

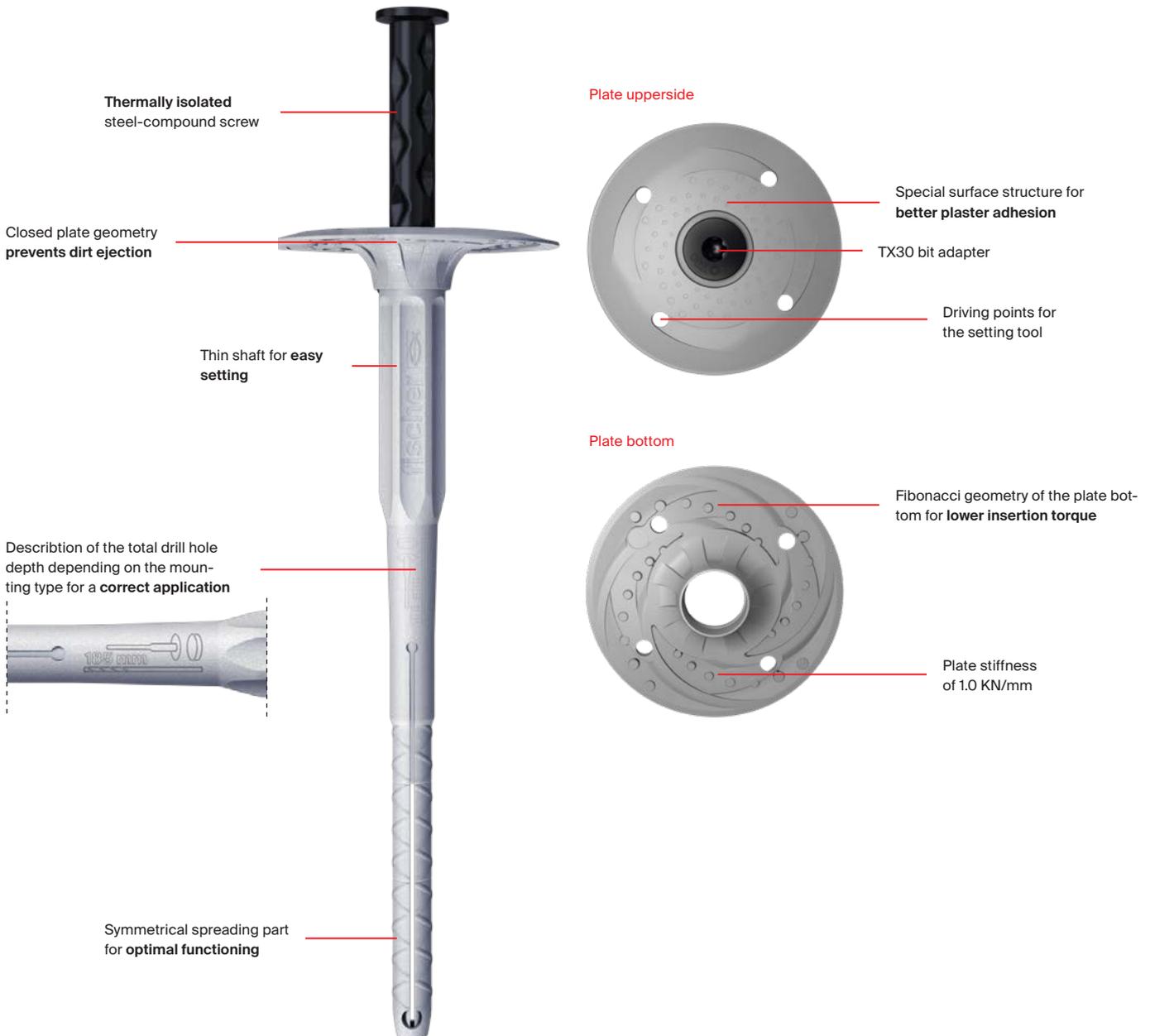
fischer 

TermoZ CS II.
ETICS screw fixing.



TermoZ CS II

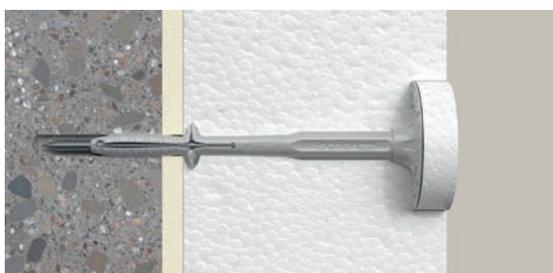
The strong screw fixing for all insulation materials and substrates.



