



# TEXTILE FLEXIBLE FIRE-RATED DOOR FLEXFIRE

Textile fire protection for construction projects and industrial buildings for inconspicuous integration

**HÖRMANN**

# Brand quality made in Germany



The family-owned company Hörmann offers all important construction components for building and renovating projects from a single source. We manufacture in highly specialised factories using state-of-the-art production technologies. Our employees work intensively on new products, continual further developments and improvements to details. The results are patents and unique products on the market.





**WE THINK AND ACT GREEN.** As a family business, we are very conscious of our responsibility to future generations and will offer all products for construction projects as CO<sub>2</sub>-neutral versions upon customer request. In this way, customers have the option to offset remaining emissions and make a contribution to climate protection when purchasing our products. The Hörmann sustainability strategy aims to reduce and avoid emissions. We cover 100% of our electrical power needs at all European production sites\* with genuine green electricity from renewable sources. We also apply many other measures to reduce our consumption and save more than 75000 tonnes of CO<sub>2</sub> each year. We work with ClimatePartner to offset the remaining emissions by supporting certified climate protection projects.

\* Except in France



You can find further information at [www.hoermann.com/sustainability](http://www.hoermann.com/sustainability)



**ClimatePartner**  
certified product  
[climate-id.com/FYZNUF](http://climate-id.com/FYZNUF)



CO<sub>2</sub>  
measure  
reduce  
contribute

# Sustainable planning for trend-setting construction

Experienced specialists within our customer-oriented sales organisation accompany you from the planning stage, through technical clarification up to the final building inspection. Complete working documentation, such as technical manuals, is also always accessible and up-to-date at [www.hoermann.de](http://www.hoermann.de)





**SUSTAINABILITY DOCUMENTED.** Hörmann has already received confirmation of sustainability through an Environmental Product Declaration (EPD) in accordance with ISO 14025 from the Institut für Fenstertechnik (ift – Institute of window technology) in Rosenheim, Germany. This EPD was created based on EN ISO 14025:2011 and DIN EN 15804:2012+A2:2019. In addition, the general guidelines for the preparation of type III Environmental Product Declaration apply. This declaration is based on PCR documents EN 17213 “PCR for windows and doors”, “PCR Part A” PCR-A-0.3:2018 and “Sun shading and connections (including blackout systems)” PCR-SS-2.3:2020.



**PRODUCTS  
FOR BIM**

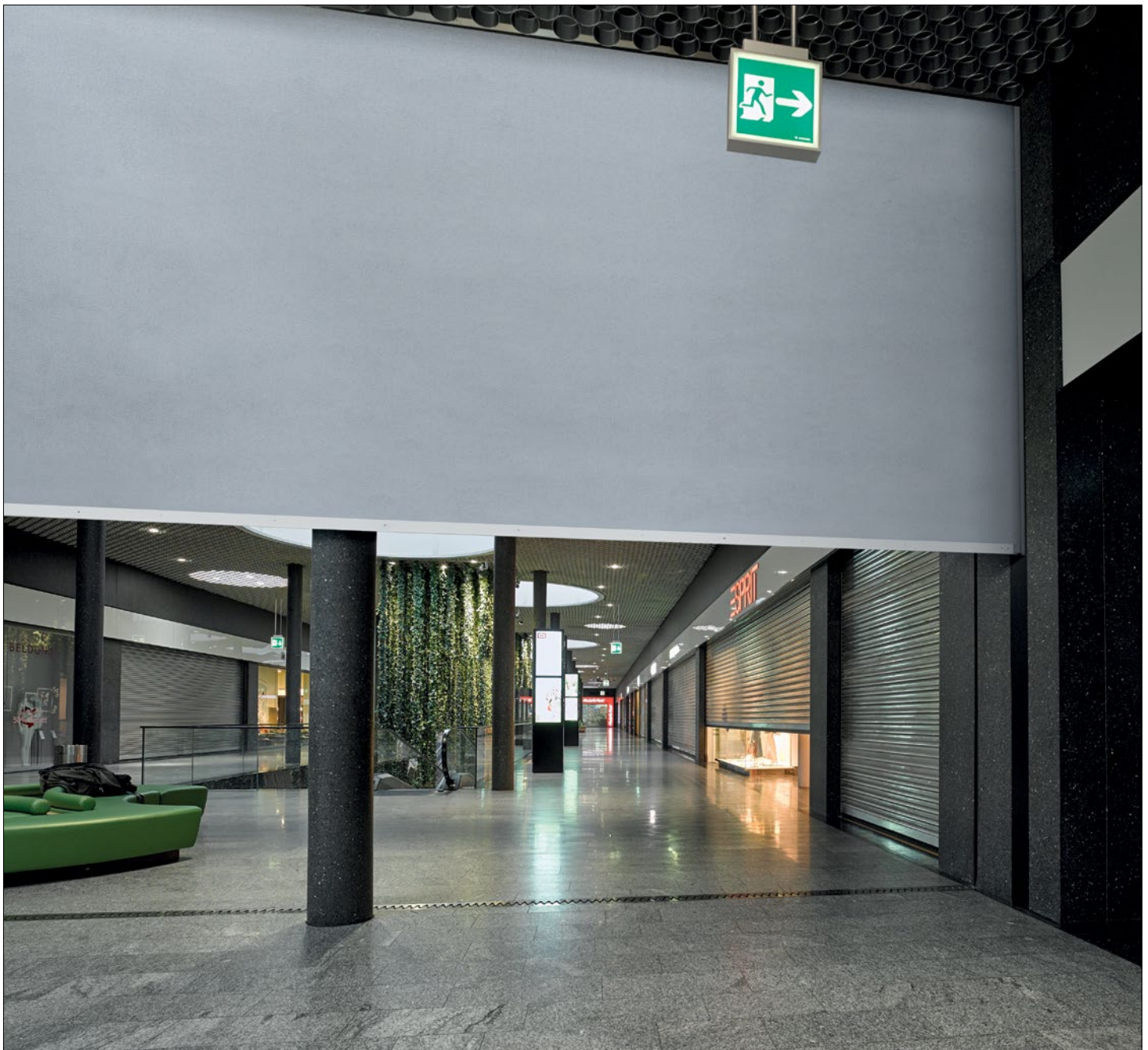
We are a member of the professional association for digital building products in the Federal Association of Building Systems e.V.

