



VITRALUX

BRADTKE - depuis 1865



**Lundi – Vendredi**  
08:00 – 17h00



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# PYROSWISS® SBS D 120 (Smoke Barrier System)

Static smoke barrier system application  
with toughened fire resistant safety glass

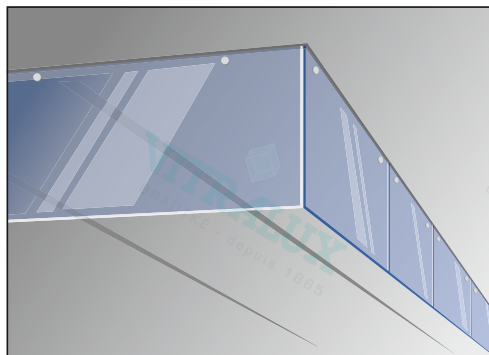
## CLASSIFICATION

### D<sub>600</sub> = temperature/time classification

for smoke barriers operating at 600° C  
minimum temperature in conformance  
with EN 12101-1 (Annex D)

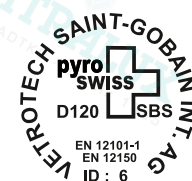
## SYSTEM DESCRIPTION

PYROSWISS® SBS (Smoke Barrier System)  
controls the movement of fire and hot  
smoke within buildings by forming a fixed,  
transparent high temperature barrier.



## APPLICATIONS

- smoke reservoir boundaries
- channeling screens
- corridor containment
- escalator containment
- stairwell containment
- elevator containment



## TECHNICAL SPECIFICATIONS

### System name

Fire resistance (EN 12101-1)

Application

Classification Report No.

Reaction to Fire (EN 13501-1)

CE certificate No. of conformity

### PYROSWISS® SBS D 120

D<sub>600</sub> 120 classification

Static fixed smoke barrier

Efectis - France, EFR-17-000882

A1

0336-CPR-5064-E/06

## TECHNICAL CHARACTERISTICS

Product Standard (Glass)

Nominal glass thickness

Thickness tolerance

Width and length tolerance

Impact resistance (EN 12600)

Transparence

Weight

Light transmission (EN 410)

EN 12150

6 mm

±0,2 mm

±2 mm

1(C)1 classification

Remains transparent in case of fire

15 kg/m<sup>2</sup>

89%

## FIELD OF APPLICATION

Fire protection

Fittings / brackets

Supporting construction

Maximum tested glass size

Minimal dimensions

Number of holes per glass panel

Distance from hole to glass edge (W<sub>1</sub>)

Maximum spacing between holes (W<sub>2</sub>)

Gap at head (a to f)

Gap at edge (g)

Gap at intermediate joint (h)

bi-directional

Electro Galvanized steel or stainless steel

Concrete

2500 × 1800 mm (W × H)