Advantages and functioning.

Advantages at a glance

- Due to the steel compound screw of the TermoZ CS, all façade insulations including the fire bar can be fastened securely.
- The setting tool is used to countersink the anchor optimally, resulting in an even plaster layer without anchor marks.
- Due to the special expansion zone of the anchor sleeve, the TermoZ CS II, is the first insulation anchor with an approval for hammer-drilled holes in vertically perforated bricks.
- The plate design and sleeve labeling allow correct and intuitive application.
- The closed plate does not allow dirt to be ejected and thus ensures a clean setting result.
- The special geometry of the underhead plate reduces the necessary insertion torque for convenient and fast installation.



Functioning

- The fixing is pushed through the insulation into the drill hole and is screwed in with a standard hammer drill or cordless screwdriver.
- For countersunk mounting, the setting tool TermoZ CS is required.
- Optionally, the setting tool TermoZ CS can also be used for flush installation by turning the stopping disc.
- When using the setting tool, the installation is completed when the stopping disc is flush with the insulation panel.
- For countersunk mounting the anchor plate needs to be covered with a closing cap.
- For a surface-flush setting, a closing plug is not necessary.

Approvals



ETA-14/0372, for concrete, masonry, lightweight aggregate concrete and autoclaved aerated concrete

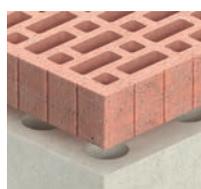


Recommendations

Suitable for building materials, such as:



