

## DESCRIPTION

BACHFIRE EW 120 is an Automatic Fire Curtain with EW 120 classification that, in the case of a fire, limits and controls the fire and, reduces radiation emission less than 15 kW/m<sup>2</sup>.K at 1m of distance from the fabric.

The curtain is composed of fibreglass fabric with aluminum foil on both sides seamed with reinforced steel wire and fixed to a steel roller of 78 mm in diameter. Galvanized steel elements such as headbox, side guides and bottom bar.

The entire system is driven by a 24V tubular motor and controlled by an electronic board. Built-in CRM (Control and Regulation for Engine) with special gravity fail-safe system. Control panel for automatic curtains (CBM) with a nominal input voltage of 115 V or 220 V and output voltage of 24 V. Uninterruptible power supply (UPS System) with an autonomy of up to 6 hours available in all control panels.

Tested in accordance with EN 1634-1 and classified in accordance with EN 13501-2, it also complies with the conditions and procedures for CE Marking provided for EN 16034 standards.

## CLASSIFICATION

EW 30

EW 60

EW 90

EW 120



## OPERATION

The system can be activated by a SHEV, fire alarm contact, internal fire and smoke detection devices, or manual emergency buttons. In the event of a fire, the Control Panel (CBM), receives the signal alarm, and the automatic curtain deploys automatically, with a controlled and safe constant speed of descent even following total power loss on all curtains. If there is a false alarm the curtains return to the stand-by position automatically after resetting the alarm from the main Fire Management System. In case of main power loss, the curtain will remain fully retracted for up to 6 hours thanks to the battery backup system.

## FABRIC

The fibreglass fabric has low radiation properties and resists up to 1,100°C. Radiation is less than 15 kW/m<sup>2</sup>.K at 1 meter distance. All seams are done with reinforced stainless steel wires with a coating of Kevlar.

## HEADBOX

Galvanized Steel headbox 1.2 mm thickness with different possibilities to adapt to different architectural spaces, and maintenance requirements. Dimensions of the headbox vary depending on the width and height of the curtain.

## SIDE GUIDES

Galvanized Steel from 1.5 to 3 mm thickness and different dimensions depending on width and height of the curtain.

## ROLLER

Galvanized Steel of 1.5 mm thickness and 78 mm diameter. Special slide system for fixing the fabric.

## BOTTOM BAR

Galvanized Steel of 1.5 mm thickness. Two-part system, easy to mount.

## ELECTRIC MOTOR

**Tubular motor:** 24 V.  
**Maximum power:** 24 W/ 18 Nm.  
**Maximum current:** 3 A.  
**Average linear speed:** 0.10 m/ s to 0.15 m/ s.

## CRM MOTOR REGULATION BOX

Polyester box IP56 with an electronic board inside to control the movement of the motor.  
**Dimensions (WxHxD):** 120 x 160 x 75 mm.

## CBM CONTROL PANEL

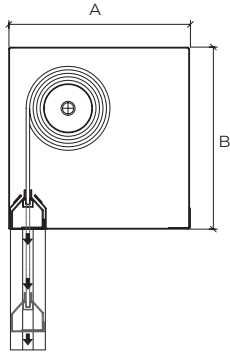
Receives the signal alarm from Fire Management System and controls the curtains' movement.  
Visual and acoustic alert system.  
**Dimensions (Wx HxD):** from 300 x 230 x 140 mm to 400 x 500 x 210 mm.  
**Input:** 115 or 220 V 50 Hz.  
**Output:** 24 V.  
**Battery:** 2 x 12 V 7.5 Ah rechargeable (up to 6 hours autonomy).  
**Maximum capacity:** up to 12 motors.

