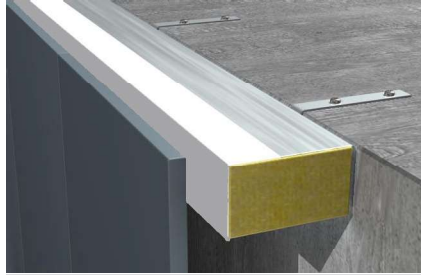


fischer FirelBarr - Building Envelop Fire Barrier Systems



Designed to protect the building void between the inner and outer construction elements



FFB-VS Ventistop



FFB-VS Ventistop

2

Products

BUILDING MATERIALS

- Concrete slabs, columns and walls
- Curtain wall assemblies
- Stone cladding, etc.

ASSESSMENT/APPROVAL

British Standard

BS 476-20: 1987

BS EN 1363-1-TG19

ADVANTAGES

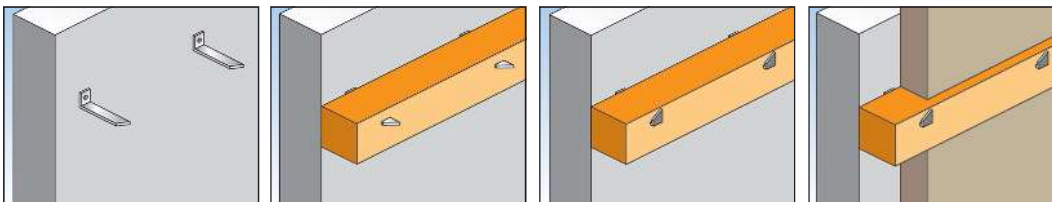
- Fire resistant testing to BS476 to 120 and 60 minutes
- Acoustic isolation on testing to EN10140 to 39 dB (non-ventilated)
- Suitable for close up to 25 mm ventilation gap
- Voids up to 450 mm wide
- Free of halogens, asbestos, fibres and silica and is non-toxic
- Life expectancy of over 25 years
- Contributes to green building

APPLICATIONS

- Horizontal and vertical cavities between the inner and outer construction elements

FUNCTIONING

- FFB-VS a foil-faced stone wool pre-cut unit, which has a powerful intumescent graphite strip bonded to the exposed face. The intumescent graphite strip is pre-wrapped with a durable polythene adhesive sheet to prevent water ingress.
- FFB-VS has been designed to provide a 25 mm air gap, that allows air flow and moisture to pass down the back of the cladding. Under fire conditions, the powerful intumescent along the front edge expands horizontally to close the gap and prevent the passage of fire.



SPECIFICATIONS FFB-VS

Item	Art.No.	To suit cavity void width [mm]	Colour	Fire rating	Sales unit [pcs]
FFB-VS/25-50	521520	25 - 50	Red/silver/black	2	48
FFB-VS/51-100	521521	51 - 100	Red/silver/black	2	24
FFB-VS/101-150	521522	101 - 150	Red/silver/black	2	48
FFB-VS/151-200	521523	151 - 200	Red/silver/black	2	14
FFB-VS/201-250	521524	201 - 250	Red/silver/black	2	11
FFB-VS/251-300	521525	251 - 300	Red/silver/black	2	11
FFB-VS/301-350	521526	301 - 350	Red/silver/black	2	TBA
FFB-VS/351-400	521527	315 - 400	Red/silver/black	2	9
FFB-VS/401-450	521528	401 - 450	Red/silver/black	2	6

IMPORTANT: Please provide TOTAL cavity width for your application, excluding any insulation there might be.

TECHNICAL DATA

Description	Foil faced stone with a black intumescent edge
Fire resistance - FFB-VS	BS467 20/22 60 min., DIN 4102 B2 - 30/30
Closure time - FFB-VS	needs to be > 5 min
Activation	Approx. 180 °C (intumescent material)
Expansion pressure	Approx. 07 N/mm ²
Density	Stone wool - 80 kg/m ³ intumescent 1.3 g/cm ³
Weather resistance	Yes
Sag	0 %
Open void size - FFB-VS	25 mm to 50 mm
Dimensions	75 mm Thick 1000 mm Long
Width	FFB-VS (30 mm to 450 mm)
Brackets	FFB-VS (3 per unit)

The fire-protection-tested metal insulation support for fire-resistant insulating boards



