



FIRE ROLLING SHUTTERS
FIRE CURTAINS



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Blackfire® is a brand of Conegliano Group srl,
a leading company for over 45 years
for industrial and civil safety closures field.

Blackfire®, a Conegliano Group brand, has the strategic goal to become one of the main suppliers of **fire and smoke passive protection** systems in Italy, and throughout the European market.

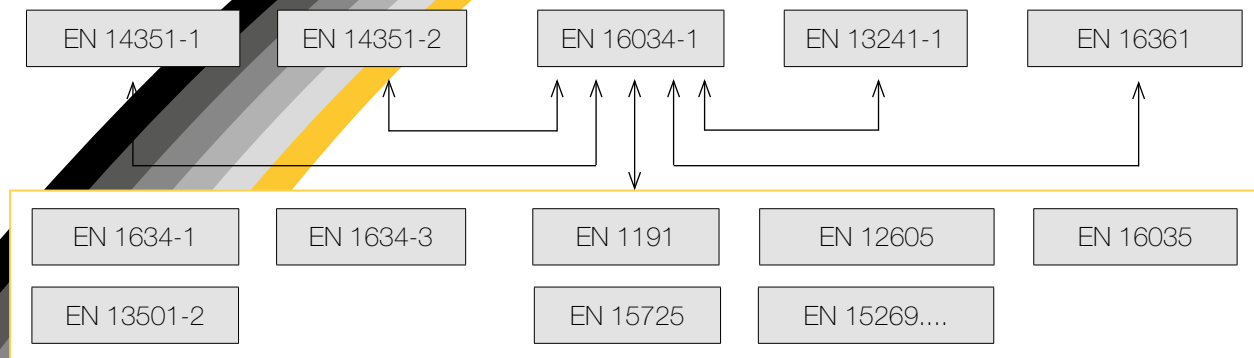
The strategy consists in improving its business model, aimed at offering customer services and a range of products that meets every need.

Blackfire is a fire protection system supplier: the Company commitment is to guarantee a dominant position by ensuring **high performing products**, in line with the strict technical regulatory requirements and enhancing the efficiency of its distribution network.

Blackfire, in times of increasing globalization and market needs, is able to offer solutions that guarantee complete **fire protection of buildings** and integrated systems. The commitment of technical and commercial collaborators, dedicated exclusively to this line of products, allows the Company to cooperate effectively with **designers, distributors, end customers**, and to propose to them to be a real trusted partner.

EUROPEAN STANDARDS FOR FIRE AND SMOKE PRODUCTS

CONNECTION AMONG THE REGULATIONS



EN 13241 -1

Industrial/commercial garage doors and gates. Product standards, performance characteristics. It applies to industrial/commercial garage and gate closures, both manual and automatic, without fire resistance or smoke control characteristics.

EN 16034-1

Pedestrian doors, industrial/commercial garage doors and opening windows - Product standard, characteristics performance - Fire resistance and/or smoke control characteristics. The standard identifies, regardless of the material, the safety and performance requirements applicable to all products for fire resistance and/or smoke control, for use in compartments for fire resistance and/or smoke control and/or on escape routes.

EN 1634-1

Fire resistance and smoke dispersion control tests for doors and closing systems, openable windows and their construction accessories. Specific standard which identifies a method for determining the fire resistance of products intended to be installed in openings on vertical separation elements.

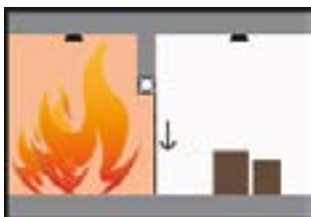
EN 15269-10/11

Extended application of fire resistance and/or smoke dispersion control test results for doors, closure systems and openable windows and their construction components - Fire resistance of operable fabric curtains (EN 15269-11) or steel shutters (EN 15269-10).

EN 13501-2

Fire classification of building elements. Provides the procedure for classifying the reaction to fire of all construction products, including products incorporated into building elements.

Part 2: Classification based on the test results (excluding ventilation systems).



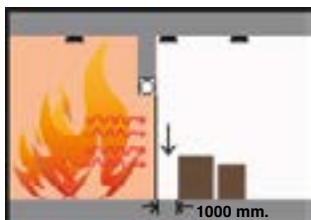
BLOCKSHUTTER E 90

Fire roller shutter designed for fire protection and compartmentation, tested to guarantee the system integrity up to 1000°C for 90 minutes (E performance).

Ideal for commercial and industrial solutions such as warehouses and factories.

Max. dimensions: 10000 (W) x 8000 (H) mm

Side guides and roll-box in galvanized steel.



BLOCKSHUTTER EW 120

Fire roller shutter designed and tested on both sides to guarantee integrity up to 1000°C for 120 minutes (E performance) and to keep the thermal radiation below 15kW/sqm (W performance), in order to protect people and goods in the proximity from heat radiation generated by fire. It can be used daily for opening and closing with dead-man's mode.

Max. dimensions: 12000 (W) x 9000 (H) mm

Side guides in galvanized steel.



BLOCKSHUTTER EI 60 • EI 120

Fire roller shutter designed and tested on both sides to guarantee integrity up to 1000°C (E performance) and thermal insulation (I performance) for 60 - 120 minutes, in order to protect people and goods in the proximity from fire. It can be used daily for opening and closing with dead-man's mode.

Max. dimensions EI 60: 10000 (W) x 8000 (H) mm - max. 40 sqm

Max. dimensions EI 120: 10000 (W) x 8000 (H) mm - max. 40 sqm

Side guides in galvanized steel.



UNIKA EI₁ 60/120 • EI₂ 120/180

Fire curtains tested to guarantee integrity at 1000°C (E performance) and thermal insulation resistance for 60-120 minutes (I performance).

Max. dimensions EI₁ 60: 10000 (W) x 7500 (H) mm

Max. dimensions EI₂ 120: 10000 (W) x 7500 (H) mm

Side guides and headbox in galvanized steel.



PRATIKA EI₁ 30 • EI₂ 60 • EW 90

Fire curtains tested to guarantee integrity at 1000°C (E performance), thermal insulation resistance for 30 and 60 (I performance) and radiation for 90 minutes (W performance).

Max. dimensions EI₁ 30, EI₂ 60, EW 90: 6500 (W) x 8000 (H) mm

Side guides and headbox in galvanized steel.



FIRE ROLLING SHUTTERS

BLOCKSHUTTER

E 90



BLOCKSHUTTER E 90 is a fire resisting roller shutter designed for fire protection and compartmentalization, tested to guarantee the system's integrity up to 1000 °C for 90 minutes (E performance).

