



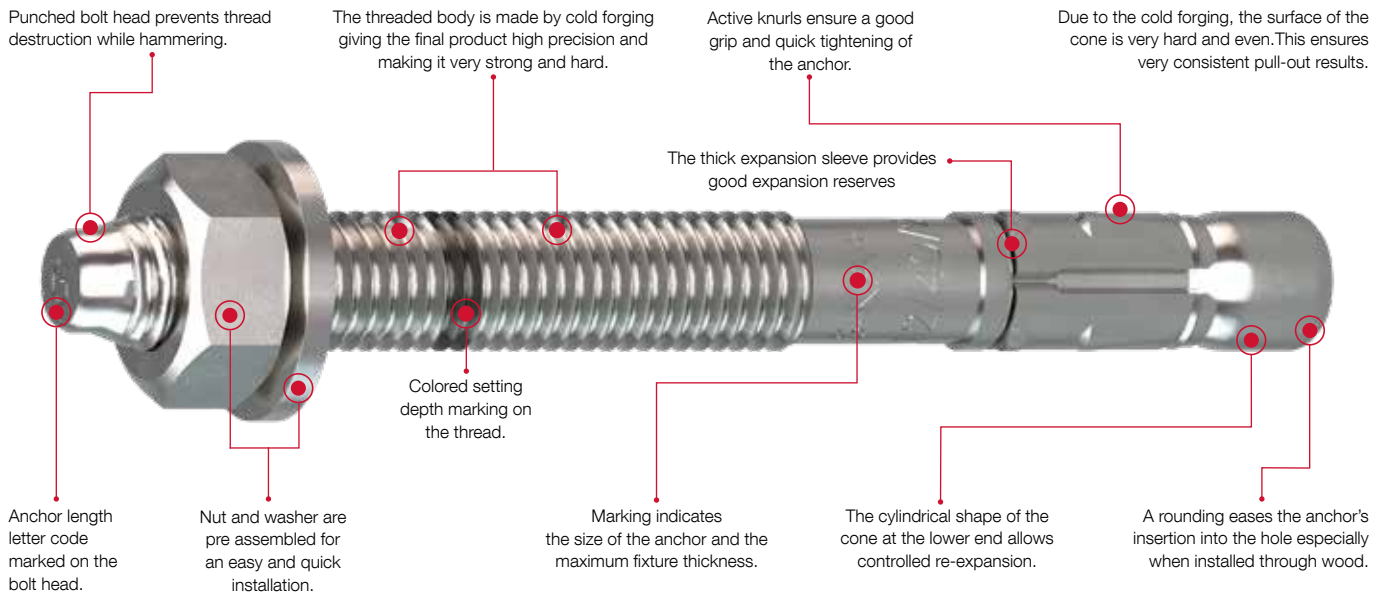
C2 seismic approval



EJOT® Through Bolts BA Plus

High performance through bolts for fixing in cracked and non-cracked concrete

High performance through bolts for fixing in cracked and non-cracked concrete



Through Bolt BA Plus

The through bolt is a torque-controlled expansion anchor for use in cracked and non-cracked concrete. The anchor is preassembled and can be installed directly through the fixture.

It is available

- In zinc electroplated steel for indoor and dry applications.
- In hot dip galvanized steel for damp interiors with occasional exposure to condensation and in non-safety-relevant slightly corrosive outside environments, when corrosion is inspected regularly.
- In stainless steel for outdoor applications subject to humidity, as well as installation in industrial and maritime environments.
- In HCR stainless steel for aggressive conditions, chloride atmosphere and atmosphere with chemical pollution such as tunnels, swimming pools etc.