Minimum production size

2 holes

100 mm ≤ W<sub>1</sub> ≤ 350 mm

1800 mm

10 mm

20 mm

5 mm

## OPTIONS

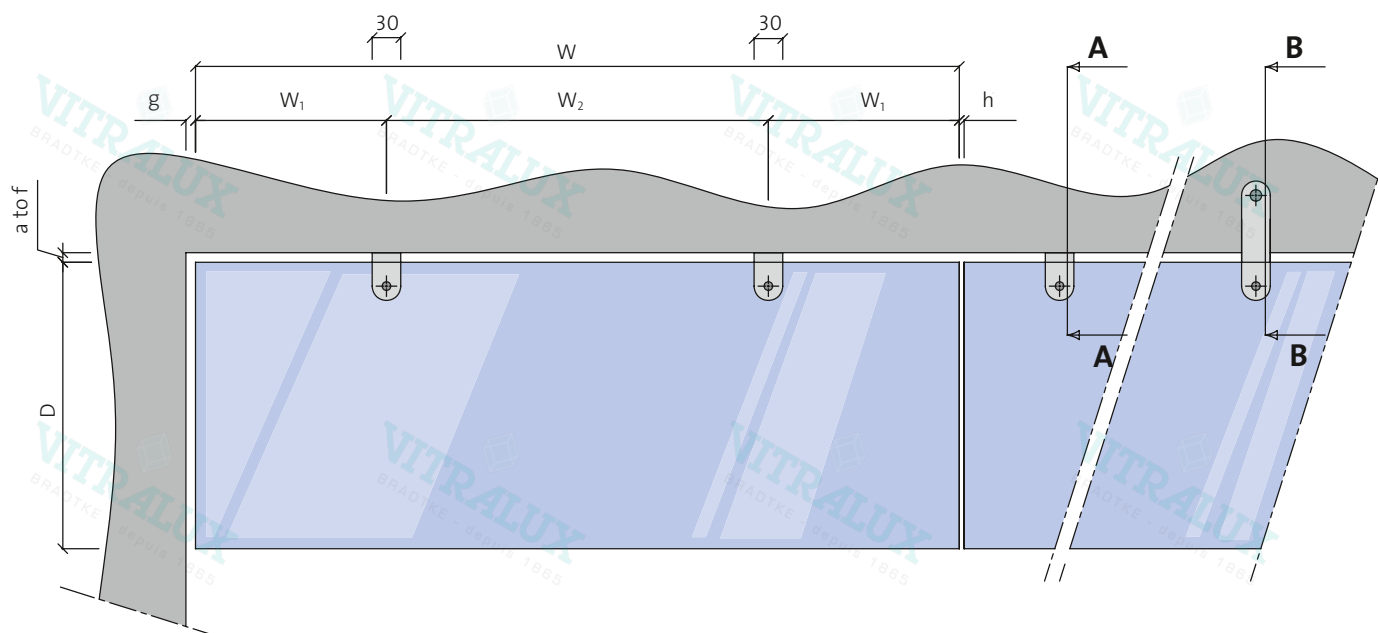
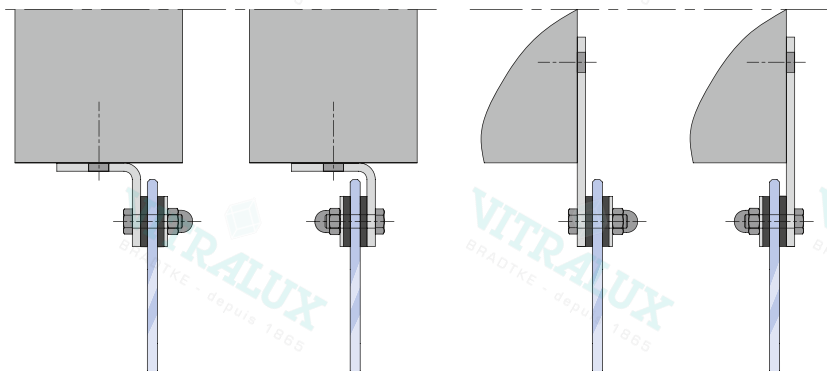
consult with your Vetrotech representative

# PYROSWISS® SBS D 120 (Smoke Barrier System)

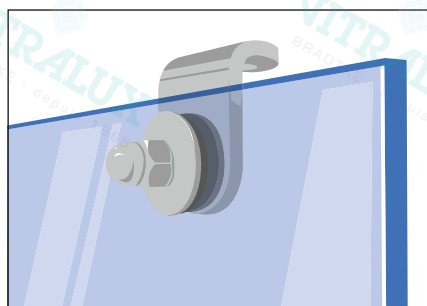
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Section View A-A

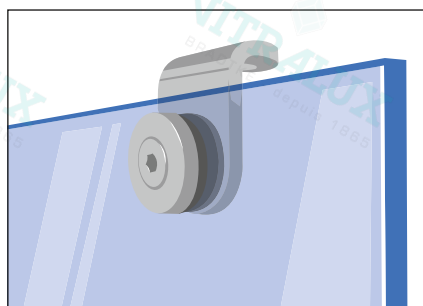
Section View B-B



## FIXING TYPES



System «ECO»  
Electrogalvanized steel fitting



System «DESIGN»  
Stainless steel fitting

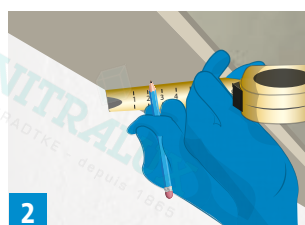
|                |                      |
|----------------|----------------------|
| W              | ≤ 2500 mm            |
| D              | ≤ 1800 mm            |
| W <sub>1</sub> | ≥ 100 mm<br>≤ 350 mm |
| W <sub>2</sub> | ≤ 1800 mm            |
| a to f         | 10 mm                |
| g              | 20 mm                |
| h              | 5 mm                 |

