



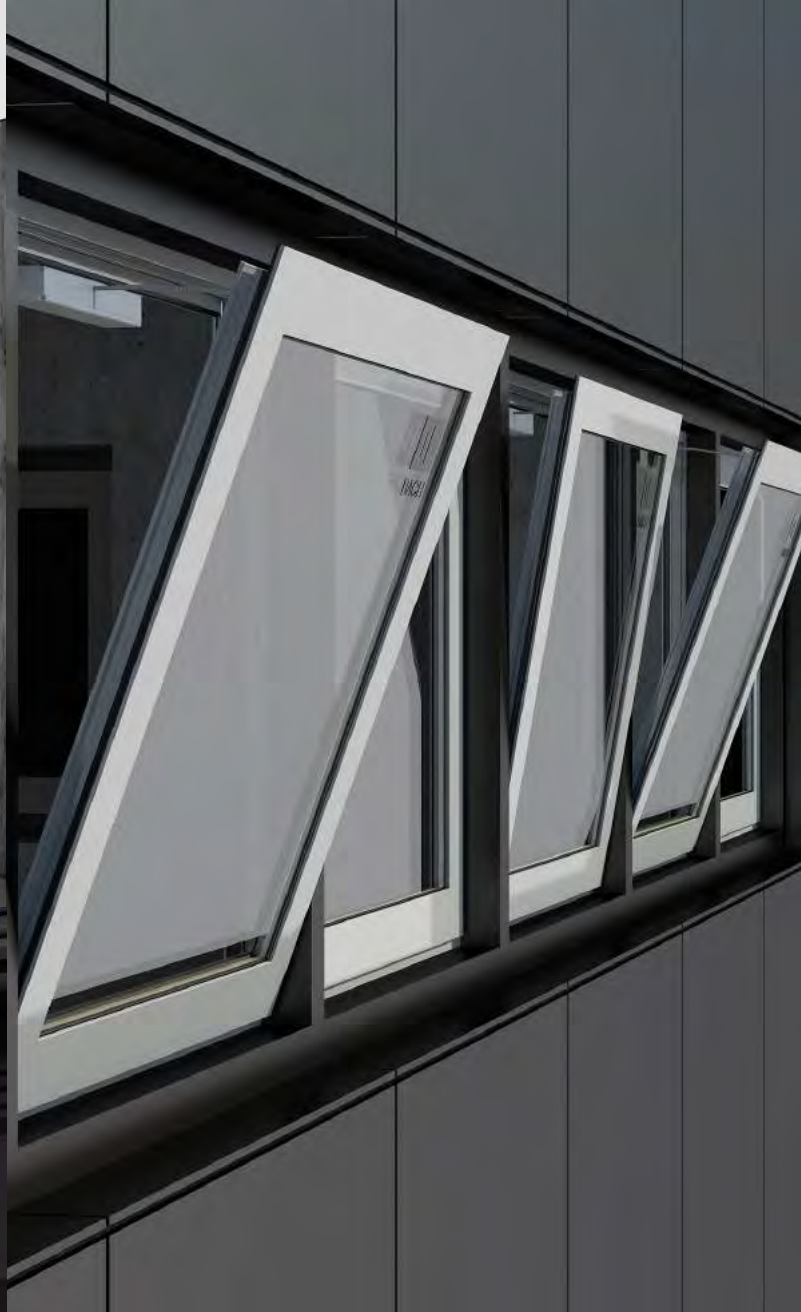
BACH



# CATALOGUE

Fire protection systems





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FIRE CURTAINS







## Product features

BACH FIRE E120 is an Automatic Fire Curtain that in the case of fire, limits and controls the fire, with classification E120.

The curtain is composed by: fiberglass fabric with polyurethane coating on both sides seamed with reinforced steel wire and fixed to a steel roller of 78mm of diameter; galvanized steel elements as head-box, side guides and 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 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 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 Side Guides
- ❼ Galvanized Steel bottom bar
- ❽ Fire resistant fabric
- ❾ Escape button
- ❿ Emergency button

### 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

**Sa** .Smoke tightness smoke tightness at ambient temperature only

### Test and standarts

.Technical assessment of suitability

.Registration in CTE recognized certificationtest and resistance classification

**E180 E120 E60 EW20 and SA** according to norms:

**Fabric**

The fiberglass fabric resists up to 1100°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 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. Special slide system for fixing the fabric

**Bottom bar**

Galvanized Steel of 1,5mm thickness and. Two-parts system easy to mount

**Electric Motor**

BACH tubular motor 24Vdcc  
Maximum power 24 W/18,5Nm  
Maximum current 3 A  
Average linear speed: 0.11 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, Side guides, bottom bar, screws, rivets

Head-box – 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 RAL9003 to hide head-box over false ceiling

Electric Motor – Special 24Vdc motors up to 80Nm without CRM; Special 230Vac motors up to 120Nm without CRM

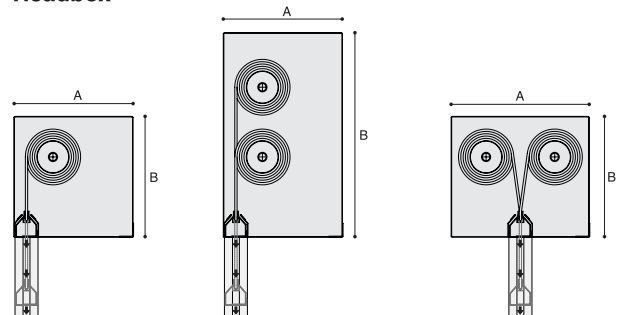
CRM – Customized board for high speed deployment.

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 automaticall

Emergency Button – Pushing this button the curtain deploys immediately

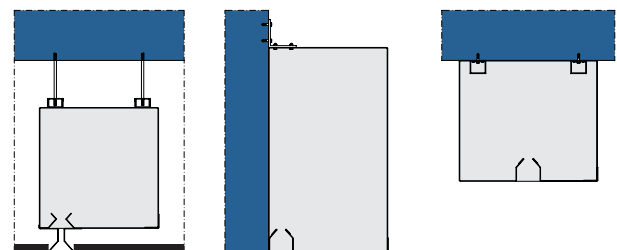
Other requirements and customized solutions on demand

**Technical details****Headbox**

Single roller  
A: 180 to 260 mm  
B: 180 to 260 mm

Multi roller vertical  
A: 190 to 260 mm  
B: 300 to 440 mm

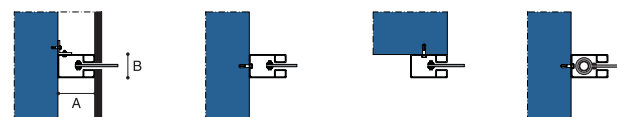
Multi roller/horizontal  
A: 250 to 400 mm  
B: 170 to 250 mm

**Headbox fixing**

Hanging/false ceiling

Wall

Top ceiling

**Side guides fixing**

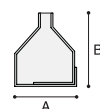
Hidden

Side wall

Front

Tube side guides

A: 80 mm to 120 mm  
B: 50 mm to 76 mm

**Bottom bar**

Galvanized steel  
A: 47 mm  
B: 55 mm

**Applications**

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

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



## Product features

BACH FIRE EW60 is an Automatic Fire Curtain that in the case of fire, limits and controls the fire, reduces radiation emission less than 15 kW/m<sup>2</sup>.K at 1m of distance from the fabric, with classification EW60.

The curtain is composed by: fiberglass fabric with Aluminum foil on both sides seamed with reinforced steel wire and fixed to a steel roller of 78mm of diameter; galvanized steel elements as head-box, side guides and 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.

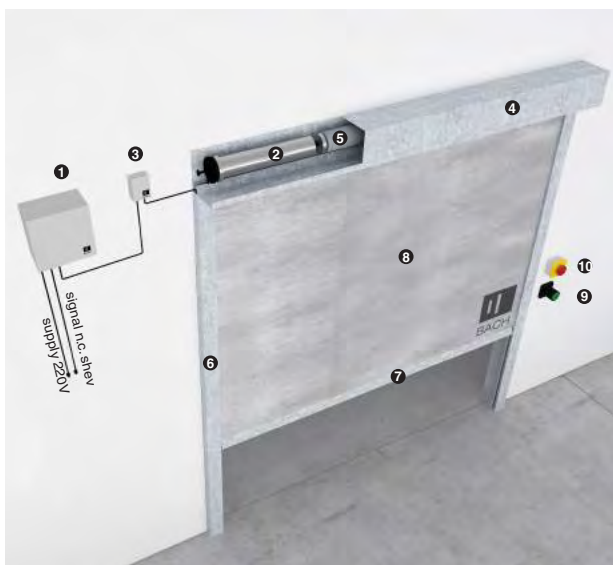
Tested and approved according to the European Standards UNE EN 1634-1 and UNE EN 1363-1.

## 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 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 Side Guides
- ❼ Galvanized Steel bottom bar
- ❽ Fire resistant fabric
- ❾ Escape button
- ❿ Emergency button

### Definition/Classification



#### .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

**E180 E120 E60 EW20** and **SA** according to norms:



**Fabric**

The fiberglass fabric has low radiation properties and resists up to 1100°C. Radiation is less than 15 kW/m<sup>2</sup>.K at 1 meter distance. 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. Special slide system for fixing the fabric

**Bottom bar**

Galvanized Steel of 1,5mm thickness and. Two-parts system easy to mount

**Electric Motor**

BACH tubular motor 24Vdccc  
Maximum power 24 W/18,5Nm  
Maximum current 3 A  
Average linear speed: 0.11 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, Side guides, bottom bar, screws, rivets

Head-box – 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 RAL9003 to hide headbox over false ceiling

Electric Motor – Special 24Vdc motors up to 80Nm without CRM; Special 230Vac motors up to 120Nm 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)

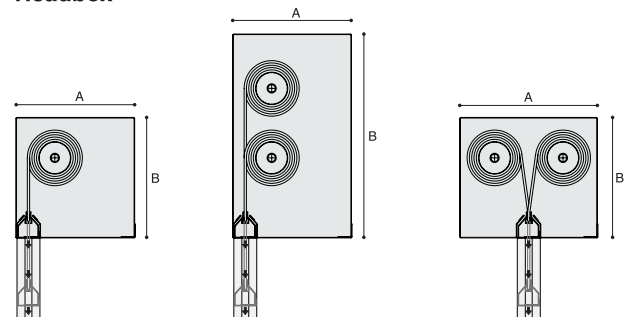
Escape Button – Pushing this button the curtain goes up and the user can escape through the opening, the curtain deploys 30s later automatically

Emergency Button – Pushing this button the curtain deploys immediately

Other requirements and customized solutions on demand

**Technical details**

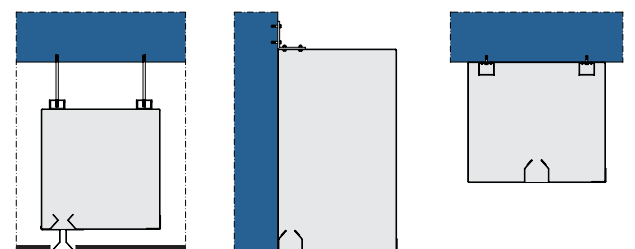
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**Headbox**

Single roller  
A:180 to 260 mm  
B:180 to 260 mm

Multi roller vertical  
A:190 to 260 mm  
B:300 to 440 mm

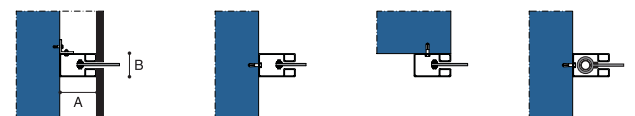
Multi roller/horizontal  
A:250 to 400 mm  
B:170 to 250 mm

**Headbox fixing**

Hanging/false ceiling

Wall

Top ceiling

**Side guides fixing**

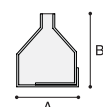
Hidden

Side wall

Front

Tube side guides

A: 80 mm to 120 mm  
B: 50 mm to 76 mm

**Bottom bar**

Galvanized steel  
A: 47 mm  
B: 55 mm

**Applications**

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

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



## Product features

BACH SUPERFIRE EI120 is an Automatic Fire Curtain that in the case of fire, limits and controls the fire, reduces not only radiation emission but also heat transfer creating isolation from the fabric so that protection of people and goods is maximized, with classification EI120.

The curtain is composed by: fiberglass fabric coated on both sides and seamed with reinforced steel wire and fixed to a steel roller of 78mm of diameter; galvanized steel elements as head-box, side guides and bottom bar; irrigation system for the opposite side of the fire.

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 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. A solenoid valve connected to BACH's control panel can activate the irrigation system. 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 Side Guides
- ❼ Galvanized Steel bottom bar
- ❽ Fire resistant fabric
- ❾ Escape button
- ❿ Emergency button
- ⓫ Solenoide Valve
- ⓬ Sprinkler
- ⓭ Thermal Sensor

### Definition/Classification

E

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

### Test and standarts

.Technical assessment of suitability

.Registration in CTE recognized certificationtest and resistance classification

**E120** according to norms:



### Fabric

The fiberglass fabric has low radiation, high isolation properties and resists up to 1100°C. 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. Special slide system for fixing the fabric.

### Bottom bar

Galvanized Steel of 1,5mm thickness and. Two-parts system easy to mount.

### Electric Motor

BACH tubular motor 24Vdcc

Maximum power 24 W/18,5Nm

Maximum current 3 A

Average linear speed: 0.11 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

### Irrigation System

A solenoid valve connected to BACH's control panel can activate the irrigation system with a delay of 3 minutes for standard. As an option, the solenoid valve can be dependent on a thermal sensor in order to avoid water spray in false alarm conditions, so even if there is a fire alarm the irrigation system doesn't work until the sensor reaches 77°C.

In this case and for safety reasons, the irrigation system will not be activated until this 3 conditions meet together, 1st - fire alarm and 2nd - Three minutes delay and 3rd - Thermal Sensor is under 77°C.

The number of sprinklers depends on the area of each system. The fluid conditions are the following:

Water Flow  $\geq 3.8$  l/min/m<sup>2</sup>

Pressure  $\geq 1.4$  bar

### Optional Extras

Hidden irrigation system inside the head box

Thermal Sensor for irrigation - Electronic Sensor 24Vcc to activate solenoid at 77°C.

RAL coating - head-box, side guides, bottom bar and false ceiling extra accessories Stainless Steel Elements - Head-box, Side guides, bottom bar, screws, rivets

Head-box - 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 RAL9003 to hide head-box over false ceiling

Electric Motor - Special 24Vdc motors up to 80Nm without CRM; Special 230Vac motors up to 120Nm without CRM

CRM - Customized board for high speed deployment

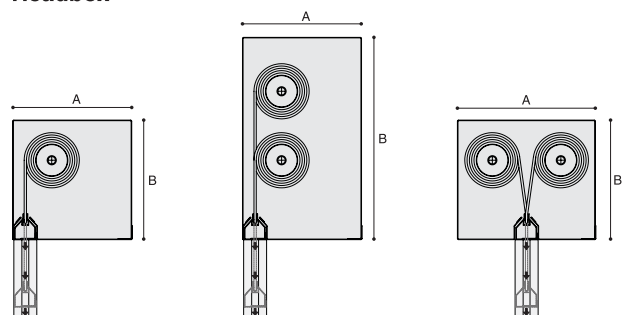
CBM Control Panel - Special designs up to 48 motors in one control panel, additional information output, micro switches, communication with other devices, special battery backup, possibility of delaying curtain deployment)

Escape Button - Pushing this button the curtain goes up and the user can escape through the opening, the curtain deploys 30s later automatically

Other requirements...

## Technical details

### Headbox

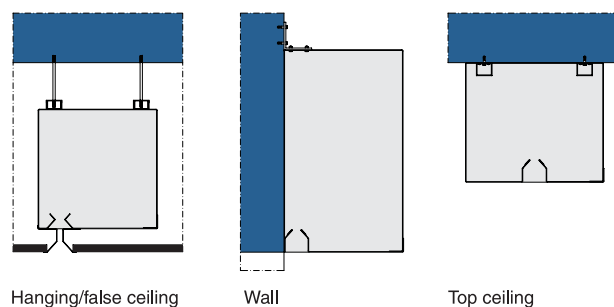


Single roller  
A:180 to 260 mm  
B:180 to 260 mm

Multi roller vertical  
A:190 to 260 mm  
B:300 to 440 mm

Multi roller/horizontal  
A:250 to 400 mm  
B:170 to 250 mm

### Headbox fixing

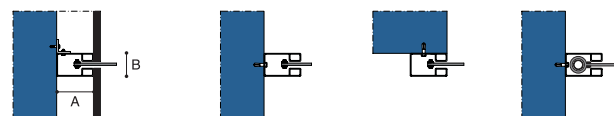


Hanging/false ceiling

Wall

Top ceiling

### Side guides fixing



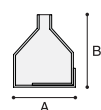
Hidden  
A: 80 mm to 120 mm  
B: 50 mm to 76 mm

Side wall

Front

Tube side guides

### Bottom bar



Galvanized steel  
A: 47 mm  
B: 55 mm

## Applications

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

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



## 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:



**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 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.

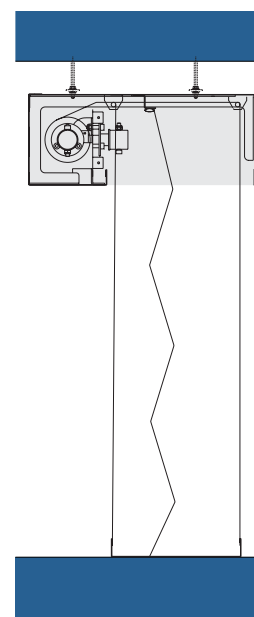
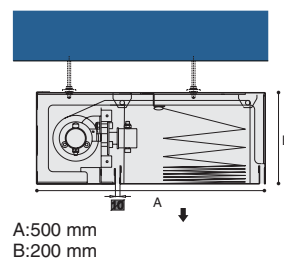
Bottom bar – Possibility to attach false ceiling cover

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

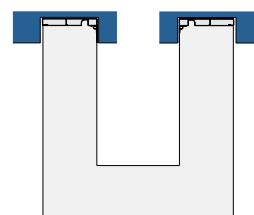
Emergency Button – Pushing this button the curtain deploys immediately.

