NEW

# fischer hammerset anchor EA PLUS

The cost-efficient and certified hammerset anchor for simple installation

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# fischer hammerset anchor EA PLUS

## The cost-efficient and certified hammerset anchor for simple installation

The hammerset anchor with internal thread enables an **easy pre-positioned installation.**

The metric thread of the EA PLUS allows the **usage of all standard screws** and therefore **offers high flexibility.**

The large range of hammerset anchors from diameter 6 to 12 offers a **wide range of thread sizes for different applications.**

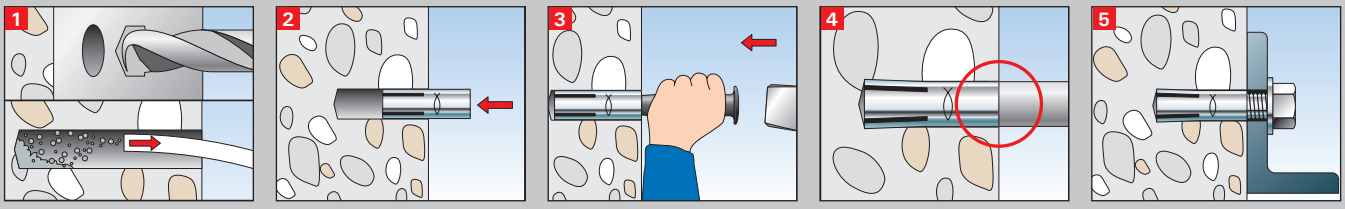
## Functionality

- Position the hammerset anchor in the drill hole and drive it in flush to the surface of the base material by using a hammer.
- The fischer setting tool EA-ST PLUS is then used to expand the sleeve against the drill hole wall by driving in the internal pin.
- The setting tool must sit on the edge of the anchor to ensure the correct expansion.

### Your advantages at a glance

- The ETA-certified (Option 7) hammerset anchor EA PLUS offers a high degree of safety in non-cracked concrete.
- The EA-ST PLUS setting tool guarantees a simple and quick installation.
- The EA PLUS has an ETA assessment for redundant non-structural systems. This ensures a safe installation of pipe routes or cable trays.
- The EA PLUS ETA (for redundant systems) offers the approval for fire resistance up to R120.

### Installation




### Approvals

ETA-19/0168
EAD 330232-00-0601
Option 7 for non-cracked concrete

ETA-19/0169
EAD 330747-00-0601
Multiple use for non-structural applications in craked or non-cracked concrete

Fire resistance classification
R 120
Anchor types see test report
*

*** only valid for ETA-19/0169 for redundant systems**

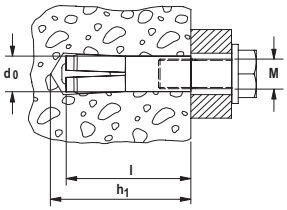
### Applications

**Light pipeline routes**

**Cable routes**

### Building material

# Applications, assortment and loads




## Hammerset anchor EA PLUS

| Item | Art.-No. Steel, zinc-plated gvz | Approval ETA | Drill diameter $d_0$ [mm] | Min. drill hole depth for push-through installation $h_1$ [mm] | Anchor length l [mm] | Maximum installation torque $t_{inst}$ [Nm] | Thread [M] | Seeting tool | Sales unit [pcs] |
|---|---|---|---|---|---|---|---|---|---|
| **EA PLUS M6x25** | **551788** | ■ | 8 | 25 | 25 | 4 | M6 | EA-ST PLUS M6x25 | 100 |
| **EA PLUS M8x30** | **551789** | ■ | 10 | 30 | 30 | 8 | M8 | EA-ST PLUS M8x30 | 100 |
| **EA PLUS M10x40** | **551790** | ■ | 12 | 40 | 40 | 15 | M10 | EA-ST PLUS M10x40 | 50 |
| **EA PLUS M12x50** | **551791** | ■ | 15 | 50.5 | 50 | 35 | M12 | EA-ST PLUS M12x50 | 50 |
| **Setting tool EA-ST PLUS M6x25** | **551792** | – | – | – | – | – | – | – | 1 |
| **Setting tool EA-ST PLUS M6x30** | **551793** | – | – | – | – | – | – | – | 1 |
| **Setting tool EA-ST PLUS M10x40** | **551794** | – | – | – | – | – | – | – | 1 |
| **Setting tool EA-ST PLUS M12x50** | **551795** | – | – | – | – | – | – | – | 1 |