Solid building materials



Perforated building materials



Hollow blocks made from lightweight concrete



Weather shell



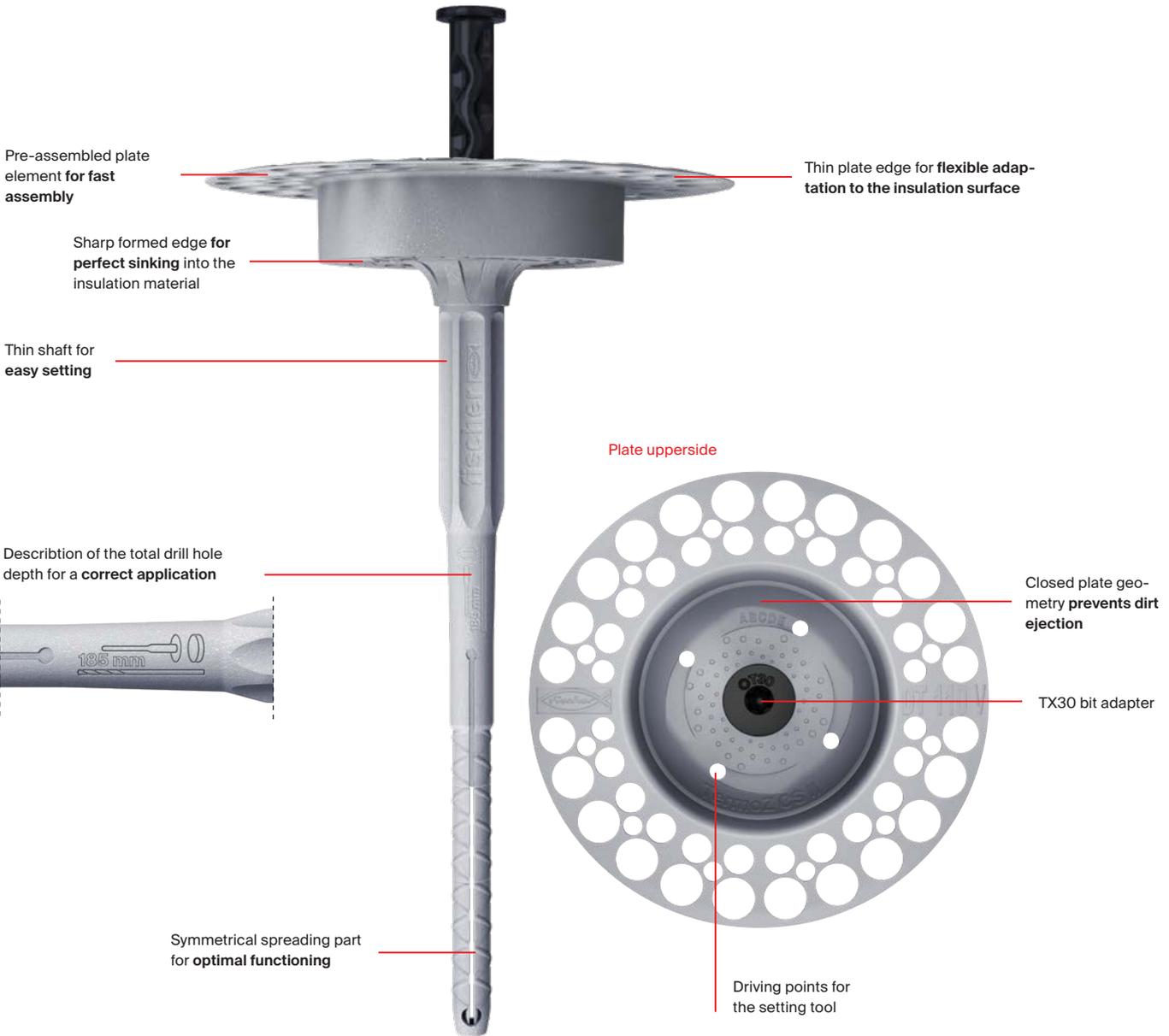
Lightweight aggregate concrete



Aerated concrete

TermoZ CS II DT 110V

The countersunk screw fixing for soft insulating boards.



Advantages and functioning.

Advantages at a glance

- Pre-assembled fixing with a 110 mm plate for countersunk mounting.
- The compound screw minimises thermal bridges, thus there are no anchor marks on the façade.
- The combination of the advantages of countersunk installation and additional plates achieves a homogeneous surface with higher pull-through values at the same time.
- The very thin plate edge provides an optimal fit to the insulation board and the application of thin reinforcement layers.



Functioning

- Fast countersunk installation with the TermoZ CS setting tool and a standard hammer drill or cordless screwdriver.
- The fixing is pushed through the insulation into the drill hole and is screwed in.
- The installation is completed when the plate is flush with the insulation board.
- After countersunk installation, the anchor plate has to be covered with a round cap.

Approvals

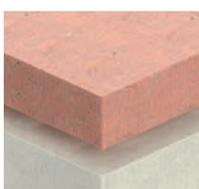


ETA-14/0372, for concrete, masonry, lightweight aggregate concrete and autoclaved aerated concrete

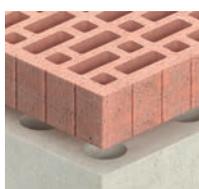


Recommendations

Suitable for building materials, such as:



