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# European Technical Assessment

# ETA-17/1009
## of 08. 01. 2026

*English version prepared by ZAG*

## General Part

| | |
|---|---|
| **Technical Assessment Body issuing the European Technical Assessment** | **ZAG** |
| **Trade name of the construction product** | **S-CSA+ / JC2 Plus**<br>**S-CSA A4 / JC6** |
| **Product family to which the construction product belongs** | **33: Concrete screw of size 6 for multiple use for non-structural application in concrete and in pre-stressed hollow core slabs** |
| **Manufacturer** | **EJOT SORMAT OY**<br>**Vähäkorventie 10**<br>**21250 MASKU**<br>**Finland**<br>www.ejot.fi |
| **Manufacturing plant** | **EJOT Production Plants** |
| **This European Technical Assessment contains** | 16 pages including 3 annexes, which form an integral part of the document |
| **This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) 2024/3110, on the basis of** | EAD 330747-00-0601, edition May 2018 |
| **This version replaces** | ETA-17/1009 issued on 16.02.2023 |

**Specific parts**

## 1 Technical description of the product

S-CSA+ / JC2 Plus is an anchor in size 6 made of carbon steel (galvanised or Multi Layer coated) and S-CSA A4 / JC6 is stainless steel with carbon steel tip and other part made of stainless steel. The anchor is screwed into a predrilled cylindrical hole. The special thread of the anchor cuts an internal thread into the member while setting. The anchorage is characterised by mechanical interlock in the special thread.

For the installed anchor see Figure given in Annex A (1/2).

## 2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The performances given in Chapter 3 are only valid if the anchor is used in compliance with the specifications and conditions given in Annex B.

The provisions made in this European Technical Assessment are based on an assumed working life of the anchor of 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

## 3 Performance of the product and references to the methods used for its assessment

### 3.1 Safety in case of fire (BWR 2)

The basic work requirements for safety in case of fire are listed in Annex C (4/5) and C (5/5).

### 3.2 Safety in use (BWR 4)

The basic work requirements for safety in use are listed in Annexes C (1/5) to C (3/5).

### 3.3 General aspects relating to fitness for use

Durability and serviceability are only ensured if specifications of intended use according to Annex B are kept.

## 4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

According to the decision 97/161/EC of the European Commission[1] the system of assessment and verification of constancy of performance (see Annex V to regulation (EU) No 305/2011) 2+ apply.

## 5 Technical details necessary for the implementation of the AVCP system, as provided for on the applicable EAD

### 5.1 Tasks for the manufacturer

Technical details necessary for the implementation of the AVCP system are laid down in Chapter 3 of EAD 330747-00-0601.