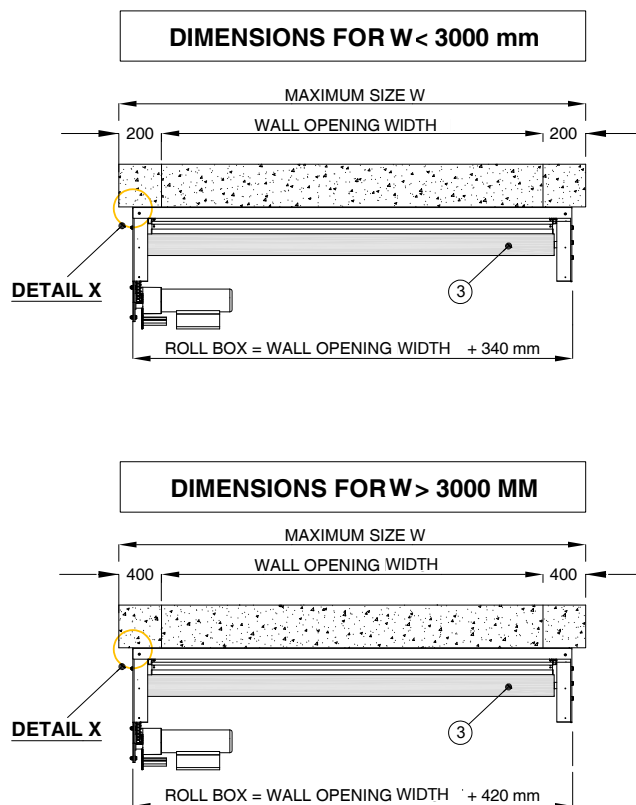
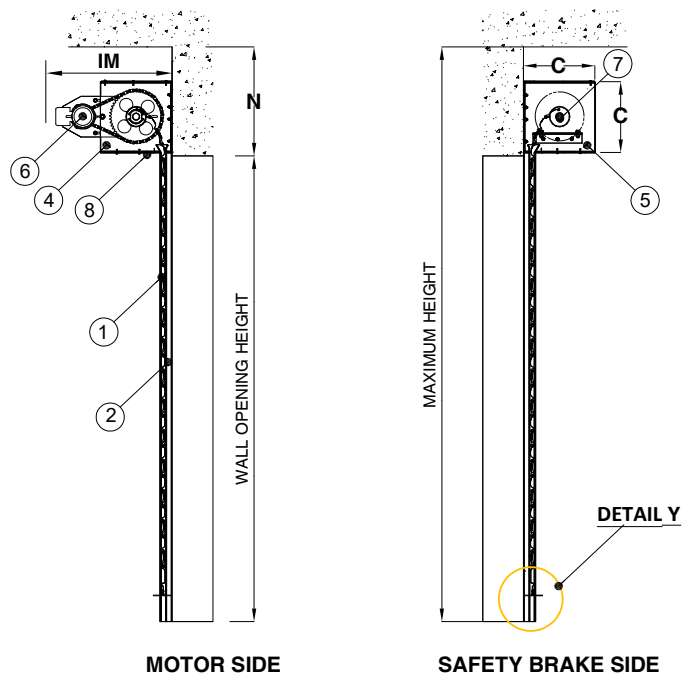
The elements are securely hooked together and blocked with steel lateral stops to prevent slipping of the slats and to guarantee the uniform mantle descent. The bottom slat is made of a robust L shaped profile 3,00 mm thick.

BLOCKSHUTTER E 90 is normally supplied with mono-phase 230V or three-phase 400V wheel chain motor with Gravity Fail Safe system. This particular system allows the descent of the shutter by gravity, without the need for electrical current. The activation occurs in a totally automatic way when the solenoid of the motor receives the fire alarm signal at 24Vdc (500mA) and releases the motor brake allowing the descent with a mechanical controlled speed

BLOCKSHUTTER E 90 is **CE MARKED** according to **EN 16034:2014**, **EN 13241:2016**, **WIND LOAD** resistance **class 2** (on request) and **SELF-CLOSING class C2**.



Installation scheme Type 1



Components:

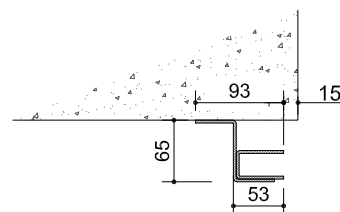
1. Mantle
2. Side guides
3. Shaft
4. Motor support bracket
5. Safety brake support brackets
6. Motor
7. Safety brake
8. Roll-box

Installation scheme Type 1

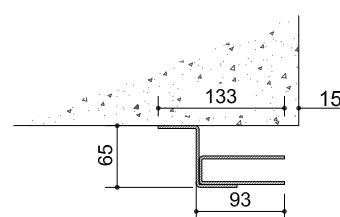
Support brackets for motor and safety brake system fixed on the wall

Lateral sliding side guides, fixed on the wall

DETAIL X



WIDTH < 3000 mm



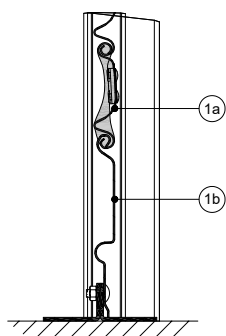
WIDTH > 3000 mm

Construction details:

Detail Y

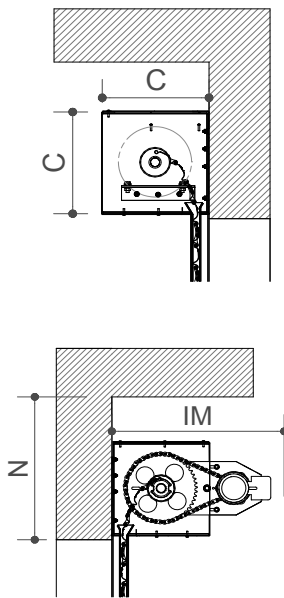
1a. Galvanized steel element, single sheet, 71 mm, complete with steel lateral stop.

1b. Steel bottom element, in galvanized steel, single sheet H.140 mm, with L shaped profile 50x30 mm.

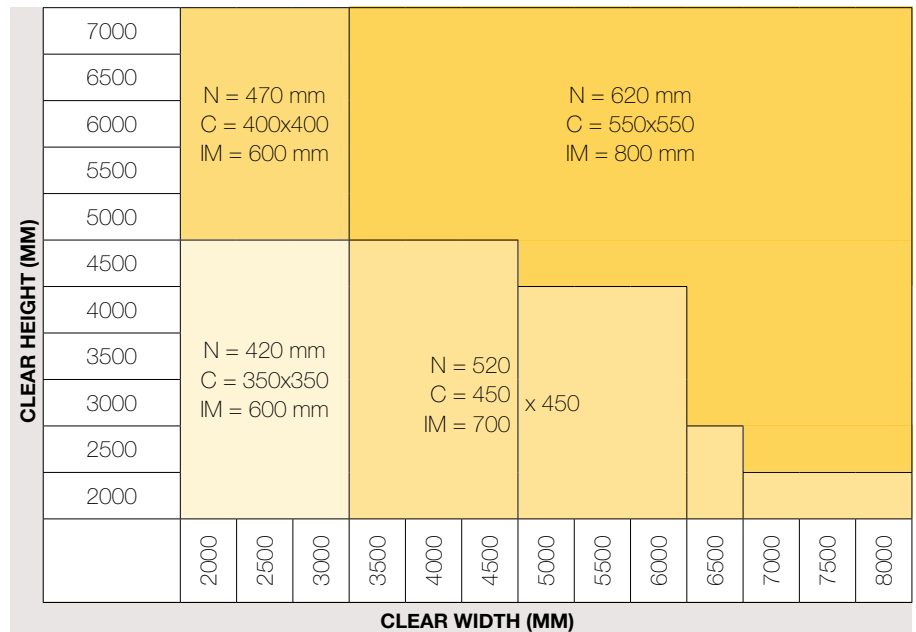


DIMENSIONS

The mantle is hooked to a support shaft and held by two sturdy steel supports; the roll is protected by a casing box in galvanized press-folded sheet which constitutes an additional fire protection.