Solid building materials



Perforated building materials



Hollow blocks made from lightweight concrete



Weather shell



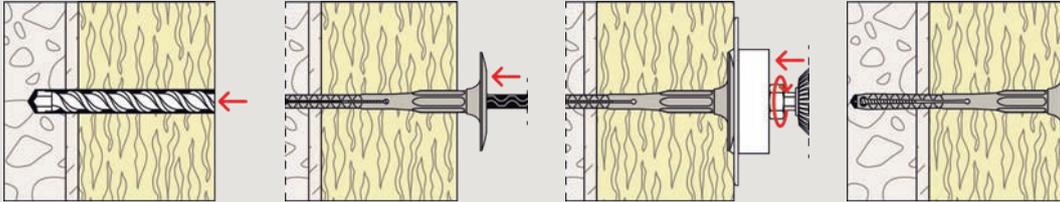
Lightweight aggregate concrete



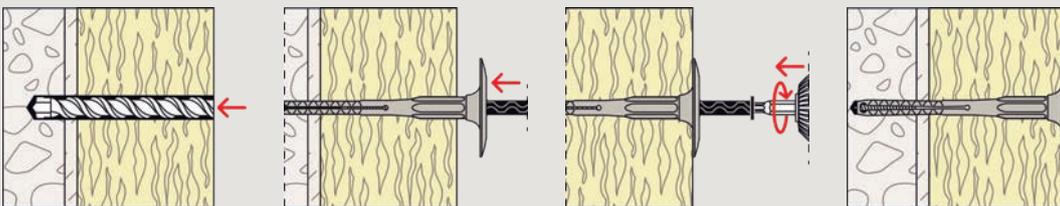
Aerated concrete

Installation

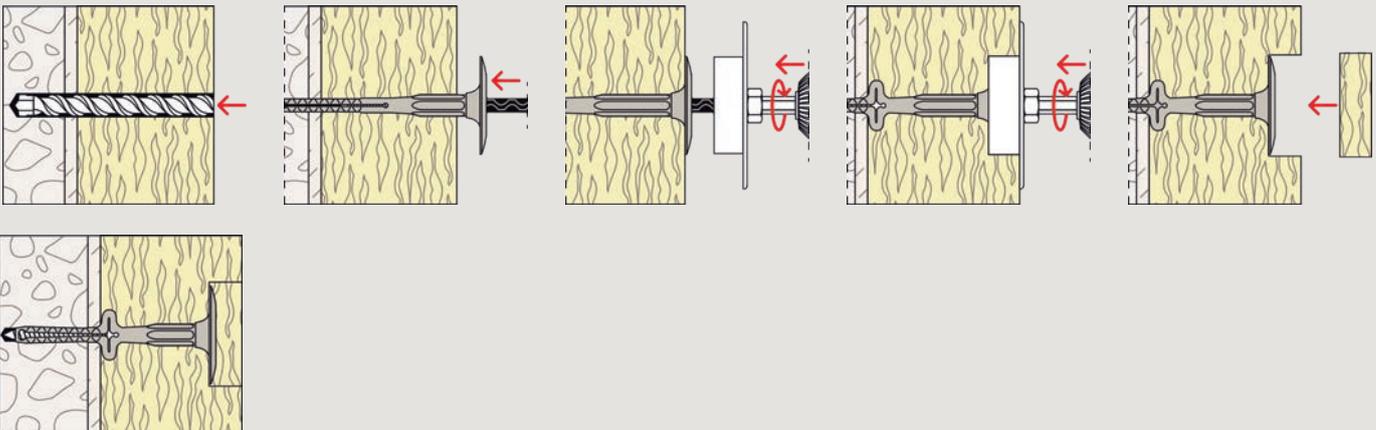
Flush mounting with TermoZ CS setting tool



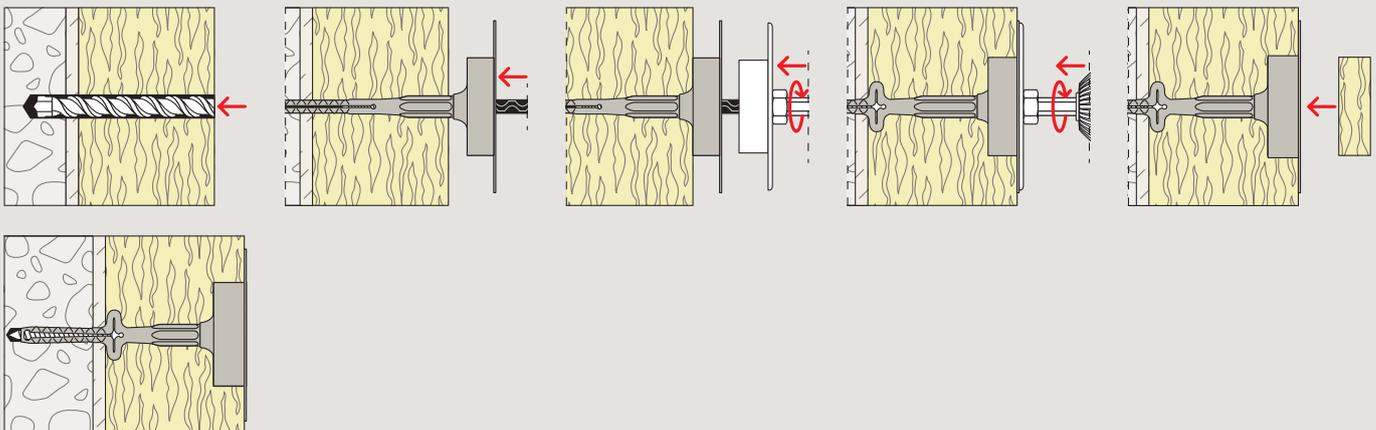
Flush mounting with TX30 bit



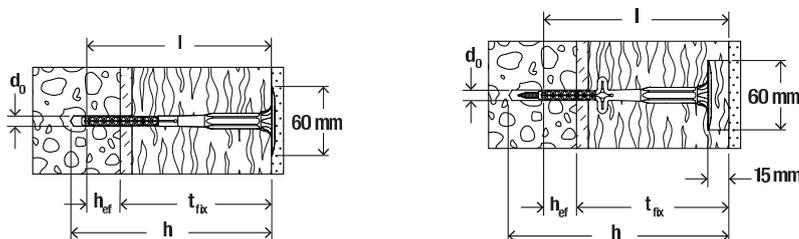
Countersunk mounting with TermoZ CS setting tool