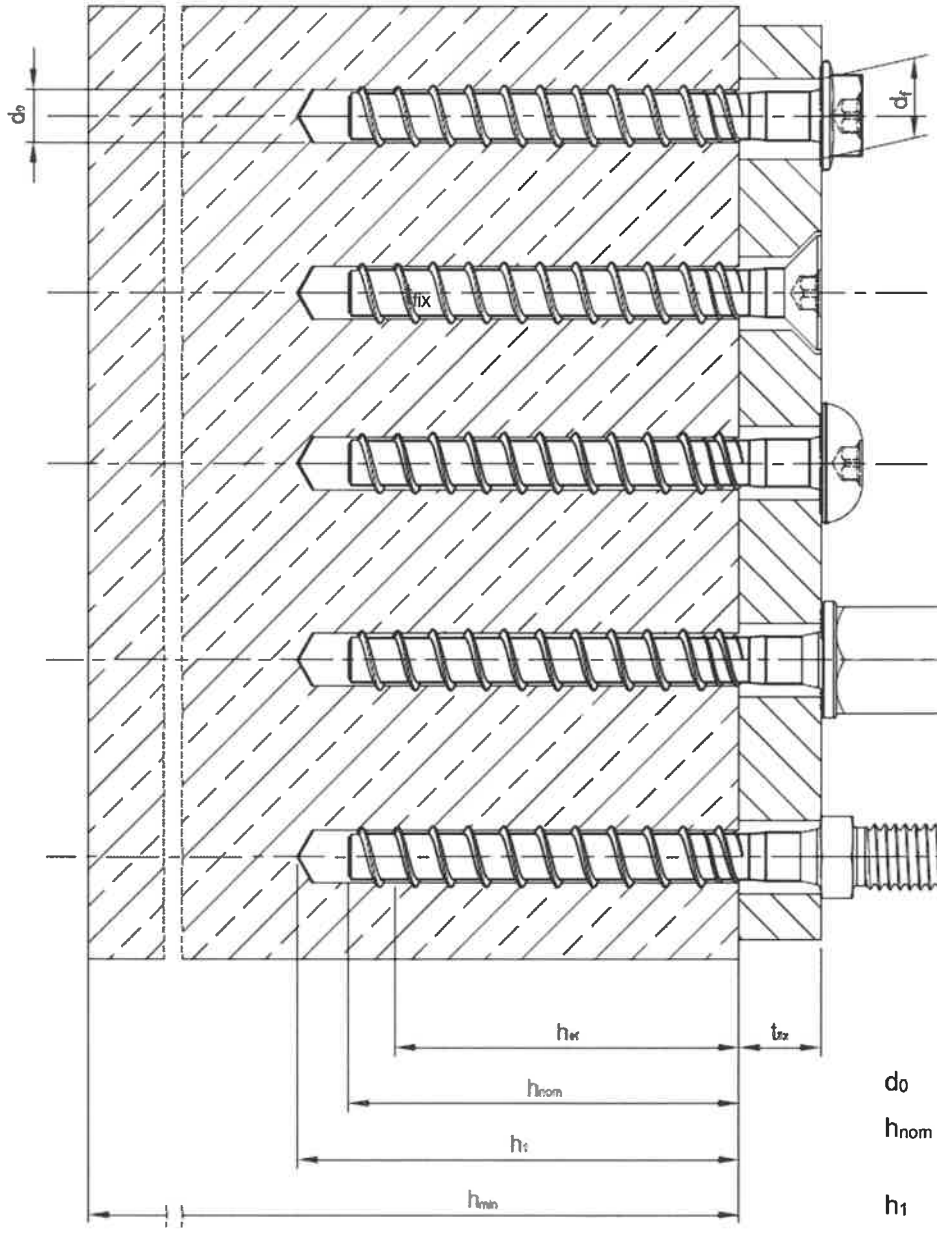
Issued in Ljubljana on 08. 01. 2026

Signed by:
Franc Capuder, M.Sc.

Head of Service of TAB

[1] Official Journal of the European Communities L 254 of 8.10.1996

## S-CSA+ / JC2 Plus / S-CSA A4 / JC6
## installed in concrete




**Type HEX / Type KB**

**Type CS / Type ST**

**Type P / Type FR**

**Type I / Type IT**

**Type E / Type ET**

$d_0$ = Drill hole diameter

$h_{nom}$ = Nominal embedment depth

$h_1$ = Drill hole depth

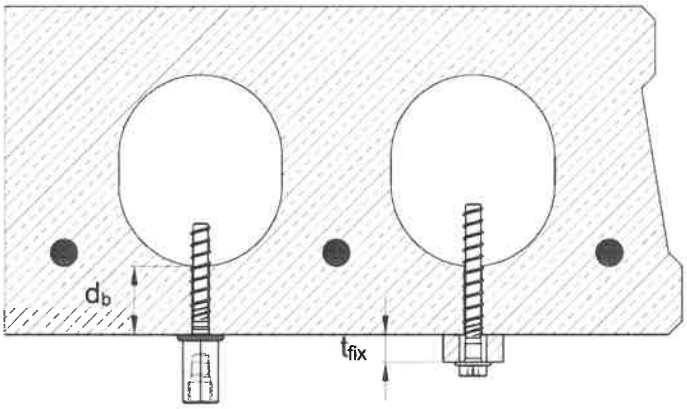
$h_{min}$ = Minimum concrete member thickness

$t_{fix}$ = Fixture thickness

$d_f$ = Clearance hole diameter in fixture

| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | Annex A (1/3) |
|---|---|
| **Product description**<br>Installation condition in concrete | |