### **PRODUCT PORTAL FOR ARCHITECTS AND PLANNERS.**

Clearly structured navigation and a search function provide faster access to texts for invitations to tender, technical data, certificates, CAD drawings and much more. In addition, BIM data can be provided for many products for the Building Information Modelling process, enabling efficient planning, drafting, construction and management of buildings. Photos and photo-realistic presentations provide additional information on many products.

# Functional system

When open, the fabric is on a winding shaft in a housing box made of galvanized sheet steel above the opening to be closed. With a solid bottom strip as a closing weight, the system is closed under its own weight according to the “Gravity Fail Safe” principle (unwinding by gravity, without energy) in a speed-controlled manner.



## TEXTILE FLEXIBLE FIRE-RATED DOOR WITH

**CE MARKING.** The textile flexible fire-rated doors have been tested in accordance with the European requirements in fire protection and meet the requirements of the product standards EN 16034 and EN 13241. As a result, the products can be introduced to the market in all countries within the European Union. Country-specific approvals or certificates are no longer necessary.



**Partition E30**



**Partition E60**



**Partition E90**



**Partition E120**



**Radiation reduction EW30**



**Radiation reduction EW60**



**Radiation reduction EW90**



**Insulation EI<sub>2</sub>30**

**PARTITION.** Partition “E” is the capability of a component with a partitioning function to resist a fire on one side in such a manner as to prevent the fire from spreading to the side not exposed to the fire for 30, 60, 90 or 120 minutes.

**RADIATION REDUCTION.** The heat radiation measured on the side facing away from the fire remains below a certain value for a certain period of time. The heat radiation is measured at a distance of 1 m.

**INSULATION.** There is no transmission of the fire (neither flames nor heat) to the side facing away from the fire. In addition, a heat barrier protects people in the vicinity of the construction component. The temperature increase on the side facing away from the fire is on average max. 140 K or max. 180 K for a short time at certain points.

# Space-saving construction

Narrow side guides ensure inconspicuous lateral guidance of the textile flexible fire-rated door, allowing it to be fully integrated into the geometry of the building. A space-saving shaft housing with motor unit enables fitting in a suspended ceiling, allowing the entire construction to be integrated almost invisibly into the existing architecture.







**RELIABLE CONTROL UNIT.** The FlexFire is equipped as standard in Germany with the FSA-FLEXControl hold-open device control to ensure that the curtain closes reliably if smoke develops during a fire. When combined with optical or thermal fire detectors that monitor the door area, this hold-open device complies with all requirements. It can also be connected to the fire alarm system on-site.



**FAST FITTING.** As standard, we supply the FlexFire with concealed magnetic contacts already fitted in the side guide. The winding shaft also comes with the tubular drive fitted at the factory. Preassembled wiring makes the door system very easy to fit and service.