Benefits

- Fixing in cracked and non-cracked concrete, also suitable for natural stone
- Torque-controlled expansion anchors for pre-, push-through and distance installations
- When torque is applied the expansion clip expands developing frictional grip into the hole.
- Anchor diameter and max. fixture thickness marked on the body.
- Anchor length letter code marked on the bolt head.
- Colored setting depth marking for the deeper anchorage depth on the thread.
- Variable range of coatings and materials such as ZP, HDG, A4 and HCR 1.4529/4.4565 which supports for anchor selecting in different applications



BA-V Plus carbon steel

Zinc electroplated acc. EN ISO 4042, $t \geq 5 \mu\text{m}$



Dry indoor conditions, indoor with temporary condensation

BA-F Plus carbon steel

Hot dip galvanized acc. EN ISO 10684, $t \geq 40 \mu\text{m}$



Humid indoor use, outdoor inland rural areas only in not safety relevant applications

BA-E Plus A4 stainless steel

A4 for indoor, outdoor, industrial use and maritime climate



BA-E Plus A4 recommended when fire or corrosion resistance is required.

BA-E Plus HCR

HCR for extremely corrosive conditions,



such as high chlorine concentrations (swimming halls) road tunnels and desulphurization plants.

Base materials





Approved for

- Cracked concrete
- Non-cracked concrete

Also suitable for

- Natural stone

Approvals / Certifications / Applications

| Description of document | | Authority/ Laboratory | ID | Additional info |
|--------------------------------------|--|--|-------------|--|
| European Technical Assessment |  | ZAG -National Building and Civil Engineering Institute, Slovenia | ETA-18/0219 | EAD 330232-00-0601 |
| Fire resistance |  | ZAG -National Building and Civil Engineering Institute, Slovenia / MFPA Institute for Materials Research and Testing, Leipzig, Germany | ETA-18/0219 | EOTA TR 020 / EN 1992-4 |
| Seismic resistance |  | ZAG -National Building and Civil Engineering Institute, Slovenia / Fobatec GmbH, Dortmund, Germany | ETA-18/0219 | EOTA TR 045 BA-V Plus / BA-E Plus anchor size M8: C1 anchor size M10, M12, M16: C2 |
| EJOT Anchor Fix calculation software |  | EJOT software | | Free download: www.ejot.com/construction/anchorfix |

Additional information concerning all given data in the product data sheet

1. Load figures include the partial safety factors as per approvals and a partial safety factor on the action of $\gamma_F = 1.4$. Load figures apply for a rebar spacing $s \geq 15$ cm or alternatively for a rebar spacing $s \geq 10$ cm in combination with a rebar diameter of $d_s \leq 10$ mm.
2. If spacings or edge distances become smaller than the characteristic figures ($s_{cr,N} / c_{cr,N}$) a calculation as per EOTA TR 055 needs to be carried out. For more details, see ETA-18/0219.
3. Concrete is considered non-cracked when the value of tension within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3$ N/mm² can be assumed (σ_L equals the tension within the concrete as a result of external loads, forces on anchor included; σ_R equals the tension coming from shrinkage or creep of the concrete, as well as displacements of supports or temperature variations).
4. Shear load figures apply for an anchor without influence of a concrete edge. For shear loads close to an edge ($c \leq 10 \times h_{ef}$), concrete edge failure has to be checked as per EOTA TR 055.

Static and quasi-static loads

The data of these tables is based on:

- Concrete C20/25, $f_{ck,cube} = 25 \text{ N/mm}^2$.
- Installation has been done correctly (see page 10).
- No influence of edge distances and spacings.
- Respect of minimum base material thickness (see page 11).

