



Product features

BACH FIRE Z E120 is an Automatic Fire Curtain that in the case of fire, limits and controls the fire, with classification E120. This system can be adapted to irregular geometric perimeters open or close ones in order to avoid vertical beams.

The curtain is composed by: fiberglass fabric with polyurethane coating on both sides seamed with reinforced steel wire and fixed to a 2mm plate inside head-box and to the bottom bar; galvanized steel elements as head-box, side guides and bottom bar.

All the system is driven by at least one 24Vdc tubular motor with special gravity fail safe system.

The control panel for automatic curtains (CBM), has nominal input voltage of 115Vac or 220Vac and output voltage of 24Vdc. Uninterruptible Power Supply (UPS System) with autonomy up to 6 hours exists in all control panels.

Tested and approved according to the European Standards UNE EN 1634-1 and UNE EN 1363-1.

Description of 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 BACH's 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. If there are side guides the system must be reset manually, 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 BACH's battery back-up system.



- ❶ Control panel CBM
- ❷ BACH Tubular Motor 24Vdc
- ❸ Galvanized Steel Head-box
- ❹ Galvanized Steel Roller
- ❺ Galvanized Steel bottom bar
- ❻ Lifting steel strips
- ❼ Concertina fabric

Definition/Classification

E .Integrity Flames and hot gases are contained on side exposed fire

EW .Integrity .Low Radiation in addition to containing flames and gases, the temperature and damage on the non-exposed side of the fire are limited

Test and standarts

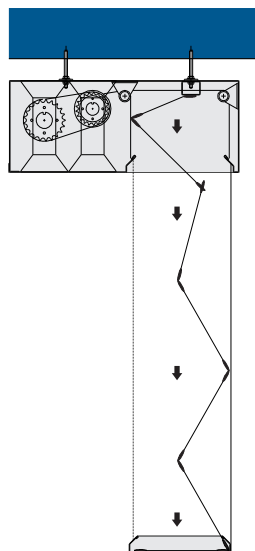
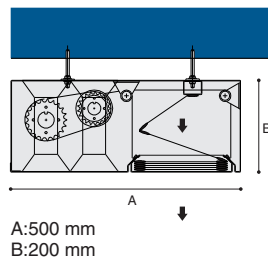
.Technical assessment of suitability
 .Registration in CTE recognized certificationtest and resistance classification **E120** according to norms:
 .Tested and approved according to the European Standards **UNE EN 1634-1 y UNE EN 1363-1.**

Applications

Usually installed in logistics centers, industries, nuclear power plants, agri-food industries, shops, theaters, sports centers,.....

Technical details

Headbox

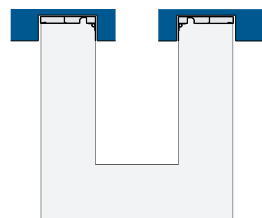


Headbox detail fabric up

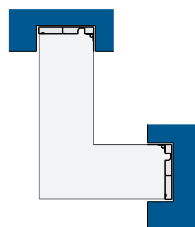


Headbox detail fabric down

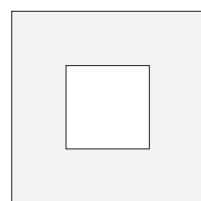
Plant perimeter types



U Shape

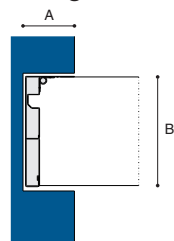


L Shape



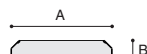
O Shape

Side guide fixing



Side guides for open perimeter
A: 275 mm
B: 120 mm

Bottom bar



Galvanized steel
A: 220 mm
B: 37 mm

Fabric

The fiberglass fabric resists up to 1100°C sewed as a concertina shape. 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 head-box 1,2mm thickness with different possibilities to adapt to different architectural spaces, and maintenance requirements. Dimensions of the head-box varies depending on width and height of the curtain

Side guides

Galvanized Steel from 1,5 to 3mm thickness and different dimensions depending on width and height of the curtain

Roller

Galvanized Steel of 1,5mm thickness and 78mm diameter

Bottom bar

Galvanized Steel of 1,5mm thickness

Electric Motor

BACH tubular motor 24Vdcc
Maximum power 60 W/30Nm
Maximum current 6A
Average linear speed: 0.09 m/s

CBM Control Panel

Receives the signal alarm from Fire Management System and controls the movement of curtains
Dimensions: 400x400x250mm
Input: 115 or 220 Vac 50Hz
Output: 24 Vcc
Battery: 2 x 12Vcc 7,5 Ah rechargeable. (up to 6 hours autonomy)
Visual and acoustic alert system

Optional Extras

RAL coating – head-box, side guides and bottom bar
Stainless Steel Elements – Head-box, Side guides, bottom bar, screws, rivets.
Bottom bar – Possibility to attach false ceiling cover
Electric Motor – Special 24Vdc motors up to 80Nm without CRM; Special 230Vac motors up to 120Nm without CRM.
CBM Control Panel – Special designs with 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.
Other requirements and customized solutions on demand.