Dimension range diagram **BLOCKSHUTTER E 90**

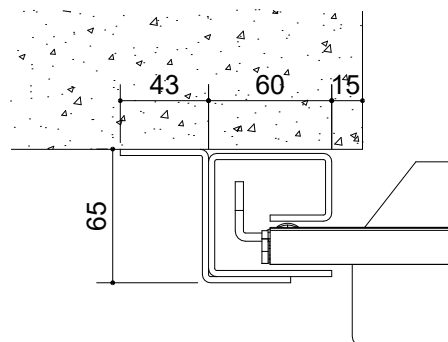


SIDE GUIDES

The **BLOCKSHUTTER E 90** system includes a pair of guides "U" shaped, 3mm thick in galvanized steel with variable depth according to the clear opening width; to increase the resistance to wind load or vortices inside the building where the shutters are installed, we can provide (on request) sturdy "G" guides and tear-proof hooks applied to the slats.



upper view



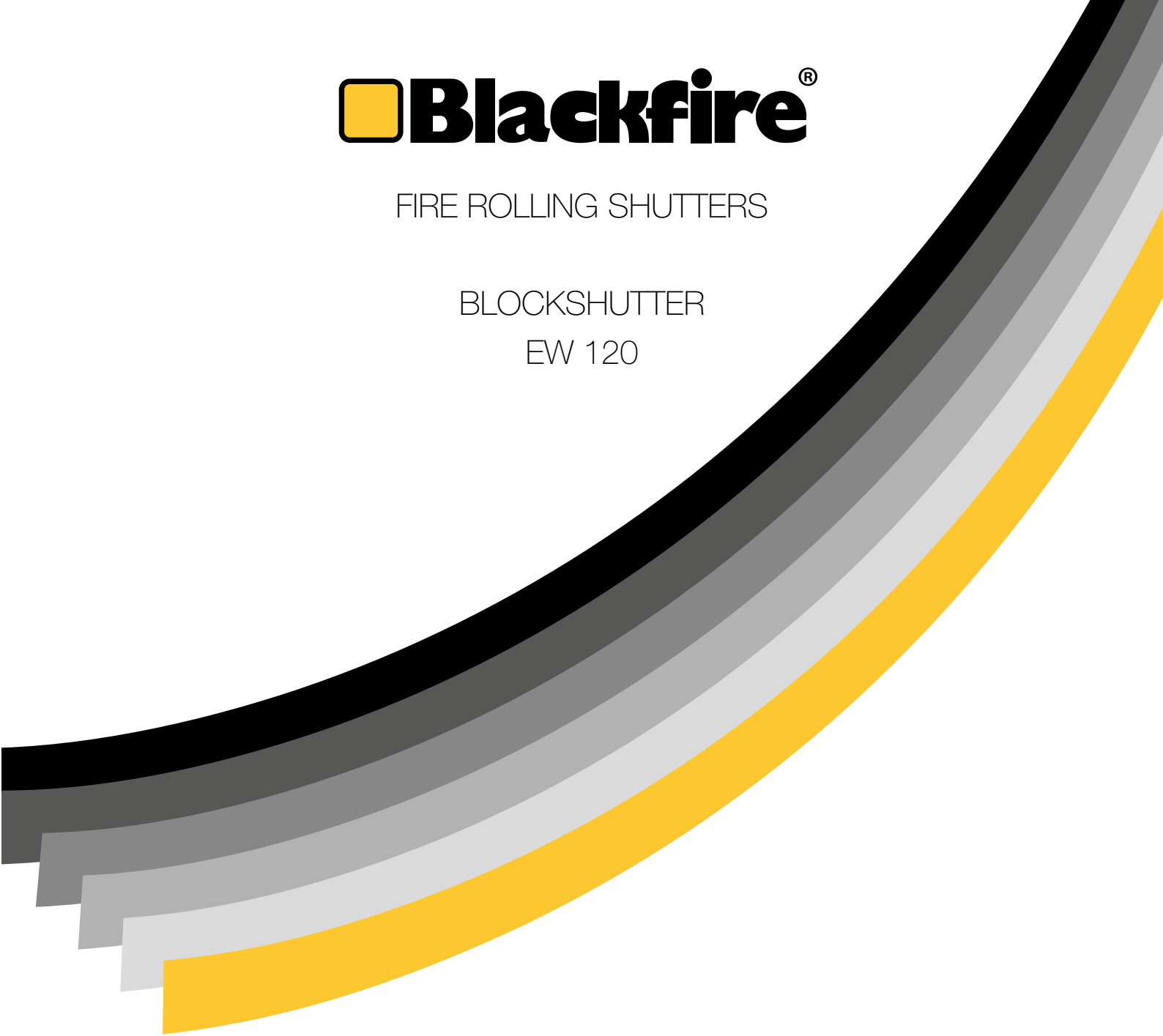
Front wall installation of side guide
(valid dimensions up to 6000 mm width)

Guide type	Rolling shutter dimensions max W x H (mm)	Guide dimensions max W x D (mm)
GE90	up to 10000 x 8000 (front wall fixation)	80 x 80



FIRE ROLLING SHUTTERS

BLOCKSHUTTER
EW 120



BLOCKSHUTTER EW 120

BLOCKSHUTTER EW 120 is a fire resisting roller shutter designed and tested on both sides to guarantee an integrity up to 1000 °C for 120 minutes (E performance) and to keep the thermal radiation below 15 kW/sqm within 120 minutes (W performance), in order to protect people and goods in the proximity from heat radiation generated by fire.

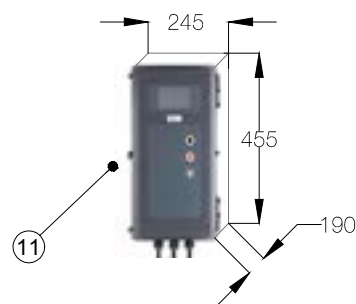
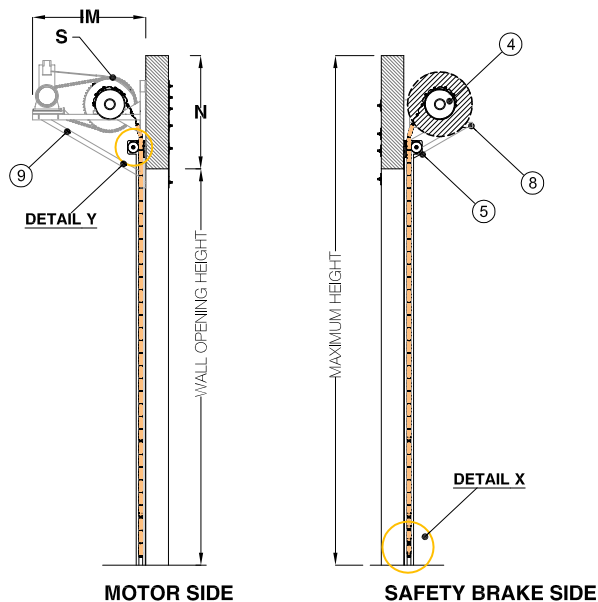
The mantle is composed of double-sheet galvanized steel slats, with insulation, height 114 mm, thickness 22 mm and weight of 30 kg/sqm.

