

Concrete screw BSZ A4

Stainless steel A4



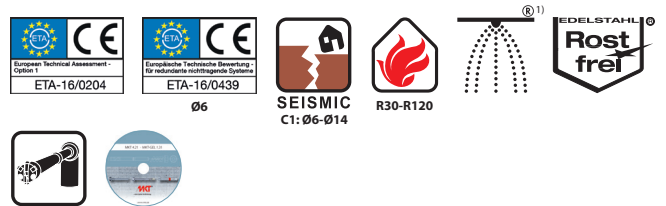
Range of loading: 0,48 kN–19,6 kN
Range of concrete quality: C20/25–C50/60

Description

Option 1 approved concrete screw BSZs cut a positive thread in the concrete when being screwed in and enable attachment to be made close to the edge through the expansion-free operating principle (=undercut). The approved adjustment enables subsequent alignment to compensate for unevenness. The BSZ A4 concrete screw is also ideal for temporary fixings since it is fully removable. Installation with an impact screwdriver means that you do not need to use a torque wrench. It is quick, reliable and reduces assembly errors. The BSZ A4 concrete screws are available with connection thread and with a range of different head shapes for a wide variety of applications.

Advantages

- European Technical Assessment for anchoring in cracked and uncracked concrete (Option 1) for concrete screws in sizes 6, 8 and 10
- With up to 3 embedment depths, it is versatile for high loads or low levels of drilling and installation effort
- European Technical Assessment for redundant non-structural systems in concrete and precast pre-stressed hollow core slabs for concrete screws in diameter 6
- Approved for use under seismic conditions of category C1²⁾ (Ø8 to Ø10 for embedment depth h_{nom})
- Approved for use under fire exposure (R30-R120).
- Small drill hole diameter, small edge and axial gap
- Rapid push-through installation with an impact screwdriver without torque regulation
- No curing times, can be loaded immediately
- Adjustable to compensate for unevenness (Ø8- Ø10 mm)
- Can be fully removed
- Wide range of possible applications through numerous variants

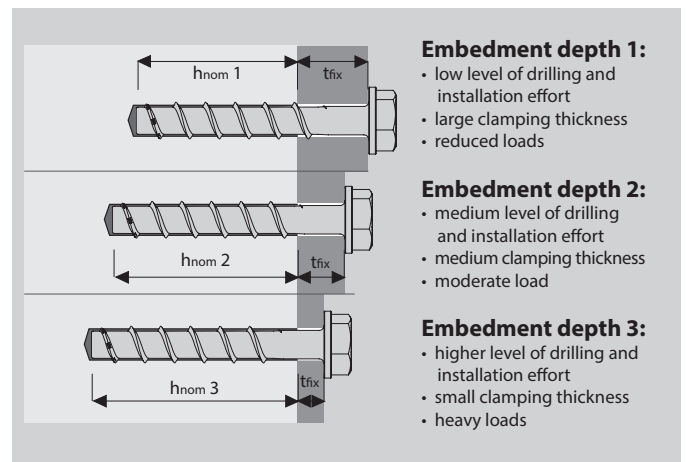


- Visually appealing through different head shapes
- Without assessment, can also be used in compression-resistant natural stone, various solid bricks and green concrete

Applications

To anchor moderate to heavy loads outside and inside in cracked and uncracked concrete: Railings and handrails, steel beans, wooden beams, supports and braces, brackets, pipeline and cable routes, suspended ceilings, etc.

