



VITRALUX

BRADTKE - depuis 1865



Lundi – Vendredi
08:00 – 17h00



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PYROSWISS® SBS DH 30 (Smoke Barrier System)

Static smoke barrier system application
with toughened fire resistant safety glass

CLASSIFICATION

DH = temperature/time classification

for smoke barriers operating at higher
temperature (EN 1363-1) in conformance
with EN 12101-1

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.

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 DH 30

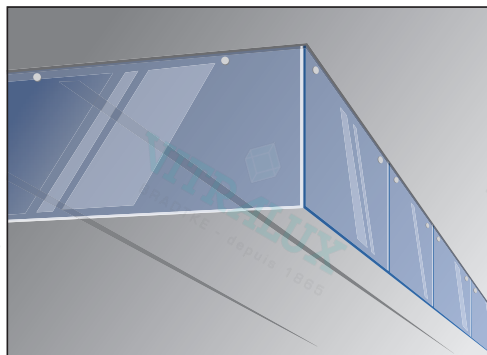
DH 30 classification

Static fixed smoke barrier

Efectis - France, EFR-17-000880

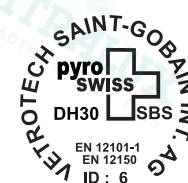
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0336-CPR-5064-E/06



APPLICATIONS

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



TECHNICAL CHARACTERISTICS

Product Standard (Glass)

EN 12150

Nominal glass thickness

6 mm

Thickness tolerance

±0,2 mm

Width and length tolerance

±2 mm

Impact resistance (EN 12600)

1(C)1 classification

Transparence

Remains transparent in case of fire

Weight

15 kg/m²

Light transmission (EN 410)

89%

FIELD OF APPLICATION

Fire protection

bi-directional

Fittings / brackets

Electro Galvanized steel or stainless steel

Supporting construction

Concrete or lightweight partition wall type 98/48 (or greater)

Maximum tested glass size (Landscape Format)

2000 × 1100 mm (W × H)

Maximum tested glass size (Portrait Format)

1000 × 1600 mm (W × H)

Minimal dimensions

Minimum production size

Number of holes per glass panel

2 holes

Distance from hole to glass edge (W₁) (Landscape Format)

100 mm ≤ W₁ ≤ 350 mm

Distance from hole to glass edge (W₁) (Portrait Format)

100 mm ≤ W₁ ≤ 250 mm

Maximum spacing between holes (W₂) (Landscape Format)

1300 mm

Maximum spacing between holes (W₂) (Portrait Format)

500 mm

Gap at head (a to f)

10 mm

Gap at edge (g)

20 mm

Gap at intermediate joint (h)

