



BACH

D  
120

DH  
120



# BACHSMOKE Z

smoke curtain system

## Product features

**BACHSMOKE Z** is an Automatic Smoke Curtain that in the case of fire, limits and controls the movement of smoke, with classification D120. This system can be adapted to irregular geometric perimeters open or closed 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, 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 y 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 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

D

**.Integrity** Curtain material achieves a resistance to smoke at 600°C for a minimum of 120 minutes

## Test and standarts

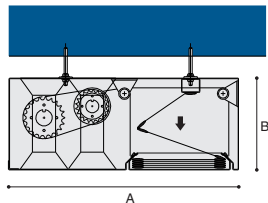
.Technical assessment of suitability  
.Registration in CTE recognized certificationtest and resistance classification E120 according to norms:  
.Tested and approved according to the European Standards UNE EN 1634-1 y UNE EN 1363-1.

## Applications

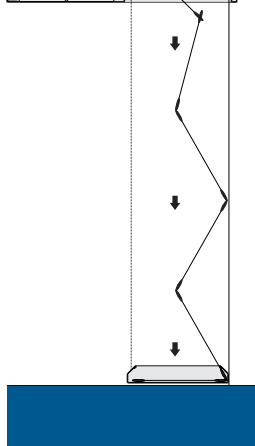
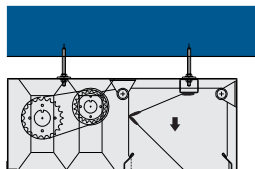
Usually installed in logistics centers, industries, nuclear power plants, agri-food industries, shops, theaters, sports centers,....

## Technical details

### Headbox



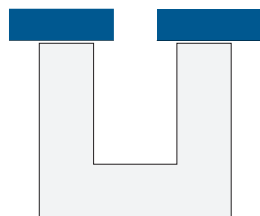
A: 500 mm  
B: 200 mm



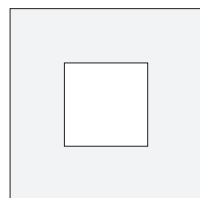
Headbox detail fabric up

Headbox detail fabric down

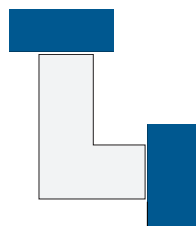
### Plant perimeter types



U Shape

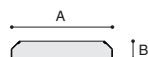


O Shape



L Shape

### 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

### 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  
Consumption 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, bottom bar and false ceiling extra accessories.  
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.