Highly versatile for up to three different embedment depths



¹⁾Not for applications in precast pre-stressed hollow core slabs

²⁾For head designs, diameters and screw-in depths, see product tables and ETA-16/0204

Concrete screw BSZ-SU A4



- Hex head with pressed disc
- Stainless Steel A4
- Through smaller drive and pressed on washer also suitable for areas where access is difficult and elongated holes

| Description | Ref. No. | Embedment depth 1 ¹⁾ | | | | Embedment depth 2 | | | | Embedment depth 3 | | | | Anchor length L | Pressed disk Ø | Drive | Pkg. content | Weight per pkg. |
|------------------|----------|---------------------------------------|-------------------------|---------------------------------------|------------|---------------------------------------|-------------------------|---------------------------------------|------------|---------------------------------------|-------------------------|---------------------------------------|------------|-----------------|----------------|-------|--------------|-----------------|
| | | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom} 1 mm | Seismic C1 | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom} 2 mm | Seismic C1 | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom} 3 mm | Seismic C1 | | | | | |
| BSZ-SU 6x50 A4 | 59121001 | 15 | 6x40 | 35 | - | 10 | 6x45 | 40 | ✓ | - | - | - | - | 50 | 17 | SW 13 | 100 | 1,79 |
| BSZ-SU 6x60 A4 | 59121501 | 25 | 6x40 | 35 | - | 20 | 6x45 | 40 | ✓ | 5 | 6x60 | 55 | ✓ | 60 | 17 | SW 13 | 100 | 2,17 |
| BSZ-SU 8x70 A4 | 59132001 | 25 | 8x55 | 45 | - | 15 | 8x65 | 55 | - | 5 | 8x75 | 65 | ✓ | 70 | 16 | SW 13 | 50 | 2,05 |
| BSZ-SU 8x80 A4 | 59132501 | 35 | 8x55 | 45 | - | 25 | 8x65 | 55 | - | 15 | 8x75 | 65 | ✓ | 80 | 16 | SW 13 | 50 | 2,20 |
| BSZ-SU 10x90 A4 | 59142501 | 35 | 10x65 | 55 | ✓ | 15 | 10x85 | 75 | - | 5 | 10x95 | 85 | ✓ | 90 | 20 | SW 15 | 50 | 3,82 |
| BSZ-SU 10x100 A4 | 59143001 | 45 | 10x65 | 55 | ✓ | 25 | 10x85 | 75 | - | 15 | 10x95 | 85 | ✓ | 100 | 20 | SW 15 | 50 | 4,13 |
| BSZ-SU 10x120 A4 | 59144001 | 65 | 10x65 | 55 | ✓ | 45 | 10x85 | 75 | - | 35 | 10x95 | 85 | ✓ | 120 | 20 | SW 15 | 50 | 4,73 |

¹⁾For embedment depth h_{nom} 1 = 35 mm: Only for redundant non-structural systems in concrete and precast pre-stressed hollow core slabs.

Concrete screw BSZ-SK A4



- Countersunk head with Torx drive
- Stainless Steel A4
- For installations being flush with the fixture

| Description | Ref. No. | Embedment depth 1 ¹⁾ | | | | Embedment depth 2 | | | | Embedment depth 3 | | | | Anchor length L | Pressed disk Ø | Drive | Pkg. content | Weight per pkg. |
|------------------|----------|---------------------------------------|-------------------------|---------------------------------------|------------|---------------------------------------|-------------------------|---------------------------------------|------------|---------------------------------------|-------------------------|---------------------------------------|------------|-----------------|----------------|-------|--------------|-----------------|
| | | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom} 1 mm | Seismic C1 | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom} 2 mm | Seismic C1 | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom} 3 mm | Seismic C1 | | | | | |
| BSZ-SK 6x50 A4 | 59321501 | 15 | 6x40 | 35 | - | 10 | 6x45 | 40 | ✓ | - | - | - | - | 50 | 13 | T 30 | 100 | 1,30 |
| BSZ-SK 6x65 A4 | 59322501 | 30 | 6x40 | 35 | - | 25 | 6x45 | 40 | ✓ | 10 | 6x60 | 55 | ✓ | 65 | 13 | T 30 | 100 | 1,57 |
| BSZ-SK 6x85 A4 | 59323501 | 50 | 6x40 | 35 | - | 45 | 6x45 | 40 | ✓ | 30 | 6x60 | 55 | ✓ | 85 | 13 | T 30 | 100 | 2,05 |
| BSZ-SK 6x105 A4 | 59324501 | 70 | 6x40 | 35 | - | 65 | 6x45 | 40 | ✓ | 50 | 6x60 | 55 | ✓ | 105 | 13 | T 30 | 100 | 2,35 |
| BSZ-SK 8x80 A4 | 59332501 | 35 | 8x55 | 45 | - | 25 | 8x65 | 55 | - | 15 | 8x75 | 65 | ✓ | 80 | 19,5 | T 40 | 50 | 1,95 |
| BSZ-SK 10x90 A4 | 59342501 | 35 | 10x65 | 55 | ✓ | 15 | 10x85 | 75 | - | 5 | 10x95 | 85 | ✓ | 90 | 21,5 | T 50 | 50 | 3,10 |
| BSZ-SK 10x120 A4 | 59344001 | 65 | 10x65 | 55 | ✓ | 45 | 10x85 | 75 | - | 35 | 10x95 | 85 | ✓ | 120 | 21,5 | T 50 | 50 | 4,17 |

