BACHSMOKE EV ▭

TRIA
SPAIN

CE

DESCRIPTION

BACHSMOKE EV is an Automatic Smoke Curtain that in the case of fire, limits and controls the movement of smoke, with classification DA, besides allowing evacuation of people in the case of fire.

The curtain is composed by fiberglass fabric with polyurethane coating on both sides seamed with high resistant kevlar wire and fixed to a steel roller of 78 mm of diameter; galvanized steel headbox. Stripped textile shape for passing through.

All the system is driven by a 24 V tubular motor and controlled by an electronic board, CRM (Control and Regulation for Motor) with special *Gravity Fail Safe System*. The 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 autonomy up to 6 hours exists in all control panels.

Tested and approved according to the European Standard UNE EN 12101-1 and with CE Marking.

CLASSIFICATION

DA

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 controlled and safe constant speed of descent even following total power loss on all curtains. When the curtain is completely deployed the users can pass through it keeping smoke protection. If there is a false alarm the curtains return to stand-by position automatically after reset of alarm from main Fire Management Systems. In case of main power loss, the curtain will remain fully retracted up to 6 hours thanks to the battery backup system.

FABRIC

The fiberglass fabric resists up to 600°C. The polyurethane coating on both sides guarantees mechanical stability when handling the fabric not only in the sewing process but also during the installation. All seams are done with high resistance Kevlar wire.

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.

ROLLER

Galvanized Steel of 1,5 mm thickness and 78 mm diameter. Special slide system for fixing the fabric. The system always has a minimum of two rollers.

BOTTOM BAR

Rod steel bars, inserted in rubber foam to avoid any damage while evacuating.

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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.
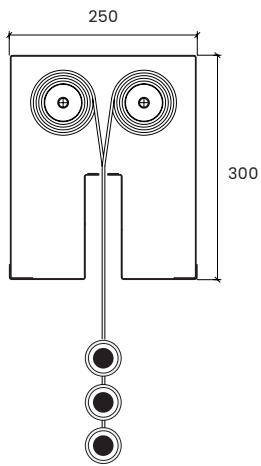**Dimensions (W x H x D):** 120 x 160 x 75 mm.

CBM CONTROL PANEL

Receives the signal alarm from the Fire Management System and controls the movement of curtains. Visual and acoustic alert system.
Dimensions (W x H x D): from 300 x 230 x 140 mm to 400 x 400 x 210 mm.
Input: 115 or 220 V 50Hz.
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.
Stainless steel elements: headbox, screws, rivets.
Headbox: customized set-up for specific architectural or special operational 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.
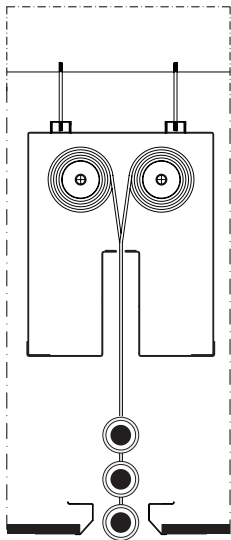**Emergency button:** pushing this button the curtain deploys immediately.

Note: other requirements and customized solutions on demand.

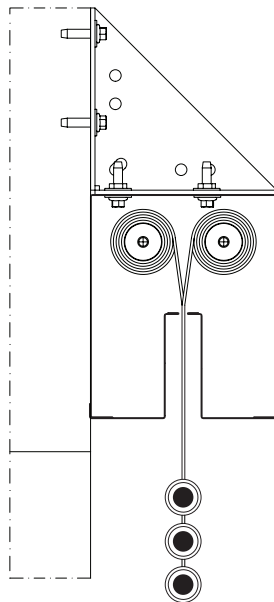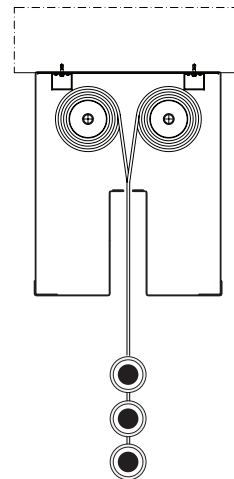## HEADBOX