Characteristic resistances

| Anchor size | | M8 | M10 | | M12 | | M16 |
|------------------------------------|------|-------|------|-------|------|-------|------|
| Effective anchorage depth h_{ef} | [mm] | 48 | 40 | 60 | 50 | 70 | 85 |
| Non-cracked concrete | | | | | | | |
| Tensile N_{Rk} | | | | | | | |
| BA-V Plus / BA-F Plus | [kN] | 11.0 | 12.0 | 19.0 | 17.9 | 25.0 | 36.0 |
| BA-E Plus / BA-E Plus HCR | [kN] | 11.0 | 12.0 | 19.0 | 17.9 | 25.0 | 36.0 |
| Shear V_{Rk} | | | | | | | |
| BA-V Plus / BA-F Plus | [kN] | 12.6* | 12.8 | 18.4* | 17.9 | 28.7* | 54.1 |
| BA-E Plus / BA-E Plus HCR | [kN] | 16.8 | 12.8 | 18.4* | 17.9 | 28.7* | 79.1 |
| Cracked concrete | | | | | | | |
| Tensile N_{Rk} | | | | | | | |
| BA-V Plus / BA-F Plus | [kN] | 8.5 | 9.1 | 12.0 | 12.7 | 16.0 | 24.0 |
| BA-E Plus / BA-E Plus HCR | [kN] | 8.5 | 9.1 | 12.0 | 12.7 | 16.0 | 24.0 |
| Shear V_{Rk} | | | | | | | |
| BA-V Plus / BA-F Plus | [kN] | 12.0 | 9.1 | 18.4* | 12.7 | 28.7* | 56.4 |
| BA-E Plus / BA-E Plus HCR | [kN] | 12.0 | 9.1 | 18.4* | 12.7 | 28.7* | 56.4 |

* Failure mode = steel

Design resistances

| Anchor size | | M8 | M10 | | M12 | | M16 |
|------------------------------------|------|------|-----|-------|------|-------|-------|
| Effective anchorage depth h_{ef} | [mm] | 48 | 40 | 60 | 50 | 70 | 85 |
| Non-cracked concrete | | | | | | | |
| Tensile N_{Rd} | | | | | | | |
| BA-V Plus / BA-F Plus | [kN] | 7.3 | 8.0 | 12.7 | 11.9 | 16.7 | 24.0 |
| BA-E Plus / BA-E Plus HCR | [kN] | 7.3 | 8.0 | 12.7 | 11.9 | 16.7 | 24.0 |
| Shear V_{Rd} | | | | | | | |
| BA-V Plus / BA-F Plus | [kN] | 10.1 | 8.5 | 14.7* | 11.9 | 23.0* | 43.3* |
| BA-E Plus / BA-E Plus HCR | [kN] | 11.2 | 8.5 | 14.7* | 11.9 | 23.0* | 52.7 |
| Cracked concrete | | | | | | | |
| Tensile N_{Rd} | | | | | | | |
| BA-V Plus / BA-F Plus | [kN] | 5.7 | 6.1 | 8.0 | 8.5 | 10.7 | 16.0 |
| BA-E Plus / BA-E Plus HCR | [kN] | 5.7 | 6.1 | 8.0 | 8.5 | 10.7 | 16.0 |
| Shear V_{Rd} | | | | | | | |
| BA-V Plus / BA-F Plus | [kN] | 8.0 | 6.1 | 14.7* | 8.5 | 23.0* | 37.6 |
| BA-E Plus / BA-E Plus HCR | [kN] | 8.0 | 6.1 | 14.7* | 8.5 | 23.0* | 37.6 |

* Failure mode = steel

Static and quasi-static loads

The data of these tables is based on:

- Concrete C20/25, $f_{ck,cube} = 25 \text{ N/mm}^2$.
- Installation has been done correctly (see page 10).
- No influence of edge distances and spacings.
- Respect of minimum base material thickness (see page 11).

Recommended loads

| Anchor size | | | M8 | M10 | | M12 | | M16 |
|------------------------------------|---------------------------|------|------|-----|-------|-----|-------|------|
| Effective anchorage depth h_{ef} | | [mm] | 48 | 40 | 60 | 50 | 70 | 85 |
| Non-cracked concrete | | | | | | | | |
| Tensile N_{Rec} | BA-V Plus / BA-F Plus | [kN] | 5.2 | 5.7 | 9.0 | 8.5 | 11.9 | 17.1 |
| | BA-E Plus / BA-E Plus HCR | [kN] | 5.2 | 5.7 | 9.0 | 8.5 | 11.9 | 17.1 |
| Shear V_{Rec} | BA-V Plus / BA-F Plus | [kN] | 7.2* | 6.1 | 10.5* | 8.5 | 16.4* | 30.9 |
| | BA-E Plus / BA-E Plus HCR | [kN] | 8.0 | 6.1 | 10.5* | 8.5 | 16.4* | 37.7 |
| Cracked concrete | | | | | | | | |
| Tensile N_{Rec} | BA-V Plus / BA-F Plus | [kN] | 4.0 | 4.3 | 5.7 | 6.1 | 7.6 | 11.4 |
| | BA-E Plus / BA-E Plus HCR | [kN] | 4.0 | 4.3 | 5.7 | 6.1 | 7.6 | 11.4 |
| Shear V_{Rec} | BA-V Plus / BA-F Plus | [kN] | 5.7 | 4.3 | 10.5* | 6.1 | 16.4* | 26.9 |
| | BA-E Plus / BA-E Plus HCR | [kN] | 5.7 | 4.3 | 10.5* | 6.1 | 16.4* | 26.9 |
| * Failure mode = steel | | | | | | | | |

