fischer DUOPOWER

The Duo of power and intelligence.
fischer DUOPOWER.
Simply clever, the combination of 2 components for 3 functions.

The combination of soft and hard materials achieves an optimally matched screw-in and tightening torque.

Depending on the building material, the main body made from high quality nylon automatically activates the optimum function principle for permanent and safe hold.

Short plug length allows quick fixing, less drilling and shorter screws.

The narrow plug rim prevents slipping in the drill hole.

Red expansion wings support the safe expansion and offer additional safety for the nylon main body.

Function zone I:
The tip spreads in two directions for a higher load bearing capacity in difficult building materials.

Function zone II:
The expanding element spreads in a 90° angle to the zone I and III and additionally provides an optimal screw guidance.

Function zone III:
Depending on the building material, the back part of the plug either expands or folds for the best hold.

Your benefits at a glance

- Two material components for even more expansion volume and the best load values in solid and hollow building materials.
- Intelligent, self-activating functions (expansion, folding, knotting) depending on the substrate. For a wide range of applications.
- Best possible feedback (feelgood factor) from the plug. You can feel when the plug is installed perfectly.
- No annoying plug rotation during installation, thanks to the serrated anti-rotation feature.
- The smooth-running opening allows the simple positioning of the screw and the secure guiding and fixing in the screw channel.
- The long versions with additional bite in problematic substrates.
fischer DUOPOWER.
For the simplest and safe installation into innumerable building materials.

**Function.**
- The duo of 2-component material ensures high material displacement, thereby facilitating higher loads. Depending on the building material, the plug activates the optimum function principle (expansion, folding, knotting) for the best hold.
- The DUOPOWER is suitable for pre-positioned and push-through installation.
- Suitable for wood, chipboard and stud screws. Screw length = plug length + fixture thickness + 1x screw diameter.
- In the case of board building materials, the threadless part of the screw cannot be longer than the fixture.
- The greater anchorage depth of the DUOPOWER 6x50, 8x65 and 10x80 means that the plug is especially suited to fixings in hollow building materials, aerated concrete and to bridge plaster.

**Installation**

**Installation in problematic substrates**
Test marks, recommendation and applications.

**Test marks**

- 2K TECHNOLOGY
- FLUOR CHLOR BROM
- HALOGENFREI
- pro-K award
- WINNER EISEN AWARD 2016
- Focus Open 2016 Internationale Designpreis Baden-Württemberg
- INDUSTRIE PREIS 2016

**Recommendation**

Suitable for: concrete, solid brick, solid sand-lime brick, aercrete, vertically perforated brick, perforated sand-lime brick, plasterboard, gypsum plasterboard and gypsum fibreboard, hollow block made from lightweight concrete, cavity floor slabs made from brick, prestressed hollow-core concrete floor slab and similar, natural stone, chipboard, gypsum boards, lightweight concrete solid brick.

**Applications**

- TV wall bracket
- Wall cupboards
- Cable system lights
- Window blinds
- Pictures
- Hand rails
- Shower cubicles
- Wall cabinets
DUOPOWER

Assortment and loads.

<table>
<thead>
<tr>
<th>Item description</th>
<th>Item no.</th>
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DUOPOWER

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

The given loads are valid for screws with the specific diameter.

<table>
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<tr>
<th>Model</th>
<th>Screw diameter (mm)</th>
<th>5 x 25</th>
<th>6 x 30</th>
<th>6 x 50</th>
<th>8 x 40</th>
<th>8 x 65</th>
<th>10 x 50</th>
<th>10 x 80</th>
<th>12 x 60</th>
<th>14 x 70</th>
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<td>Concrete (\geq C20/25)</td>
<td>0,40</td>
<td>0,95</td>
<td>1,65</td>
<td>1,10</td>
<td>2,30</td>
<td>2,15</td>
<td>4,20</td>
<td>3,30</td>
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<tr>
<td>Solid brick (\geq M12)</td>
<td>0,30</td>
<td>0,50</td>
<td>0,55</td>
<td>0,62</td>
<td>0,89</td>
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<td>1,45</td>
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<td>Solid sand-lime brick (\geq KS12)</td>
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<td>1,00</td>
<td>1,80</td>
<td>1,25</td>
<td>2,25</td>
<td>2,20</td>
<td>3,85</td>
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<td>Aircrete (\geq PB2, PP2 (G2))</td>
<td>0,05</td>
<td>0,10</td>
<td>0,15</td>
<td>0,10</td>
<td>0,16</td>
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<td>Aircrete (\geq PB4, PP4 (G4))</td>
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<td>Vertically perforated brick (\geq Hlz 12 (\rho \geq 0,9 \text{ kg/dm}^3))</td>
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<td>Perforated sand-lime brick (\geq KS12 (\rho \geq 1,6 \text{ kg/dm}^3))</td>
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<td>0,70</td>
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<td>Gypsum wall board (\rho \geq 0,9 \text{ kg/dm}^3)</td>
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<tr>
<td>Gypsum fibreboard (12,5 \text{ mm})</td>
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<td>0,50</td>
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<tr>
<td>Gypsum plasterboard (12,5 \text{ mm})</td>
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<tr>
<td>Gypsum plasterboard (2 \times 12,5 \text{ mm})</td>
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<td>0,60</td>
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</tr>
</tbody>
</table>

1) Required safety factors are considered.
2) Applies to tension load, shear load and diagonal pull under each angle.
3) Wood screw
4) Load determination on plastered wall.
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.
- The “live update” feature helps to keep the program up to date ensuring you are always working with the latest version.
- Free download and updates at www.fischer.de/fixperience-en

Our service to you.

We are available to you at any time as a reliable partner to offer technical support and advice:
- Our products range from chemical resin systems to steel anchors through to nylon anchors.
- Competence and innovation through own research, development and production.
- Global presence and active sales service in over 100 countries.
- Qualified technical consulting for economical and compliant fastening solutions. Also on-site at the construction site if requested.
- Training sessions, some with accreditation, at your premises or at the fischer ACADEMY.
- Design and construction software for demanding applications.

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