The slats are securely hooked together and fastened on the side with steel end caps in order to prevent slipping of the slats and to guarantee the uniform mantle descent.

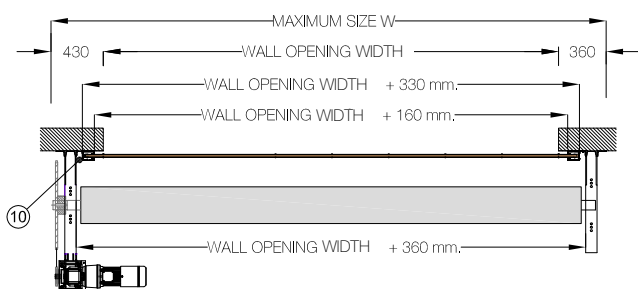
BLOCKSHUTTER EW 120 is certified **WIND LOAD** resistance **class 2** according to **EN 13241-1**, a **SELF-CLOSING class C2**, and **CE MARKED** according to **EN 16034:2014**, **EN 13241:2016**.



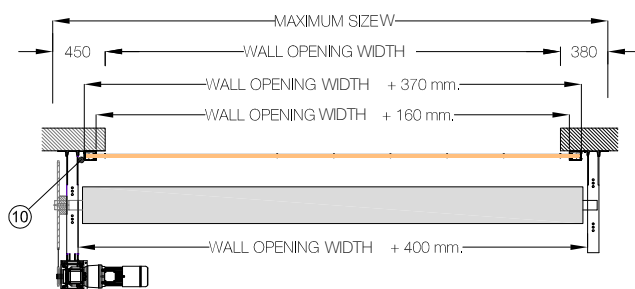
Installation scheme Type 1



DIMENSIONS FOR W < 8000 mm



DIMENSIONS FOR W > 8000 mm



Components:

- 04. Shaft
- 05. Steel winding shaft
- 08. Steel support bracket safety brake system side
- 09. Three phase motor and transmission system support bracket
- 10. Lateral steel side guides filled with fire retardant insulated material and a layer of thermoexpanding gasket along the full height
- 11. Control panel with acoustic/visual signal set, preset to be connected to the general fire/smoke alarm system

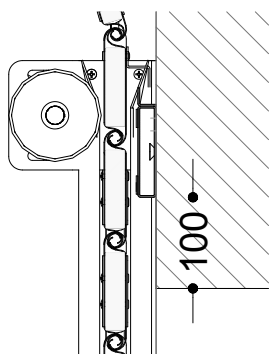
Installation scheme Type 1

Support brackets for motor and safety brake system fixed on the wall (front fixation)

Lateral side guides fixed on the wall (front fixation)

Construction details

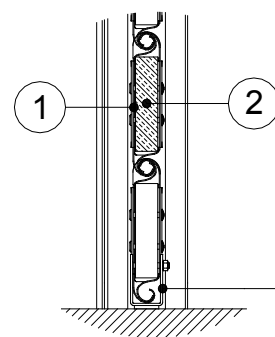
Detail Y



6. Labyrinth shaped profile in galvanized steel with thermo expanding sealing gasket along the total width.

Detail X

- 1. Galvanized steel element
- 2. Insulated fireproof material
- 3. "U" profile made of steel with thermo expanding sealing gasket

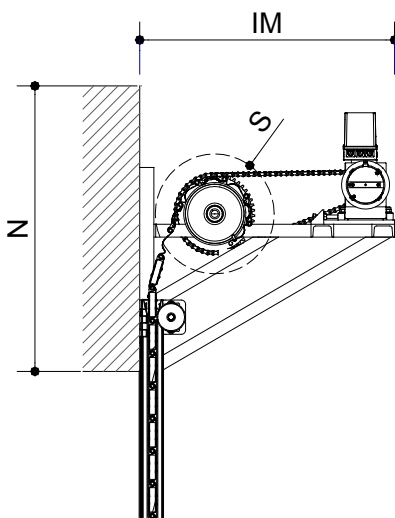


DIMENSIONS

The support system consists of two sturdy steel brackets to which is inserted the winding shaft on which the rolling shutter is wrapped. A pression tube is positioned on the internal side. In the external side instead, there is a tubular with thermo expanding gaskets to seal and contain the flames.

The frontal protection is completed with a labyrinth system that joints the frontal tubular to the mantle.

Dimension range diagram **BLOCKSHUTTER EW 120**



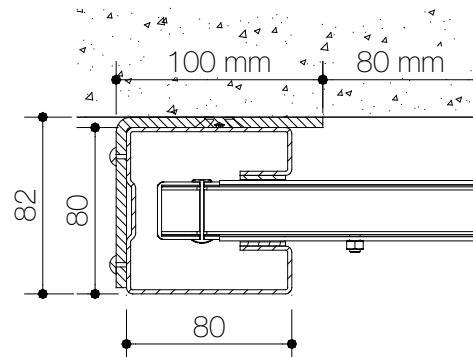
Clear height (mm)	N (mm)	S (mm)	IM (mm)
2000	900	460	1100
2500	900	500	1100
3000	900	500	1100
3500	950	570	1100
4000	950	570	1100
4500	950	570	1100
5000	1050	600	1200
5500	1050	660	1200
6000	1050	660	1200
6500	1050	660	1200
7000	1050	660	1200
7500	1150	750	1300
8000	1150	750	1300

SIDE GUIDES

Lateral side guides are made of galvanized steel and are composed of two parts, the first is a sturdy bead to be fixed to the masonry, the second is a C shaped profile where the rolling shutter mantle slides. The side guides dimensions are 80 x 80 mm (over 8.00 meters of clear width, the depth of the guides increases by 20 mm); the angular of the guide must be fixed from the width edge of the masonry at a distance of 80 mm.



upper view



Front wall installation of side guide (valid dimensions up to 8000 mm width)

Guide type	Rolling shutter dimensions max W x H (mm)	Guide dimensions max W x D (mm)
GW80	up to 12000 x 9000 (front wall fixation)	100 x 80



FIRE ROLLING SHUTTERS

BLOCKSHUTTER

EI 60 - EI 120



BLOCKSHUTTER EI 60 • EI 120 is a fire resisting roller shutter designed and tested on both sides to guarantee an integrity up to 1000 °C (E performance) and thermic insulation (I performance) for 60 and 120 minutes, in order to protect people and goods in the proximity from heat radiation generated by fire.

The mantle is composed of double-sheet galvanized steel slats, with insulation, height 110 mm, thickness 50 mm and weight of 43 Kg/sqm (EI 60) and 56 Kg/sqm (EI 120).