Fire resistance

The data of these tables is based on:

- In the absence of other national regulations the partial safety factor or resistance under fire exposure $\gamma_{M,fi} = 1,0$ is recommended
- Concrete C20/25, $f_{ck,cube} = 25 \text{ N/mm}^2$
- Installation has been done correctly (see page 10).
- No influence of edge distances and spacings.
- Respect of minimum base material thickness (see page 11).



Characteristic resistances

| Anchor size | | | M8 | | M10 | | M12 | | M16 | |
|------------------------------------|---------------------------|------|------|------|------|------|------|------|-----|----|
| Effective anchorage depth h_{ef} | | | [mm] | | 48 | 40 | 60 | 50 | 70 | 85 |
| R30 | | | | | | | | | | |
| Tensile $N_{Rk,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.22 | 0.56 | 0.56 | 1.12 | 1.12 | 2.11 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.45 | 0.93 | 0.93 | 1.73 | 1.73 | 3.17 | | |
| Shear $V_{Rk,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.22 | 0.56 | 0.56 | 1.12 | 1.12 | 2.11 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.45 | 0.93 | 0.93 | 1.73 | 1.73 | 3.17 | | |
| R60 | | | | | | | | | | |
| Tensile $N_{Rk,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.20 | 0.48 | 0.48 | 0.84 | 0.84 | 1.58 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.36 | 0.74 | 0.74 | 1.45 | 1.45 | 2.64 | | |
| Shear $V_{Rk,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.20 | 0.48 | 0.48 | 0.84 | 0.84 | 1.58 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.36 | 0.74 | 0.74 | 1.45 | 1.45 | 2.64 | | |
| R90 | | | | | | | | | | |
| Tensile $N_{Rk,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.16 | 0.37 | 0.37 | 0.73 | 0.73 | 1.37 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.27 | 0.59 | 0.59 | 1.16 | 1.16 | 2.11 | | |
| Shear $V_{Rk,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.16 | 0.37 | 0.37 | 0.73 | 0.73 | 1.37 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.27 | 0.59 | 0.59 | 1.16 | 1.16 | 2.11 | | |
| R120 | | | | | | | | | | |
| Tensile $N_{Rk,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.11 | 0.30 | 0.30 | 0.56 | 0.56 | 1.06 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.22 | 0.52 | 0.52 | 0.93 | 0.93 | 1.69 | | |
| Shear $V_{Rk,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.11 | 0.30 | 0.30 | 0.56 | 0.56 | 1.06 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.22 | 0.52 | 0.52 | 0.93 | 0.93 | 1.69 | | |

