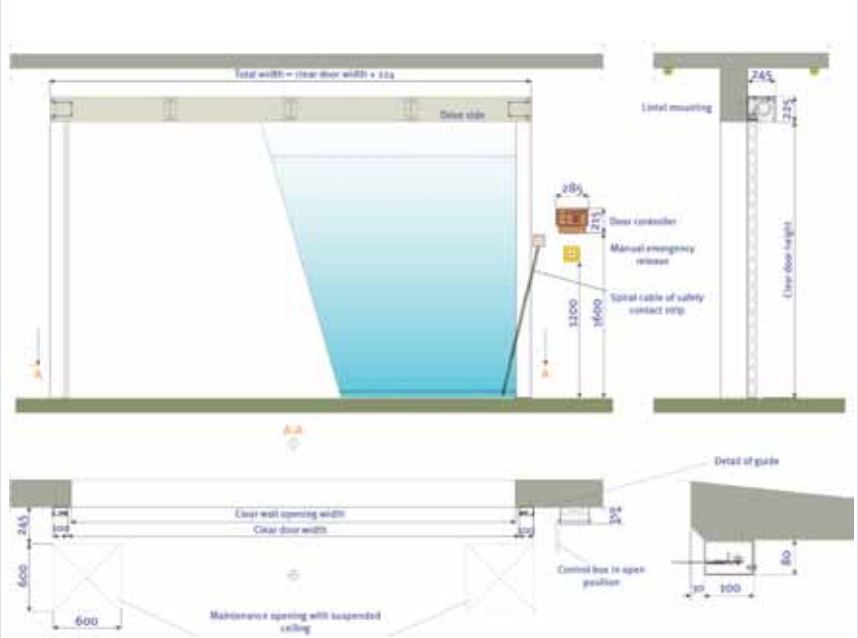

Shielding of an outer façade


Warehouse


Shopping centre


Standard


During testing at Testing Institute

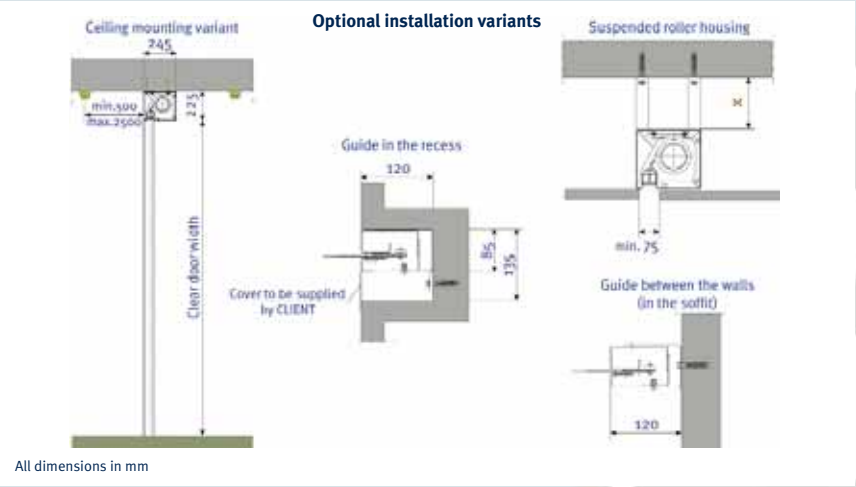


All dimensions in mm

NEW

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

Also available in STAINLESS STEEL



All dimensions in mm

Other installation situations or minimum dimensions on request.
Dimensions valid up to inside width of 6 m and inside height of 5 m.

Fibreflam®Fire-Resistant Rolling Curtain

Description of Scope of Supplies and Services

Fibreflam® fire-resistant rolling curtain, prevents the spread of fire for 120 minutes according to EN 1634-1 (E 120) and durability test (10,000 cycles) to DIN 4102-18, tested at the Materials Testing Institute of North-Rhine Westphalia.

Textile fire-resistant rolling curtain to protect areas of buildings against the spread of flames.

- Grey special glass filament fabric reinforced with stainless steel wire woven into the fabric with polyurethane coating.
- Clamp rolls integrated into the curtain to prevent the curtain being pulled out of the guides.
- In the case of passage of persons, equipped with function-monitored safety contact strip according to EN 12453
- Control box W x H = 285 x 215 mm.
- Potential-free contact for connection to fire alarm system
- Battery back-up power supply in the event of a power failure, connection of up to 12 fire detectors. Operation via foil keyboard.
- Housing for the winding shaft made of galvanised sheet steel with maintenance openings.
- Guides of galvanised steel.
- Triggering in the event of alarm via an emergency push button behind glass or via smoke detectors.
- Drive by tubular motor, 5% duty cycle, with power-on brake, electrical opening and current-free closing (“gravity failsafe”).
- Opening/closing speed approx. 5 – 10 cm/s
- Connection via 2 m cable and 230 V AC plug to a plug socket on site.
- All documents incl. installation instructions on CD-ROM.

Options:
- External key-operated switch
- Electric siren
- Flashlight
- Non-visible drag chain integrated in one guide instead of spiral cable for power supply of safety edge

Space requirement for standard installation
- Space above the lintel of the door ≥ 225 mm
- Lateral clearance ≥ 130 mm

Smaller dimensions on request

Effertz Release System

The key control unit in every Effertz fire-resistant curtain is the Effertz release system. Specially-designed electronics make sure that the fire protection curtain is kept in the open position during normal operation, but in case of alarm will close. If a smoke detector is triggered or if the emergency push button is actuated, the power supply to the drive will be interrupted, the brake in the drive released, and the curtain will close by it’s own weight, controlled by a speed regulator of the drive, independent of any power supply ("gravity failsafe"). The safety contact edge makes it possible to stop the automatic closing operation, should the opening be blocked.

If there is a power failure, the function of this safety device is taken over by a 24 V battery. Every Effertz fire-resistant curtain is equipped with such a release system, specially approved for this purpose. Effertz fire-resistant curtains meet all safety requirements.

Smoke Detectors

The number of smoke detectors required is determined by the width of the door. One detector is required on each side of the opening for door widths up to 4,000 mm, two detectors on each side for door widths up to 8,000 mm and three detectors on each side for door widths up to 12,000 mm. With lintel heights of more than 1,000 mm, one or more additional smoke detectors must be installed – at additional charge – on one side of the lintel near the underside of the lintel. The number required is again determined by the door width: One is required for widths up to 4,000 mm, two for widths up to 8,000 mm and three for widths up to 12,000 mm. In some cases smoke detectors can trigger false alarms. This is particularly the case where there is an extreme development of smoke, mist or dust such as near ovens, for example. In this case, heat detectors are to be recommended instead of smoke detectors. These react to increases in temperature. In escape routes, only smoke detectors may be used.