BUILDING MATERIALS

- Concrete
- Hollow blocks made from lightweight concrete
- Vertically perforated brick
- Perforated sand-lime brick
- Solid sand-lime brick
- Natural stone with dense structure
- Aerated concrete
- Solid brick made from lightweight concrete
- Solid brick

ASSESSMENT/APPROVAL



ADVANTAGES

- The metal insulation support achieves fire resistance F 120. This means that it can be used where there are fire resistance requirements.
- The DTM 80 plate for soft insulating materials (available separately) simplifies storage and minimises costs.
- The simple hammer-set installation allows for a quick installation process and thus reduces workload.
- The shaft geometry allows setting in aerated concrete without pre-drilling, thus saving a stage of installation.
- Stainless steel version DHM A2 (1.4301) for wet and exterior applications.

APPLICATIONS

To fix fire-resistant soft or pressure-resistant insulating materials, such as:

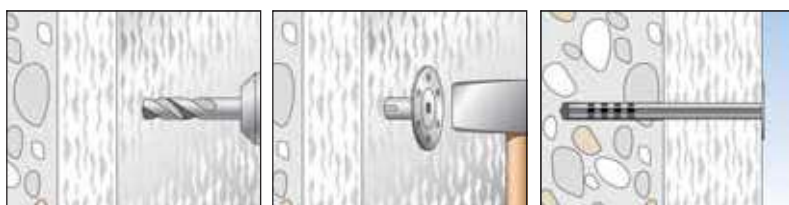
- Mineral / glass wool
- Light building boards made of wood wool
- Foam glass tiles

Also suitable for:

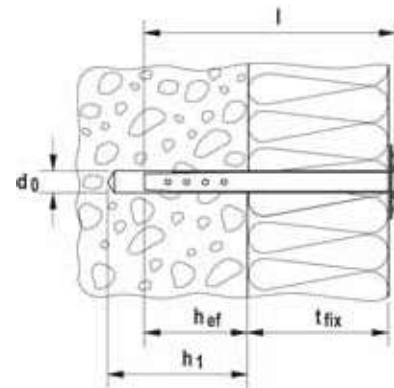
- Polystyrene boards
- Coir matting

FUNCTIONING

- The insulation support is set in push-through installation using a hammer.
- The spring steel expands when hammered into the base material.
- Use the DTM 80 plate (available separately) to fix soft insulating materials.



TECHNICAL DATA



Insulation support metal **DHM**,
washer-ø 35 mm

Insulation retaining metal washer **DTM 80**,
washer-ø 80 mm, inside-ø 11 mm

	galvanised steel	stainless steel A2	Approval	Drill hole dia- meter	Min. drill hole depth	Effect. anchorage depth	Anchor length	Usable length	Sales unit
	Art.-No.	Art.-No.	DIBt	d ₀ [mm]	h ₁ [mm]	h _{ef} [mm]	l [mm]	t _{fix} [mm]	[pcs]
Item	fvz	A2							
DHM 40	536253	536262	•	8	50	40	80	10 - 40	250
DHM 70	536254	536264	•	8	50	40	110	40 - 70	250
DHM 100	536256	536265	•	8	50	40	140	70 - 100	250
DHM 130	536257	536266	•	8	50	40	170	100 - 130	250
DHM 160	536258	536267	•	8	50	40	200	130 - 160	250
DHM 210	536259	536268	•	8	50	40	250	170 - 210	125
DHM 260	536260	536269	•	8	50	40	300	220 - 260	125
DTM 80	536261	536271	—	—	—	—	—	—	250

ACCESSORIES



Cover cap **DHM ADK-W**



Cover cap **DHM ADK-GR**



Cover cap **DHM ADK-BG**

Item	Art.-No.	Diameter d [mm]	Colour	Outer carton [pcs]	Sales unit [pcs]			
DHM ADK-W	013330	37	white	5000	250			
DHM ADK-GR	046843	37	grey	10000	250			
DHM ADK-BG	046844	37	beige	2500	250			

LOADS

Insulation support DHM

Highest recommended loads¹⁾ for a single anchor.

Type			DHM
Recommended loads in the respective base material F _{rec} ²⁾			
Concrete ³⁾	≥ C12/15	[kN]	0,25
Solid brick	Mz 12	[kN]	0,25
Solid sand-lime brick	KS 12	[kN]	0,25
Aerated concrete (without pre-drilling)	≥ PB2, PP2 (G2)	[kN]	0,10

¹⁾ Includes the safety factor 4.