Other requirements and customized solutions on demand.

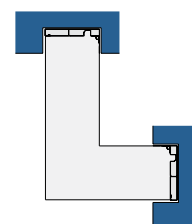
**Technical details  
Headbox**

Headbox detail fabric up

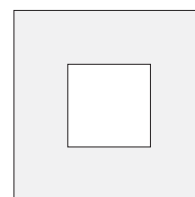
Headbox detail fabric down

**Plant perimeter types**

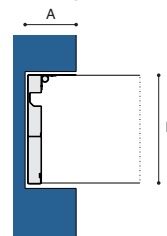
U Shape



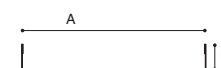
L Shape



O Shape

**Side guide fixing**

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

**Bottom bar**

Galvanized steel  
A: 287 mm  
B: 40 mm

**Applications**

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



## Product features

BACH FIRE H is a Horizontal Automatic Fire Curtain that in the case of fire, limits and controls the fire, with classification E120.

The curtain is composed by: fiberglass fabric with polyurethane coating on both sides seamed with reinforced steel wire and fixed to a two steel rollers of 78mm of diameter; galvanized steel elements as head-box, side guides and bottom bar.

All the system is driven by two 24Vdc tubular motors, in opposite sides. The control panel for automatic curtains (CBM), has nominal input voltage of 115Vac or 220Vac and output voltage of 24Vdc.

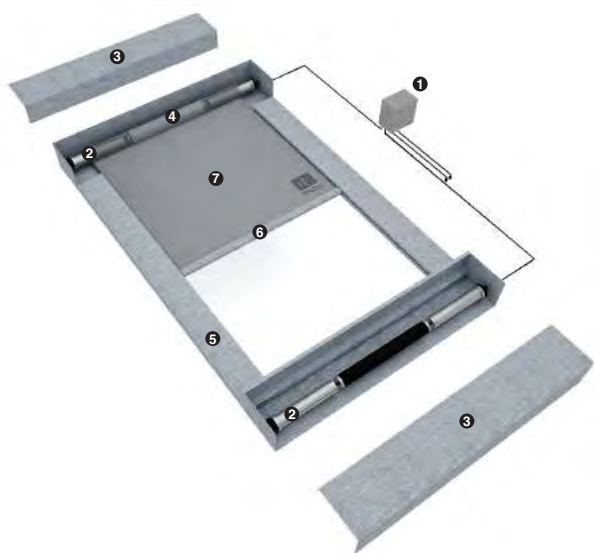
Uninterruptible Power Supply (UPS System) with autonomy up to 6 hours exists in all control panels.

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, at constant speed. 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 be ready to be activated with batteries at least during the next 24h.



- ❶ Control panel CBM
- ❷ BACH Tubular Motor 24Vdc
- ❸ Galvanized Steel Head-box
- ❹ Galvanized Steel Roller
- ❺ Galvanized Steel Side Guides
- ❻ Galvanized Steel bottom bar
- ❼ Fire resistant 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

**Sa** .Smoke tightness smoke tightness at ambient temperature only

### Test and standarts

.Technical assessment of suitability

.Registration in CTE recognized certificationtest and resistance classification E120 according to norms:



**Fabric**

The fiberglass fabric resists up to 1100°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 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. Special slide system for fixing the fabric

**Bottom bar**

Galvanized Steel of 1,5mm thickness and. Two-parts system easy to mount

**Electric Motor**

BACH tubular motor 24Vdcc  
Maximum power 24 W/18,5Nm  
Average linear speed: 0.08 m/s

**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

**Optional Extras**

RAL coating – head-box, side guides, bottom bar

Stainless Steel Elements – Head-box, Side guides, bottom bar, screws, rivets

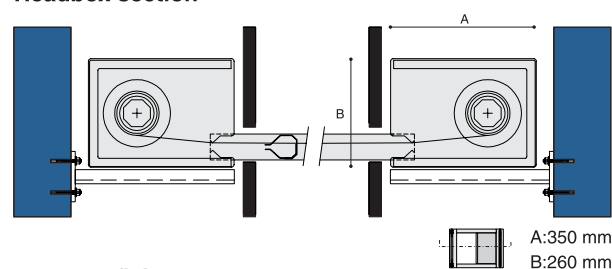
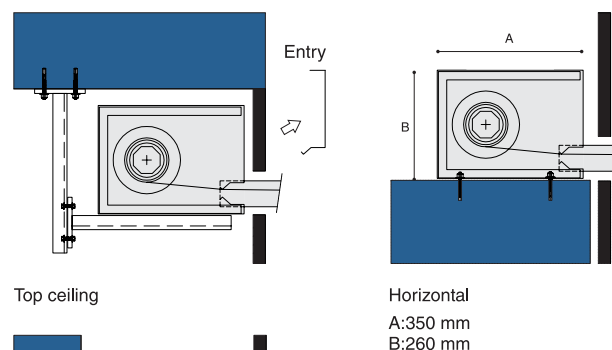
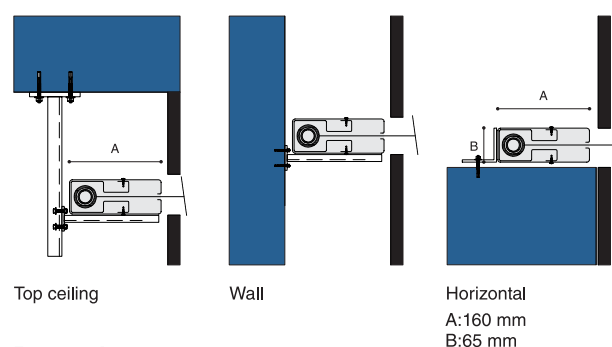
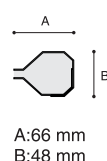
Head-box – Customized set-up for specific architectural or special operational requirements.

Side guides – Customized set-up for specific architectural or special operational requirements

Bottom bar – Customized set-up for specific architectural or special operational requirements

Electric Motor – Special 24Vdc motors up to 80Nm without CRM; Special 230Vac motors up to 120Nm without CRM

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

**Technical details****Headbox section****Headbox fixing****Side guides fixing****Bottom bar****Applications**

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



## Product features

BACH FIRE UL 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 by: fiberglass fabric with polyurethane coating on both sides seamed with reinforced steel wire and fixed to a steel roller of 78mm of diameter; galvanized steel elements as headbox, side guides and 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.

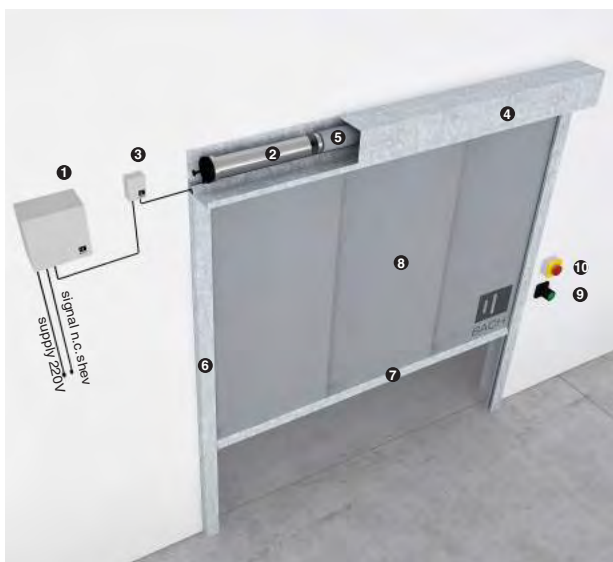
The control panel for automatic curtains (CBM), with nominal input voltage of 115Vac or 220Vac and output voltage of 24Vdc.

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

Tested and approved according to the European Standards UNE EN 1634-1 and UNE EN 1363-1 and UL - USA standards for fire protection.

## 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 Side Guides

❼ Galvanized Steel bottom bar

❽ Fire resistant fabric

❾ Escape button

❿ Emergency button

### Definition/Classification



Fire Tests of Fire Protective Curtain Assemblies

### Test and standarts

.Technical assessment of suitability

.Registration in CTE recognized certificationtest and resistance classification E120 according to norms:

## Fabric

The fiberglass fabric resists up to 1100°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 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. Special slide system for fixing the fabric

## Bottom bar

Galvanized Steel of 1,5mm thickness and. Two-parts system easy to mount

## Electric Motor

BACH tubular motor 24Vdccc  
Maximum power 24 W/18,5Nm  
Consumption 3 A  
Average linear speed: 0.11 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

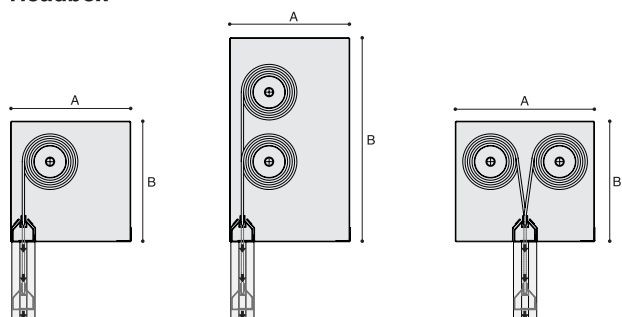
Receives the signal alarm from Fire Management System and controls the movement of curtains  
Dimensions: from 300x300x210mm to 400x400x250mm  
Input: 115 or 220 Vac 50Hz Output: 24 Vcc  
Battery: 2 x 12Vcc 7,5 Ah rechargeable. (up to 6 hours autonomy)  
Visual and acoustic alert system  
Maximum capacity: up to 12 motors

## Optional Extras

RAL coating – head-box, side guides, bottom bar and false ceiling extra accessories  
Stainless Steel Elements – Head-box, Side guides, bottom bar, screws, rivets  
Head-box – 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 RAL9003 to hide headbox over false ceiling  
Electric Motor – Special 24Vdc motors up to 80Nm without CRM; Special 230Vac motors up to 120Nm 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  
Other requirements and customized solutions on demand

## Technical details

### Headbox

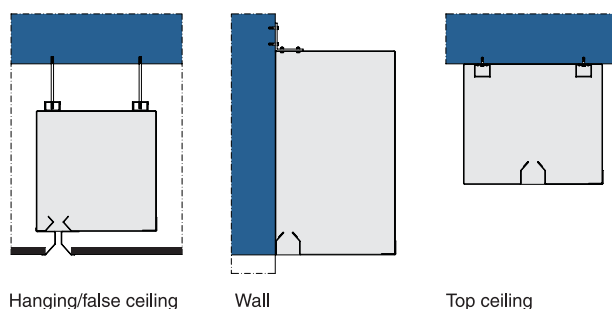


Single roller  
A:180 to 260 mm  
B:180 to 260 mm

Multi roller vertical  
A:190 to 260 mm  
B:300 to 440 mm

Multi roller/horizontal  
A:250 to 400 mm  
B:170 to 250 mm

### Headbox fixing

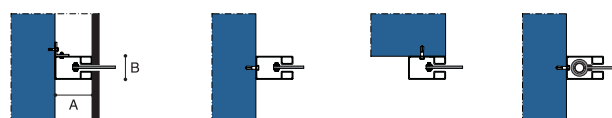


Hanging/false ceiling

Wall

Top ceiling

### Side guides fixing



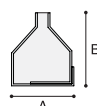
Hidden  
A: 80 mm to 120 mm  
B: 50 mm to 76 mm

Side wall

Front

Tube side guides

### Bottom bar



Galvanized steel  
A: 47 mm  
B: 55 mm

## Applications

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

.UNE EN 1634 fire resistance tests of doors and void closure elements

.UNE EN 13501 classification of non-bearing elements

.UL 10D USA standards





SMOKE CURTAINS





## Product features

BACHSMOKE DHA is an Automatic Smoke Curtain that in the case of fire, limits and controls the movement of smoke, with classification DH180.

The curtain is composed by: fiberglass fabric with polyurethane coating on both sides seamed with reinforced steel wire and fixed to a steel roller of 78mm of diameter; galvanized steel elements as headbox, side guides and 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 Smoke resistant fabric

❽ Galvanized Steel Side Guides

### Definition/Classification



**.Integrity** Curtain material achieves a resistance to smoke at 1100°C for a minimum of 180 minutes

### Test and standarts

.Technical assessment of suitability

.Registration in CTE recognized certifications test and resistance classification

D180 according to norms:





### Fabric

The fiberglass fabric resists up to 1100°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 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. Special slide system for fixing the fabric

### Bottom bar

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

Electric Motor

BACH tubular motor 24Vdcc

Maximum power 24 W/18,5Nm 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 RAL9003 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

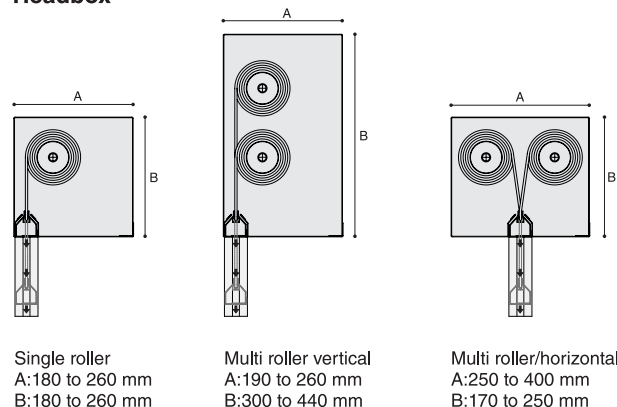
Escape Button – Pushing this button the curtain goes up and the user can escape through the opening, the curtain deploys 30s later automatically

Emergency Button – Pushing this button the curtain deploys immediately

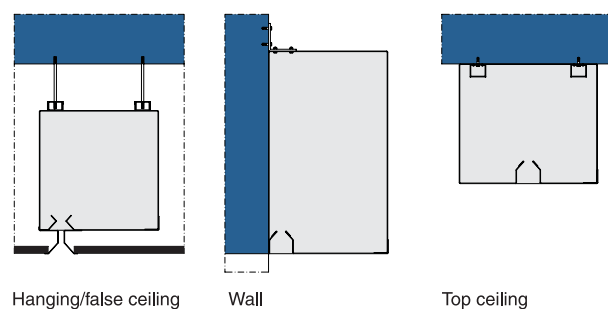
Other requirements and customized solutions on demand

## Technical details

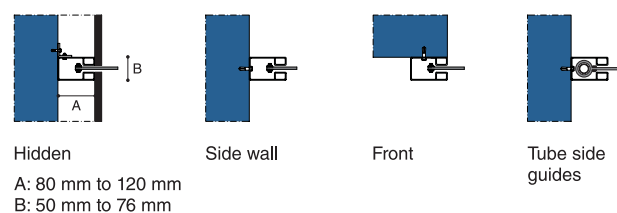
### Headbox



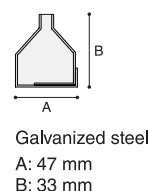
### Headbox fixing



### Side guides fixing



### Bottom bar



## Applications

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

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



## 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.

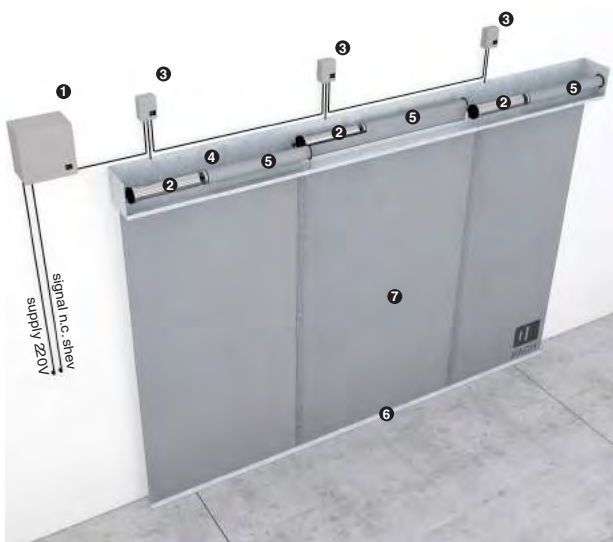
Tested and approved according to the European Standard UNE EN 12101-1 and with CE Marking.