**S-CSA+ / JC2 Plus**
**S-CSA A4 / JC6**
**installed in pre-stressed hollow core slab**




$t_{fix}$ = Fixture thickness

$d_b$ = flange thickness

| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | Annex A (2/3) |
|---|---|
| **Product description**<br>Installation condition in pre-stressed hollow core slabs | |

**Table A1:** Materials and Types

| Material | $f_{yk}$ [N/mm²] | $f_{uk}$ [N/mm²] |
|---|---|---|
| S-CSA+ / JC2 Plus: Cold forged carbon steel, zinc electroplated according to EN ISO 4042 or with Multi Layer Coating ≥ 5µm | 640 | 800 |
| S-CSA A4 / JC6:Tip, hardened steel; Shaft and head: Stainless steel (A4 grade) | 720 | 800 |

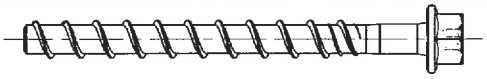
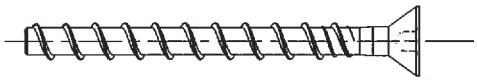
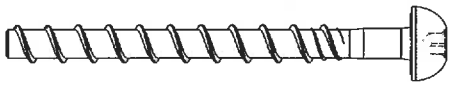
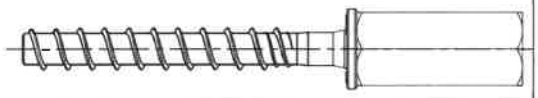
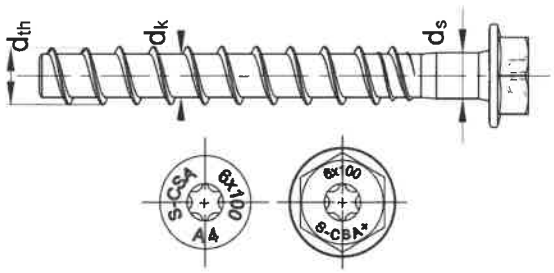
| Part | Designation | Description | Design |
|---|---|---|---|
| 1 | S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6<br>HEX / KB | Hexagonal head version with combined washer and optional T-drive |  |
| 2 | S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6<br>CS / ST | Countersunk head version with T-drive |  |
| 3 | S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6<br>P / FR | Pan head version with T-drive |  |
| 5 | S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6<br>I / IT | Internal thread version with hexagonal drive |  |
| | S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6<br>E / ET | External thread version with hexagonal drive |  |

**Table A2:** Anchor dimensions and head marking

| Anchor size | | | S-CSA+ 6 / JC2 Plus 6 | S-CSA A4 6 / JC6 6 |
|---|---|---|---|---|
| Nominal diameter | $d_{nom}$ | [mm] | 6 | |
| Thread outer diameter | $d_{th}$ | [mm] | 7,45 | |
| Core diameter | $d_k$ | [mm] | 5,55 | |
| Shaft diameter | $d_s$ | [mm] | 5,88 | 5,90 |
| Stressed section | $A_s$ | [mm²] | 24,19 | |

**Marking:**

| | |
|---|---|
| Identifying mark: | S or J |
| Anchor identity: | CSA+ / C2 Plus / CSA A4 / C6 |
| Nominal diameter: | $d_{nom}$ |
| Screw length: | L |
| **Example:** | **S-CSA+ 6x100 / JC6 6×100** |




**S-CSA+ / JC2 Plus**
**S-CSA A4 / JC6**

**Product description**

Materials, types and dimensions

**Annex A (3/3)**

## Specifications of intended use

### Anchorages subjected to:

- Static, quasi static load.
- Use only for multiple use for non-structural applications according to EAD 330747-00-0601
- Fire exposure.

### Base materials:

- Cracked and non-cracked concrete.
- Reinforced and unreinforced normal weight concrete of strength class C20/25 at minimum and C50/60 at maximum according to EN 206:2013+A2:2021.
- Precast pre-stressed hollow core slabs.

### Use conditions (Environmental conditions):

- The S-CSA+ / JC2 Plus may be used in structures subject to dry internal conditions.
- The S-CSA A4 / JC6 may be used in concrete subject to dry internal conditions and also in concrete subject to external atmospheric exposure (including industrial and marine environment), or exposure in permanently damp internal conditions, if no particular aggressive conditions exist.