250

300

MULTI ROLLER HORIZONTAL

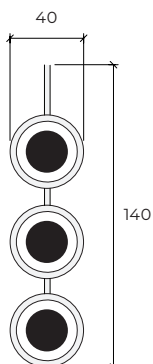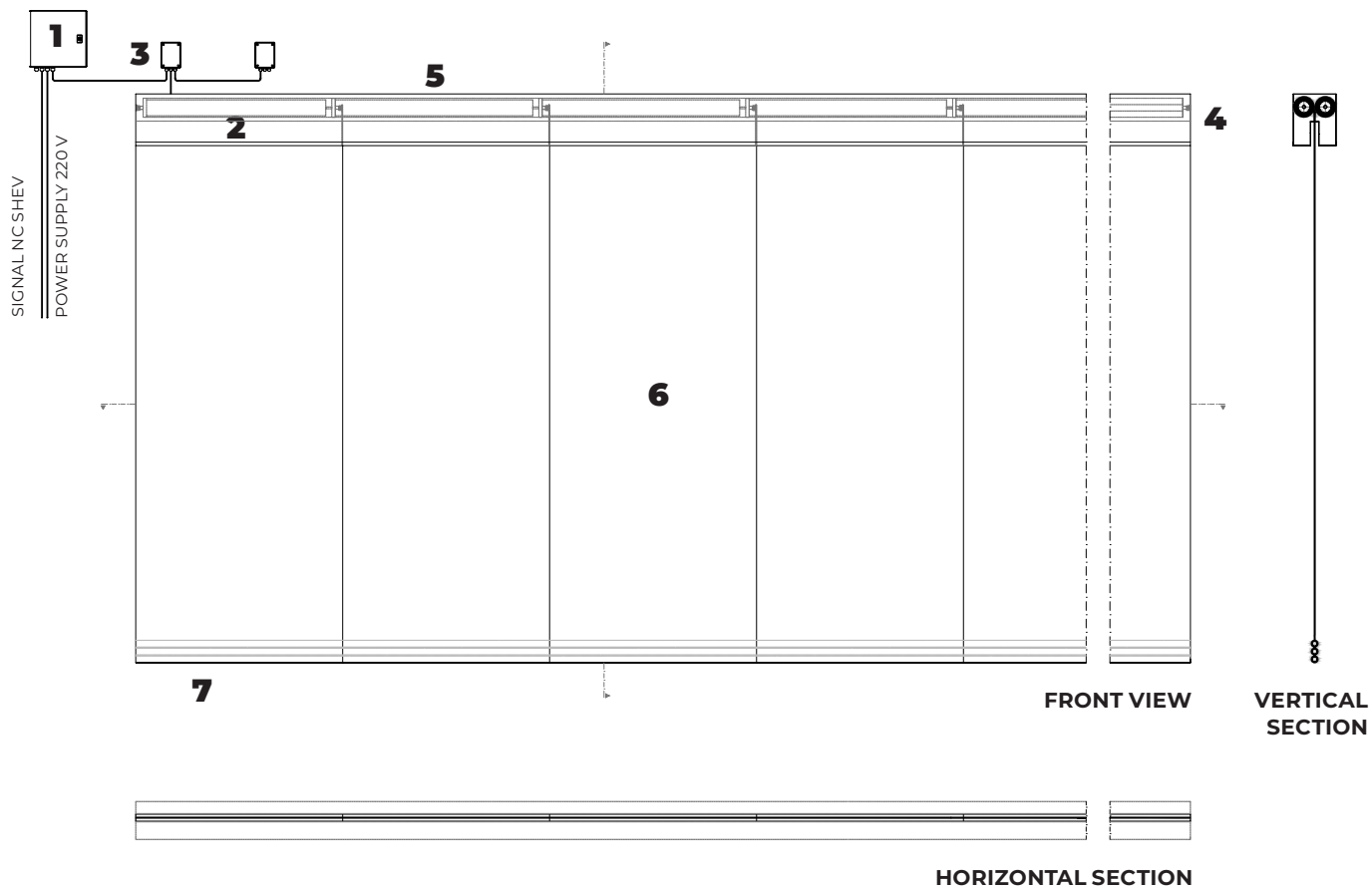## HEADBOX INSTALLATION

**HANGING
FALSE CEILING**

WALL

TOP CEILING

BOTTOM BAR

40

140

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SIGNAL NC SHEV

POWER SUPPLY 220 V

FRONT VIEW

VERTICAL SECTION

HORIZONTAL SECTION

1. control panel CBM
2. tubular motor 24 V
3. CRM electronic control board
4. galvanized steel headbox
5. galvanized steel roller
6. smoke resistant fabric
7. strip independent mild bottom bar
   (curtain stop 5 cm above the ground)