fischer FireIBarr -
Building Envelope Fire Barrier Systems
Cavity FireStop Clad - FCFcl

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

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

**Applications**
- Horizontal and vertical cavities between the inner and outer construction elements
- Ceiling Cavity Barriers
- Under Floor Cavity Barriers
- Slab Edge Barriers

**Advantages**
- Tested to EN 1366-4 & BS 476
- Classification to EN 13501-2, EN 13501-1.
- Air Permeability to EN 1026 to 600Pa.
- Acoustic isolation to EN 10140 to 31dB.
- CWP of 0% Global Warming Potential.
- ODP of 0% Ozone Depletion Potential.
- Superior Level of Sustainability.
- Encased Fibre Migration for Air Plenum Use.
- Brackets included in the pack.
- Life expectancy of over 25 years.
- Contributes to Green Building.
- Floor voids aids up to 580mm wide.
- Wall voids up to 560mm wide.

**Functioning**
- FCFcl Cavity Clad comprises of a one piece closed dimension stone wool core.
- The product is encased with an aluminum foil face which provides class ‘O’ rating and exhibits excellent resistance to smoke.
- The FCFcl Cavity Clad provides a resilient lateral compression which is required to ensure a tight fit.

<table>
<thead>
<tr>
<th>British Standard</th>
<th>BS 476 - 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 1366-4: 2006</td>
<td></td>
</tr>
<tr>
<td>EN ISO 10140-3 : 1995</td>
<td>0863/CP/J026/1</td>
</tr>
</tbody>
</table>

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**Assessment/Approval**

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**SPECIFICATIONS FFB-VS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Art. No.</th>
<th>Dimension of Panel [mm]</th>
<th>Colour</th>
<th>Fire rating</th>
<th>Sales unit [pcs]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCFcl 75</td>
<td>546210</td>
<td>1200 x 600 x 75</td>
<td>silver</td>
<td>Up to 2**</td>
<td>1</td>
</tr>
<tr>
<td>FCFcl 100</td>
<td>53046</td>
<td>1200 x 800 x 100</td>
<td>silver</td>
<td>Up to 2**</td>
<td>1</td>
</tr>
<tr>
<td>FCFcl 1200</td>
<td>546209</td>
<td>1200 x 1200 x 100</td>
<td>silver</td>
<td>Up to 2**</td>
<td>1</td>
</tr>
<tr>
<td>Multi Purpose Bracket</td>
<td>58577</td>
<td>390 x 25 x 2</td>
<td>silver</td>
<td>Up to 2**</td>
<td>1</td>
</tr>
</tbody>
</table>

**IMPORTANT:** Please provide TOTAL cavity width for your application, including any insulations there might be.

FCFcl Cavity Brick shall be cut 10mm (3/8") even sizes.

*Depending on design & configuration of the FCFcl Cavity Brick.

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**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Description</th>
<th>Foil faced structural stone wool composite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire resistance - FCFcl</td>
<td>RS407.20 / EN1366-4 up to 120min</td>
</tr>
<tr>
<td>Thermal</td>
<td>0.35 to 0.36W/mK</td>
</tr>
<tr>
<td>Density</td>
<td>80 kg/m³</td>
</tr>
<tr>
<td>Build</td>
<td>Stone wool - 80 kg/m³ intumescent 1.3 g/cm³</td>
</tr>
<tr>
<td>Acoustic (EN10140)</td>
<td>31dB</td>
</tr>
<tr>
<td>Air Permeability (EN10226)</td>
<td>600 pa-100 pa 2.6/4.2 m³/hr/m2</td>
</tr>
<tr>
<td>Thickness</td>
<td>75 mm: 6100 mm</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1200 x 600 &amp; 1200 x 1200</td>
</tr>
<tr>
<td>Compression</td>
<td>Min 16mm</td>
</tr>
<tr>
<td>Brackets</td>
<td>Required over cavity of 150 mm [per meter]</td>
</tr>
</tbody>
</table>
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

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

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 minimizes 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.