5 mm

OPTIONS

consult with your Vetrotech representative

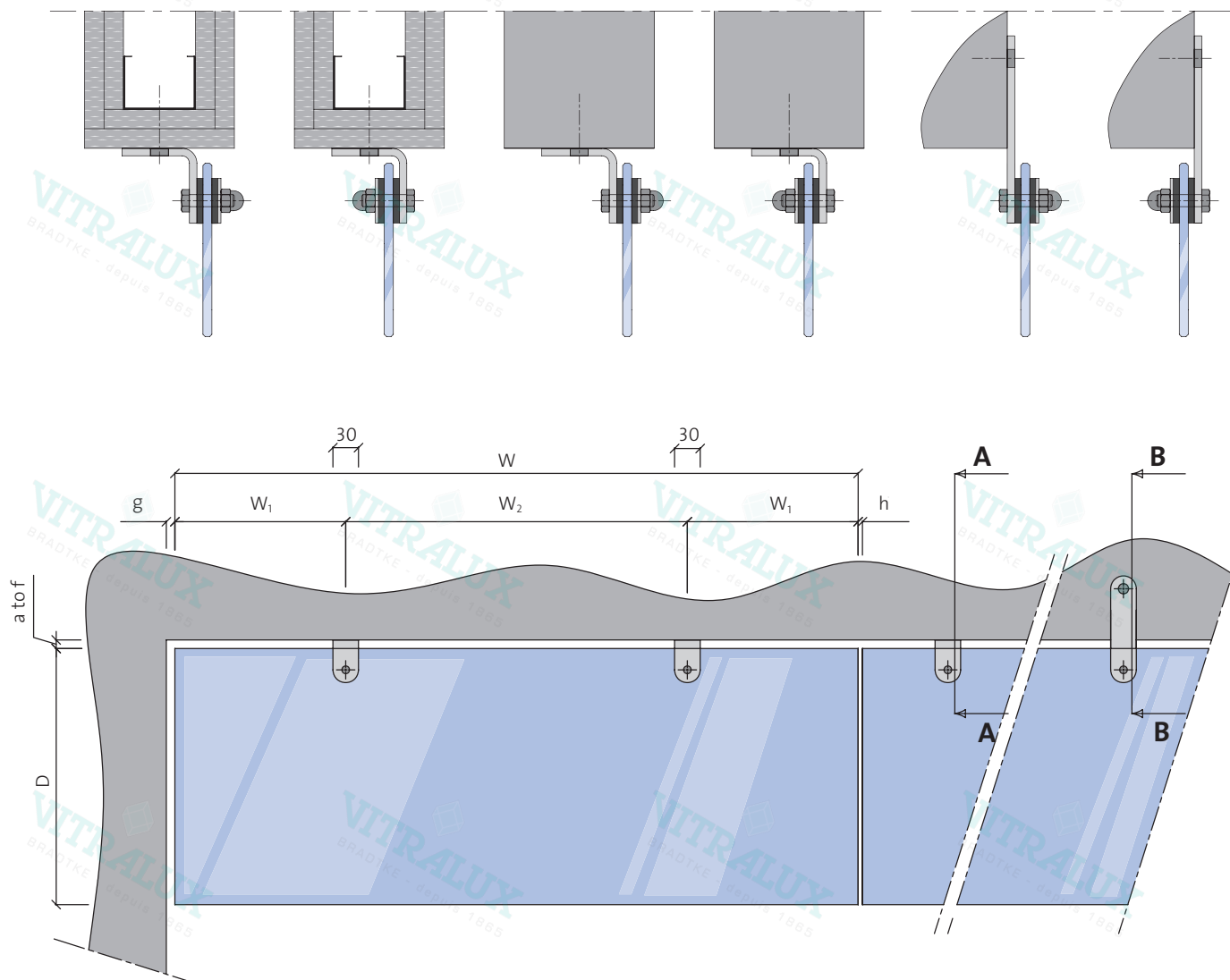
- Glass shapes

PYROSWISS® SBS DH 30 (Smoke Barrier System)

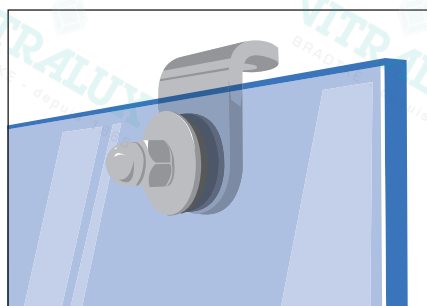
Static smoke barrier system application
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Section View A-A

