fischer
Hollow-Ceiling Anchor FHY

Strong Grip
in Hollow-Ceiling Slabs.
For universal use in hollow-ceiling slabs.

For fixings in prestressed concrete hollow-ceiling slabs. FHY.

The new fischer hollow-ceiling anchor FHY has been developed specially for fastenings in hollow-ceiling slabs of prestressed concrete. The tapered section has a continuous internal thread which permits use with both bolts and threaded rods. The high expanding capacity of the anchor makes it suitable for use with solid material and hollow-ceiling slabs with thicknesses greater than 25 mm. In principle, the FHY can be used anywhere with the exception of the safety zone around the prestressing steel.

Suitability.
- For fastening: cross-heads, pipes and ventilation ducts, suspended ceilings, safety technology, acoustic ceilings, lighting equipment, ceiling substructures.

Advantages
- Installation at virtually any point in the hollow-ceiling slab.
- Installation possible in material thickness of 25 mm and over.
- High load-bearing capacity of up to 3.0 kN.
- Use of both bolts and threaded rods possible.
- Fast and simple installation.
- FHY can be installed with only a few blows of the hammer, a great advantage for ceiling installation.

The taper with the continuous internal thread is pulled into the sleeve when the threaded rod or bolt is screwed into position, and expands the anchor reliably.

The locking barbs bite into the hole and prevent the anchor from dropping out during installation from below, and from turning in the hole. For simple reliable installation.

The special edge construction prevents the anchor slipping deeper into the drill hole during installation, thereby improving installation safety.

The anchor sleeve construction makes Y-shaped expansion of the anchor possible. This extraordinary expansion ability means you can use the anchor in both hollow cavities and solid material.

This means a maximum of flexibility. The following diagram illustrates the wide range of possible uses for the hollow-ceiling anchor type FHY.
Certified safety.

The fischer hollow-ceiling anchor type FHY is approved by the (German) building supervisory authority for installation in hollow-ceiling slabs of prestressed concrete. Concrete strength ≥ C45/55 resp. ≥ B55.

Types available.

The fischer hollow-ceiling anchor FHY is available in two versions to cater for the varying demands in different fields of application.

- in zinc-plated steel or
- stainless steel A4 (material 1.4401)

Installation notes.

- The hollow ceiling anchor FHY is designed for use with standard bolts or threaded rods with metric threads from M6 to M10.

<table>
<thead>
<tr>
<th></th>
<th>FHY M 6</th>
<th>FHY M 8</th>
<th>FHY M 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length of hexagonal screw</td>
<td>min L ≥</td>
<td>39 + t fix</td>
<td>45 + t fix</td>
</tr>
<tr>
<td>Length of threaded rod</td>
<td>min L ≥</td>
<td>62 + t fix</td>
<td>68 + t fix</td>
</tr>
</tbody>
</table>

Examples of use.
Loads.

Safe working loads fixing parameters and component dimensions for tension, shear and diagonal load at any angle in hollow-slab floors of prestressed concrete of strength class ≥ C45/55. When dimensioning, observe the approval Z-21.1-1711 in its entirety.

- **Fixing type**
- **FHY M 6**
- **FHY M 8**
- **FHY M 10**

### Loads

**Safe working loads** fixing parameters and component dimensions for tension, shear and diagonal load at any angle in hollow-slab floors of prestressed concrete of strength class ≥ C45/55. When dimensioning, observe the approval Z-21.1-1711 in its entirety.

1) For edge distances \( c_{\text{min}} \) < \( c \) the permissible loads may be determined by linear interpolation.
2) The permissible load applies for a pair of fixings. The permissible load for the most highly stressed fixing must not exceed the values stated for the single fixing.
3) For pairs of fixings with two axial distances of \( s_{\text{min}} \), the permissible load may be interpolated linearly.
4) Only thread rod marked in accordance with the approval may be used.
5) With hexagon bolts with shaft to DIN EN 24014, the shaft length must be \( l_s \).