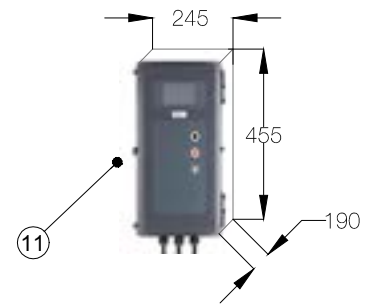
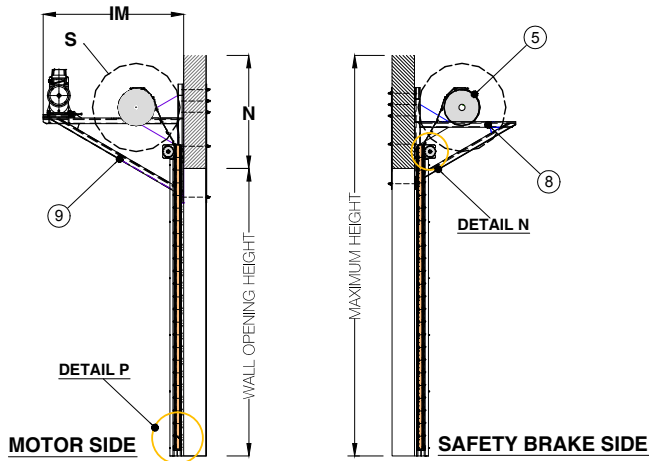
The slats are securely hooked together and fastened on the side with steel end caps in order to prevent slipping of the slats and to guarantee the uniform mantle descent.

BLOCKSHUTTER EI 60 • EI 120 is certified **WIND LOAD** resistance **class 2** according to **EN 13241-1**, **SELF-CLOSING class C2** and **CE MARKED** according to **EN 16034:2014**, **EN 13241:2016**.

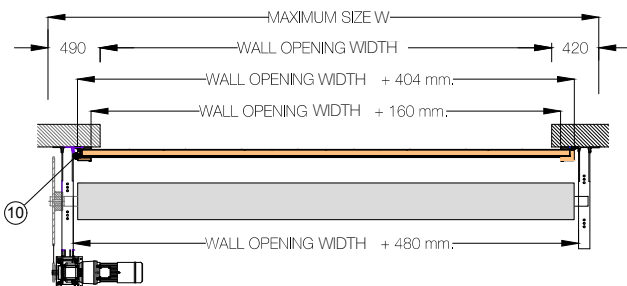
Burglar protection Class RC3. U-VALUE UD 2,2 kWm-2K-1 EI 60, UD 1,8 kWm-2K-1 EI 120



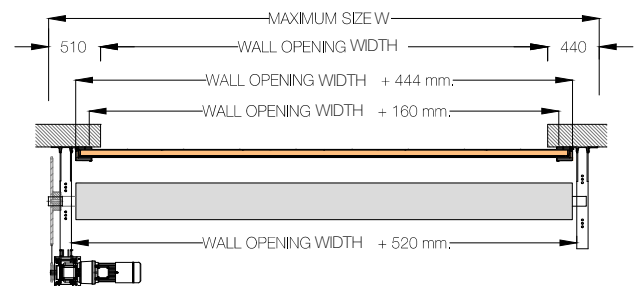
Installation scheme Type 1



DIMENSIONS FOR W < 7000 mm



DIMENSIONS FOR W > 7000 mm



Components

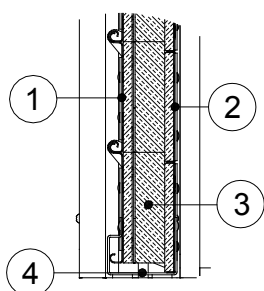
- 05. Shaft
- 08. Steel support bracket antidrop system side
- 09. Three phase motor and transmission system support bracket
- 10. Lateral steel side guides filled with fire retardant insulated material and a layer of thermoexpanding gasket on the full height
- 11. Control panel with acoustic/visual signal set, preset to be connected to the general fire/smoke alarm system.

Installation scheme Type 1

Support brackets for motor and safety brake system fixed on the wall (front fixation)

Lateral side guides fixed on the wall (front fixation)

Detail P

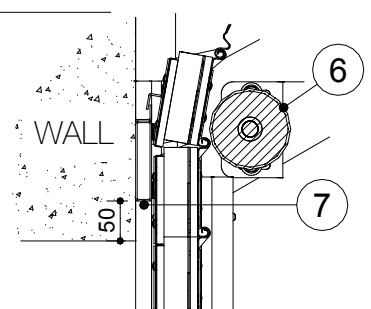


- 1. Galvanized steel internal element
- 2. Galvanized steel external element
- 3. Central profile made of insulated material
- 4. U steel profile with thermoexpanding gasket on the total width

Construction detail

Detail N

- 6. Steel push shaft
- 7. Tubular with L shaped bead with thermoexpanding gasket on the total width

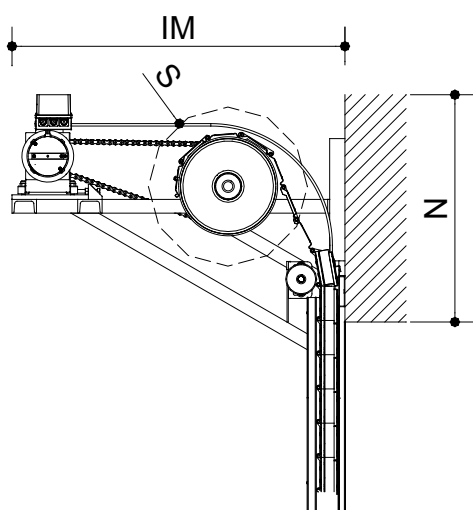


DIMENSIONS

The support system consists of two sturdy steel brackets to which is inserted the winding shaft on which the rolling shutter is wrapped. A pression tube is positioned on the internal side. In the external side instead, there is a tubular with thermo expanding gaskets to seal and contain the flames.

The frontal protection is completed with a labyrinth system that joints the frontal tubular to the mantle.

Dimension range diagram **BLOCKSHUTTER EI 60 • EI 120**



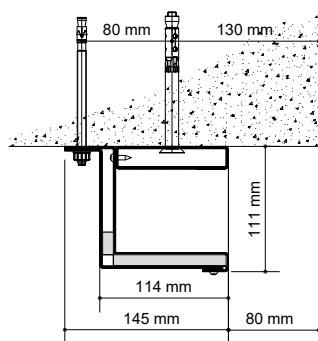
Clear Height (mm)	N (mm)	S (mm)	IM (mm)
2000	1050	650	1050
2500	1050	700	1150
3000	1150	750	1150
3500	1150	800	1300
4000	1150	800	1300
4500	1250	850	1400
5000	1250	850	1400
5500	1250	900	1500
6000	1250	900	1500
6500	1250	900	1500
7000	1350	950	1650
7500	1350	950	1650
8000	1350	1000	1650

SIDE GUIDES

BLOCKSHUTTER EI 60

The lateral side guides are made of galvanized steel, have dimensions of 145 x 111 mm (over 7 mt clear length, the depth of the guides increases by 20mm), and must be installed 80 mm from wall.