# Installation guidelines

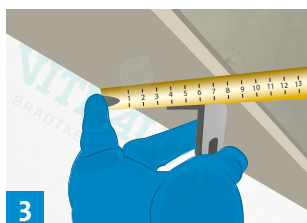
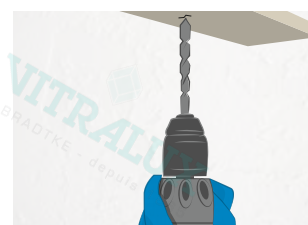
## PYROSWISS® SBS (Smoke Barrier System)



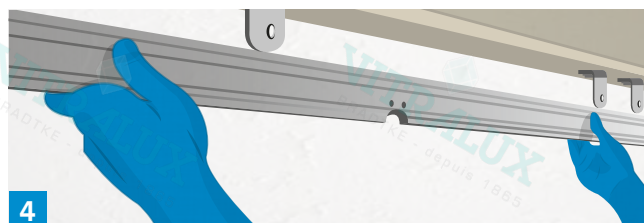
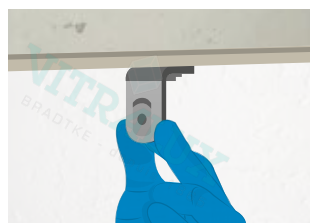
1 Verify that the supporting construction is level.



2 Locate the fixing points of the brackets on the supporting construction (concrete or lightweight partition).



3 Check the alignment of the brackets.



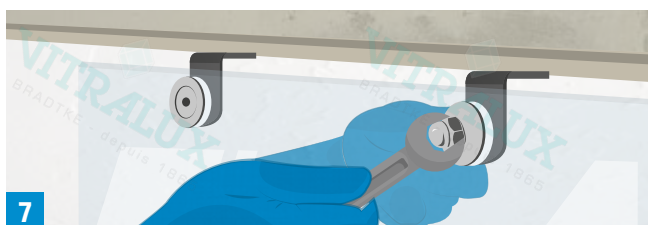
4 Verify that the brackets are level, shim as required.



5 Prepare the brackets placing the intumescent washers onto the bolts (fasteners and washers are supplied with the kit).



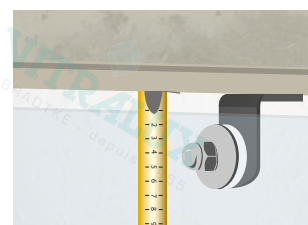
6 Insert the grommets into the holes in the glass panels, then align over the fittings.



7 Holding the glass panel in place, assemble the outer intumescent washers and steel rings, then tighten securely (maximum force 15 N.m).



8 Verify perimeter gaps (a to f) and alignment of the glass panels, adjust as necessary.



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Static smoke barrier system application  
with toughened fire resistant safety glass



0336

Vetrotech Saint-Gobain International AG  
Bernstrasse 43, CH-3175 Flamatt

10

0336-CPR-5064-E/06

## EN 12101-1

Static smoke barrier, type SSB

|                                   |                      |
|-----------------------------------|----------------------|
| Resistance to fire classification | D <sub>600</sub> 120 |
| Response delay                    | NPD                  |

## Opening, gaps and perimeter spaces:

|                                                                                                 |                       |
|-------------------------------------------------------------------------------------------------|-----------------------|
| Gap <sub>head</sub> (a to f)                                                                    | 10 mm                 |
| Gap <sub>edge</sub> (g)                                                                         | 20 mm                 |
| Gap <sub>joint</sub> (h)                                                                        | 5 mm                  |
| Area <sub>head</sub> = W × Gap <sub>head</sub>                                                  | 25000 mm <sup>2</sup> |
| Area <sub>edge</sub> = D × Gap <sub>edge</sub>                                                  | 36000 mm <sup>2</sup> |
| Area <sub>joint</sub> = D × Gap <sub>joint</sub>                                                | 9000 mm <sup>2</sup>  |
| Area total = N1 × Area <sub>head</sub> + N2 × Area <sub>edge</sub> + N3 × Area <sub>joint</sub> |                       |
| Maximum barrier permeability                                                                    | NPD                   |
| Tested at ambient temperature                                                                   | NPD                   |

## Two standard fitting options

SYSTEM «ECO»  
Electro Galvanized Steel



SYSTEM «DESIGN»  
Stainless Steel





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