**CUSTOM SURFACE FINISHES.** The side guide, shaft cover and bottom strip come in galvanized steel as standard. We also offer the components in RAL to choose or in special colours to match your design.

# Quality in the details

Textile flexible fire-rated door with intelligent control unit



### Side guides <sup>1</sup>

- Two-part side guide
- Optionally in RAL to choose

### Shaft cover <sup>2</sup>

- Visible or concealed in the suspended ceiling, depending on the fitting situation

### Integrated tubular drive <sup>3</sup>

- Smooth, quiet door travel
- Preassembled wiring

### Bottom strip <sup>4</sup>

- Solid bottom strip serves as a closing weight to mechanically close the door in case of a power failure, if smoke is detected, or if triggered / operated by hand
- Galvanized steel, coated RAL 9002 as standard
- Optionally in RAL to choose

### Magnetic contact unit <sup>5</sup>

- Concealed magnetic contacts as standard for fast teach-in
- Invisibly integrated in the side guide
- EW90 / EI<sub>2</sub>30: Limit switching via reflex photocells



### Curtain type E30 – E120 <sup>6</sup>

- Light grey glass filament fabric
- V4A wire incorporated
- Fire-retarding aluminium pigmented polyurethane coating
- Assembly according to measurements
- Weight: 690 g/m<sup>2</sup>
- Material thickness: 0.54 mm



### Curtain type EW30 – EW60 <sup>7</sup>

- Anthracite-coloured glass filament fabric
- V4A wire incorporated
- Fire-retardant silicone coating on both sides
- Assembly according to measurements
- Weight: 1750 g/m<sup>2</sup>
- Material thickness: 1.50 mm



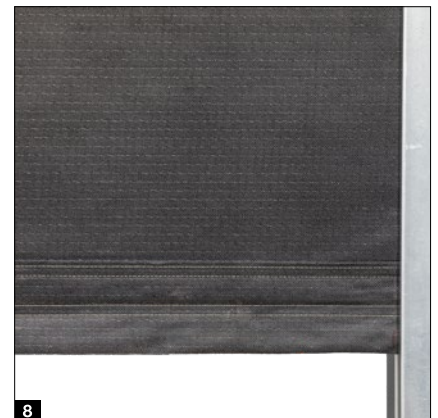
### Curtain type EW90 and EI<sub>2</sub>30 <sup>8</sup>

- Black E-glass fabric
- V4A wire incorporated
- Internal IsoTherm fleece with Intum EI coating on both sides
- Weight: 5500 g/m<sup>2</sup>
- Material thickness: 11 mm



#### Note:

For textile flexible systems with insulation (EI), a flange-mounted motor unit is fitted as standard. An integrated tubular drive unit is optionally available, e.g. for fitting in the reveal.



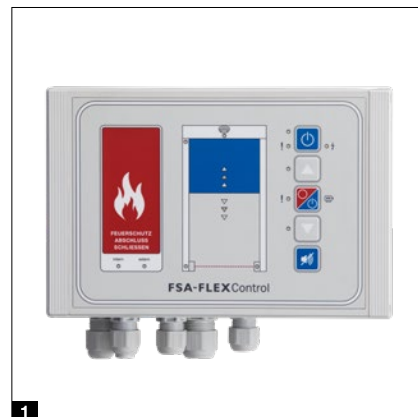
# Automatic safety in the event of fire

## Control variants

### Hold-open device control (DIBt approval)

#### FSA-FLEXControl without emergency power supply **1**

The FSA-FLEXControl is a power supply unit, manual pushbutton, alarm memory and reset button in one and is approved as a hold-open device control for Germany in accordance with DIBt directives. Together with approved fire detectors, it forms a hold-open device for controlling textile flexible fire-rated doors. If the cable entry points with screw fittings on the bottom of the housing are used, the FSA-FLEXControl has a protection category of IP 54.



### Hold-open device control (DIBt approval)

#### FAA-Plus with emergency power supply **2**

The FAA-Plus hold-open device control combines power supply, battery buffering, visualisation, fire detector evaluation, manual release button and reset device together in one housing. The battery-buffered power supply ensures that the textile flexible fire-rated door FlexFire remains open even in the event of a power failure.



### Motor control

#### FSA-FLEXeco without emergency power supply **3**

The FSA-FLEXeco is a compact and inexpensive motor control, suitable for countries where no hold-open device control is required according to German DIBt directives. The system can be conveniently "Opened" and "Closed" using this motor control. In the event of fire, the textile flexible door can be closed using the manual release button. An acoustic warning signal can be activated by means of a switch in the control. It can also be connected to a fire alarm system on-site.