### Technical data.

**FHY – steel, zinc plated**

<table>
<thead>
<tr>
<th>Type</th>
<th>Art. No.</th>
<th>( d_1 )</th>
<th>( t_1 ) Min. Hole depth</th>
<th>( h_1_\text{a} ) Min. anchoring depth</th>
<th>( t_\text{ins} ) Fixing length</th>
<th>Insertion depth min. max.</th>
<th>Package set</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHY M 6</td>
<td>30138</td>
<td>10</td>
<td>45</td>
<td>30</td>
<td>37</td>
<td>M 6</td>
<td>37</td>
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<tr>
<td>FHY M 8</td>
<td>30146</td>
<td>12</td>
<td>50</td>
<td>35</td>
<td>43</td>
<td>M 8</td>
<td>43</td>
</tr>
<tr>
<td>FHY M 10</td>
<td>30148</td>
<td>16</td>
<td>60</td>
<td>40</td>
<td>52</td>
<td>M 10</td>
<td>52</td>
</tr>
</tbody>
</table>

**FHY – stainless steel A4 (material: 1.4401)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Art. No.</th>
<th>( d_1 )</th>
<th>( t_1 ) Min. Hole depth</th>
<th>( h_1_\text{a} ) Min. anchoring depth</th>
<th>( t_\text{ins} ) Fixing length</th>
<th>Insertion depth min. max.</th>
<th>Package set</th>
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</thead>
<tbody>
<tr>
<td>FHY M 6 A4</td>
<td>30139</td>
<td>10</td>
<td>45</td>
<td>30</td>
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<td>M 6</td>
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<td>FHY M 8 A4</td>
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<td>M 8</td>
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<tr>
<td>FHY M 10 A4</td>
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<td>60</td>
<td>40</td>
<td>52</td>
<td>M 10</td>
<td>52</td>
</tr>
</tbody>
</table>

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1) The anchorage of the cavity fixing FHY is permissible only in hollow-slab ceilings of prestressed concrete, the width of whose cavities is not more than 4.2 times the web width. The fixing may also be used as a multiple fastening for anchoring lightweight ceiling coverings and under ceilings to DIN 18168 on hollow-slab ceilings of prestressed concrete, and for statically similar anchorage up to 1.0 kN/m². When external loads are suspended from the prestressed concrete hollow-slab ceilings, the shearing bearing capacity must be reduced. For fastening lightweight ceiling coverings and under ceilings, to DIN 18168, the reduction is not necessary.

2) For edge distances \( c_{\text{min}} \) ≤ \( c \) the permissible loads may be determined by linear interpolation.

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For edge distances \( c_{\text{min}} \) ≤ \( c \) the permissible loads may be determined by linear interpolation.

For pairs of fixings with two axial distances of \( s_{\text{min}} \), the permissible load may be interpolated linearly. The linear value at \( s_1 \) = \( s_2 \) = \( s_{\text{scr}} \) for the pair of fixings with tensile load applied, may be assumed to be twice the permissible load for the single fixing.

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* Not part of approval.
fischer FIXPERIENCE.
The design and information software suite.

- The modular design program includes engineering software and application modules.
- The software is based on international design standards (ETAG 001 and EC2, such as EC1, EC3 and EC5), including the national application documents. All common force and measurement units are available.
- Incorrect input will be recognized and the software gives tips to get a correct result. This ensures a safe and reliable design every time.
- The graphical display can easily be rotated through 360°, panned, tilted or zoomed as required.
- The 3D display gives a detailed and realistic image.
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- Free download and updates at www.fischer.de/fixperience-en

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U.A.E
fischer FZE (Regional Office)
R/A 07, BA 01 - 04
Jebel Ali Free Zone
Dubai, UAE
P. O. Box 261738
Tel: +971 4 883 7477
Fax: +971 4 883 7476
Email: enquiry@fischer.ae

Abu Dhabi
Tel: +971 2 552 5777
Fax: +971 2 552 6566
Email: enquiry@fischer.ae

State of Qatar
Tel: +974 4036 3100
Fax: +974 4471 0898
Email: qatar@fischer.ae

Kingdom of Saudi Arabia
Tel: +966 13 8140866
Fax: +966 13 8140855
Email: saudi@fischer.ae

State of Kuwait
Tel: +965 2481 8786,
+965 2482 5972
Fax: +965 2481 8385
Email: kuwait@fischer.ae

State of Qatar
Tel: +974 4036 3100
Fax: +974 4471 0898
Email: qatar@fischer.ae

Kingdom of Bahrain
Tel: +973 17408090
Fax: +973 17404323
Email: bahrain@fischer.ae

Sultanate of Oman
Tel: +968 24445425/26/27/28/30
Fax: +968 24445423
Email: oman@fischer.ae

Pakistan
Tel: +923 01 8266218
Email: pakistan@fischer.ae

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