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.
Insulation support DHM

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Item</th>
<th>Art.-No. (galvanised steel)</th>
<th>Art.-No. (stainless steel A2)</th>
<th>Approval</th>
<th>Drill hole diameter ( d_0 ) [mm]</th>
<th>Min. drill hole depth ( h_1 ) [mm]</th>
<th>Effect, anchorage depth ( h' ) [mm]</th>
<th>Anchor length ( l ) [mm]</th>
<th>Usable length ( f_{ux} ) [mm]</th>
<th>Sales unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHM 40</td>
<td>536253</td>
<td>536262</td>
<td>•</td>
<td>8</td>
<td>50</td>
<td>40</td>
<td>80</td>
<td>10 - 40</td>
<td>250</td>
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<tr>
<td>DHM 70</td>
<td>536254</td>
<td>536264</td>
<td>•</td>
<td>8</td>
<td>50</td>
<td>40</td>
<td>110</td>
<td>40 - 70</td>
<td>250</td>
</tr>
<tr>
<td>DHM 100</td>
<td>536256</td>
<td>536265</td>
<td>•</td>
<td>8</td>
<td>50</td>
<td>40</td>
<td>140</td>
<td>70 - 100</td>
<td>250</td>
</tr>
<tr>
<td>DHM 130</td>
<td>536257</td>
<td>536266</td>
<td>•</td>
<td>8</td>
<td>50</td>
<td>40</td>
<td>170</td>
<td>100 - 130</td>
<td>250</td>
</tr>
<tr>
<td>DHM 160</td>
<td>536258</td>
<td>536267</td>
<td>•</td>
<td>8</td>
<td>50</td>
<td>40</td>
<td>200</td>
<td>130 - 160</td>
<td>250</td>
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<tr>
<td>DHM 210</td>
<td>536259</td>
<td>536268</td>
<td>•</td>
<td>8</td>
<td>50</td>
<td>40</td>
<td>250</td>
<td>170 - 210</td>
<td>125</td>
</tr>
<tr>
<td>DHM 260</td>
<td>536260</td>
<td>536269</td>
<td>•</td>
<td>8</td>
<td>50</td>
<td>40</td>
<td>300</td>
<td>220 - 260</td>
<td>125</td>
</tr>
<tr>
<td>DTM 80</td>
<td>536261</td>
<td>536271</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>260</td>
</tr>
</tbody>
</table>

ACCESSORIES

Cover cap DHM ADK-W
Cover cap DHM ADK-GR
Cover cap DHM ADK-BG

<table>
<thead>
<tr>
<th>Item</th>
<th>Art.-No.</th>
<th>Diameter ( d ) [mm]</th>
<th>Colour</th>
<th>Outer carton [pcs]</th>
<th>Sales unit [pcs]</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHM ADK-W</td>
<td>013330</td>
<td>37</td>
<td>white</td>
<td>5000</td>
<td>250</td>
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<tr>
<td>DHM ADK-GR</td>
<td>046843</td>
<td>37</td>
<td>grey</td>
<td>10000</td>
<td>250</td>
</tr>
<tr>
<td>DHM ADK-BG</td>
<td>046844</td>
<td>37</td>
<td>beige</td>
<td>2500</td>
<td>250</td>
</tr>
</tbody>
</table>

LOADS

Insulation support DHM

Highest recommended loads\(^1\) for a single anchor.

<table>
<thead>
<tr>
<th>Type</th>
<th>DHM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended loads in the respective base material ( F_{rec} ) (^2)</td>
<td></td>
</tr>
<tr>
<td>( \geq C12/15 ) concrete (^3)</td>
<td>0,26</td>
</tr>
<tr>
<td>Solid brick ( M 12 )</td>
<td>0,26</td>
</tr>
<tr>
<td>Solid sand-lime brick ( KS 12 )</td>
<td>0,26</td>
</tr>
<tr>
<td>Aerated concrete ( \geq ) PS2, PP2 (G2) (^6)</td>
<td>0,10</td>
</tr>
</tbody>
</table>

\(^1\) Includes the safety factor \( k \).
\(^2\) Valid for tensile load.
\(^3\) German approval in cracked concrete 0,67 [kN].

ACCESSORIES

Items to order only

<table>
<thead>
<tr>
<th>Item</th>
<th>Art. No.</th>
<th>Tool holder</th>
<th>Fits</th>
<th>Sales unit [pcs]</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA II S-SDS 6</td>
<td>048065</td>
<td>SDS plus</td>
<td>EA II M 6</td>
<td>1</td>
</tr>
</tbody>
</table>
Standard Detail
Open State - Rainscreen Fire Barrier up to 300 mm (12 in)

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

All information contained herein is based on data furnished to fischerwerke GmbH by a third party which we believe to be accurate and reliable. The judgement is based on the structural depiction's and associated job site conditions and should be field verified. The Judgement relates to the expected performance of the proposed detail, were it to be subjected to the standardised test against which the judgment was made. User must obtain approval from the specifying architect, engineer and/or inspector having jurisdiction of the project prior to installation.

fischerwerke GmbH & CO. KG, Klaus Fischer Straße 1, 72178 Waldachtal, DEUTSCHLAND
**Standard Detail**

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

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

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Note: fischer FFB VS Ventistop is manufactured to project specification.

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fischerwerke GmbH & CO. KG, Klaus Fischer Straße 1, 72178 Waldachtal, DEUTSCHLAND
fischer FCFcI 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

All measurements in mm

fischerwerke GmbH & Co. KG, Klaus Fischer Straße 1, 72178 Waldachtal DEUTSCHLAND