## 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



**.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:

### 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 24Vdccc

Maximum power 24 W/18,5Nm 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

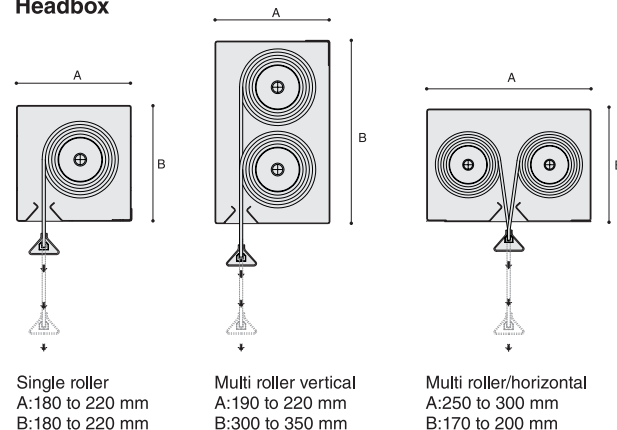
Emergency Button – Pushing this button the curtain deploys immediately

Other requirements and customized solutions on demand

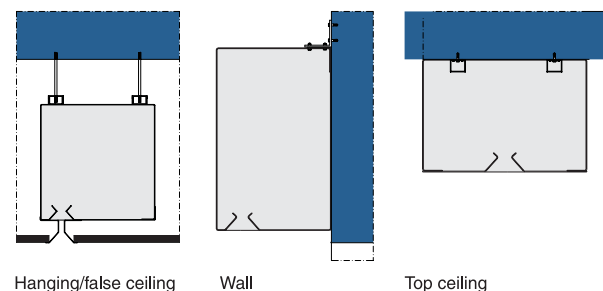
## Technical details

23

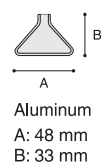
### Headbox



### Headbox fixing



### Bottom bar

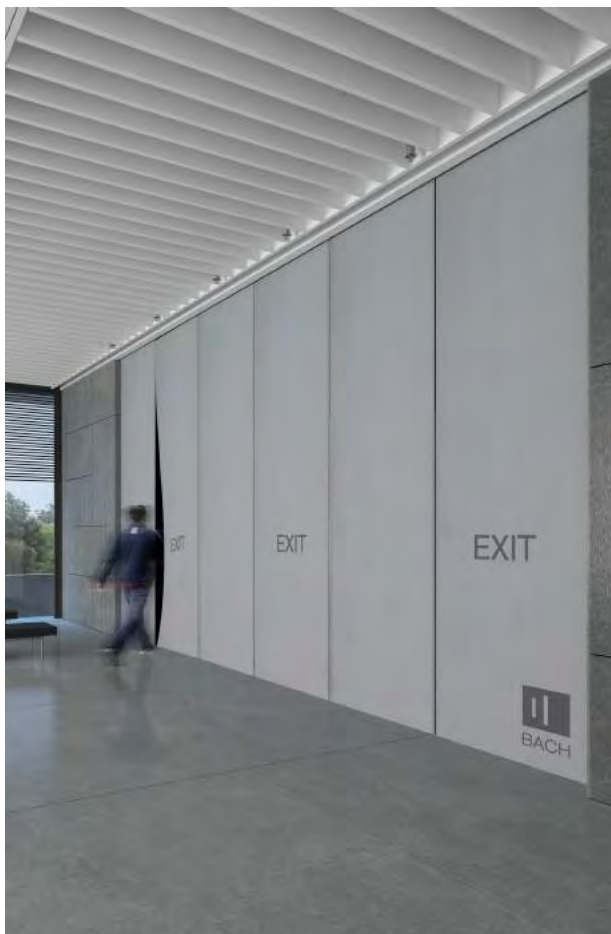


## Applications

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

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





## Product features

BACHSMOKE EV is an Automatic Smoke Curtain that in the case of fire, limits and controls the movement of smoke, with classification D180, 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 78mm of diameter; galvanized steel head-box; stripped textile shape for passing through;

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. 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 BACH's battery back-up system.



### 1 Control panel CBM

### 2 BACH Tubular Motor 24Vdc

### 3 CRM Electronic control board

### 4 Galvanized Steel Head-box

### 5 Galvanized Steel Roller

### 6 Smoke resistant fabric

### 7 Strip Independent mild bottom bar (curtain stop 5 cm above the ground)

## Definition/Classification



**.Integrity** Curtain material achieves a resistance to smoke at 1100°C for a minimum of 180 minutes

## Test and standarts

.Technical assessment of suitability

.Registration in CTE recognized certifications test and resistance classification

D180 according to norms:

### 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. The systems has always as minimum two rollers.

### Bottom bar

Steel rods covered with mild foam placed independently in each strip inside de fabric

### Electric Motor

BACH tubular motor 24Vdcc (minimum 2 motors)

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

Stainless Steel Elements – Head-box, screws, rivets.

Head-box – Customized set-up for specific architectural or special operational requirements

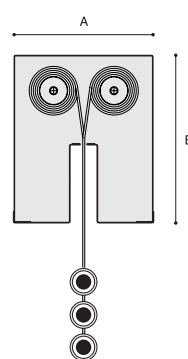
CBM Control Panel – Special designs up to 48 motors in one control panel, additional information output, micro switches, communication with other devices, special battery backup, possibility of delaying curtain deployment

Emergency Button – Pushing this button the curtain deploys immediately

Other requirements and customized solutions on demand

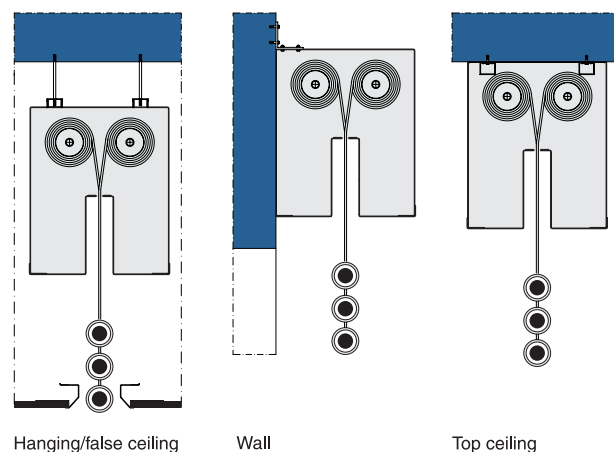
## Technical details

### Headbox

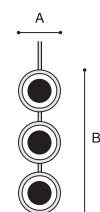


Multi roller/horizontal  
A:250 mm  
B:300 mm

### Headbox fixing



### Bottom bar



A: 40 mm  
B: 140 mm

## Applications

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

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



## 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



**.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:



### 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

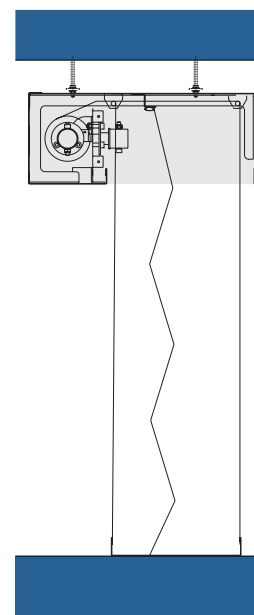
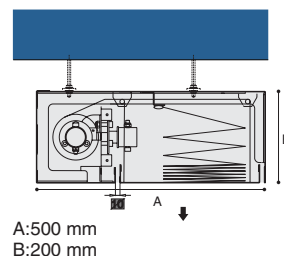
Electric Motor – Special 24Vdc motors up to 80Nm without CRM; Special 230Vac motors up to 120Nm without CRM.

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.

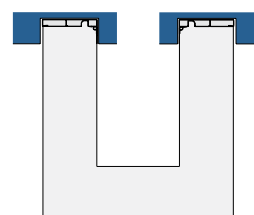
## Technical details Headbox



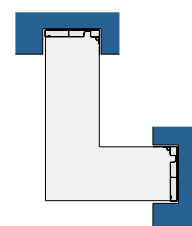
Headbox detail fabric up

Headbox detail fabric down

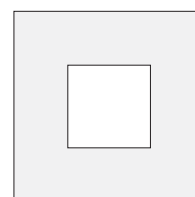
## Plant perimeter types



U Shape

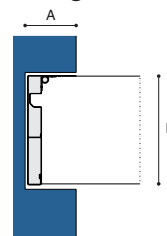


L Shape



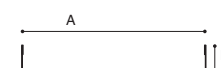
O Shape

## Side guide fixing



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

## Bottom bar



Galvanized steel  
A: 287 mm  
B: 40 mm

## Applications

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



## Product features

BACHSMOKE H is a Horizontal Automatic Smoke Curtain that in the case of fire, limits and controls the smoke, with classification D120.

The curtain is composed by: fiberglass fabric with polyurethane coating on both sides seamed with reinforced steel wire and fixed to a two steel rollers of 78mm of diameter; galvanized steel elements as head-box, side guides and bottom bar.

All the system is driven by two 24Vdc tubular motors, in opposite sides. 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 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, at constant speed. 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 be ready to be activated with batteries at least during the next 24h.



- ❶ Control panel CBM
- ❷ BACH Tubular Motor 24Vdc
- ❸ Galvanized Steel Head-box
- ❹ Galvanized Steel Roller
- ❺ Galvanized Steel Side Guides
- ❻ Galvanized Steel bottom bar
- ❼ Fire resistant fabric

### Definition/Classification



**.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 D120 according to norms:

### 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 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. Special slide system for fixing the fabric

### Bottom bar

Galvanized Steel of 1,5mm thickness and. Two-parts system easy to mount

Electric Motor

BACH tubular motor 24Vdcc (minimum 2 units)

Maximum power 24 W/18,5Nm 3 A

Average linear speed: 0.08 m/s

### 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: 4 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

Head-box – Customized set-up for specific architectural or special operational requirements.

Side guides – Customized set-up for specific architectural or special operational requirements

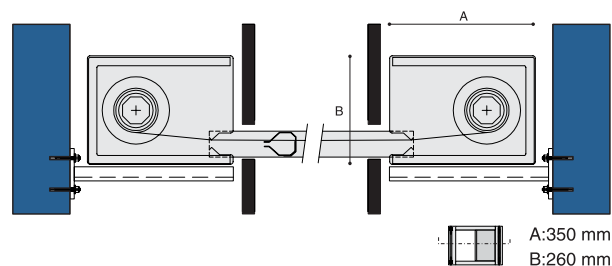
Bottom bar – Customized set-up for specific architectural or special operational requirements

Electric Motor – Special 24Vdc motors up to 80Nm without CRM; Special 230Vac motors up to 120Nm without CRM

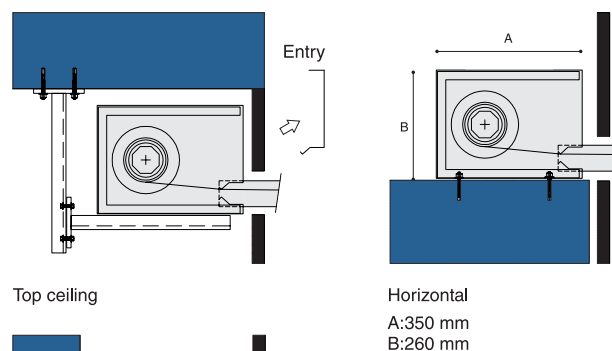
CBM Control Panel – Special designs up to 48 motors in one control panel, additional information output, micro switches, communication with other devices, special battery backup, possibility of delaying curtain deployment.

## Technical details

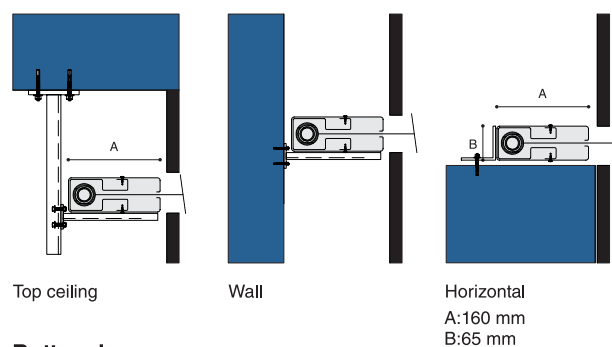
### Headbox section



### Headbox fixing



### Side guides fixing



### Bottom bar



## Applications

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

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





## Product features

BACH SMOKE FIX DA is a Static Smoke Curtain that in case of fire limits and controls the movement of smoke, with classification D180. The smoke curtain delimits the space of the building according to the areas that have been specified to prevent the smoke spreading into other areas. BACH SMOKE FIX DA is a curtain appropriated to industrial buildings or buildings where the rise and fall of the curtains is not a key feature or where the esthetic is not fundamental. Tested and approved according to the European Standard UNE EN 12101-1 and with CE Marking.



- ❶ Galvanized Steel angle 40x40x1mm
- ❷ Concrete steel anchor screw 6mm diameter x 60mm long
- ❸ Round steel rod 10mm diameter
- ❹ Smoke Resistent Fabric
- ❺ Fixing steel accessories

### Definition/Classification



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

### Test and standarts

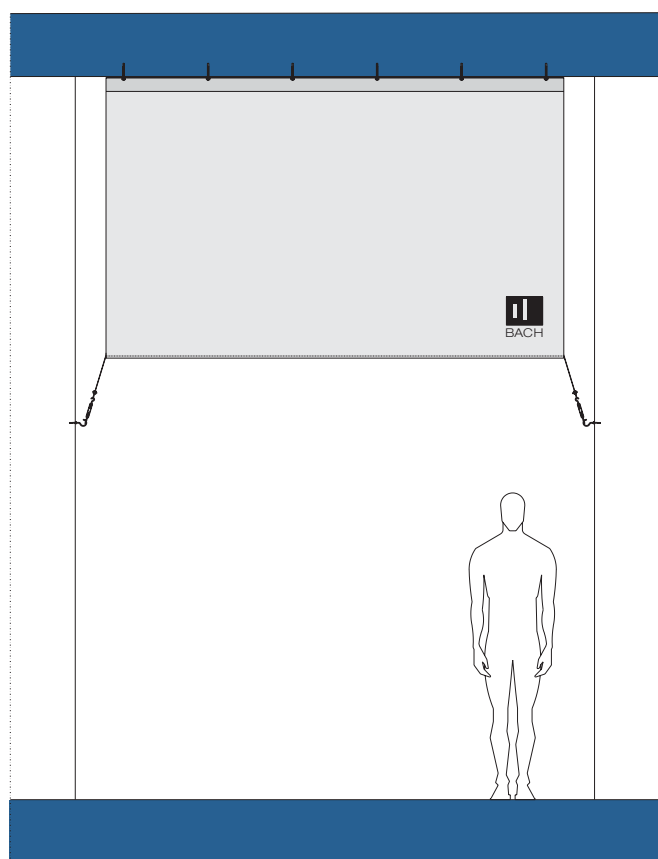
.Technical assessment of suitability  
 .Registration in CTE recognized certificationtest and resistance classification  
 E120 according to norms:

**Fabric**

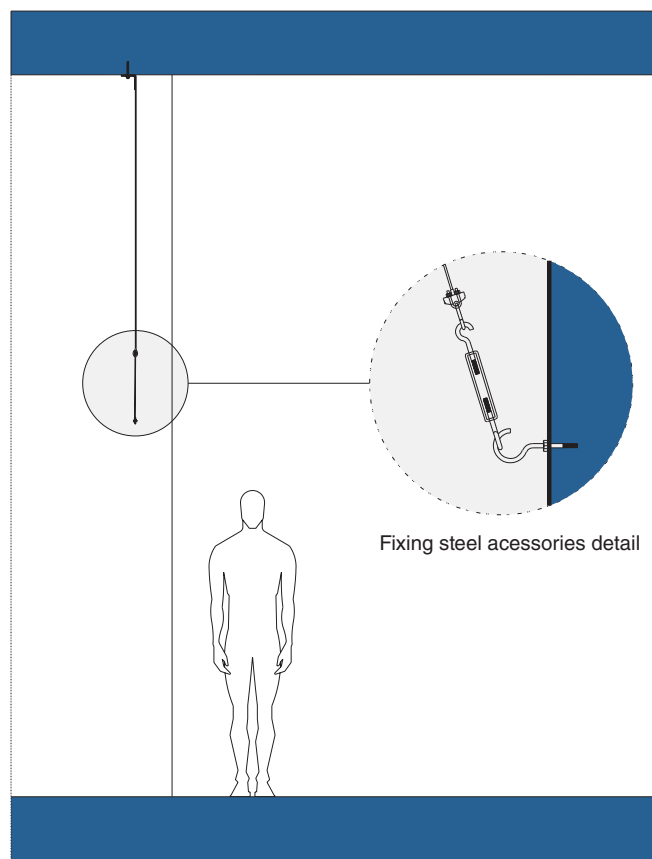
The fiberglass fabric resists up to 600°C. The polyurethane coating on both sides guarantees mechanical stability when handling the fabric not only in the sewing process but also during the installation. All seams are done with high resistance Kevlar wire.

**Optional Extras**

Standard color is grey but as optional in white and black.  
Supply of accessories for fixing as steel angle rod and screws.  
Other requirements and customized solutions on demand.

**Technical details**

System front view



System side view

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

**Applications**

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



## Product features

BACH SMOKE FIX GLASS is a Static glass Smoke Curtain that in case of fire limits and controls the movement of smoke with classification of DH30. The smoke curtain delimits the space of the building according to the areas that have been specified to prevent the smoke spreading into other areas. BACH SMOKE FIX GLASS is a system appropriated to public areas where the esthetic criteria is demanded. Tested and approved according to the European Standard UNE EN 12101-1 and with CE Marking.