¹⁾For embedment depth h_{nom} 1 = 35 mm: Only for redundant non-structural systems in concrete and precast pre-stressed hollow core slabs.

Concrete screw BSZ-LK A4



- Pan head with Torx drive
- Stainless Steel A4
- For a flat fixing which has a high-quality look

| Description | Ref. No. | Embedment depth 1 ¹⁾ | | | | Embedment depth 2 | | | | Embedment depth 3 | | | | Anchor length L | Pressed disk Ø | Drive | Pkg. content | Weight per pkg. |
|-----------------|----------|---------------------------------------|-------------------------|---------------------------------------|------------|---------------------------------------|-------------------------|---------------------------------------|------------|---------------------------------------|-------------------------|---------------------------------------|------------|-----------------|----------------|-------|--------------|-----------------|
| | | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom} 1 mm | Seismic C1 | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom} 2 mm | Seismic C1 | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom} 3 mm | Seismic C1 | | | | | |
| BSZ-LK 6x50 A4 | 59421501 | 15 | 6x40 | 35 | - | 10 | 6x45 | 40 | ✓ | - | - | - | - | 50 | 15 | T 30 | 100 | 1,45 |
| BSZ-LK 6x60 A4 | 59422001 | 25 | 6x40 | 35 | - | 20 | 6x45 | 40 | ✓ | 5 | 6x60 | 55 | ✓ | 60 | 15 | T 30 | 100 | 1,67 |
| BSZ-LK 6x80 A4 | 59423001 | 45 | 6x40 | 35 | - | 40 | 6x45 | 40 | ✓ | 25 | 6x60 | 55 | ✓ | 80 | 15 | T 30 | 100 | 2,08 |
| BSZ-LK 6x100 A4 | 59424001 | 65 | 6x40 | 35 | - | 60 | 6x45 | 40 | ✓ | 45 | 6x60 | 55 | ✓ | 100 | 15 | T 30 | 100 | 2,57 |

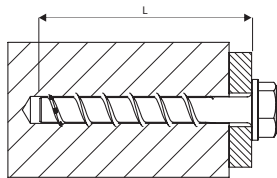
¹⁾For embedment depth h_{nom} 1 = 35 mm: Only for redundant non-structural systems in concrete and precast pre-stressed hollow core slabs.