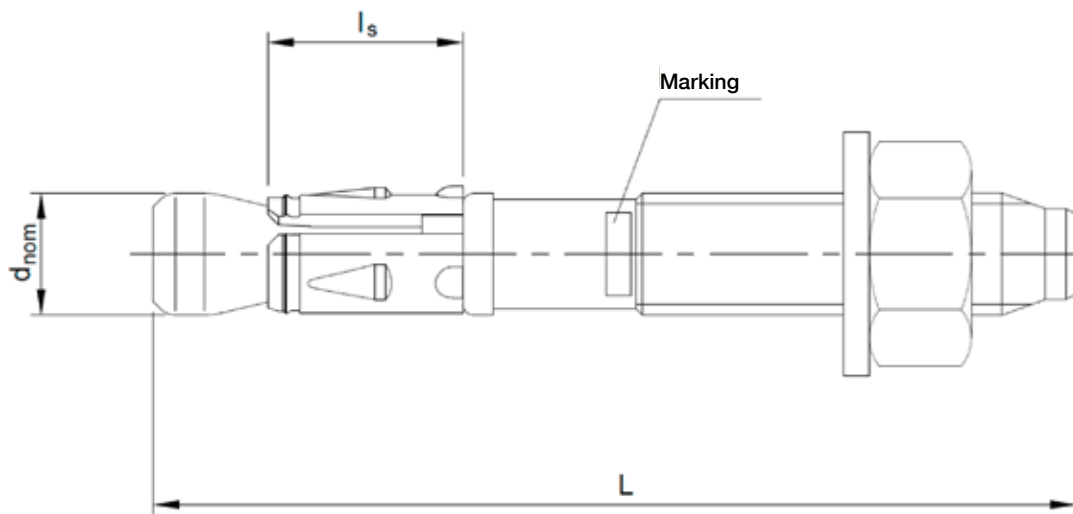
Recommended loads

| Anchor size | | | M8 | | M10 | | M12 | | M16 | |
|------------------------------------|---------------------------|------|------|------|------|------|------|------|-----|----|
| Effective anchorage depth h_{ef} | | | [mm] | | 48 | 40 | 60 | 50 | 70 | 85 |
| R30 | | | | | | | | | | |
| Tensile $N_{Rec,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.22 | 0.56 | 0.56 | 1.12 | 1.12 | 2.11 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.45 | 0.93 | 0.93 | 1.73 | 1.73 | 3.17 | | |
| Shear $V_{Rec,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.22 | 0.56 | 0.56 | 1.12 | 1.12 | 2.11 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.45 | 0.93 | 0.93 | 1.73 | 1.73 | 3.17 | | |
| R60 | | | | | | | | | | |
| Tensile $N_{Rec,fi}$ | BA-V Plus / BA-F Plus | | 0.20 | 0.48 | 0.48 | 0.84 | 0.84 | 1.58 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.36 | 0.74 | 0.74 | 1.45 | 1.45 | 2.64 | | |
| Shear $V_{Rec,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.20 | 0.48 | 0.48 | 0.84 | 0.84 | 1.58 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.36 | 0.74 | 0.74 | 1.45 | 1.45 | 2.64 | | |
| R90 | | | | | | | | | | |
| Tensile $N_{Rec,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.16 | 0.37 | 0.37 | 0.73 | 0.73 | 1.37 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.27 | 0.59 | 0.59 | 1.16 | 1.16 | 2.11 | | |
| Shear $V_{Rec,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.16 | 0.37 | 0.37 | 0.73 | 0.73 | 1.37 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.27 | 0.59 | 0.59 | 1.16 | 1.16 | 2.11 | | |
| R120 | | | | | | | | | | |
| Tensile $N_{Rec,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.11 | 0.30 | 0.30 | 0.56 | 0.56 | 1.06 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.22 | 0.52 | 0.52 | 0.93 | 0.93 | 1.69 | | |
| Shear $V_{Rec,fi}$ | BA-V Plus / BA-F Plus | [kN] | 0.11 | 0.30 | 0.30 | 0.56 | 0.56 | 1.06 | | |
| | BA-E Plus / BA-E Plus HCR | [kN] | 0.22 | 0.52 | 0.52 | 0.93 | 0.93 | 1.69 | | |

Materials and dimensions

Anchor dimensions

| Anchor size | | M8 | M10 | M12 | M16 |
|---------------|----------------|------------|------------|-------------|-------------|
| Total length | L [mm] | 62...420 | 62...420 | 78...420 | 118..420 |
| Sleeve length | L_s [mm] | 14.8 | 17.9 | 19.1 | 26.0 |
| Cone bolt | d_{nom} [mm] | 8 | 10 | 12 | 16 |
| Hexagonal nut | SW [mm] | 13 | 17 | 19 | 24 |
| | m | ≥ 6.5 | ≥ 8.0 | ≥ 10.0 | ≥ 13.0 |