### Motor control

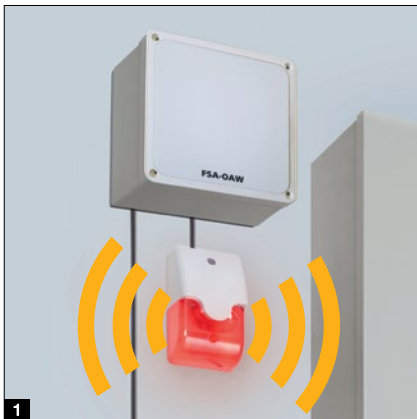
#### FSA-FLEXeco Plus with emergency power supply **4**

The FSA-FLEXeco Plus motor control combines the functions of the FSA-FLEXeco with a battery-buffered power supply. This ensures that the textile flexible fire-rated door FlexFire remains open even in the event of a power failure.



# Automatic safety in the event of fire

Components for control and hold-open devices



## Optical / acoustic alarm system **1**

An acoustic alarm system is included as standard in all control and hold-open device components. The acoustic warning signal can be activated by means of a switch in the control. An optical / acoustic warning system consisting of FSA-OAW and flashing warning light (approx. 100 dB) according to DIN EN 14600 is optionally available.



## Optical fire detector H-RM-4070 **2**

The optical fire detector works according to the familiar scattered light principle. The remarkable flat design of the fire detector allows smoke detection across a wide range of fires. The sensor compartment contains an optical sensor capable of measuring both reflected and normal scattered light. The stability of the detector is further enhanced by the use of algorithms that decide when the detector changes to alarm status. This reduces the likelihood of the alarm being triggered by smoke without a real source of fire. The detector is approved according to EN 547 and is the standard fire detector for all Hörmann hold-open devices.











## Heat detector H-TM-4070 **3**

The detector measures the ambient temperature every two seconds. A microprocessor stores the temperature measurement data and compares it to the preset limit values to determine if a preset maximum value – the alarm threshold – has been reached. The detector is approved in accordance with EN 54-7.

# Dimensions and technical manual

Textile flexible fire-rated door FlexFire

		Dimensions
   	<b>Partition E30, E60, E90, E120</b>	
	Width (mm)	1000 – 5500
	Height (mm)	2000 – 5310
 	<b>Radiation reduction EW30, EW60</b>	
	Width (mm)	1000 – 5500
	Height (mm)	2000 – 5310
	<b>Radiation reduction EW90</b>	
	Width (mm)	1000 – 3500
	Height (mm)	2000 – 2500
	<b>EI<sub>2</sub>30 insulation</b>	
	Width (mm)	1000 – 5500
	Height (mm)	2000 – 5005
	<b>Closing cycles E, EW and EI</b>	
	C2	10000
	<b>Side guide</b>	
	Material / surface finish:	Galvanized steel, optionally in RAL to choose
	Dimensions W × H (mm):	
	E30 – 120 and EW30 – 60 classification	115 × 70
	EW90 and EI <sub>2</sub> 30 classification	143 × 164
	<b>Shaft housing</b>	
	Material / surface finish:	Galvanized steel, optionally in RAL to choose
	Dimensions W × H (mm):	
	E30 – 120 and EW30 – 60 classification	
	Curtain height ≤ 3500 mm	250 × 283
	Curtain height > 3500 mm	300 × 320
	EW90 and EI <sub>2</sub> 30 classification	
	Box size LWH < 3000 mm	475 × 539
	Box size LWH ≥ 3000 mm	571 × 629

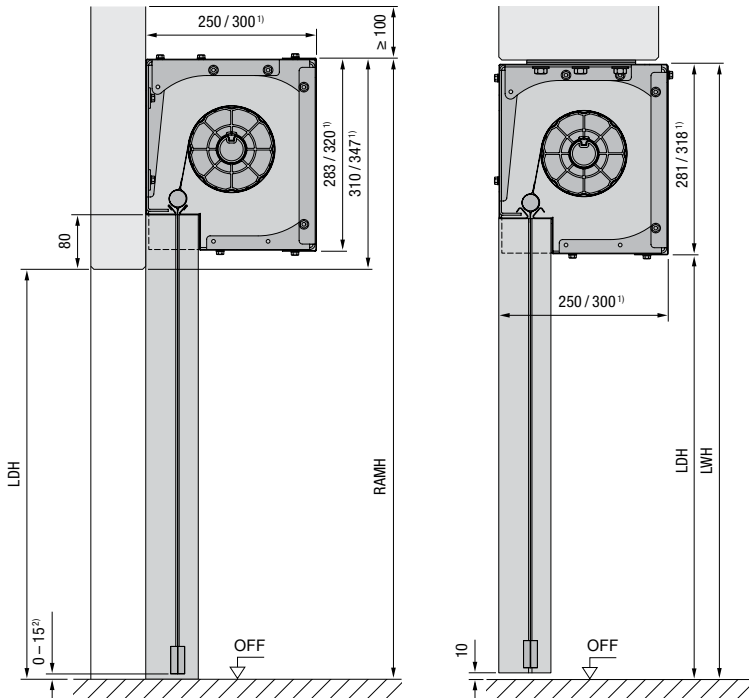
**Note**

Larger door widths and door heights are possible on request.