Concrete screw BSZ-B A4

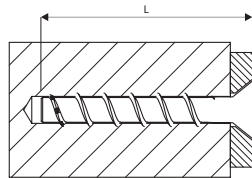


- ➔ With metric connection thread and hex drive
- ➔ Stainless Steel A4
- ➔ For pre-setting and through-setting installation and for distance mounting

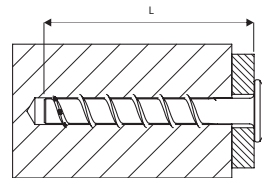
| Description | Ref. No. | Embedment depth 1 ¹⁾ | | | | Embedment depth 2 | | | | Embedment depth 3 | | | | Anchor length L | Pressed disk Ø | Drive | Pkg. content | Weight per pkg. |
|-----------------|----------|---------------------------------------|-------------------------|---------------------------------------|------------|---------------------------------------|-------------------------|---------------------------------------|------------|---------------------------------------|-------------------------|---------------------------------------|------------|-----------------|----------------|-------|--------------|-----------------|
| | | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom.1} mm | Seismic C1 | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom.2} mm | Seismic C1 | Fixture thickness t _{fix} mm | Drill hole Ø x depth mm | Embedment depth h _{nom.3} mm | Seismic C1 | | | | | |
| BSZ-B 8x105 A4 | 59834001 | 39 | 8x55 | 45 | - | 29 | 8x65 | 55 | - | 19 | 8x75 | 65 | ✓ | 105 | M10x30 | SW 7 | 50 | 2,30 |
| BSZ-B 10x140 A4 | 59845001 | 59 | 10x65 | 55 | ✓ | 39 | 10x85 | 75 | - | 29 | 10x95 | 85 | ✓ | 140 | M12x35 | SW 9 | 50 | 4,58 |
| BSZ-B 10x160 A4 | 59846001 | 79 | 10x65 | 55 | ✓ | 59 | 10x85 | 75 | - | 49 | 10x95 | 85 | ✓ | 160 | M12x55 | SW 9 | 50 | 5,30 |



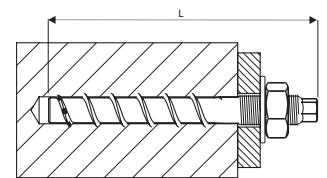
BSZ-SU A4



BSZ-SK A4



BSZ-LK A4



BSZ-B A4

Recommended impact screwdriver

Description of concrete screw recommended impact screwdriver

BSZ 6

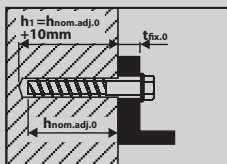
- Milwaukee C 12 IW (Square drive, Battery operation, max. torque 136 Nm)
- Milwaukee C 12ID (Multi-toothed drive, Battery operation, max. torque 96 Nm)
- DeWalt DEDC 840 KB (Square drive, Battery operation, max. torque 160 Nm)
- Würth ASS 14 (1/4 inch drive, Battery operation, max. torque 150 Nm)

**BSZ 8
BSZ 10**

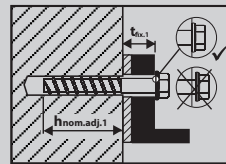
- Milwaukee C 18 IW (Square drive, Battery operation, max. torque 250 Nm)
- Bosch GDS 18E (Square drive, Mains operation, max. torque 250 Nm)
- Makita 6905H (Square drive, Mains operation, max. torque 300 Nm)
- Würth ASS 18 (1/2 inch drive, Battery operation, max. torque 180 Nm)
- Würth ESS (1/2 inch drive, Mains operation, max. torque 250 Nm)

Mechanical Heavy Duty Anchors

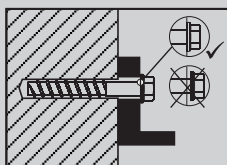
Notes for subsequent adjustment



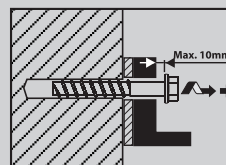
1. In order to be able to carry out subsequent adjustment, the concrete screw must be screwed at least 10 mm deeper than the nominal embedment depth. This must be taken into account at the point when you are selecting the length of the concrete screw.



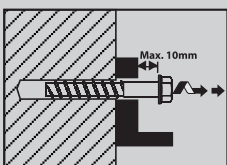
4. After fitting the lining, then re-mount the fixture in accordance with the installation instructions.



