



BACH

D  
180



# BACHSMOKE DA

smoke curtain system



## Product features

**BACHSMOKE DA is an Automatic Smoke Curtain that in the case of fire, limits and controls the movement of smoke, with classification D180.**

**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 78mm of diameter; galvanized steel head-box and Aluminum profile bottom bar.**

**All the system is driven by a 24Vdc tubular motor and controlled by an electronic board, BACH's CRM (Control and Regulation for Motor) with special gravity fail safe system.**

**The control panel for automatic curtains (CBM), with 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 Standard UNE EN 12101-1 and with CE Marking.**

## 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 CRM Electronic control board
- ❹ Galvanized Steel Head-box
- ❺ Galvanized Steel Roller
- ❻ Galvanized Steel bottom bar
- ❼ Fire resistant fabric

## Definition/Classification

D

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

## Test and standarts

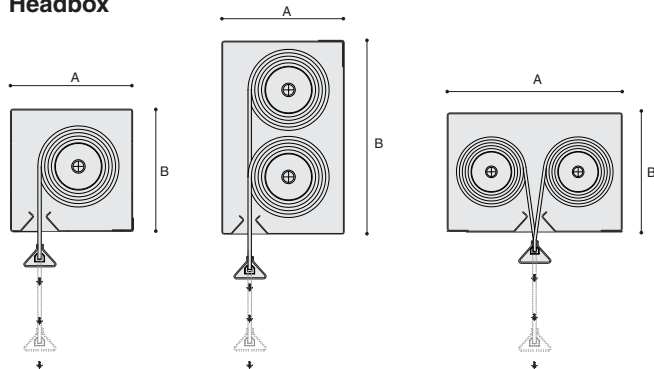
.Technical assessment of suitability  
.Registration in CTE recognized certifications test and resistance classification **D180** according to norms:  
.Tested and approved according to the European Standard **UNE EN 12101-1** and with CE Marking.

## Applications

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

## Technical details

### Headbox

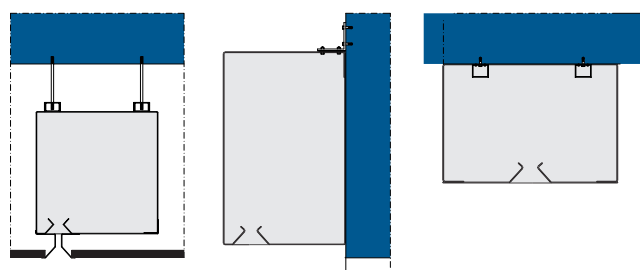


Single roller  
A: 180 to 220 mm  
B: 180 to 220 mm

Multi roller vertical  
A: 190 to 220 mm  
B: 300 to 350 mm

Multi roller/horizontal  
A: 250 to 300 mm  
B: 170 to 200 mm

### Headbox fixing



Hanging/false ceiling

Wall

Top ceiling

### Bottom bar



Aluminum  
A: 48 mm  
B: 33 mm

### 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 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. Special slide system for fixing the fabric

### Bottom bar

Aluminum profile RAL 9003 white painted of 1,8mm thickness

### Electric Motor

BACH tubular motor 24Vdc  
Maximum power 24 W/18,5Nm  
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: 120mm width x 160 height mm x 75mm deep

### CBM Control Panel

Receives the signal alarm from Fire Management System and controls the movement of curtains  
Dimensions: from 300x300x210mm to 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  
Maximum capacity: up to 12 motors

### Optional Extras

RAL coating – head-box, side guides, bottom bar and false ceiling extra accessories  
Stainless Steel Elements – Head-box, screws, rivets.  
Head-box – Customized set-up for specific architectural or special operational requirements  
False Ceiling Accessories – Aluminum profiles painted RAL 9003 to hide head-box over false ceiling  
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  
Other requirements and customized solutions on demand