### Shaft housing (E30 – E120 and EW30 – EW60)

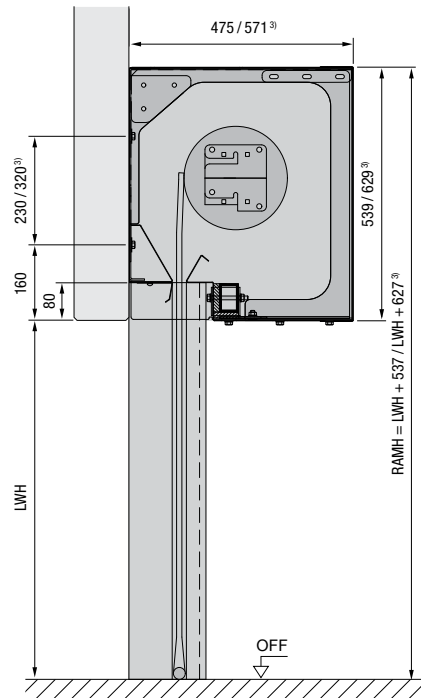
Wall fitting

Fitting to ceiling



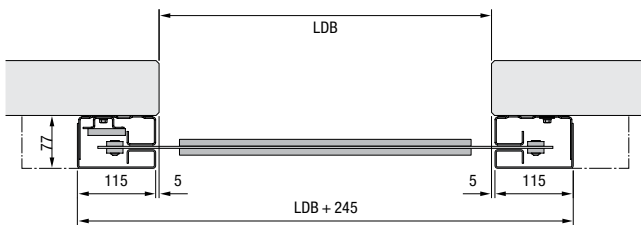
### Shaft housing (EW90, EI<sub>2</sub>30)

Wall fitting



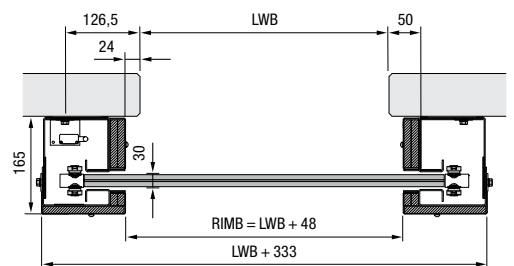
### Boom (E30 – E120 and EW30 – EW60)

Fitting in front of the reveal

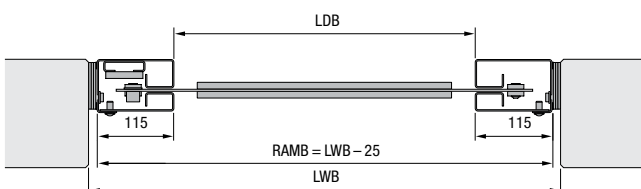


### Boom (EW90, EI<sub>2</sub>30)

Fitting in front of the reveal



Fitting in the reveal



#### Explanations

- LDB** Clear passage width
- LDH** Clear passage height
- LWB** Clear wall opening width
- LWH** Clear wall opening height
- RAMB** Overall frame dimension width
- RAMH** Overall frame dimension height
- OFF** Finished floor level (FFL)

#### Important

When taking the curtain measurements, please note that the largest distance between FFL and the bottom edge of the lintel is decisive for production.

- <sup>1)</sup> Only for control fitting
- <sup>2)</sup> From 3500 mm
- <sup>3)</sup> Maximum gap
- <sup>4)</sup> Fitting clearance for screw-fitting the side guide rail
- <sup>5)</sup> From LWH 3000 mm

Dimensions in mm

# Everything from a single source for construction and industry

Our large product range offers the right solution for any requirement. All products are optimally adjusted to work together, ensuring high functional safety. This makes us a strong, future-oriented partner for industrial and public construction projects.

**INDUSTRIAL DOORS. LOADING TECHNOLOGY. SLIDING DOORS.  
CONSTRUCTION PROJECT DOORS. PERIMETER PROTECTION SYSTEMS.**



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