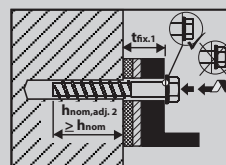
2. After successful installation, if relining is necessary for compensation, this is possible with the concrete screw BSZ (Ø 8 – 14 mm).



5. If the first lining is not sufficient then it is possible to repeat the adjustment. To do this, once again, the concrete screw must be turned back by a maximum of 10 mm so that another lining can be fitted.



3. To do this, when the adjustment is carried out for the first time, the concrete screw must be turned back by a maximum of 10 mm.



6. After the second lining, then re-mount the fixture in accordance with the installation instructions..

- The anchor can only be adjusted twice. When doing this the anchor can only be screwed back to a maximum of 10 mm.
- In total the lining which is a result of the adjustment must be a maximum of 10 mm.
- The required seating depth h_{nom} must be maintained after adjustment ($h_{nom} = L - t_{fix}$).

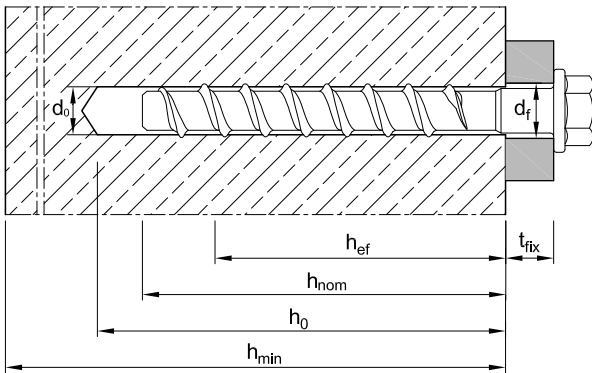


Extract from Permissible Service Conditions of European Technical Assessment ETA-16/0204 for use in cracked and uncracked concrete (Option 1)

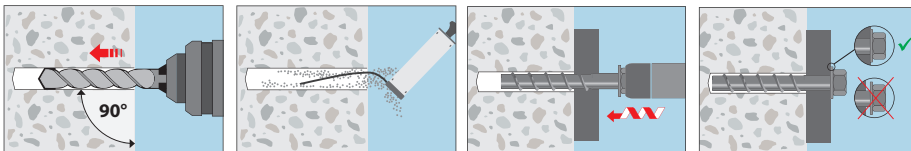
Approved loads according to EN 1992-4 for single anchors without the influence of spacing and edge distances. The total safety factor (γ_M und γ_r) is included. Load capacities under fire exposure see page 192.