- ❶ Glass curtain 6 mm
- ❷ Stainless Steel fixings or galvanized steel

## Definition/Classification



**.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:

### Glass Characteristics

Thickness: 6mm

Width and Height tolerance:  $\pm 2$ mm

Impact Resistance (EN 12600): 1(C)1 Classification

Specific Weight: 15 kg/m<sup>2</sup>

Light Transmission: 89 %

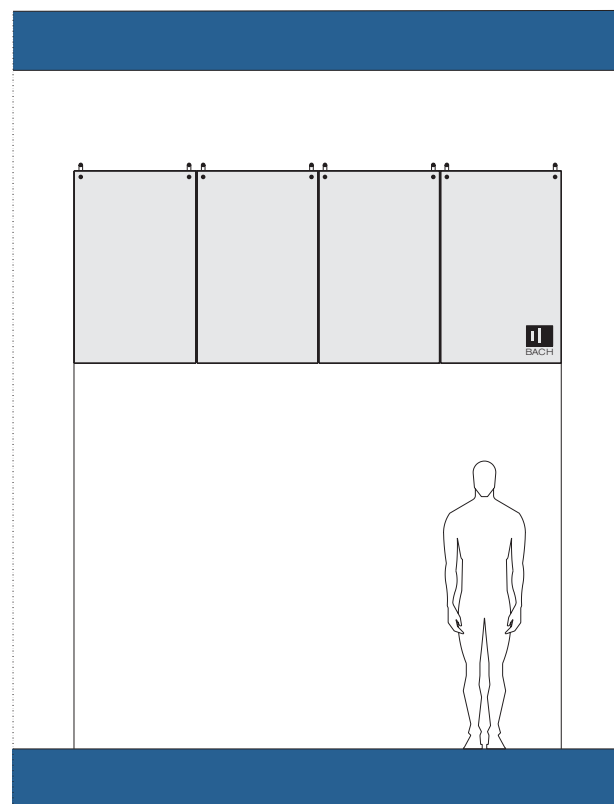
### Optional Extras

Special shape cutting

Stainless Steel fixings

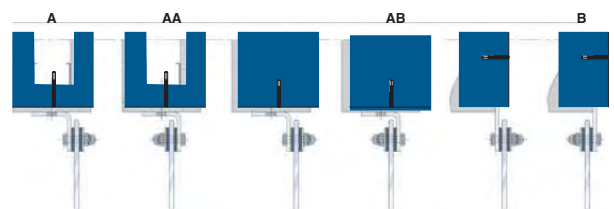
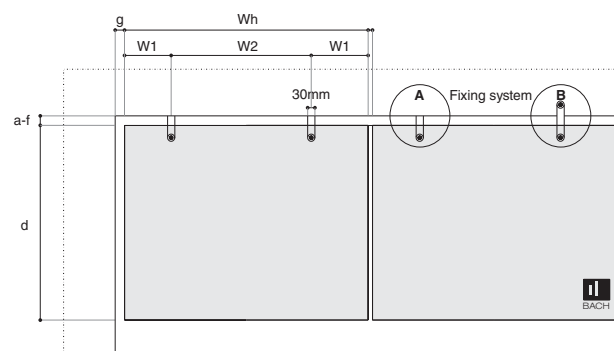
### Technical details

33



System front view

W	1500 mm
D	1100 mm
W1	100 mm 375 mm
W2	750 mm
a-f	10 mm
g2	0 mm
h	5 mm



Fixing system



Fixing system standart



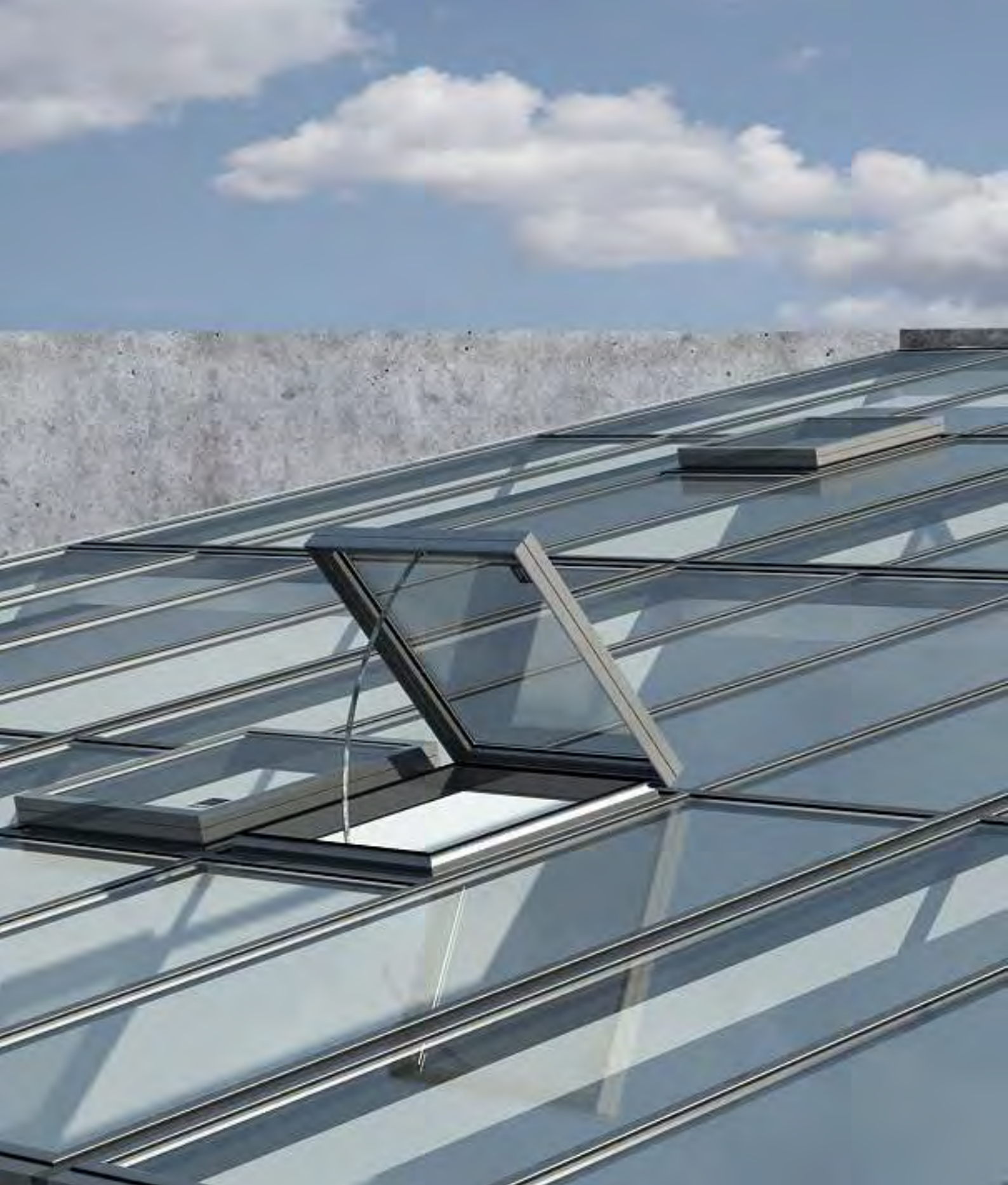
Fixing system design

### Applications

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

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





SMOKE VENTS





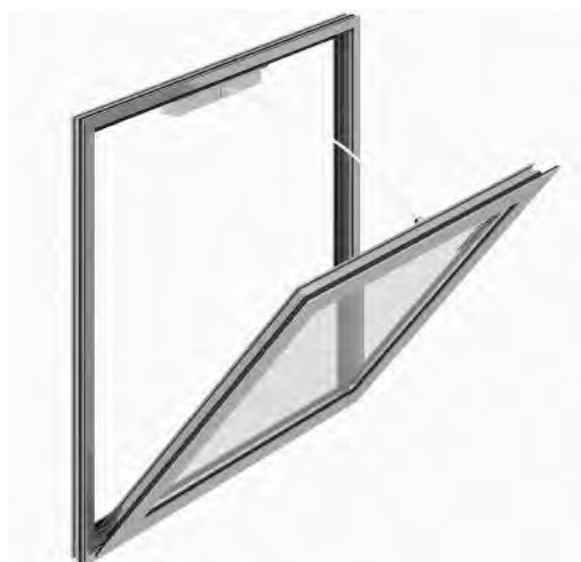


## Product features

The DEVEA is a thermally broken natural ventilation window suitable for natural day to day ventilation and smoke control for installation on vertical facades. It has a slim structure, a compact construction and excellent aesthetics. A wide range of flaps and controls are available.

## Typical Applications

Particularly suitable for applications on facades. The mounting angle is 90°. The opening angle of the window depends on the selected stroke length for the control mechanism and is variable up to 70°. Installations: logistics centres; shopping centres; atria, offices, etc.







### Materials

The window structure consists of tempered aluminium, sea water corrosionresistent AlMg3. Both the outer frame and flap frame are thermally broken. The frame is sealed with EPDM rubbers. The aluminium is supplied untreated as standard.

### Controls

Pneumatic (for smoke and day to day ventilation)  
24V DC linear electric drive (for smoke and day to day ventilation)  
24V DC chain electric drive (for smoke and day to day ventilation)  
230 V AC electric drive ( for day to day ventilation)

### Flaps

Laminated glass  
Insulated glass  
Aluminium, single or double  
Polycarbonate  
Sandwich panels - insulated or uninsulated  
Other infills available on request

### Dimensions

Maximum height: 1500 mm  
Maximum width: 2700 mm  
Maximum surface area of 4.05 m<sup>2</sup>  
Alternative dimensions, panels and shapes can be supplied on demand

### Weight

The weight depends on dimensions and type of infill

### Options

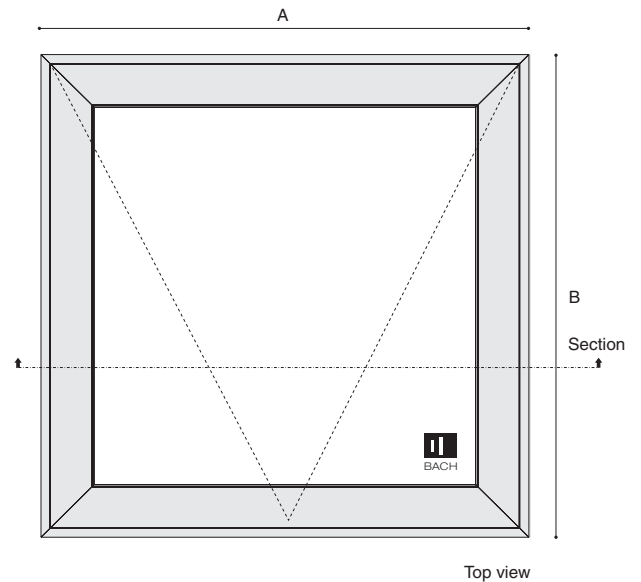
Custom dimensions; powder-coated design (in any RAL colour)

### Regulations

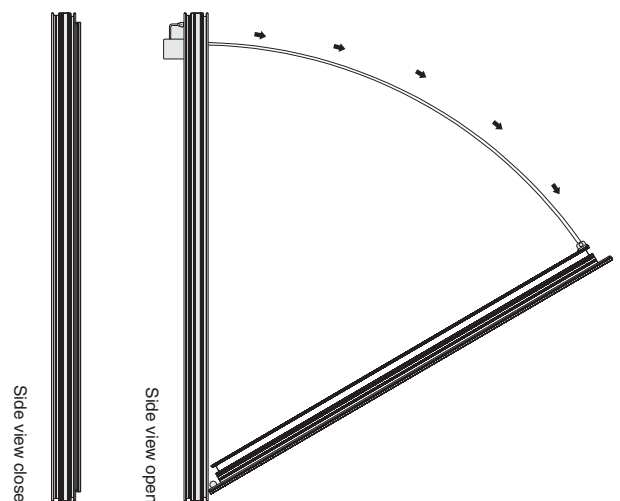
The system has been tested and is certified in accordance with EN 12101-2

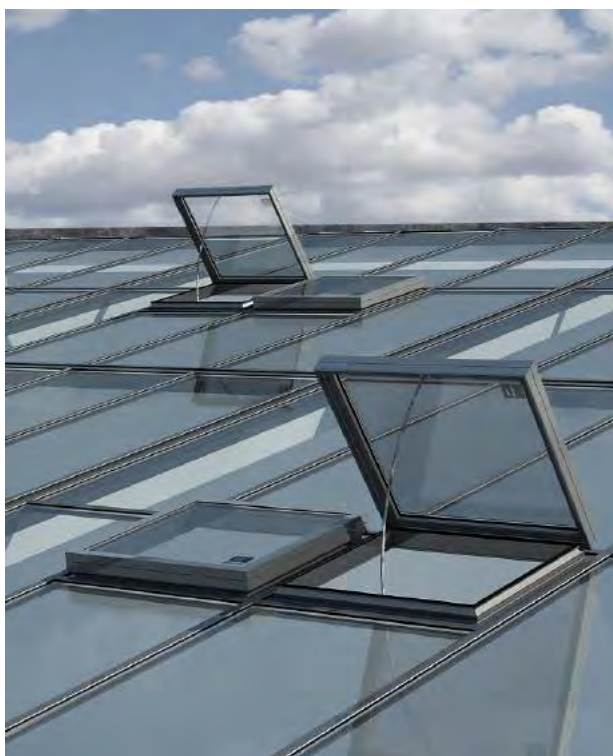
## Technical details

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A: maximum height 1500 mm  
B: maximum height 2700 mm





## Product features

The LUVIA is a window ventilator suitable for natural day to day ventilation and smoke control. The attractive aesthetics together with its technical properties make it a special solution for glass roofs applications. LUVIA has a very compact construction, thermally broken frames and a wide range of flaps infills. Various opening systems are available.

## Typical Applications

Particularly suitable for applications on glazed roof constructions. The opening angle of the window in relation to horizontal plane depends on the selected stroke length for the control mechanism and is variable up to 90°. Installations: logistics centres; shopping centres; atria, offices, etc.





### Materials

The window structure consists of tempered aluminium, sea water corrosionresistent AlMg3. Both the outer frame and flap frame are thermally broken. The frame is sealed with EPDM rubbers. The aluminium is supplied untreated as standard.

### Controls

Pneumatic (for smoke and day to day ventilation)  
24V DC linear electric drive (for smoke and day to day ventilation)  
24V DC chain electric drive (for smoke and day to day ventilation)  
230 V AC electric drive ( for day to day ventilation)

### Flaps

Laminated glass  
Insulated glass  
Aluminium, single or double  
Polycarbonate  
Sandwich panels - insulated or uninsulated  
Other infills available on request

### Dimensions

Maximum height: 1500 mm  
Maximum width: 2700 mm  
Maximum surface area of 4.05 m<sup>2</sup>  
Alternative dimensions, panels and shapes can be supplied on demand

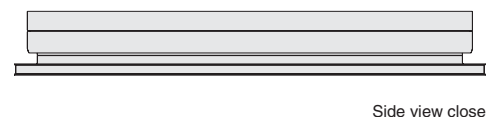
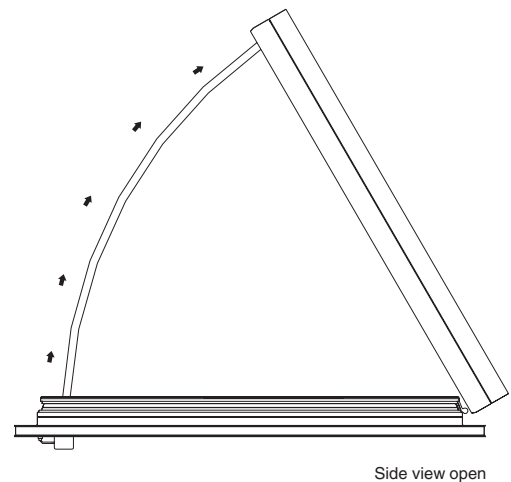
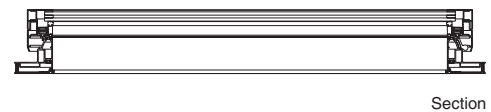
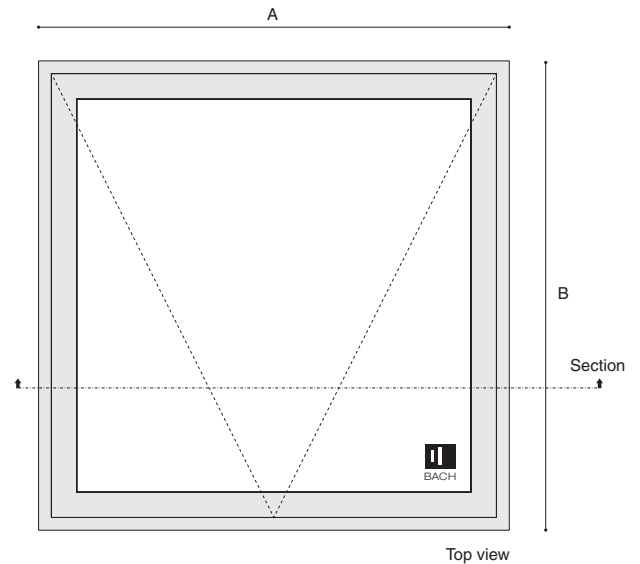
### Weight

The weight depends on dimensions and type of infill

### Options

Custom dimensions; powder-coated design (in any RAL colour)  
Regulations  
The system has been tested and is certified in accordance with EN 12101-2

### Technical details





## Product features

The DELTA is a double flap smoke vent suitable for the removal of large quantities of warm air and / or smoke from a building within a short period of time, daily ventilation and natural lighting. The vents are manufactured according to EN-ISO 9001 quality control standards .

The vents are formed from high quality corrosion resistant aluminium to ensure low maintenance requirements and watertightness. Various methods of operation using pneumatic or electric actuators are available. Available on large dimensions, up to 8.5 m<sup>2</sup>, geometrical surface area.

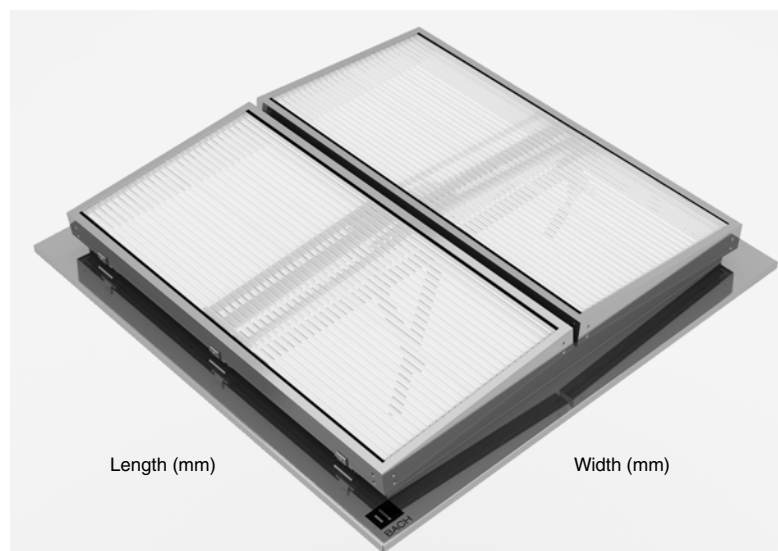
## Typical Applications

May be installed either onto roofs or into barrel vault daylighting systems. Particularly suitable for warehouses; logistics centres, production environments and industries.

Standard interior dimensions		
Type	Width (mm)	Length (mm)
1010	1000	1000
1015		1500
1020		2000
1025		2500
1030		3000
1035		3500
1510	1500	1000
1515		1500
1520		2000
1525		2500
1530		3000
1535		3500
2010	2000	1000
2015		1500
2020		2000
2025		2500
2030		3000
2035		3500
2510	2500	1000
2515		1500
2520		2000
2525		2500
2530		3000
2535		3500

## Example type indication

Delta 1025//PC16/P2F/S5Delta twin flap vent, width 1000 mm, length 2500mm, flaps polycarbonate 16 mm, pneumatic cylinder type P2F, flange type S5.







**Materials**

Aluminium; tempered, sea water and corrosion-resistant AlMg3 and extruded aluminium profiles for the frames. Corrosion-resistant bearings. The aluminium is supplied untreated as standard. Free of silicones.