Front wall installation of side guide.



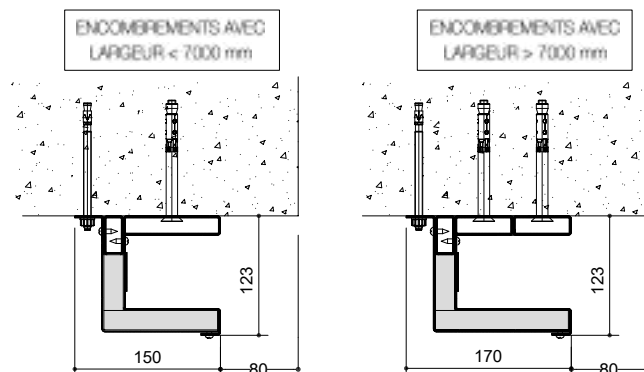
Guide type	Rolling shutter dimensions max W x H (mm)	Guide dimensions max W. x D. (mm)
GI60	up to 7000 x 6000	145 x 111

BLOCKSHUTTER EI 120

The lateral side guides are made of galvanized steel, and must be installed 80 mm from wall.

The side guides are divided into two parts, the first to be fixed to the masonry and the second part filled with insulated silicate material at least 20 mm thick to ensure thermal insulation, with thermo-expanding sealing gaskets.

Front wall installation of side guide.



Guide type	Rolling shutter dimensions max W x H (mm)	Guide dimensions max W x D (mm)
GI120_A	up to 7000 x 6000	150 x 123
GI120_B	over 7000 x 6000	170 x 123



FIRE CURTAINS

UNIKA

EI₁ 60/120 • EI₂ 120/180



UNIKA EI₁ 60/120, EI₂ 120/180 model fire curtain has been tested to ensure integrity at 1000 °C (grade E) and a seal to thermal insulation (grade I). The tightness of the thermal insulation of the side opposite to fire, guarantees a maximum average temperature of 140 °C.

It consists of a fabric assembled with multiple layers of fiberglass fabric reinforced by steel cables and intumescent fibers. Inside the fabric, to allow proper vertical tension and also to prevent the fabric from curling, the counterweight is integrated into the bottom and is invisible from the outside.

UNIKA EI₁ 60/120, EI₂ 120/180 fire curtain is supplied with a 230 V motor either external mounted or tubular. In case of external it does not require backup batteries, has built-in control logic that eliminates the major disadvantage of installing an external control unit, but most importantly has manual emergency chain maneuvering that allows the movement of the fabric in case of power failure or in case of motor malfunction.

UNIKA EI₁ 60 • EI₂ 120 is **CE MARKED** according to **EN 16034:2014, EN 13241:2016**



KEY STRENGTHS

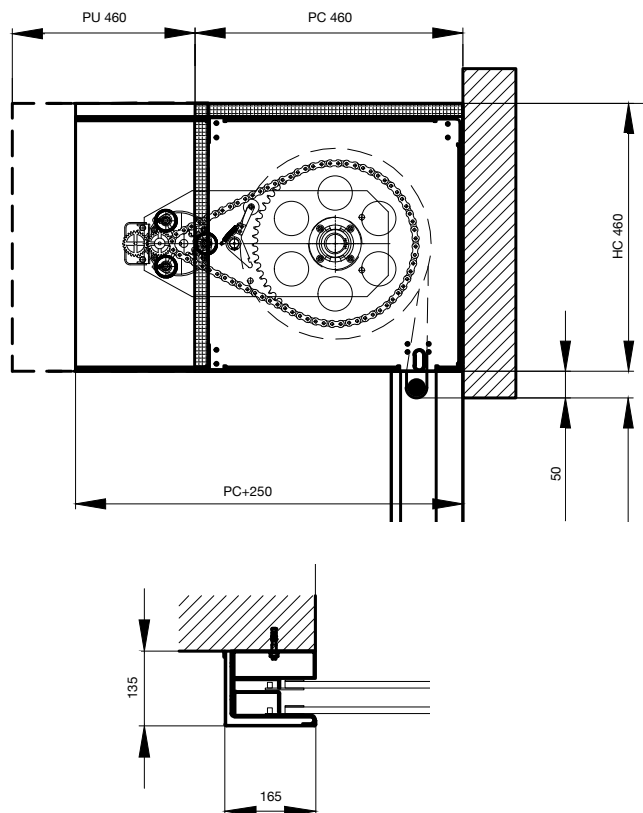
- Manual emergency lift up maneuver
- Built in logic
- Automatic re-arm after fire alarm
- Back-up battery not required
- Certified for installation on normalized flexible structure
- Side guides pre assembled
- Fabric position adjustable
- Fabric rolled up and assembled on shaft
- Head box insulation cut up to size
- Limit switches easily adjustable
- Easy motor replacement
- Gravity fail safe motor

Fire curtain dimensions W x H (mm)	Guide dimensions max W x H (mm)
min 750 x 500 max 10000 x 7500	165 x 135

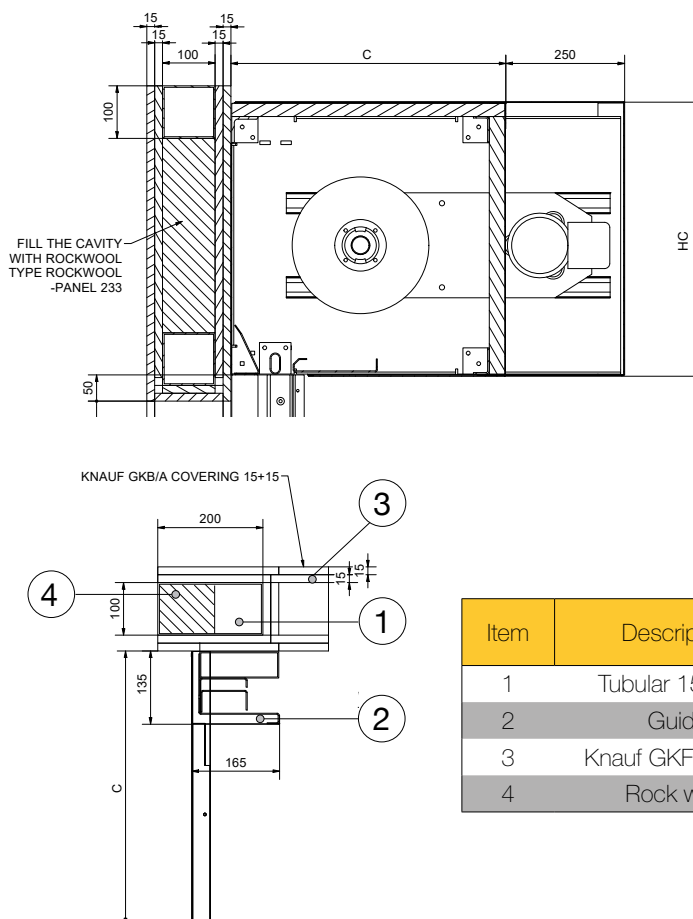
STANDARD FINISHING

Head box and guides are galvanized finishing in the standard version.