| Loads and performance data | | Concrete screw size | | BSZ 6 A4 | | | BSZ 8 A4 | | | BSZ 10 A4 | |
|--|-----------------|---------------------|------|----------|---------|---------|----------|---------|---------|-----------|-----------|
| Nominal embedment depth 1 | $h_{nom 1}$ | [mm] | - | - | 45 | - | - | 55 | - | - | |
| Nominal embedment depth 2 | $h_{nom 2}$ | [mm] | 40 | - | - | 55 | - | - | 75 | - | |
| Nominal embedment depth 3 | $h_{nom 3}$ | [mm] | - | 55 | - | - | 65 | - | - | 85 | |
| cracked concrete | | | | | | | | | | | |
| Approved loads, tension | C20/25 | appr. N | [kN] | 1,0 | 1,9 | 2,4 | 4,3 | 5,7 | 4,3 | 7,6 | 9,2 |
| | C25/30 | appr. N | [kN] | 1,1 | 2,1 | 2,7 | 4,8 | 6,4 | 4,8 | 8,5 | 10,3 |
| | C30/37 | appr. N | [kN] | 1,2 | 2,3 | 2,9 | 5,2 | 7,0 | 5,2 | 9,3 | 11,3 |
| | C40/50 | appr. N | [kN] | 1,3 | 2,7 | 3,4 | 6,1 | 8,1 | 6,1 | 10,8 | 13,0 |
| | C50/60 | appr. N | [kN] | 1,5 | 3,0 | 3,8 | 6,8 | 9,0 | 6,8 | 12,0 | 14,5 |
| uncracked concrete | | | | | | | | | | | |
| Approved loads, tension | C20/25 | appr. N | [kN] | 1,9 | 4,3 | 3,6 | 5,7 | 7,6 | 5,7 | 9,5 | 12,4 |
| | C25/30 | appr. N | [kN] | 2,1 | 4,8 | 4,0 | 6,4 | 8,5 | 6,4 | 10,6 | 13,8 |
| | C30/37 | appr. N | [kN] | 2,3 | 5,2 | 4,4 | 7,0 | 9,3 | 7,0 | 11,7 | 15,2 |
| | C40/50 | appr. N | [kN] | 2,7 | 6,1 | 5,1 | 8,1 | 10,8 | 8,1 | 13,5 | 17,5 |
| | C50/60 | appr. N | [kN] | 3,0 | 6,7 | 5,6 | 9,0 | 12,0 | 9,0 | 15,1 | 19,6 |
| cracked / uncracked concrete | | | | | | | | | | | |
| Approved loads, shear | C20/25 | appr. V | [kN] | 2,8/4,0 | 4,0/4,0 | 3,4/4,9 | 4,6/6,6 | 6,1/8,8 | 4,6/6,6 | 15,2/19,4 | 18,4/19,4 |
| | \geq C25/30 | appr. V | [kN] | 3,2/4,0 | 4,0/4,0 | 3,8/5,4 | 5,2/7,4 | 6,9/9,7 | 5,2/7,4 | 17,0/19,4 | 19,4/19,4 |
| Approved bending moments | | appr. M | [Nm] | 6,2 | 6,2 | 14,9 | 14,9 | 14,9 | 32 | 32 | 32 |
| Spacing and edge distance | | | | | | | | | | | |
| Effective anchorage depth | h_{ef} | [mm] | 31 | 44 | 35 | 43 | 52 | 43 | 60 | 68 | |
| Characteristic spacing | $s_{cr, N}$ | [mm] | 93 | 132 | 105 | 129 | 156 | 129 | 180 | 204 | |
| Characteristic edge distance | $c_{cr, N}$ | [mm] | 46,5 | 66 | 52,5 | 64,5 | 78 | 64,5 | 90 | 102 | |
| Installation parameters | | | | | | | | | | | |
| Drill hole diameter | d_o | [mm] | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 10 | |
| Diameter of clearance hole in the fixture | $d_{r \leq}$ | [mm] | 8 | 8 | 12 | 12 | 12 | 14 | 14 | 14 | |
| Depth of drill hole | $h_{o \geq}$ | [mm] | 45 | 60 | 55 | 65 | 75 | 65 | 85 | 95 | |
| Installation torque for metric connection thread | $T_{inst \leq}$ | [Nm] | 10 | 10 | 20 | 20 | 20 | 40 | 40 | 40 | |
| Tangential impact screwdriver ¹⁾ | $T_{imp, max}$ | [Nm] | 160 | 160 | 300 | 300 | 300 | 400 | 400 | 400 | |

¹⁾It is possible to fit with a tangential screwdriver with maximum output of $T_{imp, max}$ in accordance with the manufacturer's specifications



Installation





Extract from Permissible Service Conditions of European Technical Assessment ETA-16/0439 for use in concrete for redundant non-structural systems

Approved loads according to EN 1992-4 for single anchors without the influence of spacing and edge distances. The total safety factor (γ_M und γ_F) is included. The admissible loads per fixing point can be taken from the relevant national regulations of the EOTA member states and may be lower than the approved load of the anchor.