Mechanical properties

| Specification | Anchor/size | | M8 | M10 | M12 | M16 |
|--|---------------------------|----------------------|------|------|------|-------|
| Nominal tensile strength $f_{uk,thread}$ | BA-V Plus / BA-F Plus | [N/mm ²] | 700 | 680 | 660 | 660 |
| | BA-E Plus / BA-E Plus HCR | [N/mm ²] | 670 | 680 | 660 | 660 |
| Char. bending resistance $M_{Rk,s}^0$ | BA-V Plus / BA-F Plus | [Nm] | 26.2 | 50 | 86 | 219.8 |
| | BA-E Plus / BA-E Plus HCR | [Nm] | 25.1 | 50 | 86 | 214.8 |
| Design bending resistance $M_{Rd,s}$ | BA-V Plus / BA-F Plus | [Nm] | 21.0 | 40 | 68.8 | 175.8 |
| | BA-E Plus / BA-E Plus HCR | [Nm] | 20.1 | 40 | 68.8 | 171.8 |
| Recommended bending resistance M_{Rec} | BA-V Plus / BA-F Plus | [Nm] | 15.0 | 28.6 | 49.1 | 125.6 |
| | BA-E Plus / BA-E Plus HCR | [Nm] | 14.3 | 28.6 | 49.1 | 122.7 |

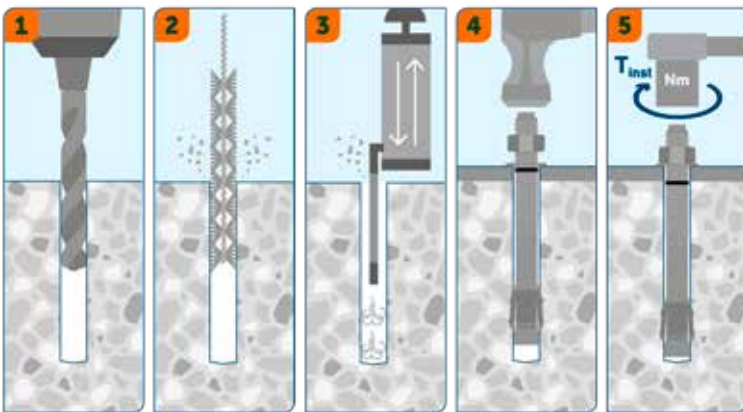
Material quality

| Part of anchor | | Material |
|----------------|---------------|--|
| Bolt | BA-V Plus | Carbon steel, zinc electroplated EN ISO 4042, min. 5 μ m |
| | BA-F Plus | Carbon steel, hot dip galvanized EN ISO 10684, min. 40 μ m |
| | BA-E Plus | Stainless steel A4 |
| | BA-E Plus HCR | Stainless steel HCR 1.4529 / 1.4565 |

Setting instructions

Installation equipment

| Specification | M8 | M10 | M12 | M16 |
|--------------------------------|---|-----|-----------------|---------------------------|
| Rotary hammer (reccomendation) | 720...1200 r.p.m / 1.8...3.3 J | | | 360...550 4.9...11.5 J |
| Setting tool (optional) | BA-V 6-10 SDS+ | | BA-V 12-20 SDS+ | |
| Drill bit | SDS+ 2-CUT/4-CUT 8 mm...16 mm | | | |
| Additional tools | brush, air pump/compressor, hammer, torque wrench | | | |