Concrete

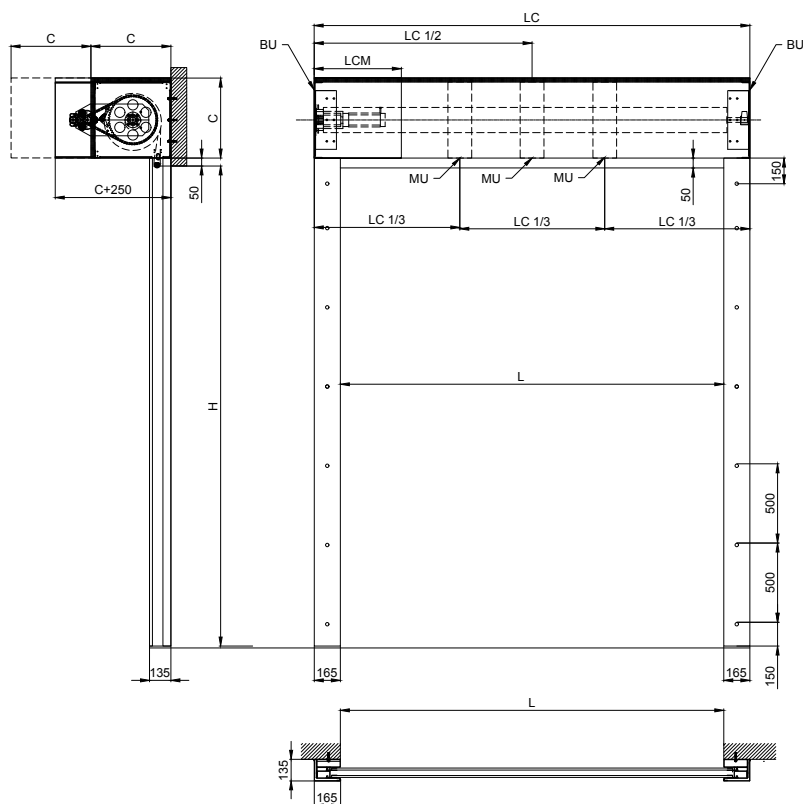


Flexible tubular structure



DIMENSIONS

CLEAR HEIGHT (MM)	Headbox dimensions mm (HC value)											
	8000	680	680	680	680	680	680	680	680	680	740	740
	7500	620	620	620	620	620	680	680	680	680	680	680
	7000	620	620	620	620	620	680	680	680	680	680	680
	6500	620	620	620	620	620	620	680	680	680	680	680
	6000	620	620	620	620	620	620	620	620	620	620	620
	5500	560	560	560	560	560	620	620	620	620	620	620
	5000	560	560	560	560	560	560	620	620	620	620	620
	4500	520	520	520	520	520	560	560	560	560	560	560
	4000	490	490	490	490	490	520	520	560	560	560	560
	3500	490	490	490	490	490	520	520	520	520	520	520
	3000	460	460	460	460	460	490	490	490	490	490	520
	2500	410	410	410	410	410	460	460	460	460	460	490
	2000	410	410	410	410	410	410	410	410	410	410	410
	1500	360	360	360	360	360	410	410	410	410	410	410
1000	360	360	360	360	360	360	360	360	360	360	360	
	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500
CLEAR WIDTH (MM)												



DRIVE AND OPERATION

Curtain with mantle weight ≤ 200 kg	
Motor	230V Tubular – BK series Electronic control unit with flashing light and siren
Backup battery	1 hour backup battery
Operation	Built in dead-man push button
Fire alarm	NC Fire alarm contact

Curtain with mantle weight > 200 kg	
Motor	External motor (230V single-phase or 400V three-phase) – JM series; chain drive for heavy-duty loads. Built in control unit. 24Vdc flashing light and siren
Manual override	Emergency chain for manual override
Operation	Direct through dead-man key switch
Fire alarm	24Vdc continuous

SAFETY AND COMPLIANCE

- ✓ A visual and audible warning device is activated simultaneously with the emergency descent to warn of the curtain's movement
- ✓ Normal operation via a push-button integrated into the control unit for tubular motors, or via a key selector for external motors; dead-man (hold-to-run) operation

- ✓ Full compliance with the **requirements of EN 12604** for the protection of people during unattended gravity-driven movement



IN COMPLIANCE WITH EN 12604

OPTIONAL ACCESSORIES

- ✓ Powder-coated finish in RAL (headbox and guides)
- ✓ Pre-coated finish in colours similar to RAL 8019, 9002, 9010, 9006 (headbox and guides)
- ✓ Smoke detector or thermal detector
- ✓ Fixing kit
- ✓ Automation Kit



FIRE CURTAINS

PRATIKA

EI₁ 30 - EI₂ 60 - EW 90



PRATIKA is the new generation of fire-resistant roller curtains tested on both sides, designed to guarantee integrity and thermal insulation for up to 90 minutes, with EI₁ 30 - EI₂ 60 - EW 90 certifications.

Compact, in compliance with European standards, and designed to blend into any architectural context, PRATIKA combines a high-performance multi-layer insulating fabric with a Gravity Fail Safe security system, ensuring automatic closure even in the event of a power failure.

The result is a reliable solution engineered for extreme conditions, offering real protection, easy installation, and simplified operation.

PRATIKA EI₁ 30, EI₂ 60, EW 90 is CE MARKED according to EN 16034:2014, EN 13241:2016

NEW

KEY STRENGTHS

- More compact than traditional systems Safe even without power
- Reliable: certified EI₁ 30, EI₂ 60, EW 90
- Suitable for industrial and commercial environments
- Easy to install
- Certified for installation on flexible tubular structure

GRAVITY FAIL SAFE

The GRAVITY FAIL SAFE system is the signature feature of the PRATIKA curtain EI₁ 30 - EI₂ 60 - EW 90.

Upon a signal from the fire alarm control panel or in the event of a power failure, the brake is released and the curtain descends by gravity, operating mechanically and autonomously without any electrical power.

The descent is controlled and maintained at a constant speed throughout its travel.