**Controls Natural ventilation**

P2 - Double-action compressed air operation M230V - Electric motor

**Controls Fire ventilation according to EN 12101-2**

P2F double-action compressed air operation with fire function M24V - Electric motor

**Bases**

Single skin aluminium;  
Double skin aluminium with thermal insulation  
Other non standard bases available upon request

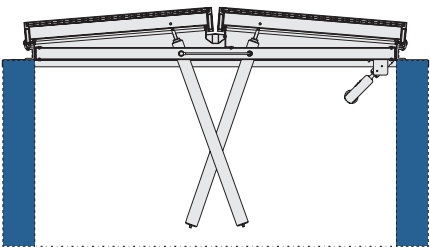
**Options**

Custom dimensions  
Powder-coated design (any RAL colour)  
Bird or insect mesh

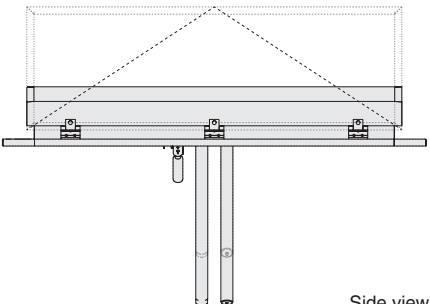
**Regulations**

The system has been tested and is certified in accordance with EN 12101-2

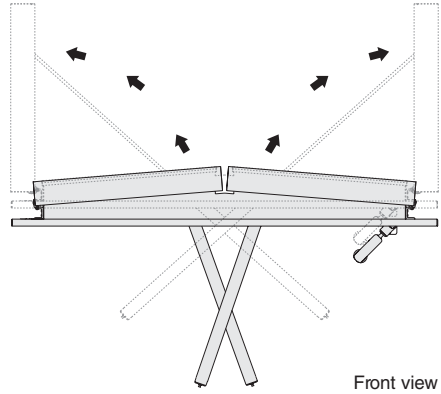
**Technical details**



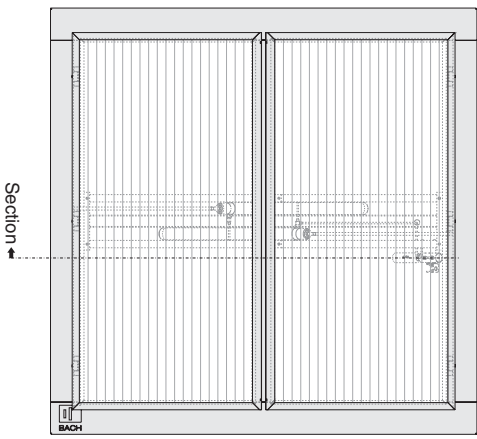
Section



Side view



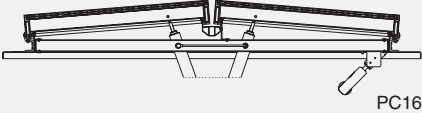
Front view








Top view

**FLAPS**

AL	Non-insulated aluminum
PC16	Polycarbonate 16 mm, translucent or opal
AL ISO	Thermally insulated aluminium
SW	Sandwich panel



**FLANGES**

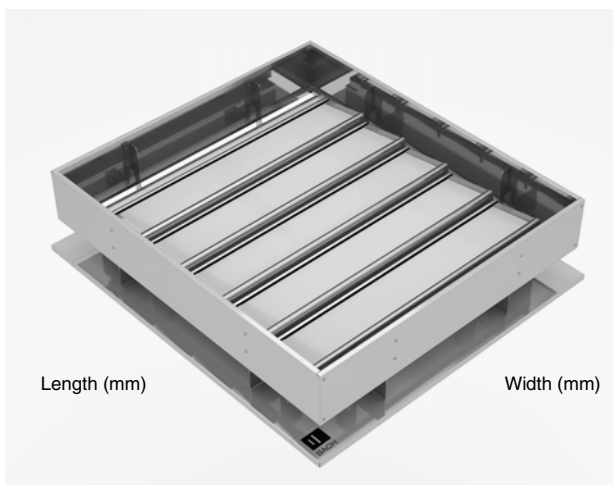
S1	Flange for single glass			
S2	Flange for double glass			
S3	Flange for roofs, 45° bended			
S4	Flange for roofs and facades			
S5	Flange for upstand, 90° bended			
Custom flange design and insulated flanges upon request				

The VENTRA is a multi louvred ventilator provides an economic, nonpowered method of ventilation, allowing the removal of large quantities of warm air and / or smoke from a building within a short period of time. The VENTRA is suitable for air feed (facade), air extraction (facade an roof) and natural lighting. The vents are manufactured according to EN-ISO 9001 quality control standards .

The vents are formed from high quality corrosion resistant aluminium, to ensure low maintenance requirements and watertightness. Various methods of operation using pneumatic or electric actuators are available. The ventilator design produces a versatile economic unit suitable for a wide range of applications.

Versatil scope of applications on roofs and facades, with an installation angle range from 0° to 90°.

Installations: Industrial Buildings; Warehouses; Logistics Centres; Shopping Centres; Atria, Etc.

[illegible]



## Materials

Aluminium; tempered, sea water- and corrosion-resistant AlMg3 and extruded aluminium profiles for the frames. Corrosion-resistant bearings.  
The aluminium is supplied untreated as standard. Free of silicones.

## Controls Natural ventilation

P - Single-action compressed operation  
P2 - Double-action compressed air operation  
M230V - Electric motor

## Controls Fire ventilation according to EN 12101-2

PF - single-action compressed air operation with fire function  
P2F - double-action compressed air operation with fire function  
M24V - Electric motor

## Bases

Single skin aluminium; double skin aluminium with thermal insulation  
SB - Standard base, with the entire mechanism ( louvres)  
Other non standard bases available upon request

## Options

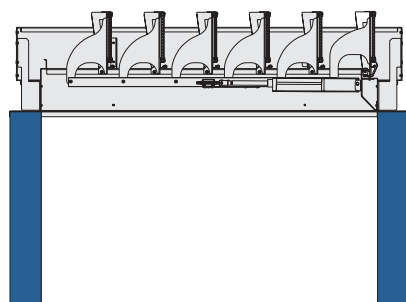
Custom dimensions; powder-coated design (any RAL colour)  
Bird or insect mesh

## Regulations

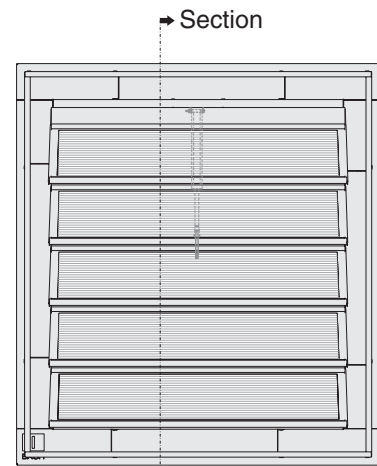
The system has been tested and is certified in accordance with EN 12101-2

## Technical details

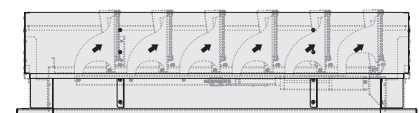
43



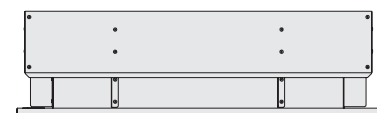
Section



Top view



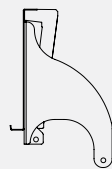
Side view



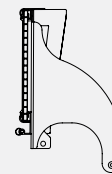
Front view

## LOUVRES

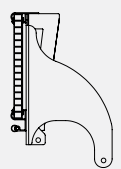
AL	Non-insulated aluminum
PC8	Polycarbonate 8 mm, translucent or opal
PC16	Polycarbonate 16 mm, translucent or opal
AL ISO	Thermally insulated aluminium
SG	Single laminated glass, toughened or wired glass
DG	Double glass, toughened or wired glass
SW	Sandwich panel 8/16mm



AL



PC 8



PC 16

## FLANGES

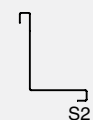
S1	Flange for single glass
S2	Flange for double glass
S3	Flange for roofs and facades
S4	Flange for roofs and facades
S5	Flange for upstand, 90° bended
Custom flange design and insulated flanges upon request	



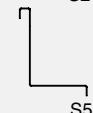
S1



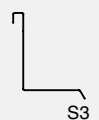
S4



S2



S5



S3



## Product features

When it comes to keeping emergency and escape routes free of smoke gas, the use of automated louvre windows solutions is particularly advisable. They make it possible to efficiently keep emergency and escape routes smoke-gas-free. This helps rescue teams get to the scene quickly and successfully evacuate everyone from the building, thereby significantly reducing the risk of suffocation. The VENTLAM smoke vents system ventilator of installation in vertical façade, provides an economic, non-powered method of ventilation, allowing the removal of large quantities of warm air and/or smoke from a building.

The VENTLAM is particularly suitable for use in industrial and commercial buildings where low cost natural ventilation with or without natural lighting is required.

The smoke vent is façade frame and blade profiles with thermally insulated composite of aluminum and PA6.6 profiles filling of 2-glazing framed only sideways.

## Description of operation

The VENTLAM is a louvre windows consist of one or several superimposed blades that open on a horizontal axis of rotation as an oscillating wing. There by the blades part below the pivot axis opens to the outside and the upper part to the inside. In general the pivot axis is mounted centered, but can be shifted up to 1/3 - 2/3 if necessary. Standard with 78° opening angle, if necessary 0-90°. No matter whether in public, business or private areas, safety is an important issue for all building planners. The foremost principle is that the people who use a building should not come to any harm.



- ❶ Profiles anodised; powder or wet paint coated to RAL, NCS, DB or special colour shades
- ❷ Pivot axis is mounted centered
- ❸ E-motor WAL, 24V, 1,0 A, 1600N, IP50, E6/EV1, with 3,0 m cable, without pushbutton or without control
- ❹ Thermally insulating glass made from 1x 4 mm float glass outside + 1x 6 mm laminated safety glass inside with 14 mm cavity, total glass thickness 24 mm



**Design description**

This system is the first choice whenever the highest specifications apply for heat insulation, beauty of appearance and sheer individuality.

Installation in vertical façade, frame and blade profiles with thermally insulated composite of aluminum and profiles, filling of 2-glazing or panel framed glazing all-round

**Construction**

Frame and blades in thermally separated aluminium profiles

Frame installation depths 50 or 60 mm

**Assembly options**

Various adaptor sections for installation in post-girt constructions, wall masonry or window elements

**Louvre fillings**

Insulation glazing or panels as desired

Triple insulating glazing possible; total thickness 24 mm or 32 mm

**Opening fittings**

Hidden opening fittings

Operation with manual crank handles, kinked connecting rods

Pneumatic cylinders or electric servomotors with choice of 230V or 24V

**Seals**

The vents seals in EPDM, silicone quality and vertically with brush seal

**Surface treatment**

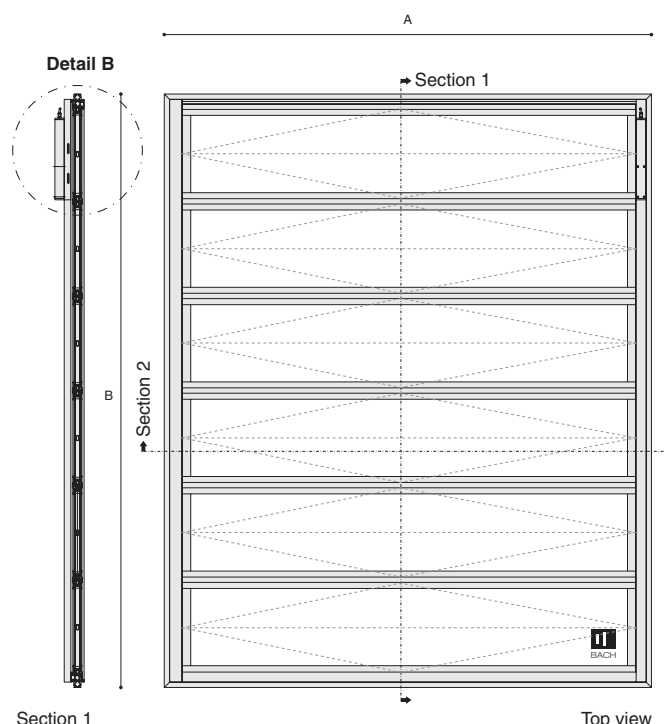
Profiles anodised; powder or wet paint coated to RAL, NCS, DB or special colour shades

**Possible sizes**

Minimum frame width 300 mm

Maximum frame width 2000 mm

Blade height variable 120 to 400 mm

**Technical details**

A: minimum 300 mm/maximum 2000 mm  
B: customize

Top view

Detail A

Section 2

Detail A

Detail B



FIRE PROTECTION DOORS







## Product features

EIS SHELTER is fire and burglar resistance steel door, developed from the construction models - System Schröders ESN-1 and SISAF System Schröders EIS-1 composed of: frame in 1,5 mm thick steel, cold profiled and built by welding; it includes the intumescent joint and peripheral caulking rubber joint fitted, 68 mm thick leaf; built by welding; made in a 1,25 mm thick electro galvanized steel sheet; strengthened internally with a 3 mm thick steel sheet and filled in with thermal insulation plaster and mineral fibers -based materials; peephole; two System hinges fixed by welding; hinge shaft in 16 mm diameter massive steel; with movement on bearings.

## Manufacturing dimensions

	EIS Shelter
Width (mm)	625 mm to 1500 mm
Height (mm)	1725 mm to 3000 mm

## Accessories

Other measures on request

	EIS Shelter
Locks	Security lock in 5 points
Springs	Door closer with occult or aerial sliding guide
Handles	Flat security door handles
Special Accessories	Magnetic Contact Floor seal
Finishing	Without finishing Final thermo lacquering in RAL 9010 or 7010 colours (other colours on request)

## Certificates SISAF system SCHRÖDERS ESN-1 door

Burglar resistance	Up to class RC4 according to EN1627ff
Acoustic performance	Up to $R_w (C; C_{tr}) = 45$ d B according to EN 20140-3

## Options

Acoustic performance	$U_D > 1,7$ according to EN ISO 10077-1
External door	In accordance with the standard EN 14351-1
Internal door	In accordance with the standard ENV 14351-2

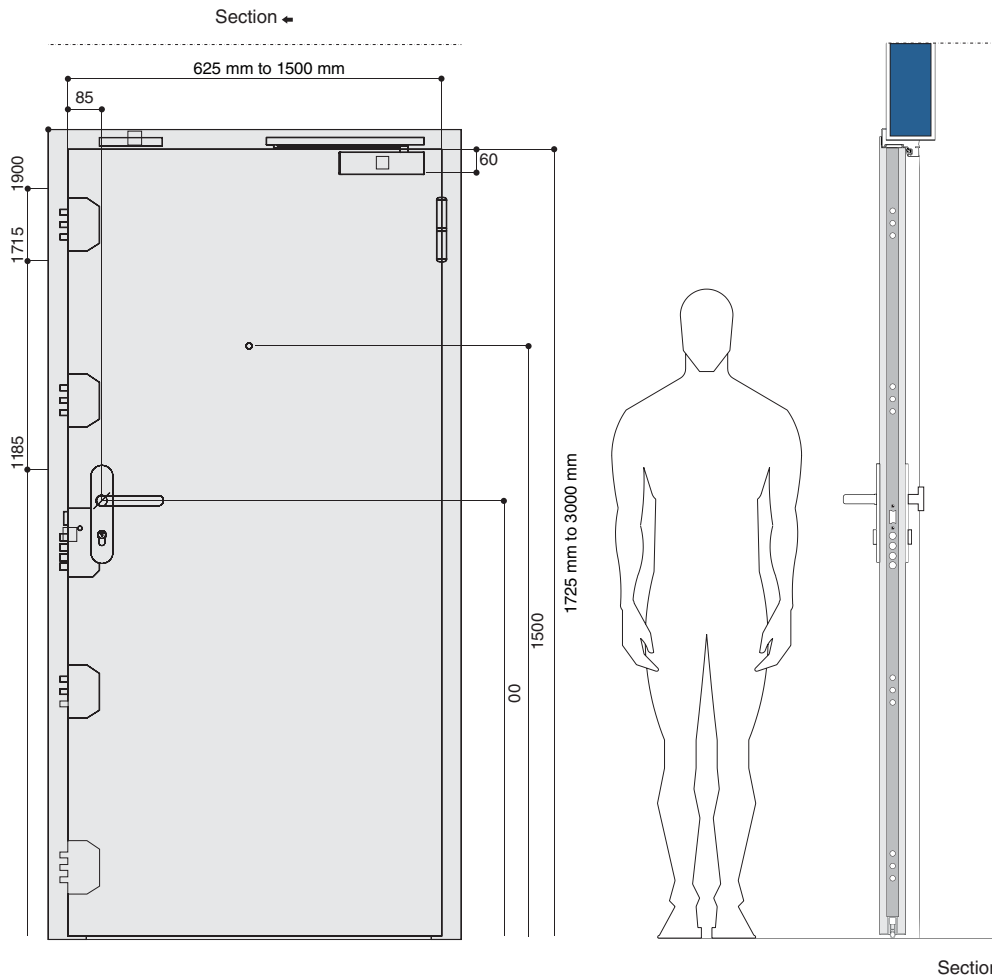
## Certificates SISAF system SCHRÖDERS EIS-1 door

Fire resistance	EL <sub>2</sub> 60/E120/EW 60 (tested until 120) Tested in accordance with EN 1634-1 Classified in accordance with EN 13501-2
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## Options

Smoke protection	Sa/Sm tested in accordance with EN 1634-3 Classified in accordance with EN 13501-2
Airtightness	Up to class 4, according to EN 12207
Resistance to wind load	Up to class C5, according to EN 12210
Watertightness	Up to class 8A, according to EN 12208
Resistance to positive and negative pressure	Up to 5000 Pa



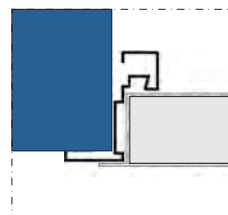
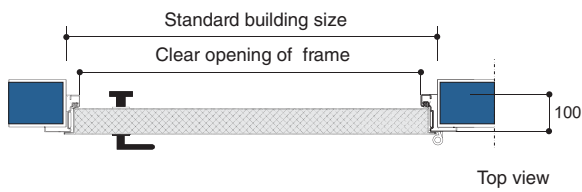


