BACHFIRE UL10D ■

DESCRIPTION

BACHFIRE UL10D is an Automatic Fire Curtain that in the case of fire, limits and controls the fire, with classification UL 10D 180 minutes.

The curtain is composed of: fibreglass fabric with polyurethane coating on both sides seamed with reinforced steel wire and fixed to a steel roller of 78mm in diameter; galvanized steel elements as headbox, side guides and bottom bar. The system is driven by a 24 V tubular motor and controlled by an electronic board, the 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 an output voltage of 24 V.

Uninterruptible Power Supply (UPS System) with autonomy for up to 6 hours exists in all control panels.

Tested and approved according to UL10D:2014 "Standard for Fire Tests of Fire Protective Curtain Assemblies" with APF certificate.

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VERS. 03**22**

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 the 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 of 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 resists up to 1,100°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 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 in thickness and different dimensions 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.

BOTTOM BAR

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

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ELECTRIC MOTOR

Tubular motor: 24 V.
Maximum power: 24 W/ 18 Nm.
Maximum current: 3 A.
Average linear speed: 0.11 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 movement of curtains. Visual and acoustic alert system.
Dimensions (WxHxD): 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) for using 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.

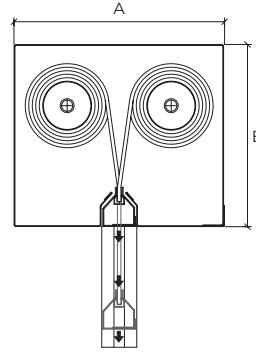*Note: other requirements and customized solutions on demand.*

HEADBOX
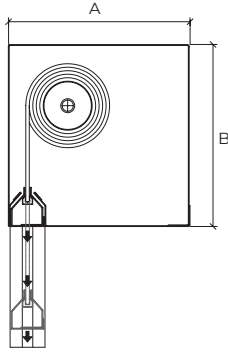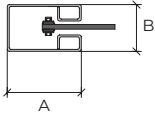

SINGLE ROLLER
A: 180-260 mm
B: 180-260 mm
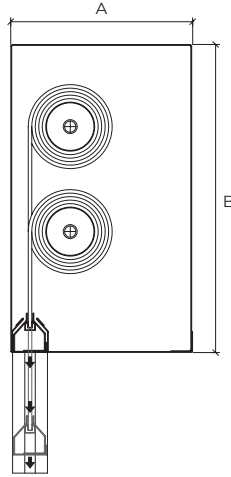
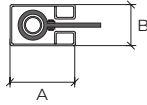**MULTI ROLLER VERTICAL**
A: 190-270 mm
B: 300-500 mm

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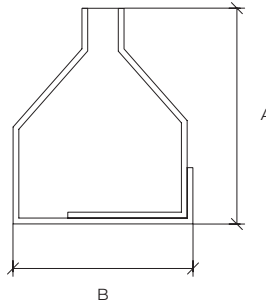B: 170-260 mm

SIDE GUIDES

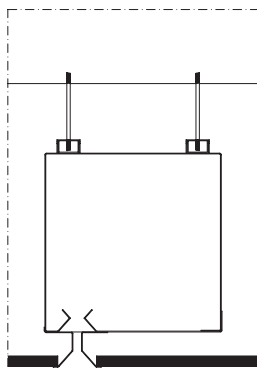**SCREW SIDE GUIDES STANDARD**
A: 80-100 mm
B: 50-50 mm

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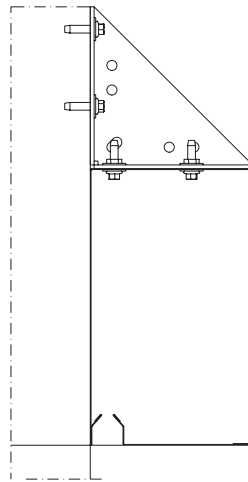A: 100-120 mm
B: 50-76 mm
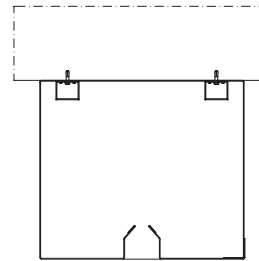
BOTTOM BAR

GALVANIZED STEEL
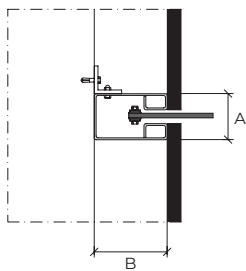A: 55 mm
B: 47 mm

HEADBOX INSTALLATION

HANGING FALSE CEILING

WALL

TOP CEILING

TRIA
SPAIN

SIDE GUIDES INSTALLATION

HIDDEN
A: 50-76 mm
B: 80-120mm
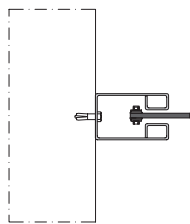
BACK WALL