Installation TermoZ CS II DT 110V



Assortment



Technical Data

TermoZ CS II

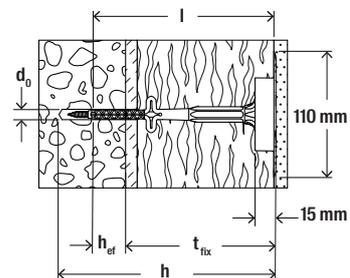


TermoZ CS II

| Item | Item. No | Approval ETA | Drill hole diameter d_0 [mm] | Effect. anchorage depth h_{ef} [mm] | Max. usable length at surface flush installation t_{fix} [mm] | Min. total drill whole depth incl. insulation at surface flush installation h [mm] | Max. usable length at countersunk installation t_{fix} [mm] | Min. total drill whole depth incl. insulation at countersunk installation h [mm] | Drive TX30 | Sales unit [pcs] |
|----------------------------------|----------|-----------------|--------------------------------------|---|---|--|---|--|---------------|---------------------|
| | | | | | | | | | | |
| TermoZ CS II 8 /95 ¹⁾ | 564146 | ● | 8 | 25 | 70 | 110 | – | – | TX30 | 100 |
| TermoZ CS II 8 /115 | 564147 | ● | 8 | 25 | 90 | 130 | 90 | 145 | TX30 | 100 |
| TermoZ CS II 8/135 | 559107 | ● | 8 | 25 | 110 | 150 | 110 | 165 | TX30 | 100 |
| TermoZ CS II 8/155 | 559108 | ● | 8 | 25 | 130 | 170 | 130 | 185 | TX30 | 100 |
| TermoZ CS II 8/175 | 559109 | ● | 8 | 25 | 150 | 190 | 150 | 205 | TX30 | 100 |
| TermoZ CS II 8/195 | 559110 | ● | 8 | 25 | 170 | 210 | 170 | 225 | TX30 | 100 |
| TermoZ CS II 8/215 | 559111 | ● | 8 | 25 | 190 | 230 | 190 | 245 | TX30 | 100 |
| TermoZ CS II 8/235 | 559112 | ● | 8 | 25 | 210 | 250 | 210 | 265 | TX30 | 100 |
| TermoZ CS II 8/255 | 559113 | ● | 8 | 25 | 230 | 270 | 230 | 285 | TX30 | 100 |
| TermoZ CS II 8/275 | 564148 | ● | 8 | 25 | 250 | 290 | 250 | 305 | TX30 | 100 |
| TermoZ CS II 8/295 | 564149 | ● | 8 | 25 | 270 | 310 | 270 | 325 | TX30 | 100 |
| TermoZ CS II 8/315 | 564150 | ● | 8 | 25 | 290 | 330 | 290 | 345 | TX30 | 100 |
| TermoZ CS II 8/335 | 564151 | ● | 8 | 25 | 310 | 350 | 310 | 365 | TX30 | 100 |
| TermoZ CS II 8/355 | 564152 | ● | 8 | 25 | 330 | 370 | 330 | 385 | TX30 | 100 |
| TermoZ CS II 8/375 | 564153 | ● | 8 | 25 | 350 | 390 | 350 | 405 | TX30 | 100 |
| TermoZ CS II 8/395 | 566425 | ● | 8 | 25 | 370 | 410 | 370 | 425 | TX30 | 100 |
| TermoZ CS II 8/415 | 566426 | ● | 8 | 25 | 390 | 430 | 390 | 445 | TX30 | 100 |
| TermoZ CS II 8/435 | 566427 | ● | 8 | 25 | 410 | 450 | 410 | 465 | TX30 | 100 |
| TermoZ CS II 8/455 | 566428 | ● | 8 | 25 | 430 | 470 | 430 | 485 | TX30 | 100 |