#### Standard

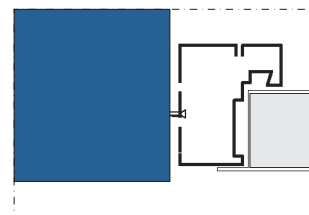
Peephole  
5 points lock  
Pair of security door handles  
Baton T9045

#### Extras

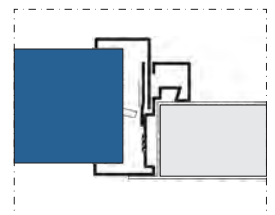
Electromagnetic lock  
Magnetic contact  
Occult spring/door closer  
Floor seal  
Electric strike



Standard application



Application with closed frame



Application with counter frame



Spring with sliding  
guide aerial or occult



Door handles



5 Points security lock kit



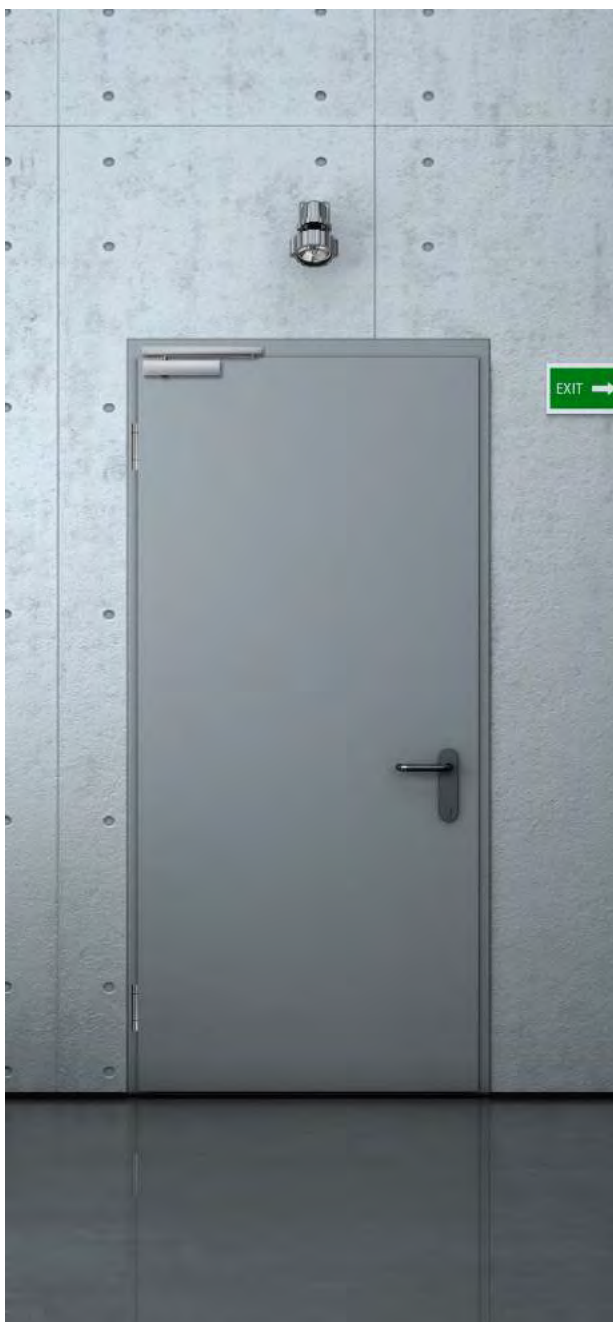
Peephole



Lock plate



Floor seal



## Product features

Steel door unit, single leafed 68mm thickness made from electro galvanized steel, 1,5mm thick frame and 1,25 thick leaf, welded body, in conformity with the SISAF SYSTEM SCHRÖDERS ES1 construction model, tested in accordance with the European standard EN 1634-1 and EN 1634-3. Leaf movement by welded hinges in the frame, with 16 mm diameter solid steel pin and movement on thrust ball bearings, opening up to 180°.

## Manufacturing dimensions

	Schrodgers ES 1
Width (mm)	Maximum 1580 mm
Height (mm)	Maximum 3100 mm

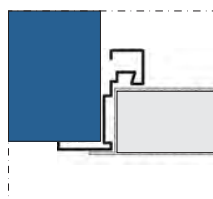
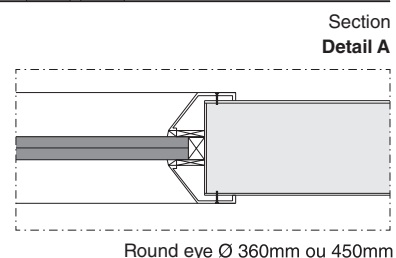
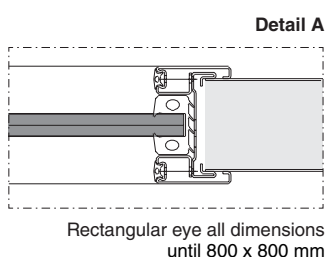
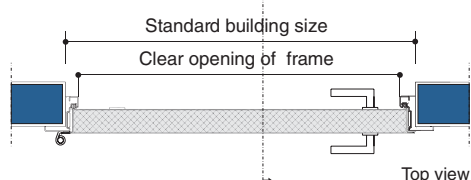
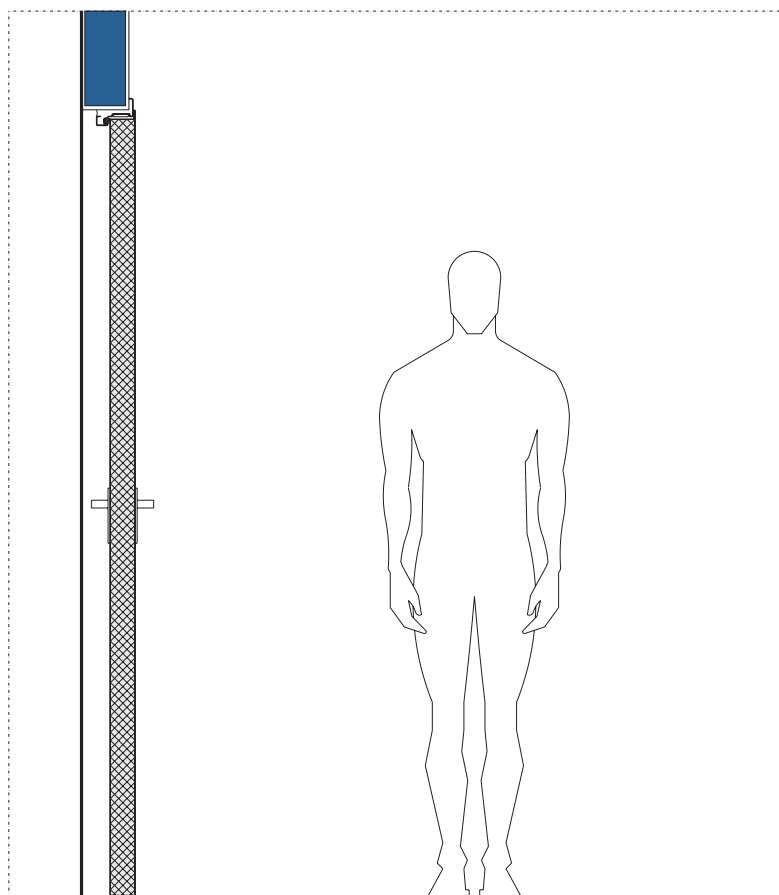
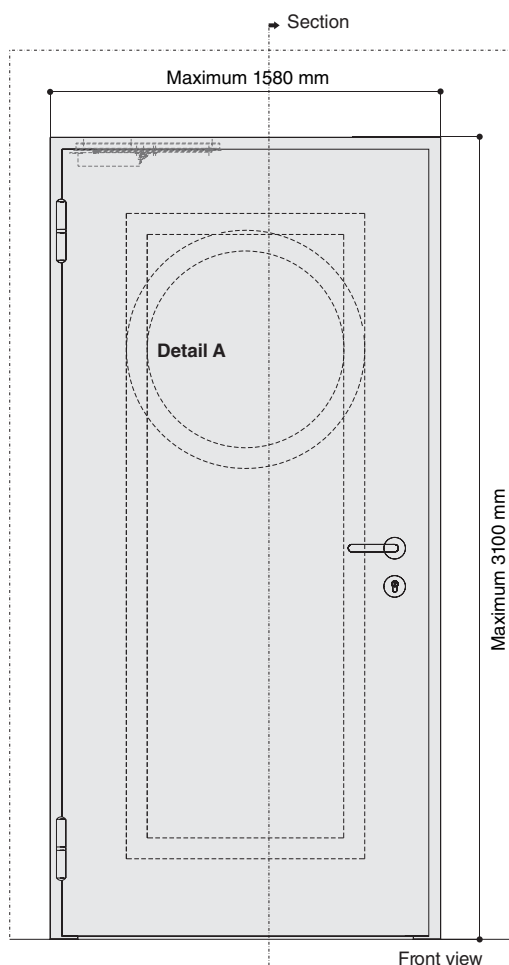
Other measures on request

## Accessories

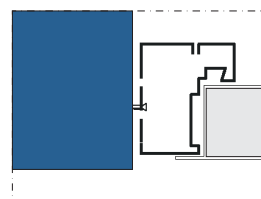
	Schrodgers ES 1
<b>Locks</b>	Normal function or panic function
<b>Door closers</b>	With link arm or guide rail
<b>Lever handles</b>	Mobile/mobile Mobile/fixed With plate or rosette
<b>Panic exit devices</b>	NN Black / Black NR Black / Red NV Black / Green PP Silver / Silver SI Satin / Stainless steel
<b>Hinges</b>	SISAF SYSTEM SCHRÖDERS integrated in the system
<b>Special Accessories</b>	Access control Magnetic contact Multi points lock available upon request
<b>Finishing</b>	SISAF SYSTEM SCHRÖDERS ES1 doors are supplied with the following finishes: Unfinished for on-site finishing; Powder coating with colours from the standard RAL colour range; Stainless finishes are also available.

Note: Accessories with CE marking

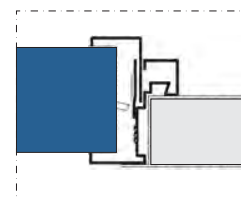




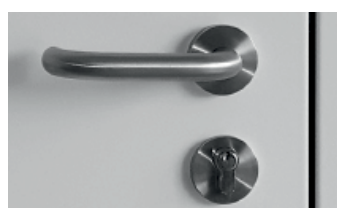
Standard application



Application with closed frame



Application with counter frame



Stainless steel handle



Door seal



Hinge



Hidden spring embedded in the top



## Product features

Steel door unit, two-leaf 68mm thickness made from electro galvanized steel, 1,5mm thick frame and 1,25 thick leaf, welded body, in conformity with the SISAF SYSTEM SCHRÖDERS ES2 construction model, tested in accordance with the European standard EN 1634-1 and EN 1634-3. Leaf movement by welded hinges in the frame, with 16 mm diameter solid steel pin and movement on thrust ball bearings, opening up to 180°.

## Manufacturing dimensions

	Schröders ES 2
Width (mm)	Maximum 3100 mm
Height (mm)	Maximum 3100 mm

Other measures on request

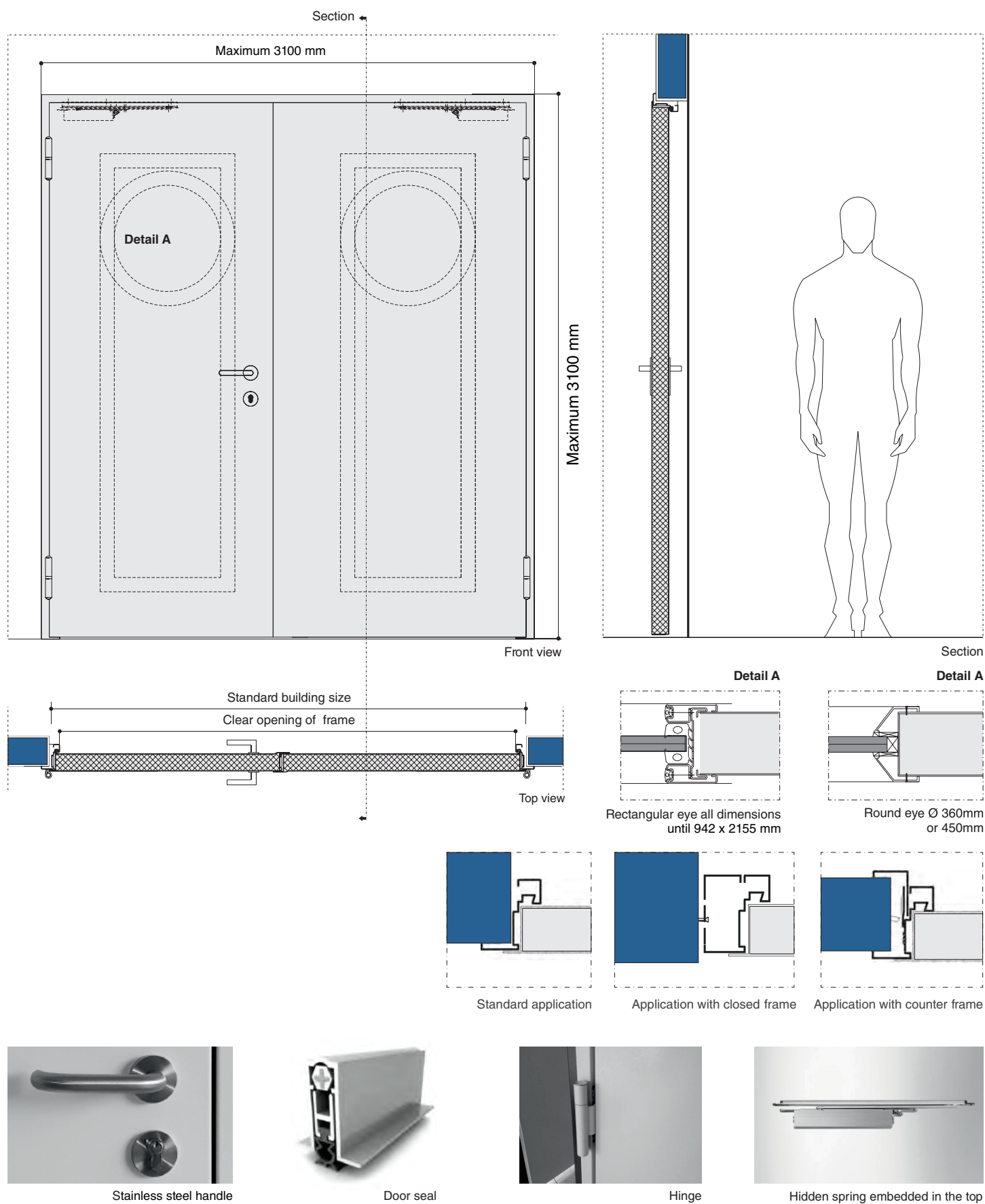
## Accessories

	Schröders ES 2
<b>Locks</b>	Normal function or panic function
<b>Door closers</b>	With link arm or guide rail
<b>Lever handles</b>	Mobile/mobile Mobile/fixe With plate or rosette
<b>Panic exit devices</b>	NN Black / Black NR Black / Red NV Black / Green PP Silver / Silver SI Satin / Stainless steel
<b>Hinges</b>	SISAF SYSTEM SCHRÖDERS integrated in the system
<b>Special Accessories</b>	Access control Magnetic contact Multi points lock available upon request
<b>Finishing</b>	SISAF SYSTEM SCHRÖDERS ES2 doors are supplied with the following finishes: Unfinished for on-site finishing; Powder coating with colours from the standard RAL colour range Stainless steel finishes are also available

Note: Accessories with CE marking









## Product features

Steel door unit, single leafed 68mm thickness made from electro galvanized steel, 1,5mm thick frame and 1,25 thick leaf, welded body and filled with thermal insulation in conformity with the SISAF SYSTEM SCHRÖDERS EIS1 construction model, tested in accordance with the European standard EN 1634-1 and EN 1634-3. Leaf movement by welded hinges in the frame, with 16 mm diameter, solid steel pin and movement on thrust ball bearings, opening up to 180°.