SIDE WALL

SIGNAL NC S HEV

POWER SUPPLY 220 V

FRONT VIEW

VERTICAL SECTION

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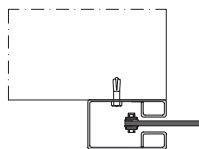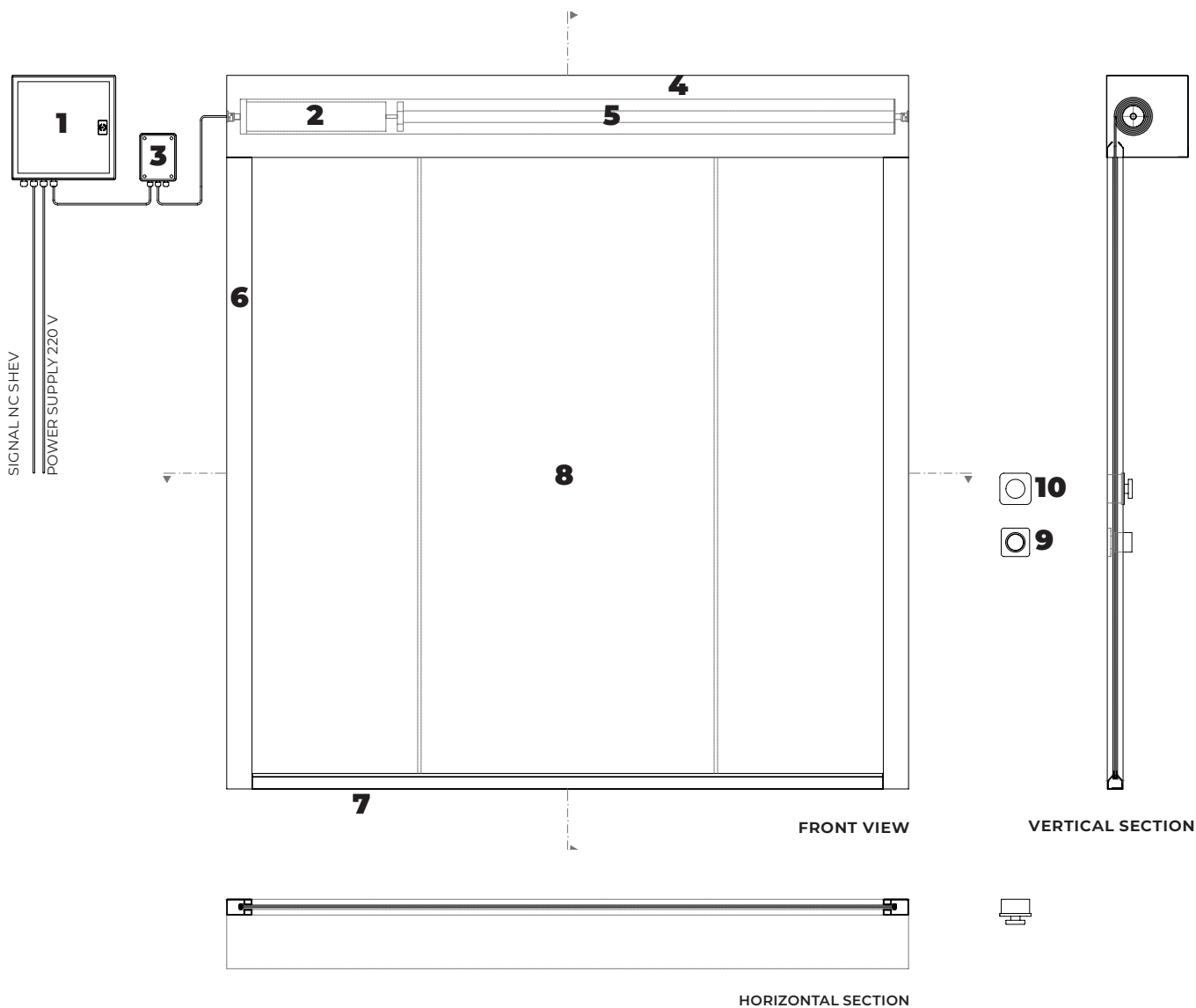
1. control panel CBM	**6.** galvanized steel side guides
2. tubular motor 24 V	**7.** galvanized steel bottom bar
3. CRM electronic control board	**8.** fire resistant fabric
4. galvanized steel headbox	**9.** escape button
5. galvanized steel roller	**10.** emergency button