fischer termoz CNplus
The versatile ETICS hammerset fixing with the option to be screw set
termoz CNplus
The versatile ETICS hammerset fixing with the option to be screw set

Function

The compression zone in the shaft enables a precise disc pull-in and an optimum application on the insulation surface. With a disk thickness of only 2.5 mm, this is applied optimally on the insulation panel. In this manner cost-effective thin reinforcement layers can be applied. Due to the steel portion in the nail no change of plug is necessary between the anchoring of the fire block insulation panel and the surface (40% rule only valid for Germany and Swiss).

Your benefits at a glance

- termoz CNplus is a hammerset with the option to be screw set. The plug is suitable for all building material and insulation types. Through the flexible use the warehouses and ordering processes are reduced.
- With the fast and simple hammerset installation the plugs set too deep can be readjusted with the aid of the screwdriver. This saves working time and helps to avoid fixing marks.
- During the screw installation the termoz CNplus can be set recessed or flush. For different set results only one plug is required.
- Moreover the screw installation enables an accurate setting due to an optimum application on the insulation surface. Also with soft insulation.
- The compound nail ensures a high energy efficiency with the countersunk screw installation, because there is nearly no heat transmission.

The sustainable hammerset anchor

- The termoz CNplus allows a simple and clean removal for an unmixed dismantling of the façade.
- A separated disposal is guaranteed.
### Standard: Flush hammer set installation

1. 
2. 
3. 
4. 

### Standard: Flush screw installation standard bit T25

1. 
2. 
3. 
4. 

### Standard: Countersunk screw installation with setting tool CS

1. 
2. 
3. 
4. 

### Alternative screw installation: Flush installation with rotated setting tool CS

1. 
2. 
3. 
4. 

### Recommendation

- Suitable for:
  - Concrete, solid brick, solid sand-lime brick, solid blocks made from lightweight and normal weight concrete, vertically perforated brick, perforated sand-lime brick, porous lightweight concrete, aerated concrete, hollow blocks made from lightweight concrete.

### Approval

[Image showing ETA and CE marks with text: ETA-09/0394 ETAG 014 Use categories A, B, C, D, E]
For countersunk screw installation the setting tool art. no. 532618 or art. no. 532619 with the bit art. no. 540251 can be used.

Drill hole diameter 8 mm and bit T25 with all hammer set anchor.

### Product range and technical data

<table>
<thead>
<tr>
<th>termoz CNplus</th>
<th>Art. No.</th>
<th>Approval</th>
<th>Anchor length</th>
<th>Anchor nominal length</th>
<th>Min. anchorage depth</th>
<th>Min. drill hole depth ( h_{\text{min}} ) [mm]</th>
<th>Effect. length ( h_{\text{eff}} ) [mm]</th>
<th>Countersunk installation / only for building material class A,B,C</th>
<th>Countersunk installation / only for building material class D and E</th>
<th>Min. drill hole depth ( h_{\text{min}} ) [mm]</th>
<th>Effect. length ( h_{\text{eff}} ) [mm]</th>
<th>Countersunk installation / only for building material class D and E</th>
<th>Sales unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>termoz CNplus 8/110</td>
<td>540376</td>
<td></td>
<td>108 110</td>
<td>35 45 70</td>
<td>60 90</td>
<td>55 65 70 80</td>
<td>70 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/130</td>
<td>540377</td>
<td></td>
<td>120 130</td>
<td>35 45 90</td>
<td>60 110</td>
<td>55 65 90 80</td>
<td>90 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/150</td>
<td>540378</td>
<td></td>
<td>140 150</td>
<td>35 45 110</td>
<td>60 130</td>
<td>55 65 110 80</td>
<td>110 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/170</td>
<td>540379</td>
<td></td>
<td>160 170</td>
<td>35 45 130</td>
<td>60 150</td>
<td>55 65 130 80</td>
<td>130 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/190</td>
<td>540380</td>
<td></td>
<td>180 190</td>
<td>35 45 150</td>
<td>60 170</td>
<td>55 65 150 80</td>
<td>150 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/210</td>
<td>540381</td>
<td></td>
<td>200 210</td>
<td>35 45 170</td>
<td>60 190</td>
<td>55 65 170 80</td>
<td>170 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/230</td>
<td>540382</td>
<td></td>
<td>220 230</td>
<td>35 45 190</td>
<td>60 210</td>
<td>55 65 190 80</td>
<td>190 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/250</td>
<td>540383</td>
<td></td>
<td>240 250</td>
<td>35 45 210</td>
<td>60 230</td>
<td>55 65 210 80</td>
<td>210 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/270</td>
<td>540384</td>
<td></td>
<td>260 270</td>
<td>35 45 230</td>
<td>60 250</td>
<td>55 65 230 80</td>
<td>230 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/290</td>
<td>540385</td>
<td></td>
<td>280 290</td>
<td>35 45 250</td>
<td>60 270</td>
<td>55 65 250 80</td>
<td>250 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/310</td>
<td>540386</td>
<td></td>
<td>300 310</td>
<td>35 45 270</td>
<td>60 290</td>
<td>55 65 270 80</td>
<td>270 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/330</td>
<td>540387</td>
<td></td>
<td>320 330</td>
<td>35 45 290</td>
<td>60 310</td>
<td>55 65 290 80</td>
<td>290 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/350</td>
<td>540388</td>
<td></td>
<td>340 350</td>
<td>35 45 310</td>
<td>60 330</td>
<td>55 65 310 80</td>
<td>310 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/370</td>
<td>540389</td>
<td></td>
<td>360 370</td>
<td>35 45 330</td>
<td>60 350</td>
<td>55 65 330 80</td>
<td>330 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>termoz CNplus 8/390</td>
<td>540390</td>
<td></td>
<td>380 390</td>
<td>35 45 350</td>
<td>60 370</td>
<td>55 65 350 80</td>
<td>350 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Item No.</th>
<th>Ø [mm]</th>
<th>Sales unit [pcs]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caps PS D60</td>
<td>046173</td>
<td>60</td>
<td>100</td>
</tr>
<tr>
<td>Caps MW D60</td>
<td>046172</td>
<td>60</td>
<td>100</td>
</tr>
<tr>
<td>Hexa setting tool CS*</td>
<td>532618</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SDS setting tool CS*</td>
<td>532619</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Bit T25 CNplus 28 mm**</td>
<td>540251</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>DT 90***</td>
<td>506869</td>
<td>90</td>
<td>100</td>
</tr>
<tr>
<td>DT 110***</td>
<td>590745</td>
<td>110</td>
<td>100</td>
</tr>
<tr>
<td>DT 140***</td>
<td>506830</td>
<td>140</td>
<td>100</td>
</tr>
</tbody>
</table>