## Manufacturing dimensions

	Schröders EIS 1
Width (mm)	Minimum 625 mm Maximum 1500 mm
Height (mm)	Minimum 1725 mm Maximum 3000 mm

Other measures on request


## Accessories

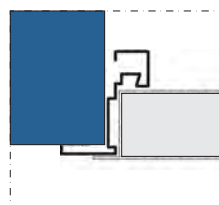
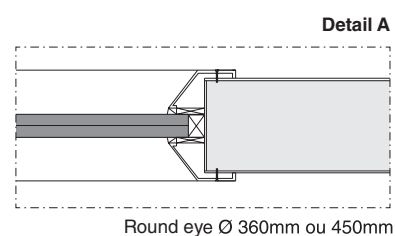
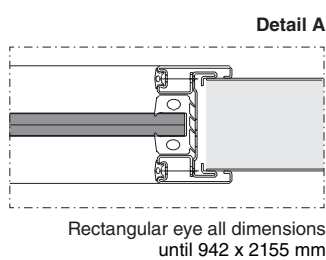
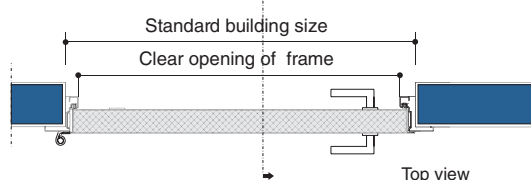
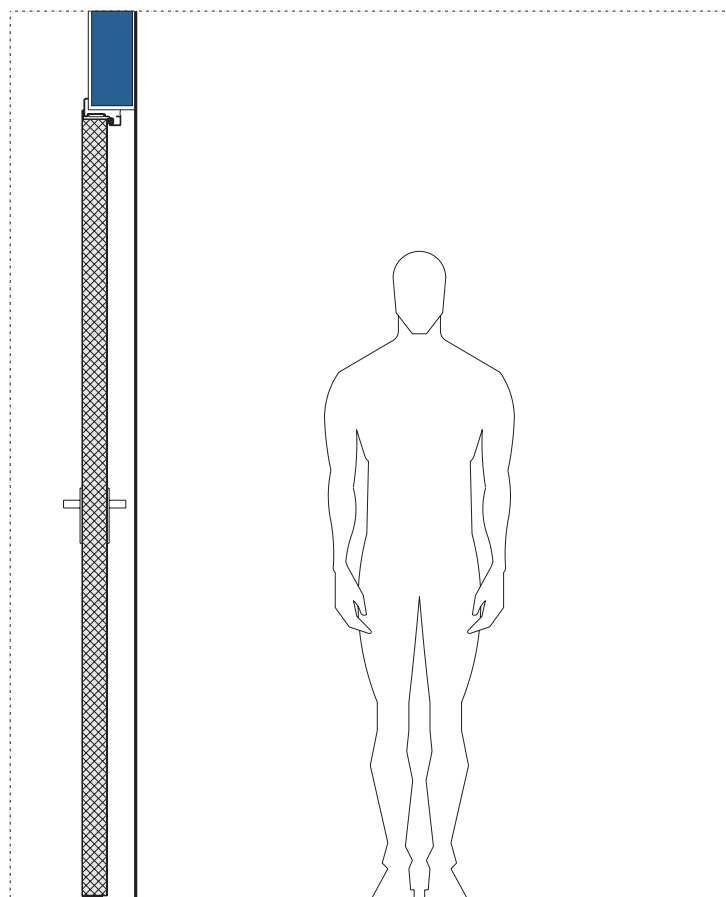
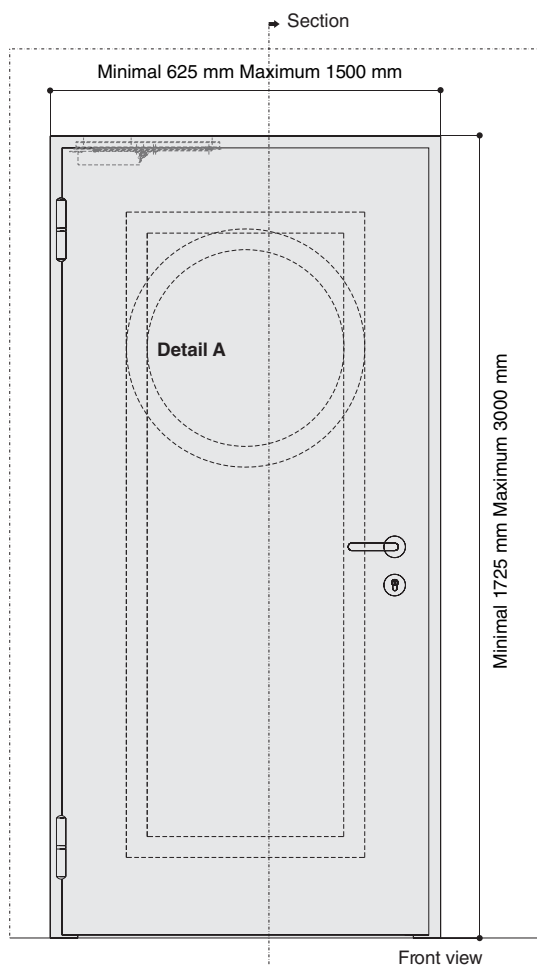
	Schröders EIS 1
<b>Locks</b>	Normal function or panic function
<b>Door closers</b>	With link arm or guide rail
<b>Lever handles</b>	Mobile/mobile Mobile/fixed With plate or rosette
<b>Panic exit devices</b>	NN Black / Black NR Black / Red NV Black / Green PP Silver / Silver SI Satin / Stainless steel
<b>Hinges</b>	SISAF SYSTEM SCHRÖDERS integrated in the system
<b>Special Accessories</b>	Access control Magnetic contact Multi points lock available upon request
<b>Finishing</b>	SISAF SYSTEM SCHRÖDERS EIS1 doors are supplied with the following finishes: Unfinished for on-site finishing; Powder coating with colours from the standard RAL colour range Stainless steel finishes are also available

Note: Accessories with CE marking

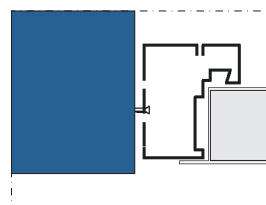
## Certificates SISAF system Schröders EIS 1

<b>Smoke protection</b>	Sa/Sm tested in accordance with EN 1634-3
<b>Airtightness</b>	Up to class 4, according to EN 12207(optional)
<b>Resistance to wind load</b>	Up to class C5, according to EN 12210(optional)
<b>Watertightness</b>	Up to class 8A, according to EN 12208(optional)
<b>Resistance to positive and negative pressure</b>	Up to 5000 Pa (optional)

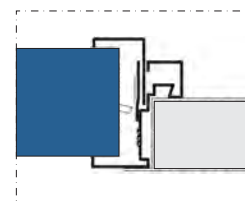
	<b>FIRE RESISTANCE REPORT</b>
WFRC 302467	EI 260 EW 60 E 120
WF 342269	EI 230 E 30 Sa/Sm
WF 342270	EI 245 E 45 Sa/Sm



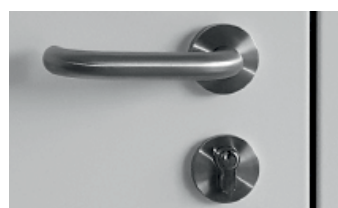
Standard application



Application with closed frame



Application with counter frame



Stainless steel handle



Door seal



Hinge



Hidden spring embedded  
In the top



## Product features

Steel door unit, two-leaf 68mm thickness made from electro galvanized steel, 1,5mm thick frame and 1,25 thick leaf, welded body and filled with thermal insulation in conformity with the SISAF SYSTEM SCHRÖDERS EIS2 construction model, tested in accordance with the European standard EN 1634-1 and EN 1634-3. Leaf movement by welded hinges in the frame, with 16 mm diameter solid steel pin and movement on thrust ball bearings, opening up to 180°.

## Manufacturing dimensions

	Schröders EIS 2
Width (mm)	Minimum 1275 mm Maximum 3000 mm
Height (mm)	Minimum 1870 mm Maximum 3000 mm

Other measures on request


## Accessories

	Schröders EIS 2
<b>Locks</b>	Normal function or panic function
<b>Door closers</b>	With link arm or guide rail
<b>Door coordinator</b>	External or integrated in the guide rail
<b>Lever handles</b>	Mobile/mobile Mobile/fixed With plate or rosette
<b>Panic exit devices</b>	NN Black / Black NR Black / Red NV Black / Green PP Silver / Silver SI Satin / Stainless steel
<b>Hinges</b>	SISAF SYSTEM SCHRÖDERS integrated in the system
<b>Special Accessories</b>	Access control Magnetic contact Multi points lock available upon request
<b>Finishing</b>	SISAF SYSTEM SCHRÖDERS EIS2 doors are supplied with the following finishes: Unfinished for on-site finishing Powder coating with colours from the standard RAL colour range Stainless steel finishes are also available

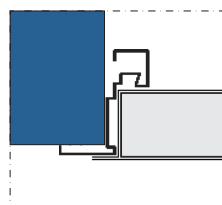
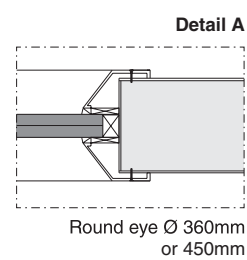
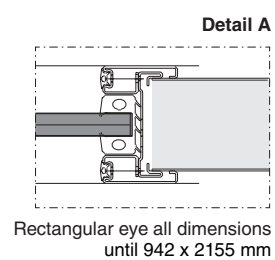
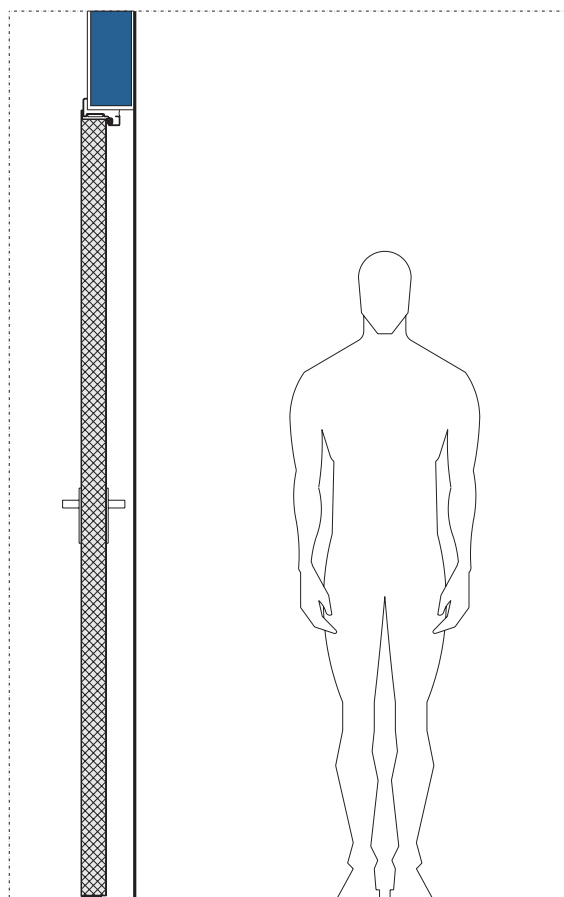
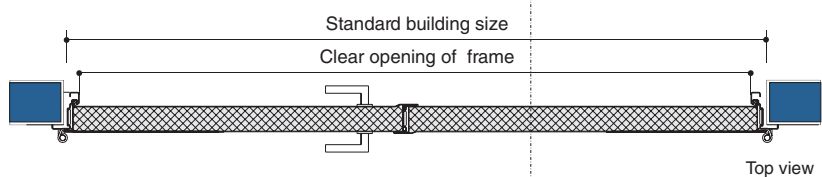
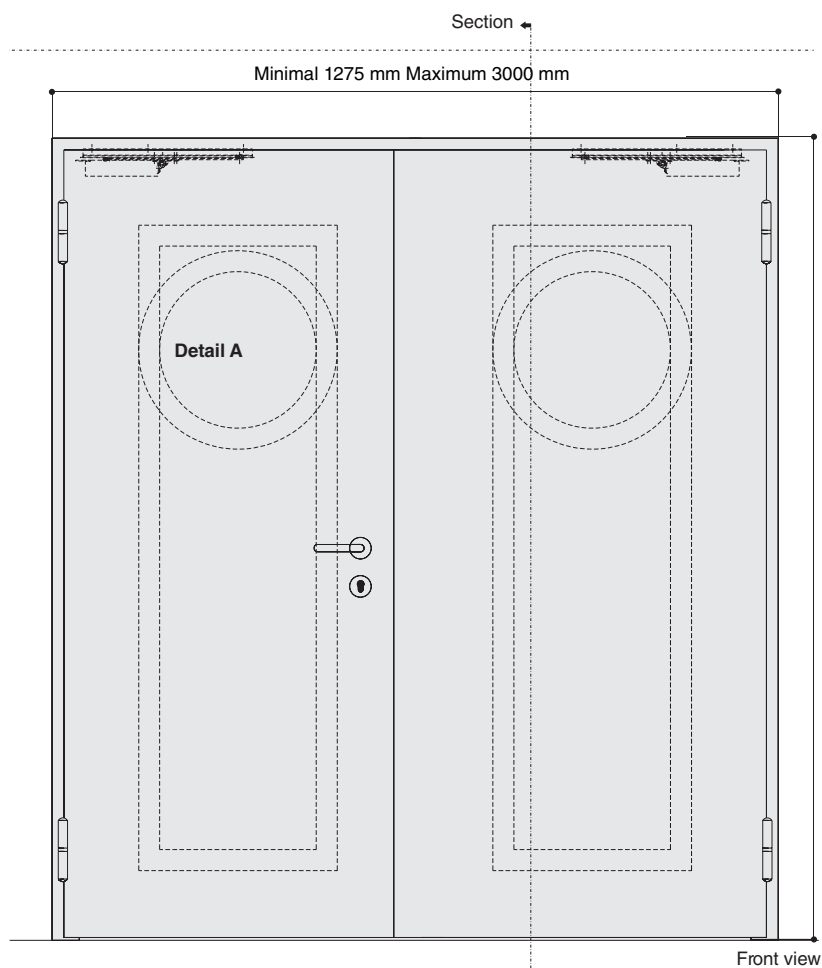
Note: Accessories with CE marking

## Certificates SISAF system Schröders EIS 2

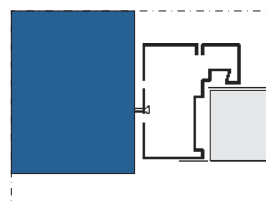
<b>Smoke protection</b>	Sa/Sm tested in accordance with EN 1634-3
<b>Airtightness</b>	Up to class 3, according to EN 12207(optional)
<b>Resistance to wind load</b>	Up to class C4, according to EN 12210(optional)
<b>Watertightness</b>	Up to class 3A, according to EN 12208(optional)
<b>Resistance to positive and negative pressure</b>	Up to 3800 Pa optional

	<b>FIRE RESISTANCE REPORT</b>
WFRC 302467	EW 60 EI 2 60 E 60
WF 342269	EI 2 30 E 30
WF 342270	EI 2 45 E 45

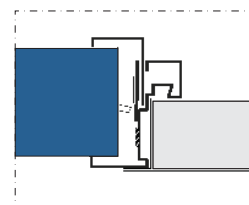




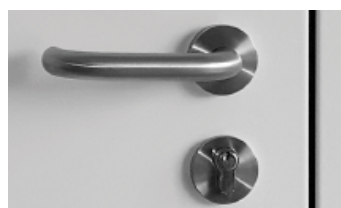
Standard application



Application with closed frame



Application with counter frame



Stainless steel handle



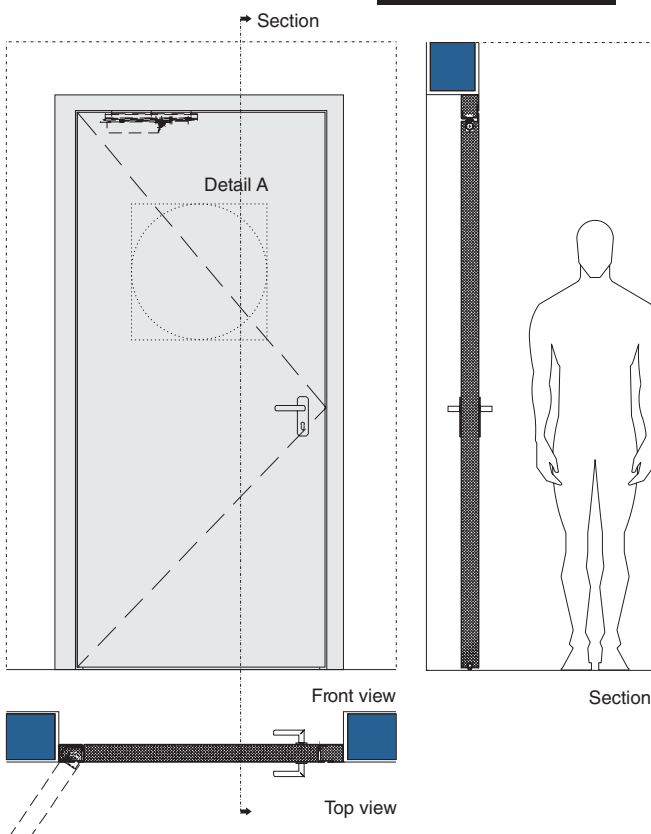
Door seal



Hinge



Hidden spring embedded in the top



## Product features

A metal leaf stopper consisting of a Door / Hoop assembly complimented on both sides. Made of electro-zinc alloy steel sheet with 2 mm thickness in the rim and 1.25 mm thickness in the sheet.

Construction by welding and filling with thermo material insulation, according to the COMPLAN construction model tested in accordance with EN 1634-1 and classifie in accordance with EN 13501-2. Leaf movement by concealed pivoting system COMPLAN F 90-135-3D, concealed inside the rim and with three-axis tuning.