²⁾ Valid for tensile load.

³⁾ German approval in cracked concrete 0,07 [kN].

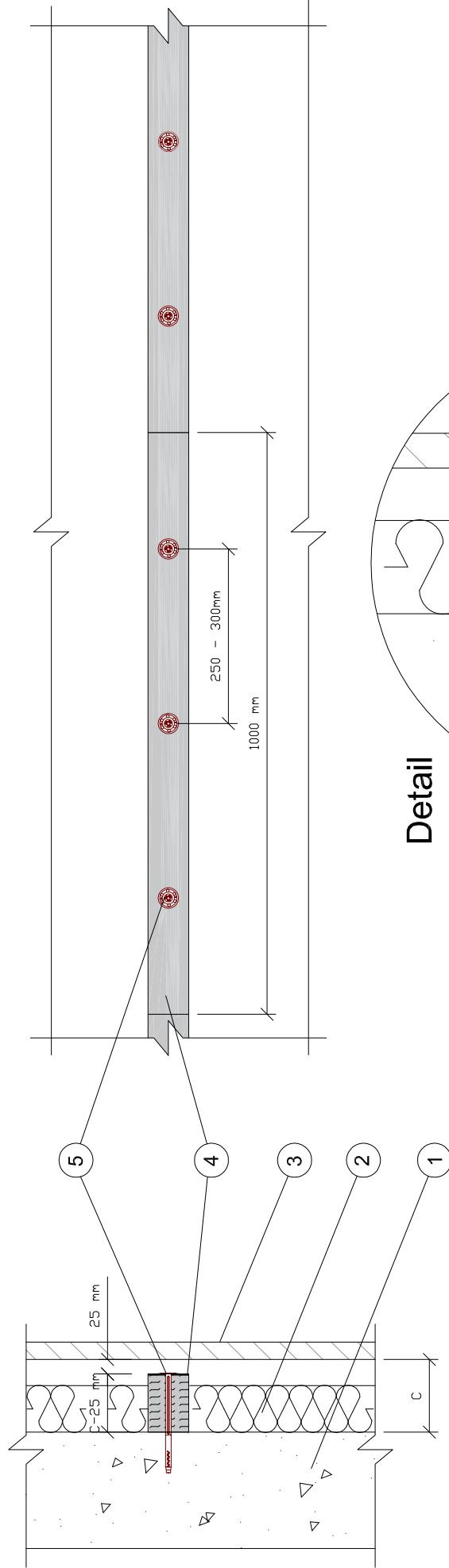
ACCESSORIES



Items to order only		Tool holder	Fits	Sales unit
Item	Art.-No.			[pcs]
EA II S-SDS 6	048065	SDS plus	EA II M 6	1

Standard Detail

Open State - Rainscreen Fire Barrier up to 300 mm (12 in)



Detail

- 1 Substrate
- 2 Insulation
- 3 Cladding Material
- 4 fischer FFB VS Ventistop
- 5 fischer DHM Metal Insulation Anchor for cavities up to 300 mm (12 in)