* incl. Bit T30  
** suitable for setting tool termoz CS  
*** suitable for termoz CNplus
The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of $\gamma_F = 1.5$ are considered.

Minimum possible axial spacings resp. edge distances acc. assessment.

Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. ETAG014. Only tensile wind loads are permitted.

The given loads are valid for installation and use of fixations in dry masonry for temperatures in the substrate up to +24°C (resp. short term up to 40°C).

Restrictions concerning the manufacturer and the permissible hole patterns as well as the web thickness see assessment.

Hammer drilling

Rotary drilling

Concrete acc. EN 206-1:2000

Weather resistant concrete shell

Calcium silicate solid bricks KS acc. EN 771-2:2011

Solid clay bricks Mz acc. EN 771-1:2011

Solid concrete blocks Vbn acc. EN 771-3:2011

Hollow calcium silicate bricks KSL acc. EN 771-2:2011

Vertically perforated clay bricks HLz acc. EN 771-1:2011

Lightweight concrete blocks Vbl acc. EN 771-3:2011

Lightweight aggregate concrete blocks Vbl acc. EN 771-3:2011

Autoclaved aerated concrete blocks AAC acc. EN 771-4:2011

The highest permissible loads for a single anchor 1) 4) for fixing of external thermal insulation composite systems with rendering.

For the design the complete assessment ETA 09/0394 has to be considered.

<table>
<thead>
<tr>
<th>Base material</th>
<th>Brick raw density</th>
<th>min. compressive brick strength $f_b$ [N/mm²]</th>
<th>min. embedment depth $h_{min}$ [mm]</th>
<th>min. member thickness $h_{min}$ [mm]</th>
<th>permissible tensile load $N_{perm}$ [kN]</th>
<th>min. spacing $s_{min}$ [mm]</th>
<th>min. edge distance $c_{min}$ [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete acc. EN 206-1:2000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C12/15 - C50/60</td>
<td>100</td>
<td>35 2)</td>
<td>100</td>
<td>0.30</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Weather resistant concrete shell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥ C20/25</td>
<td>100</td>
<td>35 2)</td>
<td>100</td>
<td>0.30</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Calcium silicate solid bricks KS acc. EN 771-2:2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥ 1.4</td>
<td>16</td>
<td>35 2)</td>
<td>100</td>
<td>0.17</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Solid clay bricks Mz acc. EN 771-1:2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥ 1.8</td>
<td>20</td>
<td>35 2)</td>
<td>100</td>
<td>0.30</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Solid concrete blocks Vbn acc. EN 771-3:2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥ 2.0</td>
<td>20</td>
<td>35 2)</td>
<td>100</td>
<td>0.30</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Hollow calcium silicate bricks KSL acc. EN 771-2:2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥ 2.0</td>
<td>20</td>
<td>35 2)</td>
<td>100</td>
<td>0.30</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Vertically perforated clay bricks HLz acc. EN 771-1:2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥ 1.0</td>
<td>10</td>
<td>35 2)</td>
<td>100</td>
<td>0.17</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Lightweight concrete blocks Vbl acc. EN 771-3:2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥ 1.6</td>
<td>10</td>
<td>35 2)</td>
<td>100</td>
<td>0.25</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Lightweight aggregate concrete blocks AAC acc. EN 771-4:2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥ 0.4</td>
<td>4</td>
<td>55 2)</td>
<td>100</td>
<td>0.10</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

1) The partial safety factors for material resistance are regulated in the assessment as well as a partial safety factor for load actions of $\gamma_F = 1.5$ are considered.
2) Minimum possible axial spacings resp. edge distances acc. assessment.
3) Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. ETAG014. Only tensile wind loads are permitted.
4) The given loads are valid for installation and use of fixations in dry masonry for temperatures in the substrate up to +24°C (resp. short term up to 40°C).
5) Restrictions concerning the manufacturer and the permissible hole patterns as well as the web thickness see assessment.
6) Hammer drilling
7) Rotary drilling
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.

Regional Presence

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

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 8266216
Email: pakistan@fischer.ae

Follow us:
www.fischer.ae