## OPTIONAL EXTRAS

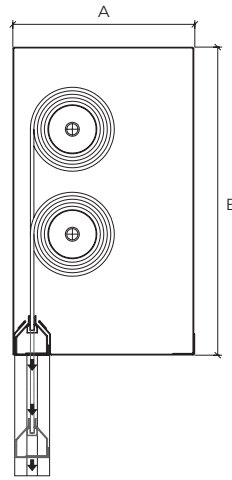
**RAL coating:** headbox, side guides, bottom bar and false ceiling extra accessories.  
**Stainless steel elements:** headbox, side guides, bottom bar, screws, rivets.  
**Headbox:** customized set-up for specific architectural or special operational requirements.  
**Side guides:** customized set-up for specific architectural or special operational requirements.  
**Bottom bar:** aluminum profile painted RAL 9003 (white) to use with false ceiling accessories.  
**False ceiling accessories:** aluminum profiles painted RAL 9003 to hide headbox over the false ceiling.  
**Electric motor:** special 24 V motors up to 80 Nm without CRM. Special 230 V motors up to 120 Nm without CRM.  
**CRM:** customized board for high speed deployment.  
**CBM control panel:** special designs up to 48 motors in one control panel, additional information output, micro switches, communication with other devices, special battery backup, possibility of delaying curtain deployment.  
**Escape button:** pushing this button the curtain goes up and the user can escape through the opening, the curtain deploys 30s later automatically.  
**Emergency button:** pushing this button the curtain deploys immediately.

*Note: other requirements and customized solutions on demand.*

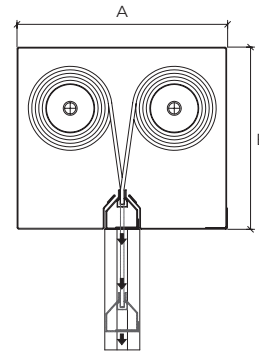
## HEADBOX



**SINGLE ROLLER**  
A: 180-260 mm  
B: 180-260 mm

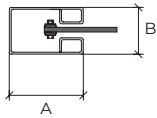


**MULTI ROLLER VERTICAL**  
A: 190-270 mm  
B: 300-500 mm

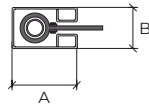


**MULTI ROLLER HORIZONTAL**  
A: 250-400 mm  
B: 170-260 mm

## SIDE GUIDES

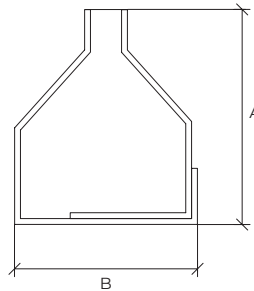


**SCREW SIDE GUIDES STANDARD**  
A: 80-100 mm  
B: 50-50 mm



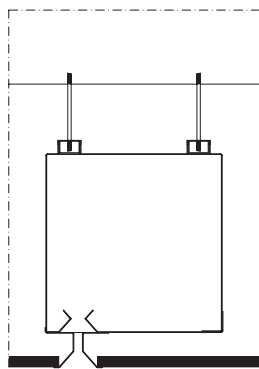
**TUBE SIDE GUIDES HIGH PRESSURE AREAS**  
A: 100-120 mm  
B: 50-76 mm