## Manufacturing dimensions

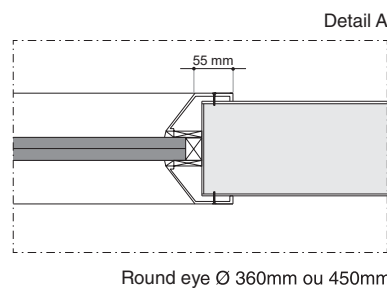
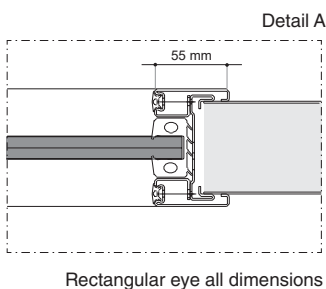
	Complan 1 EI 30	Complan 1 EI 60
Width (mm)	500 to 1060	500 to 920
Height (mm)	1000 to 3080	1000 to 2680

Other measures on request

## Accessories

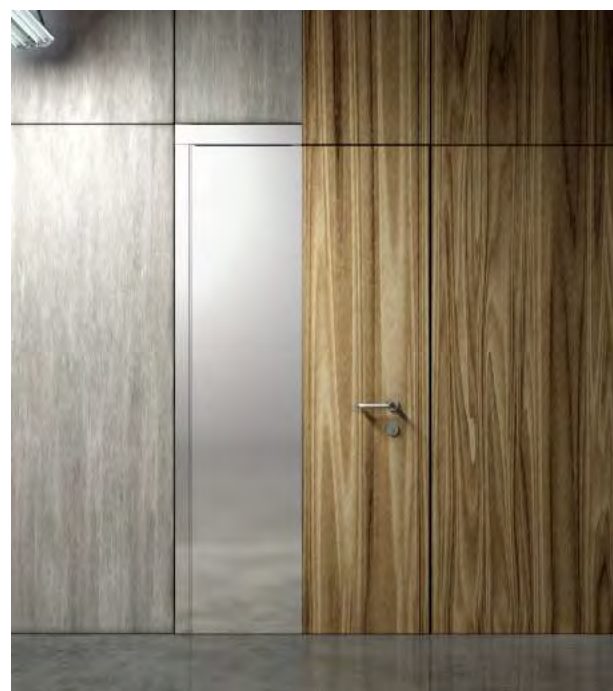
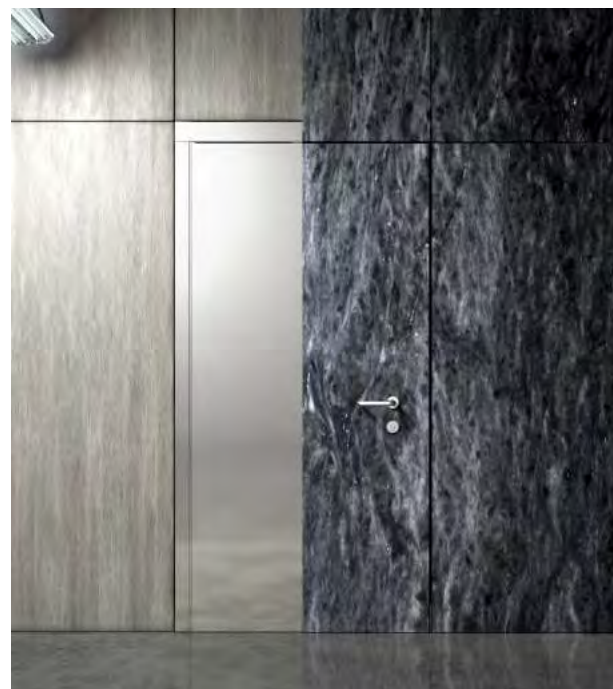
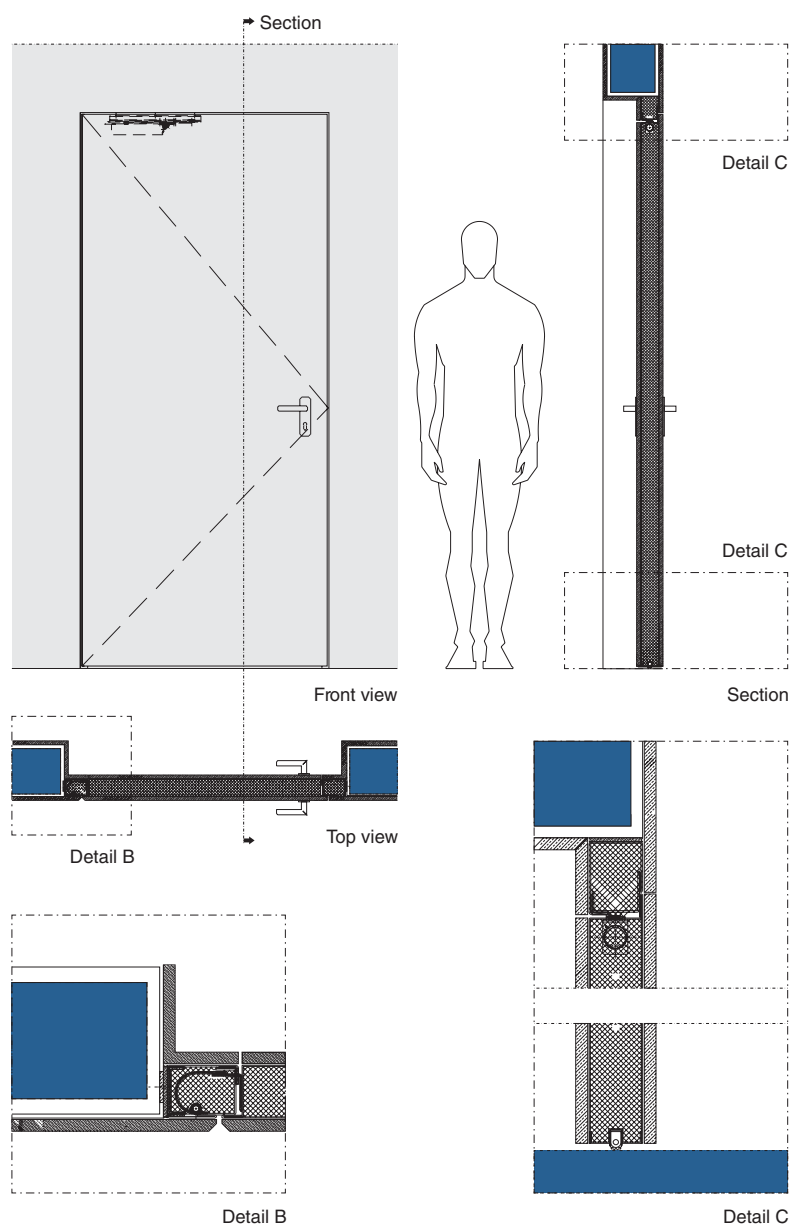
<b>Locks</b>	Normal function or panic function
<b>Springs</b>	Hidden
<b>Handles</b>	PVC Black or stainless steel
<b>Anti-Panic Bars</b>	NN Black / Black NR Black / Red NV Black / Green PP Silver / Silver SI Satin / Stainless steel II Inox / Inox
<b>Hinges</b>	Hidden SISAF 90-135-3, included in system
<b>Special Accessories</b>	Electrical Tables Electrical locks Access control Automatic lock
<b>Finishing</b>	They can be supplied factory-painted or withpreparation for coatings up to 15 mm thick and 200 kg per sheet.

NOTE: Fire resistant doors are equipped with accessories that are proven to be suitable for the function and have CE marking

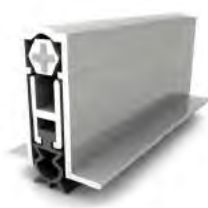


## Options

Possibility of stone, glass, wood and its derivatives coating of the leaf and frame until 15mm thick on both sides.



Stainless steel handle



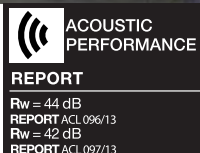
Door seal



Hide hinge by sisaf



Hidden spring embedded  
In the top



## Product features

Metal two-leaf stopper, consisting of an integrally complied door / ring assembly on both sides. Made of 2 mm electro-zinc alloy steel sheet thick in the rim and 1.25 mm thick in the sheet. Construction by welding and filling with thermo-insulating materials, according to the COMPLAN, tested in compliance with the accordance with EN 1634-1 and classified according to standard EN 13501-2. Movement of the leaf by system of concealed pivoting SISAF 90-135-3D, concealed in the inside the rim and with three-axis tuning.

## Manufacturing dimensions

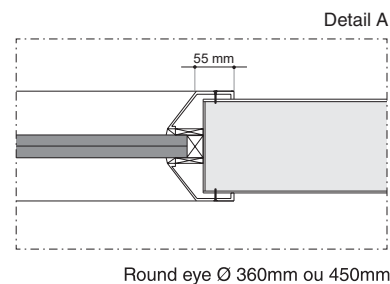
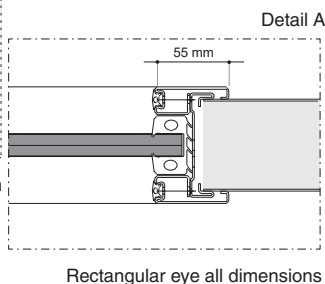
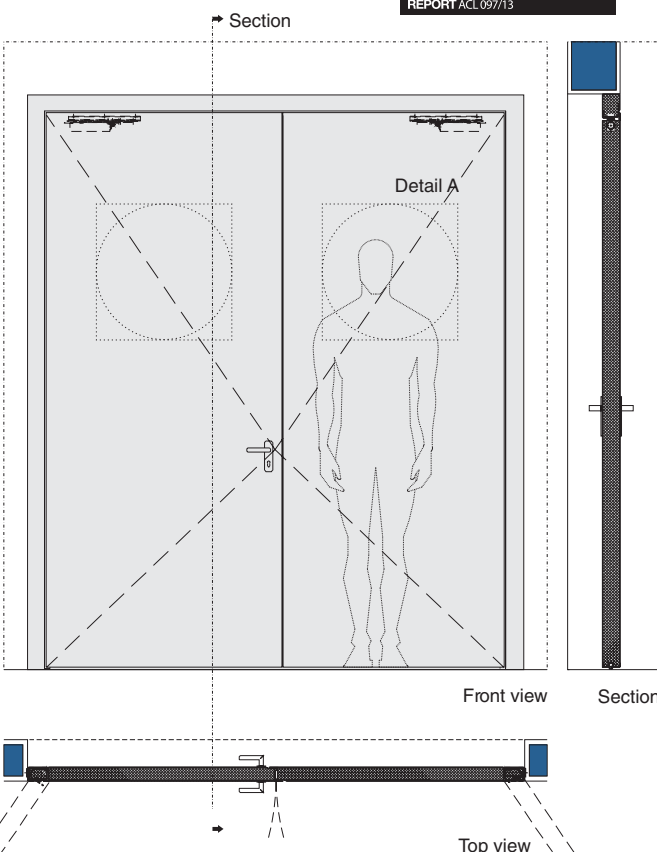
	Complan 2 EI 30	Complan 2 EI 60
Width (mm)	900 to 2070	900 to 1800
Height (mm)	1000 to 2650	1000 to 2300

Other measures on request

## Accessories

<b>Locks</b>	Normal function or panic function
<b>Springs</b>	Concealed with integrated locking selector
<b>Handles</b>	PVC Black or stainless steel
<b>Anti-Panic Bars</b>	NN Black / Black NR Black / Red NV Black / Green PP Silver / Silver SI Satin / Stainless steel II Inox / Inox
<b>Hinges</b>	Hidden SISAF 90-135-3, included in system
<b>Special Accessories</b>	Electrical Tables Electrical locks Access control Automatic lock
<b>Finishing</b>	They can be supplied factory-painted or with preparation for coatings up to 15 mm thick and 200 kg per sheet.

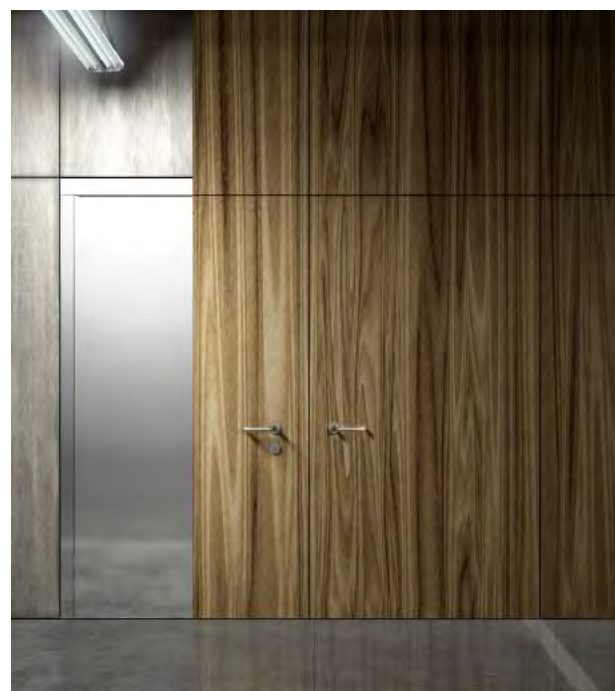
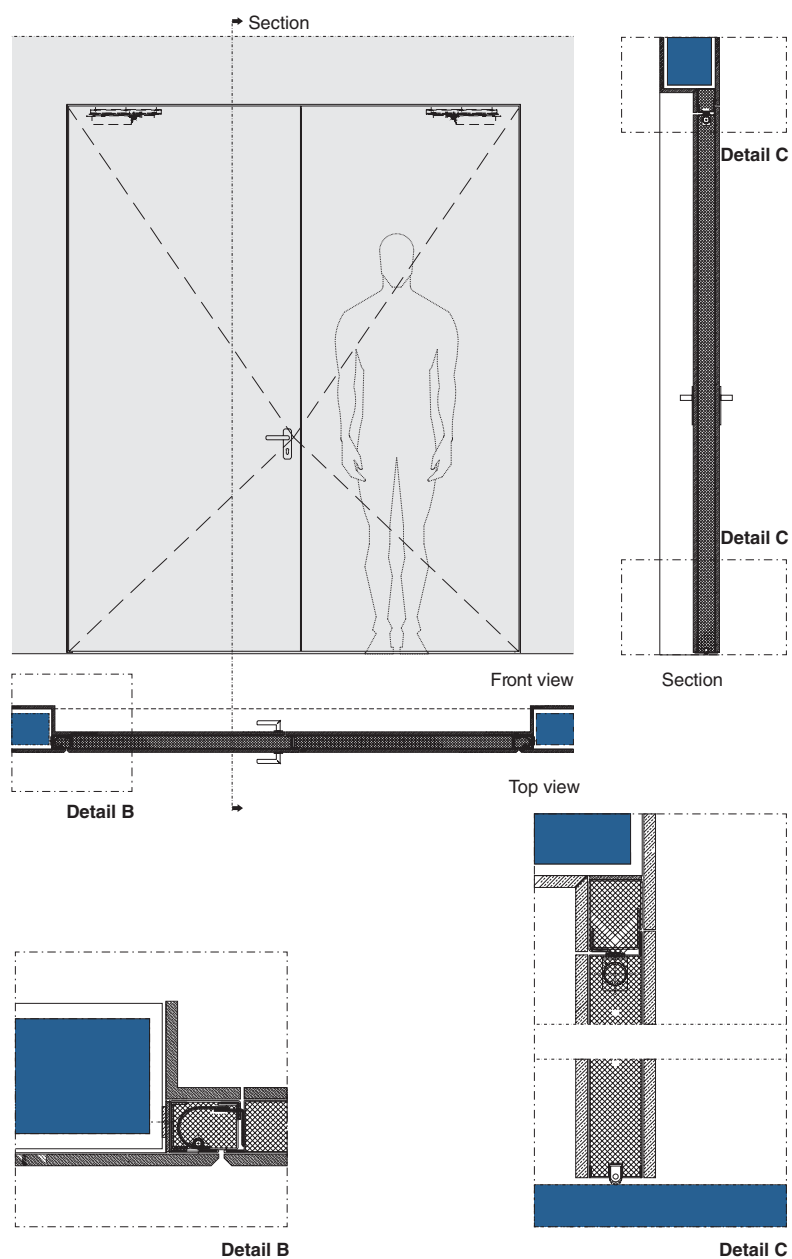
NOTE: Fire resistant doors are equipped with accessories that are proven to be suitable for the function and have CE marking





## Options

Possibility of stone, glass, wood and its derivatives coating the leaf and frame until 15mm thick on both sides.



Stainless steel handle



Door seal



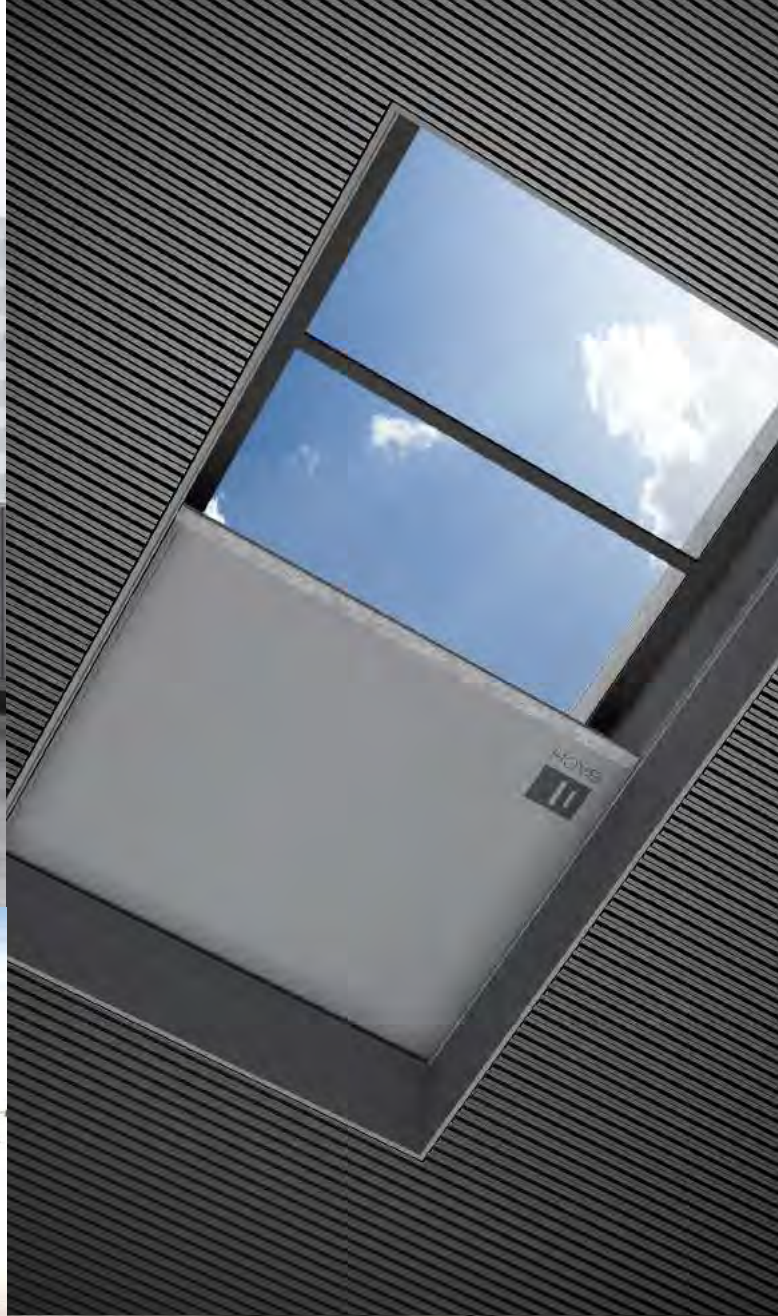
Hide hinge by sisaf



Hidden spring embedded  
In the top











# BACH



ISO 9001:2008  
9190.BRRR



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