Hammerset anchor EA PLUS

| | Highest permissible loads for a single anchor for multiple use for non-structural applications in cracked and non-cracked concrete C20/25 [1) 2) 3)] | | | | | Minimum spacing and edge distance | |
|---|---|---|---|---|---|---|---|
| Item | Screw steel property/ surface | Min. member thickness $h_{min}$ [mm] | Effective anchorage depth $h_{ef}$ [mm] | Maximum installation torque $T_{max}$ [Nm] | Permissible tension load $F_{perm}$ [4)] [kN] | Minimum spacing $s_{min}$ [5)] [mm] | Minimum edge distance $c_{min}$ [5)] [mm] |
| **EA PLUS M6x25** | C8C [2)] | 100 | 25 | 4 | 0,8 | 120 | 110 |
| **EA PLUS M8x30** | C8C [2)] | 100 | 30 | 8 | 0,8 | 130 | 140 |
| **EA PLUS M10x40** | C8C [2)] | 120 | 40 | 15 | 1,6 | 120 | 140 |
| **EA PLUS M12x50** | C8C [2)] | 140 | 50 | 35 | 1,2 | 150 | 175 |

For the design the complete assessment ETA-19/0169 has to be considered. [6)]

1) The partial safety factors for material resistance as regulated in the ETA-19/0169 of 05.04.2019 as well as a partial safety factor for load actions of γL = 1,4 are considered. As an single anchor counts e.g. an anchor with a spacing s ≥ 3·$h_{ef}$ and an edge distance c ≥ 1.5·$h_{ef}$. Accurate data see ETA.
2) Cold formed steel grade C8C in accordance with table 2 in EN 10263-2 or cold formed steel grade 1008 in accordance with table 3 in ASTM A510. Galvanised.
3) Drill method hammer drilling.
4) Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads as well as bending moments see ETA.
5) Minimum possible axial spacings resp. edge distances while increasing the member thickness. The combination of minimum axial spacing and minimum edge distance with the minimum member thickness is not possible. Exact data see ETA.
6) The given loads refer to the European Technical Assessment ETA. Design of the loads according ETAG 001, Annex C, Method A.

Hammerset anchor EA PLUS

| | Permissible loads of a single anchor in non-cracked normal concrete (concrete compression zone) of strength class C20/25 (~B25) [1) 2) 3)] | | | | | | Minimum spacing and edge distance | |
|---|---|---|---|---|---|---|---|---|
| Item | Screw steel property/ surface | Min. member thickness $h_{min}$ [mm] | Effective anchorage depth $h_{ef}$ [mm] | Maximum installation torque $T_{max}$ [Nm] | Permissible tension load $F_{perm}$ [4)] [kN] | Permissible shear load $V_{perm}$ [4)] [kN] | Minimum spacing $s_{min}$ [5)] [mm] | Minimum edge distance $c_{min}$ [5)] [mm] |
| **EA PLUS M8x30** | C8C [2)] | 100 | 30 | 8 | 1,7 | 2,6 | 130 | 140 |
| **EA PLUS M10x40** | C8C [2)] | 120 | 40 | 15 | 2,8 | 3,3 | 120 | 140 |
| **EA PLUS M12x50** | C8C [2)] | 140 | 50 | 35 | 4,0 | 3,6 | 150 | 175 |

For the design the complete assessment ETA-19/0168 has to be considered. [6)]

1) The partial safety factors for material resistance as regulated in the ETA-19/0168 of 05.04.2019 as well as a partial safety factor for load actions of γL = 1,4 are considered. As an single anchor counts e.g. an anchor with a spacing s ≥ 3·$h_{ef}$ and an edge distance c ≥ 1.5·$h_{ef}$. Accurate data see ETA.
2) Cold formed steel grade C8C in accordance with table 2 in EN 10263-2 or cold formed steel grade 1008 in accordance with table 3 in ASTM A510. Galvanised.
3) Drill method hammer drilling.
4) For combinations of tensile loads and shear loads or for shear loads with lever arm (bending moments) as well as reduced edge distances or spacings (anchor groups) see ETA.
5) Minimum possible axial spacings resp. edge distance while reducing the permissible load.
6) The given loads refer to the European Technical Assessment ETA. Design of the loads according ETAG 001, Annex C, Method A.

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