## BOTTOM BAR

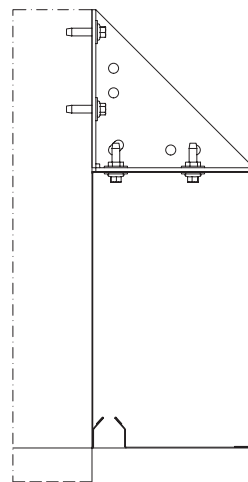


**GALVANIZED STEEL**  
A: 55 mm  
B: 47 mm

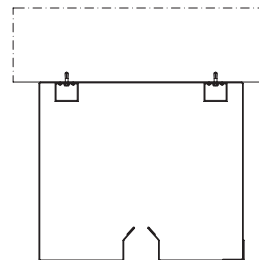
## HEADBOX INSTALLATION



**HANGING/FALSE CEILING**

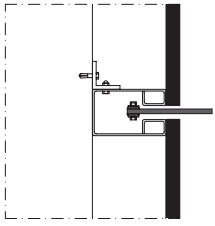


**WALL**

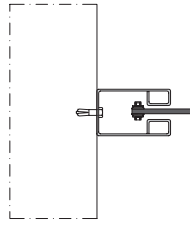


**TOP CEILING**

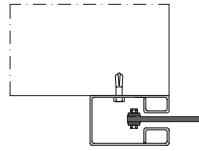
## SIDE GUIDES INSTALLATION



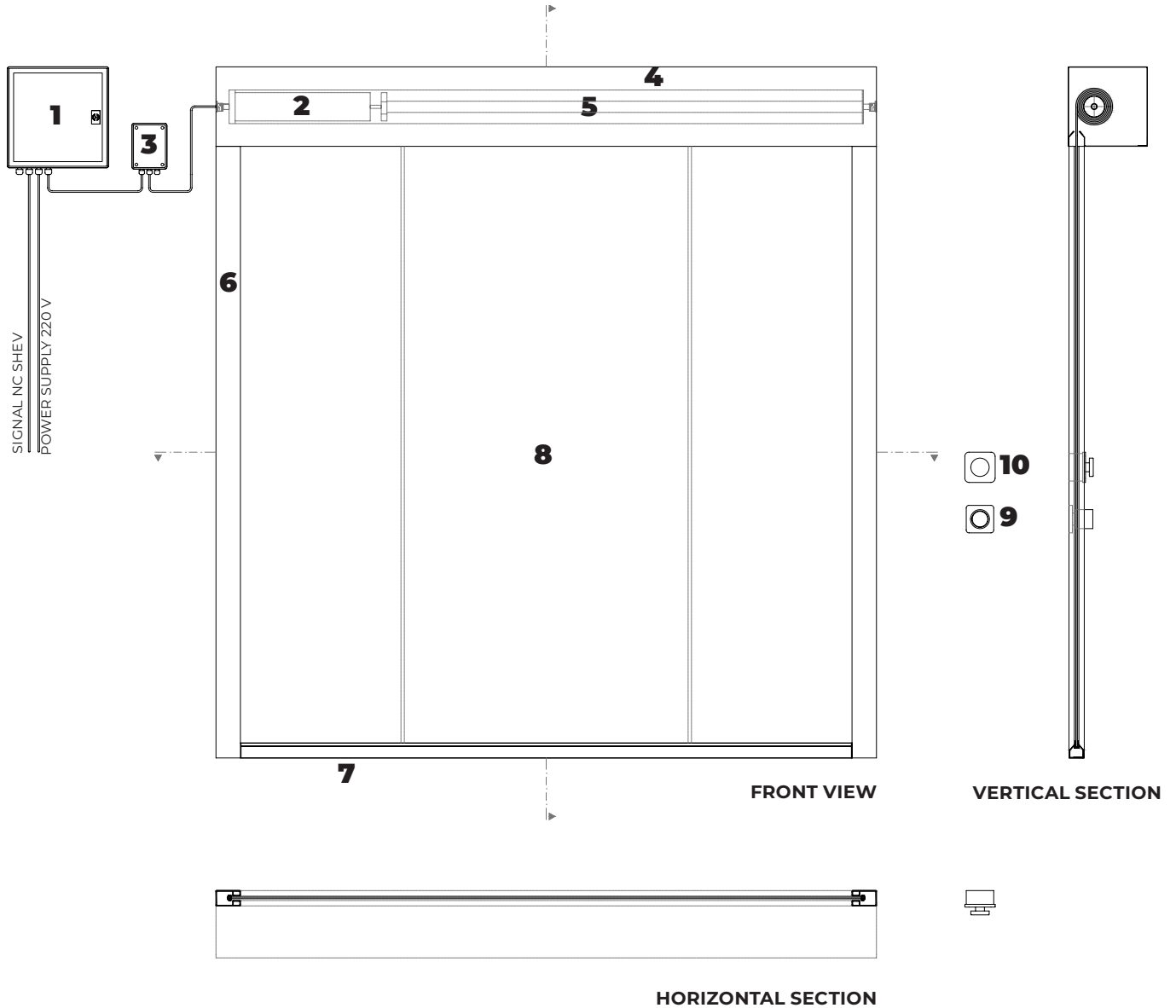
HIDDEN



BACK WALL



SIDE WALL



- |                                 |                                 |
|---------------------------------|---------------------------------|
| 1. control panel CBM            | 6. galvanized steel side guides |
| 2. tubular motor 24 V           | 7. galvanized steel bottom bar  |
| 3. CRM electronic control board | 8. fire resistant fabric        |
| 4. galvanized steel headbox     | 9. escape button                |
| 5. galvanized steel roller      | 10. emergency button            |