Note: fischer FFB VS Ventistop is manufactured to project specification

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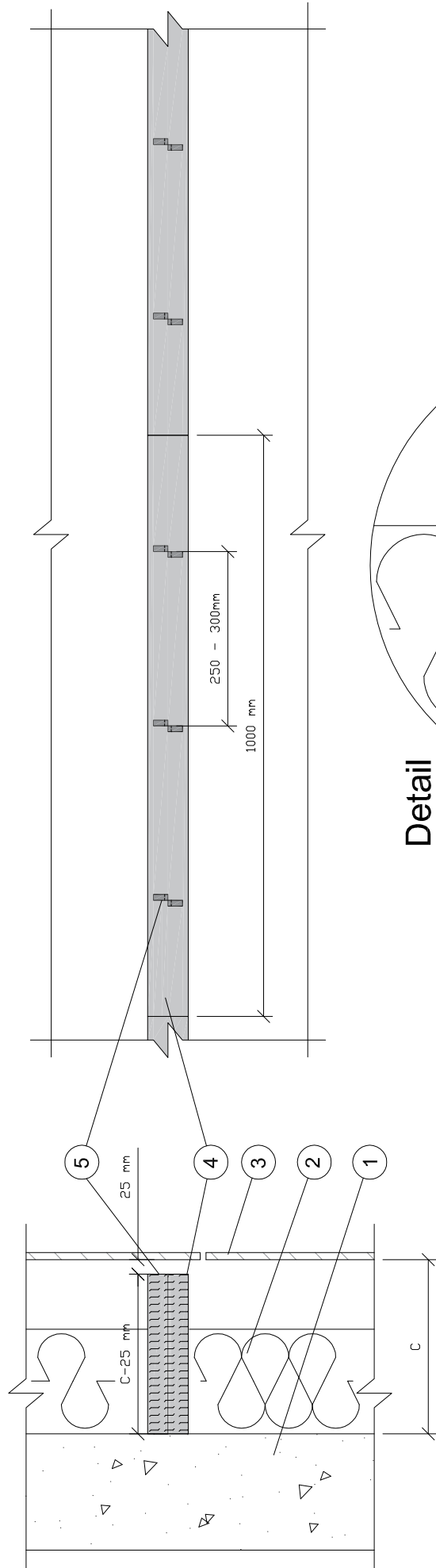
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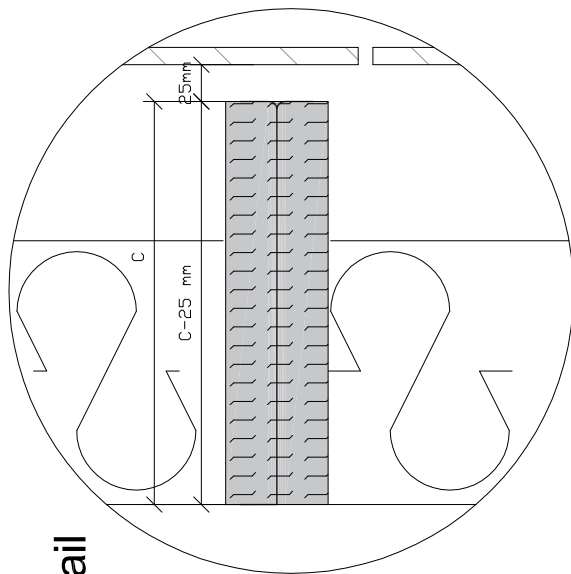
Standard Detail

Open State - Rainscreen Fire Barrier greater than 300 mm (12 in)



- 1 Substrate
- 2 Insulation
- 3 Cladding Material
- 4 fischer FFB VS Ventistop
- 5 Bracket for cavities greater than 300 mm (12 in)

Detail



Note: fischer FFB VS Ventistop is manufactured to project specification

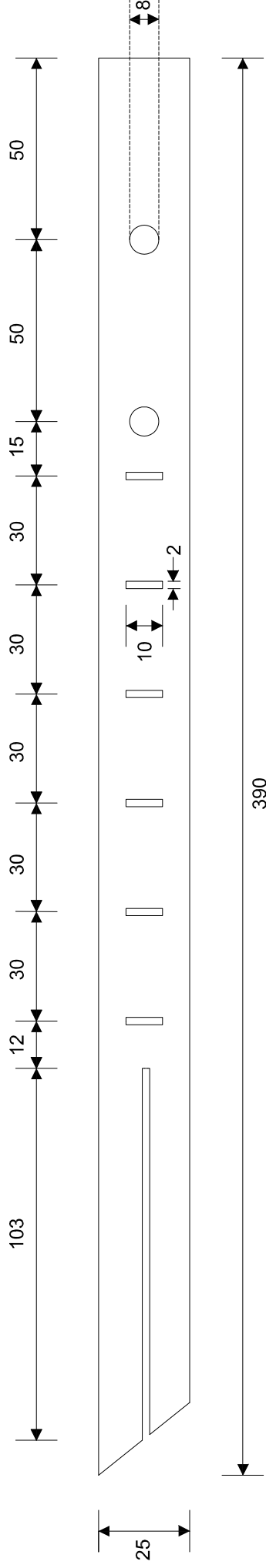
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fischer FCFcl Fixing Bracket Detail

0.9mm Galv. Steel



All edges smooth
Remove burrs and draw down
Material:
TOLERANCE +/- 0.02
NOM 20 GA (0.9 mm)

DO NOT SCALE - REF ONLY



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