| Loads and performance data | Concrete screw size | | BSZ 6 A4 | |
|--|---------------------|---------|----------|-----------------|
| Nominal embedment depth 1 | $h_{nom 1}$ | [mm] | 35 | - |
| Nominal embedment depth 2 | $h_{nom 2}$ | [mm] | - | - |
| Nominal embedment depth 3 | $h_{nom 3}$ | [mm] | - | 55 |
| cracked concrete | | | | |
| Approved loads, tension | C20/25 | appr. N | [kN] | 1,4 3,6 |
| | C25/30 | appr. N | [kN] | 1,6 4,0 |
| | C30/37 | appr. N | [kN] | 1,7 4,4 |
| | C40/50 | appr. N | [kN] | 2,0 5,1 |
| | C50/60 | appr. N | [kN] | 2,3 5,6 |
| uncracked concrete | | | | |
| Approved loads, tension | C20/25 | appr. N | [kN] | 1,4 3,6 |
| | C25/30 | appr. N | [kN] | 1,6 4,0 |
| | C30/37 | appr. N | [kN] | 1,7 4,4 |
| | C40/50 | appr. N | [kN] | 2,0 5,1 |
| | C50/60 | appr. N | [kN] | 2,3 5,6 |
| cracked / uncracked concrete | | | | |
| Approved loads, shear | C20/25 | appr. V | [kN] | 2,3/3,3 4,0/4,0 |
| | \geq C25/30 | appr. V | [kN] | 2,6/3,7 4,0/4,0 |
| Approved bending moments | | appr. M | [Nm] | 6,2 6,2 |
| | | | | |
| Spacing and edge distance | | | | |
| Effective anchorage depth | h_{ef} | [mm] | 27 | 44 |
| Characteristic spacing | $s_{cr, N}$ | [mm] | 81 | 132 |
| Characteristic edge distance | $c_{cr, N}$ | [mm] | 40,5 | 66 |
| Minimum thickness of concrete slab | h_{min} | [mm] | 80 | 100 |
| Minimum spacing | s_{min} | [mm] | 35 | 40 |
| Minimum edge distance | c_{min} | [mm] | 35 | 40 |
| Installation parameters | | | | |
| Drill hole diameter | d_o | [mm] | 6 | 6 |
| Diameter of clearance hole in the fixture | d_f | [mm] | 8 | 8 |
| Depth of drill hole | $h_o \geq$ | [mm] | 40 | 60 |
| Installation torque for metric connection thread | $T_{inst} \leq$ | [Nm] | 10 | 10 |
| Tangential impact screwdriver ¹⁾ | $T_{imp, max}$ | [Nm] | 160 | 160 |

¹⁾It is possible to fit with a tangential screwdriver with maximum output of $T_{imp, max}$ in accordance with the manufacturer's specifications

Approved loads with exposure to fire

in cracked and uncracked concrete C20/25 to C50/60

| | | | | | |
|------------------------------|--------------|----------------|------|------|-----|
| Approved loads, tension | R30 | appr. N_{fi} | [kN] | 0,65 | 1,2 |
| | R60 | appr. N_{fi} | [kN] | 0,65 | 1,2 |
| | R90 | appr. N_{fi} | [kN] | 0,65 | 1,2 |
| | R120 | appr. N_{fi} | [kN] | 0,52 | 0,8 |
| Approved loads, shear | R30 | appr. V_{fi} | [kN] | 0,65 | 1,2 |
| | R60 | appr. V_{fi} | [kN] | 0,65 | 1,2 |
| | R90 | appr. V_{fi} | [kN] | 0,65 | 1,2 |
| | R120 | appr. V_{fi} | [kN] | 0,52 | 0,8 |
| Characteristic spacing | $s_{cr, fi}$ | [mm] | 108 | 176 | |
| Characteristic edge distance | $c_{cr, fi}$ | [mm] | 54 | 88 | |