Installation

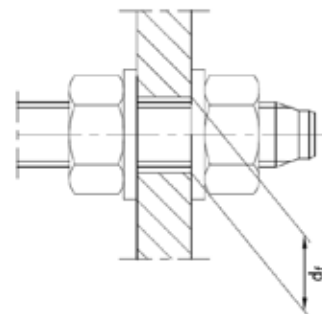
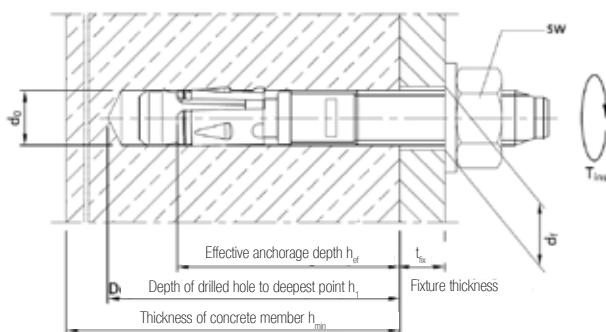
1. Drill a hole according to the product data.
- 2.-3. Clean the hole using a metal brush and a blow-out pump.
4. Install anchor with a hammer or a setting tool.
5. Tighten the anchor to the specified installation torque.

Installation data

| Parameters and anchors sizes | | | | M8 | M10 | M12 | M16 | | |
|--|---------------------------|------------|------|------|-------|-------|-------|----|-----|
| Drill hole diameter | d_0 | [mm] | | 8 | 10 | 12 | 16 | | |
| Cutting diameter at the upper tolerance limit (max. diam. bit) | $d_{cut,max}$ | [mm] | | 8.45 | 10.45 | 12.50 | 16.50 | | |
| Depth of drilled hole to deepest point | h_1 | [mm] | | 60 | 55 | 75 | 70 | 90 | 110 |
| Effective anchorage depth | h_{ef} | [mm] | | 48 | 40 | 60 | 50 | 70 | 85 |
| Nominal anchorage depth | h_{nom} | [mm] | | 53 | 48 | 68 | 61 | 81 | 97 |
| Diameter of clearance hole in the fixture | d_f | [mm] | | 9 | 12 | 14 | 18 | | |
| Width across flats | SW | [mm] | | 13 | 17 | 19 | 24 | | |
| Required torque | BA-V Plus / BA-F Plus | T_{inst} | [Nm] | 15 | 30 | 60 | 110 | | |
| | BA-E Plus / BA-E Plus HCR | | | 20 | 45 | 60 | 110 | | |

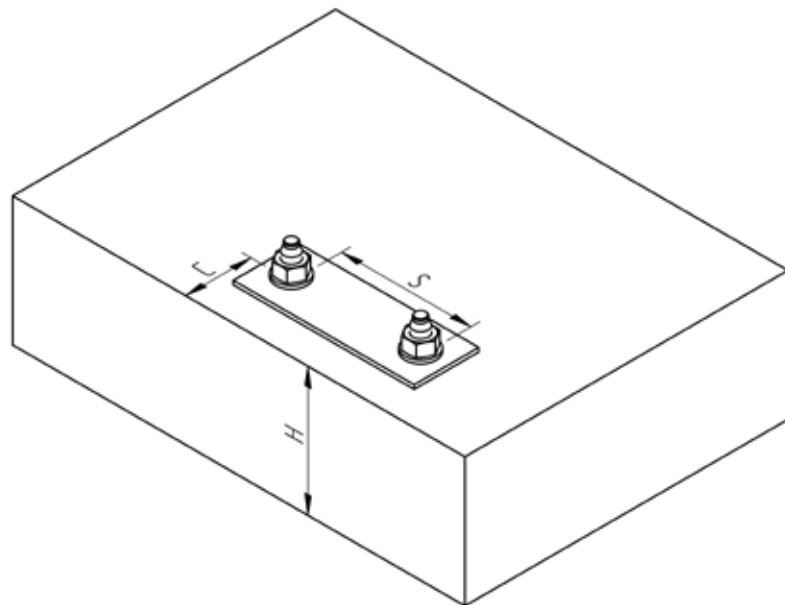
Installation methods

| Through installation | Distance installation |
|----------------------|-----------------------|
|----------------------|-----------------------|