¹⁾ Not for countersunk mounting

Assortment



Technical Data

TermoZ CS II DT 110V

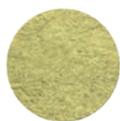


TermoZ CS II DT 110V

| Item | Item. No | Approval ETA | Drill hole diameter d_0 [mm] | Effect. anchorage depth h_{ef} [mm] | Max. usable length at counter- sunk installation t_{fix} [mm] | Min. total drill whole depth incl. insulation at countersunk installation h [mm] | Drive | Sales unit [pcs] |
|-----------------------------|----------|-----------------|--------------------------------------|--|---|--|-------|---------------------|
| TermoZ CS II 8/115 DT 110 V | 564155 | ● | 8 | 25 | 90 | 145 | TX30 | 100 |
| TermoZ CS II 8/135 DT 110 V | 559411 | ● | 8 | 25 | 110 | 165 | TX30 | 100 |
| TermoZ CS II 8/155 DT 110 V | 559412 | ● | 8 | 25 | 130 | 185 | TX30 | 100 |
| TermoZ CS II 8/175 DT 110 V | 559413 | ● | 8 | 25 | 150 | 205 | TX30 | 100 |
| TermoZ CS II 8/195 DT 110 V | 559414 | ● | 8 | 25 | 170 | 225 | TX30 | 50 |
| TermoZ CS II 8/215 DT 110 V | 559415 | ● | 8 | 25 | 190 | 245 | TX30 | 50 |
| TermoZ CS II 8/235 DT 110 V | 559416 | ● | 8 | 25 | 210 | 265 | TX30 | 50 |
| TermoZ CS II 8/255 DT 110 V | 559417 | ● | 8 | 25 | 230 | 285 | TX30 | 50 |
| TermoZ CS II 8/275 DT 110 V | 564156 | ● | 8 | 25 | 250 | 305 | TX30 | 50 |
| TermoZ CS II 8/295 DT 110 V | 564157 | ● | 8 | 25 | 270 | 325 | TX30 | 50 |
| TermoZ CS II 8/315 DT 110 V | 564158 | ● | 8 | 25 | 290 | 345 | TX30 | 50 |
| TermoZ CS II 8/335 DT 110 V | 564159 | ● | 8 | 25 | 310 | 365 | TX30 | 50 |
| TermoZ CS II 8/355 DT 110 V | 564160 | ● | 8 | 25 | 330 | 385 | TX30 | 50 |
| TermoZ CS II 8/375 DT 110 V | 564161 | ● | 8 | 25 | 350 | 405 | TX30 | 50 |
| TermoZ CS II 8/395 DT 110 V | 566429 | ● | 8 | 25 | 370 | 425 | TX30 | 50 |
| TermoZ CS II 8/415 DT 110 V | 566430 | ● | 8 | 25 | 390 | 445 | TX30 | 50 |
| TermoZ CS II 8/435 DT 110 V | 566431 | ● | 8 | 25 | 410 | 465 | TX30 | 50 |
| TermoZ CS II 8/455 DT 110 V | 566432 | ● | 8 | 25 | 430 | 485 | TX30 | 50 |

Accessoires

TermoZ CS II



MW



PS



Setting tool CS (hexagonaladapter)



Setting tool CS (SDS-adapter)

| Item | Item. No | Content | Match | Sales unit [pcs] |
|------------------------------------|----------|--------------------|-----------------------------|---------------------|
| Caps MW D60 | 046172 | - | - | 100 |
| Caps MW D65 | 525654 | - | TermoZ CS II DT 110 V | 100 |
| Caps PS D60 weiß | 046173 | - | - | 100 |
| Caps PS D60 grau | 544383 | - | - | 100 |
| Setting tool CS (hexagonaladapter) | 532618 | inklusive Bit TX30 | - | 1 |
| Setting tool CS (SDS-adapter) | 532619 | inklusive Bit TX30 | - | 1 |
| Bit TX30 CS 26 mm | 533761 | - | Setting tool CS, spare part | 1 |

Loads

TermoZ CS II/TermoZ CS II DT 110V

Permissible tension loads for a single anchor^{1) 2)} for multiple use for non-structural applications.