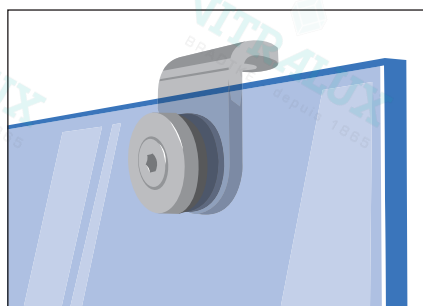
Section View B-B



FIXING TYPES



System «ECO»
Electrogalvanized steel fitting



System «DESIGN»
Stainless steel fitting

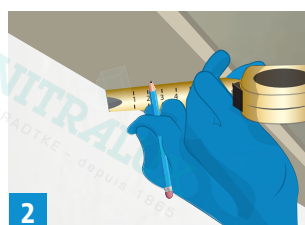
Format	Landscape	Portrait
W	≤ 2000 mm	≤ 1000 mm
D	≤ 1100 mm	≤ 1600 mm
W ₁	≥ 100 mm ≤ 350 mm	≥ 100 mm ≤ 250 mm
W ₂	≤ 1300 mm	≤ 500 mm
a to f	10 mm	10 mm
g	20 mm	20 mm
h	5 mm	5 mm

Installation guidelines

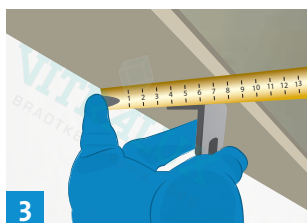
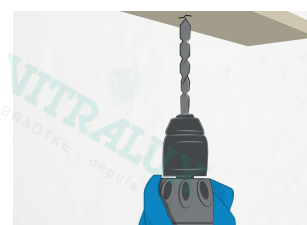
PYROSWISS® SBS (Smoke Barrier System)



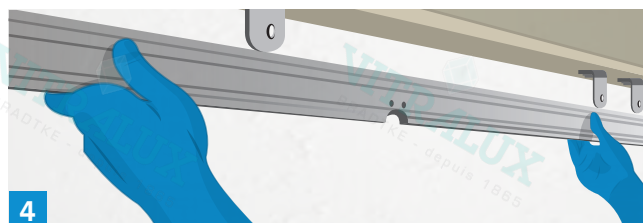
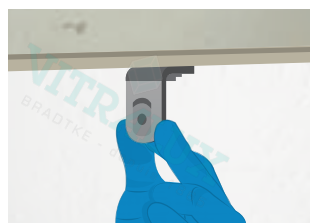
1 Verify that the supporting construction is level.



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



3 Check the alignment of the brackets.



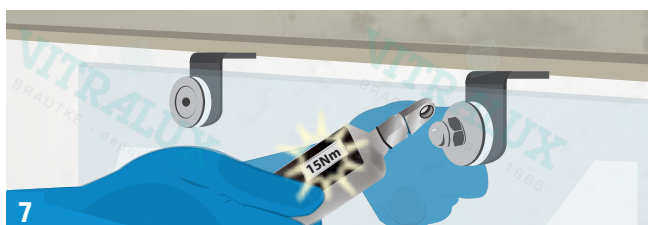
4 Verify that the brackets are level, shim as required.



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



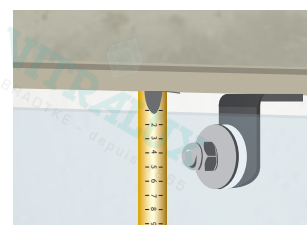
6 Insert the grommets into the holes in the glass panels, then align over the fittings.



7 Holding the glass panel in place, assemble the outer intumescent washers and steel rings with an exact force of 15 Nm.



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



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with toughened fire resistant safety glass



0336

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

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0336-CPR-5064-E/06

EN 12101-1

Static smoke barrier, type SSB

Resistance to fire classification DH 30

Response delay NP

Opening, gaps and perimeter spaces:

Gap_{head} (a to f) 10 mm

Gap_{edge} (g) 20 mm

Gap_{joint} (h) 5 mm

Area_{head} = W × Gap_{head} 20000 mm²

Area_{edge} = D × Gap_{edge} 32000 mm²

Area_{joint} = D × Gap_{joint} 8000 mm²

Area total = N1 × Area_{head} + N2 × Area_{edge} +

N3 × Area_{joint}

Maximum barrier permeability NP

Tested at ambient temperature NP

Two standard fitting options

SYSTEM «ECO»
Electro Galvanized Steel



SYSTEM «DESIGN»
Stainless Steel





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