Minimum thickness of concrete member, spacing and edge distance

| Cracked and non-cracked concrete | | | M8 | M10 | | M12 | | M16 |
|---|---------------|------|-----|-----|-----|-----|-----|-----|
| Effective anchorage depth | h_{ef} | [mm] | 48 | 40 | 60 | 50 | 70 | 85 |
| Minimum thickness of base material | h_{min} | [mm] | 100 | 100 | 120 | 100 | 140 | 170 |
| | $h_{min-red}$ | [mm] | 80 | - | 100 | - | - | - |
| Minimum spacing for h_{min} | s_{min} | [mm] | 35 | 50 | 40 | 55 | 60 | 65 |
| | $c \geq$ | [mm] | 50 | 95 | 60 | 110 | 70 | 95 |
| Minimum edge distance for h_{min} | c_{min} | [mm] | 40 | 50 | 50 | 60 | 55 | 65 |
| | $s \geq$ | [mm] | 55 | 190 | 100 | 215 | 110 | 150 |
| Minimum spacing for $h_{min-red}$ | s_{min} | [mm] | 35 | - | 40 | - | - | - |
| | $c \geq$ | [mm] | 55 | - | 100 | - | - | - |
| Minimum edge distance for $h_{min-red}$ | c_{min} | [mm] | 40 | - | 60 | - | - | - |
| | $s \geq$ | [mm] | 60 | - | 90 | - | - | - |
| Critical spacing for splitting failure and concrete cone failure (in case characteristic loading affects) | $s_{cr,sp}$ | [mm] | 192 | 160 | 240 | 200 | 280 | 340 |
| | $s_{cr,N}$ | [mm] | 144 | 120 | 180 | 150 | 210 | 254 |
| Critical edge distance for splitting failure and concrete cone failure (in case characteristic loading affects) | $c_{cr,sp}$ | [mm] | 96 | 80 | 120 | 100 | 140 | 170 |
| | $c_{cr,N}$ | [mm] | 72 | 60 | 90 | 75 | 105 | 127 |







Setting tool BA

Hammering tool to make through bolt installation quicker and smoother

- Original EJOT through bolts setting tool with designed head that does not damage the head of the anchor and keep the head from slipping.
- Besides ensuring most efficient and safe through bolt installation in general, the setting tool also significantly saves time and energy in serial installation.
- Compatible with all SDS+ chuck machines.



Through Bolts BA Plus

| Delivery program | | | | BA-V Plus | BA-F Plus | BA-E Plus | BA-E Plus HCR |
|------------------|------------|------------------|--------|---|---|---|---|
| | | | |  |  |  |  |
| Thread size | Type | t _{fix} | Length | Zinc | Hot dip | Stainless A4 | HCR |
| M8 | M8/10 | 10 | 75 | • | • | • | • |
| | M8/30 | 30 | 95 | • | • | • | • |
| | M8/50 | 50 | 115 | • | • | • | • |
| | M8/85 | 85 | 150 | • | • | • | • |
| M10 | M10/10/- | 10/- | 72 | • | • | • | • |
| | M10/30/10 | 30/10 | 92 | • | • | • | • |
| | M10/40/20 | 40/20 | 102 | • | • | • | • |
| | M10/50/30 | 50/30 | 112 | • | • | • | • |
| | M10/70/50 | 70/50 | 132 | • | • | • | • |
| | M10/100/80 | 100/80 | 162 | • | • | • | • |
| M12 | M12/10/- | 10/- | 88 | • | • | • | • |
| | M12/25/5 | 25/5 | 103 | • | • | • | • |
| | M12/40/20 | 40/20 | 118 | • | • | • | • |
| | M12/50/30 | 50/30 | 128 | • | • | • | • |
| | M12/70/50 | 70/50 | 148 | • | • | • | • |
| | M12/85/65 | 85/65 | 163 | • | • | • | • |
| M16 | M16/5 | 5 | 123 | • | • | • | • |
| | M16/20 | 20 | 138 | • | • | • | • |
| | M16/50 | 50 | 168 | • | • | • | • |
| | M16/60 | 60 | 178 | • | • | • | • |

• On request



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