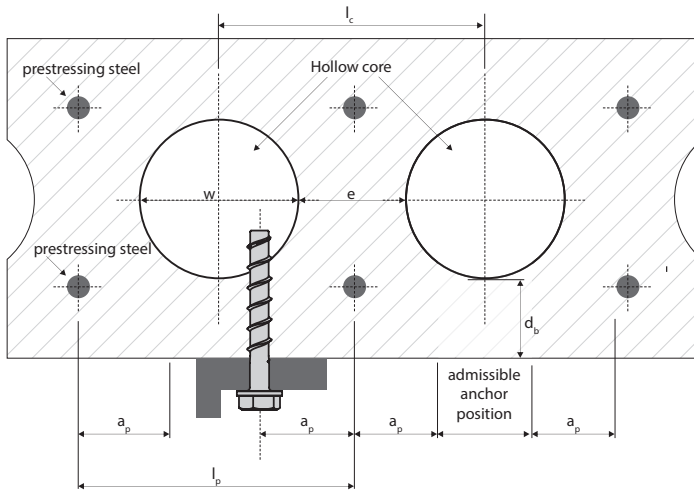


Extract from Permissible Service Conditions of European Technical Assessment ETA-16/0439 for use in precast pre-stressed hollow core slabs for redundant non-structural systems

Approved loads according to EN 1992-4 for single anchors without the influence of spacing and edge distances. The total safety factor (γ_M und γ_F) is included. The admissible loads per fixing point can be taken from the relevant national regulations of the EOTA member states and may be lower than the approved load of the anchor.

| Loads and performance data | Concrete screw size | BSZ 6 A4 | | |
|---|----------------------|-----------|------|------|
| Nominal embedment depth | h_{nom} [mm] | ≥ 35 | | |
| Precast pre-stressed hollow core slabs C30/37 to C50/60 | | | | |
| Flange thickness | $d_b \geq$ [mm] | 25 | 30 | 35 |
| | $F_{appr.}$ [kN] | 0,48 | 0,95 | 1,43 |
| Spacing and edge distance | | | | |
| Minimum spacing | s_{min} [mm] | 100 | | |
| Minimum edge distance | c_{min} [mm] | 100 | | |
| Installation parameters | | | | |
| Drill hole diameter | d_o [mm] | 6 | | |
| Diameter of clearance hole in the fixture | d_f [mm] | 8 | | |
| Depth of drill hole | $h_{1 \geq}$ [mm] | 40 | | |
| Installation torque | $T_{inst \leq}$ [Nm] | 10 | | |

Installation in precast pre-stressed hollow core slabs

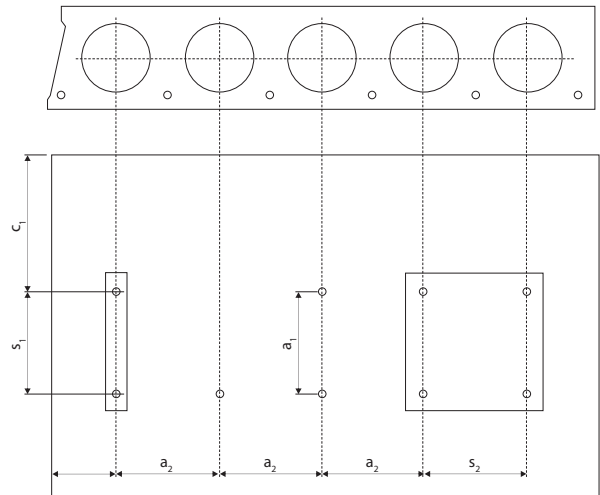


$w / e \leq 4,2$

- w Core width
- e Web thickness

- Core distance $l_c \geq 100$ mm
- Distance between prestressing steel $l_p \geq 100$ mm
- Distance between anchor position and pre-stressing steel $a_p \geq 50$ mm

Installation parameters for anchors in precast pre-stressed hollow core slabs



- c_1, c_2 Edge distance
- s_1, s_2 Anchor spacing
- a_1, a_2 Distance between the anchor groups

- Minimum edge distance $c_{min} \geq 100$ mm
- Minimum spacing $s_{min} \geq 100$ mm
- Minimum distance between the anchor groups $a_{min} \geq 100$ mm

Installation