For the design the complete current assessment ETA-14/0372 has to be considered.

| Type TermoZ CS II DT 110V | Brick raw density | Minimum compressive brick strength | Effective anchorage depth | Minimum member thickness | Concrete and masonry | | |
|---|---------------------------------|------------------------------------|---------------------------|--------------------------|--|--|--|
| | ρ [kg/dm ³] | f_b [N/mm ²] | $h_{ef} \geq$ [mm] | h_{min} [mm] | Permissible tension load ¹⁾ N_{perm} [kN] | Minimum spacing ³⁾ s_{min} [mm] | Minimum edge distance ³⁾ c_{min} [mm] |
| Concrete | - | $\geq C12/15$ | 25 | 100 | 0.50 | 100 | 100 |
| | - | $\leq C50/60$ | 25 | 100 | 0.50 | 100 | 100 |
| Weather resistant concrete shell | - | $\geq C20/25$ | 25 | ≥ 40 | 0.50 | 100 | 100 |
| Solid Clay bricks e.g. acc. to DIN EN 771-1:2015, Mz | ≥ 1.8 | 20 | 25 | 100 | 0.50 | 100 | 100 |
| Calcium silicate solid bricks, e.g. acc. to DIN EN 771-2:2015, KS | ≥ 1.4 | 20 | 25 | 100 | 0.50 | 100 | 100 |
| | ≥ 1.4 | 12 | 25 | 100 | 0.50 | 100 | 100 |
| Solid lightweight concrete block, e.g. acc. to DIN EN 771-3:2015, Vbl | ≥ 1.4 | 8 | 25 | 100 | 0.40 | 100 | 100 |
| Solid concrete block, e.g. acc. to DIN EN 771-3:2015, Vbn | ≥ 2.0 | 20 | 25 | 100 | 0.50 | 100 | 100 |
| | ≥ 2.0 | 12 | 25 | 100 | 0.50 | 100 | 100 |
| Vertically perforated clay bricks e.g. acc. to DIN EN 771-1:2015, HLz | ≥ 0.9 | 12 | 25 | 100 | 0.22 | 100 | 100 |
| | ≥ 0.9 | 12 | 25 | 100 | 0.33 | 100 | 100 |
| | ≥ 1.6 | 48 | 25 | 100 | 0.50 | 100 | 100 |
| | ≥ 1.6 | 48 | 25 | 100 | 0.50 | 100 | 100 |
| Hollow calcium silicate brick, acc. to DIN EN 771-2:2015, KSL | ≥ 1.4 | 12 | 25 | 100 | 0.50 | 100 | 100 |
| Hollow brick lightweight concrete, e.g. acc. to DIN EN 771-3:2015 Hbl | ≥ 0.9 | 4 | 25 | 100 | 0.17 | 100 | 100 |
| Hollow brick concrete, e.g. acc. to DIN EN 771-3:2015 Hbn | ≥ 1.2 | 10 | 25 | 100 | 0.50 | 100 | 100 |
| | ≥ 1.2 | 8 | 25 | 100 | 0.50 | 100 | 100 |
| | ≥ 1.2 | 6 | 25 | 100 | 0.37 | 100 | 100 |
| | ≥ 1.2 | 4 | 25 | 100 | 0.25 | 100 | 100 |
| Lightweight aggregate concrete acc. to DIN EN 1520:2011-6, LAC | ≥ 0.9 | 4 | 25 | 100 | 0.32 | 100 | 100 |
| | ≥ 0.9 | 6 | 25 | 100 | 0.50 | 100 | 100 |
| Autoclaved aerated concrete blocks, e.g. AAC acc. to DIN EN 771-4:2015 | ≥ 0.5 | 4 | 25 | 100 | 0.22 | 100 | 100 |
| | ≥ 0.5 | 4 | 45 | 100 | 0.37 | 100 | 100 |

¹⁾ Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. to ETA data. Only tension wind loads are permitted. The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of $\gamma_L = 1.5$ are considered.

²⁾ The given loads are valid for installation and use of fixations in dry base material for temperatures in the substrate up to +24 °C (resp. short term up to +40 °C).

³⁾ Minimum possible axial spacing and edge distances acc. to ETA.

Support directly on the construction site.



- We recommend to do plug pull-out tests in unknown or old substrates plug pull-out tests to do.
- This allows statements to be made about the bearing capacity of the substrate and the selection of a suitable anchor.

Our service

- Advice and tensile tests on site by our technical field service
- Tensile tests with calibrated test equipment
- Determination of load values
- Provision of the test report
- Evaluation of the test results and recommendation on the appropriate fixing solutions

Your contact for technical advice

wavs@fischer.de

Our 360°-Service to you.

Your advantage

- Individual solutions from fischer
- fischer is at your disposal for questions or problems with fixings at any time with first class service aside.
- Our consultation is the basis for the selection of the safest, most economical and above all optimal solution for your very individual task



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