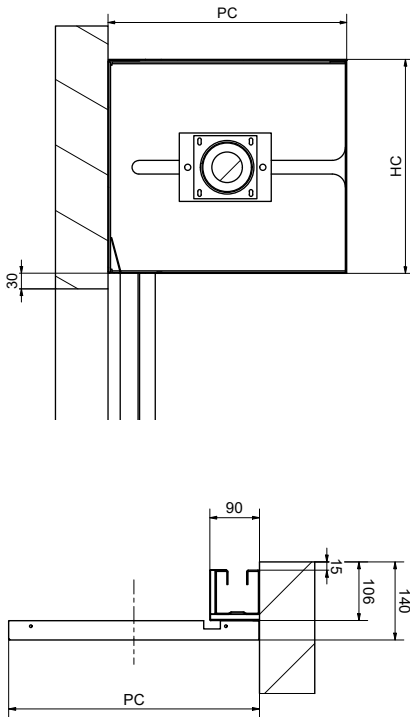
Fire curtain dimensions W x H (mm)	Guide dimensions W x D max (mm)
min 750 x 500 max 6500 x 8000	90 x 90

STANDARD FINISHING

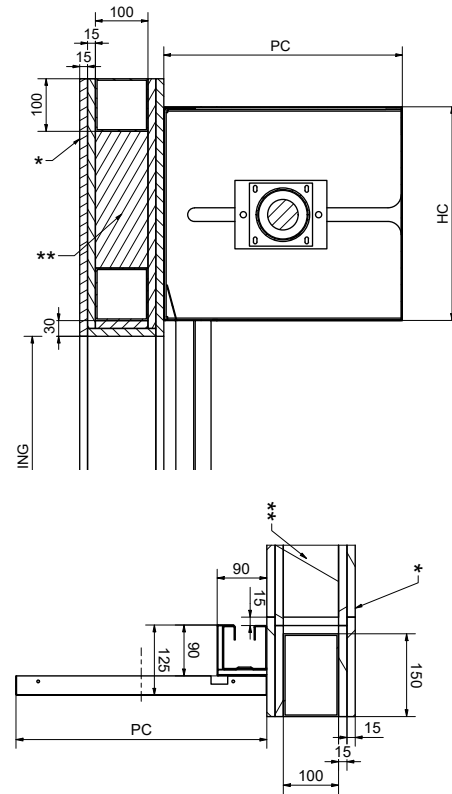
Head box and guides are galvanized finishing in the standard version.



Concrete



Flexible tubular structure

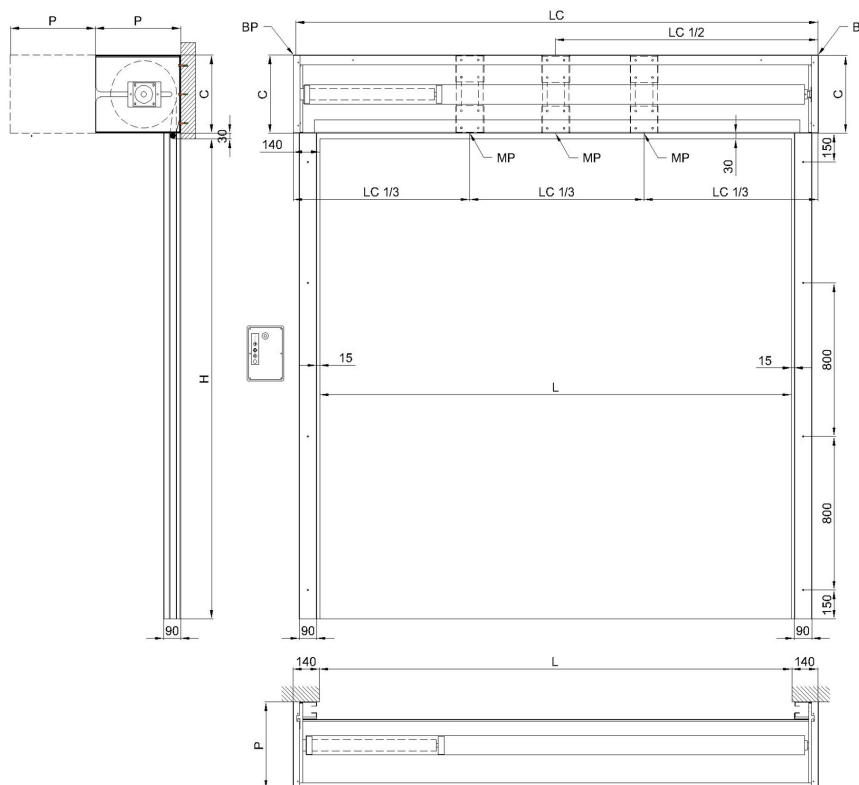


Headbox dimensions mm (HC value)													
CLEAR HEIGHT (MM)	6000	500	500	500	500	500	500	500	500	500	500	500	500
	5750	500	500	500	500	500	500	500	500	500	500	500	500
	5500	500	500	500	500	500	500	500	500	500	500	500	500
	5250	500	500	500	500	500	500	500	500	500	500	500	500
	5000	450	450	450	450	450	450	500	500	500	500	500	500
	4750	450	450	450	450	450	450	500	500	500	500	500	500
	4500	450	450	450	450	450	450	500	500	500	500	500	500
	4250	450	450	450	450	450	450	450	500	500	500	500	500
	4000	450	450	450	450	450	450	450	450	450	450	500	500
	3750	400	400	400	400	400	400	450	450	450	450	450	450
	3500	400	400	400	400	400	400	450	450	450	450	450	450
	3250	400	400	400	400	400	400	450	450	450	450	450	450
	3000	400	400	400	400	400	400	400	400	450	450	450	450
	2750	400	400	400	400	400	400	400	400	400	400	400	450
	2500	350	350	350	350	350	350	400	400	400	400	400	400
	2250	350	350	350	350	350	350	400	400	400	400	400	400
	2000	350	350	350	350	350	350	350	350	350	350	400	400
	1750	300	300	300	300	300	300	350	350	350	350	350	350
	1500	300	300	300	300	300	300	350	350	350	350	350	350
	1200	300	300	300	300	300	300	350	350	350	350	350	350
	1000	250	250	250	250	250	250	300	300	300	300	300	300
750 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500													
CLEAR WIDTH (MM)													

Installation requirements	
Type of mounting	Over the opening on masonry support or a standardized flexible tubular structure (100 × 100 coated with two plasterboards 15 mm)
Minimum thickness of the support	160 mm
Minimum density of the rigid support	≥ 450 kg/m ³
Anchoring	Steel Anchors

HC VALUE

Type	PC	HC
A	250	250
B	300	300
C	380	350
D	450	400
E	500	450
F	500	500



DRIVE AND OPERATION

Curtain with mantle weight ≤ 200 kg	
Motor	230V Tubular – BK series Electronic control unit with flashing light and siren
Backup battery	1 hour backup battery
Operation	Built in dead-man push button
Fire alarm	NC Fire alarm contact

Curtain with mantle weight > 200 kg	
Motor	External motor (230V single-phase or 400V three-phase) – JM series; chain drive for heavy-duty loads. Built in control unit. 24Vdc flashing light and siren
Manual override	Emergency chain for manual override
Operation	Direct through dead-man key switch
Fire alarm	24Vdc continuous

SAFETY AND COMPLIANCE

- ✓ A visual and audible warning device is activated simultaneously with the emergency descent to warn of the curtain's movement
- ✓ Normal operation via a push-button integrated into the control unit for tubular motors, or via a key selector for external motors; dead-man (hold-to-run) operation

- ✓ Full compliance with the **requirements of EN 12604** for the protection of people during unattended gravity-driven movement



IN COMPLIANCE WITH EN 12604

OPTIONAL ACCESSORIES

- ✓ Powder-coated finish in RAL (headbox and guides)
- ✓ Pre-coated finish in colours similar to RAL 8019, 9002, 9010, 9006 (headbox and guides)
- ✓ Smoke detector or thermal detector
- ✓ Fixing kit
- ✓ Automation Kit



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