  *Note: Particular aggressive conditions are e.g. permanent, alternating immersion in seawater or the splash zone of seawater, chloride atmosphere of indoor swimming pools or atmosphere with extreme chemical pollution (e.g. desulphurization plants or road tunnels where de-icing materials are used).*

### Design:

- Anchorages are designed under the responsibility of an engineer experienced in anchorages and concrete work.
- Anchorages under static and quasi-static actions are designed in accordance with EN 1992-4:2018.
- For application with resistance under fire exposure the anchorages are designed in accordance with EN 1992-4:2018.
- Verifiable calculation notes and drawings are prepared taking into account of the load to be anchored. The position of the anchor is indicated on the design drawings (e.g. position of the anchor relative to reinforcement or to supports, etc.).

### Installation:

- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters on the site.
- Use of the anchor only as supplied by the manufacturer without exchanging the components of an anchor.
- Anchor installation in accordance with the manufacturer's specifications and drawings using the appropriate tools.
- Checks before placing the anchor to ensure that the strength class of the concrete in which the anchor is to be placed is in the rang given and is not lower that of the concrete to which the characteristic loads apply for.
- Check of concrete being well compacted, e.g. without significant voids.
- Cleaning of the hole of drilling dust.
- Anchor installation ensuring the specified embedment depth.
- Keeping of the edge distance and spacing to the specified values without minus tolerances.
- Positioning of the drill holes without damaging the reinforcement.
- In case of aborted hole, drilling of new hole at a minimum distance of twice the depth of the aborted hole, or smaller distance provided the aborted drill hole is filled with high strength non-shrinkage mortar. No shear or oblique tension loads are allowed in the direction of a not filled aborted hole.
- Application of the torque moment given in Annex B (2/5) using a calibrated torque wrench.

| | |
|---|---|
| **S-CSA+ / JC2 Plus**<br>**S-CSA A4 / JC6** | **Annex B (1/5)** |
| **Intended use**<br>Specifications | |

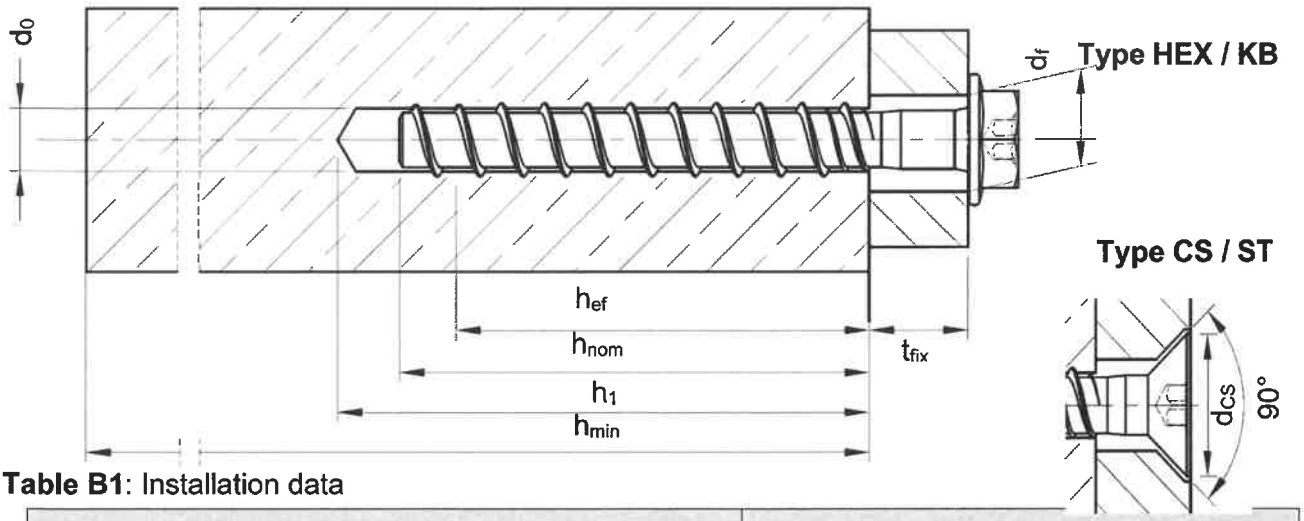



**Table B1**: Installation data

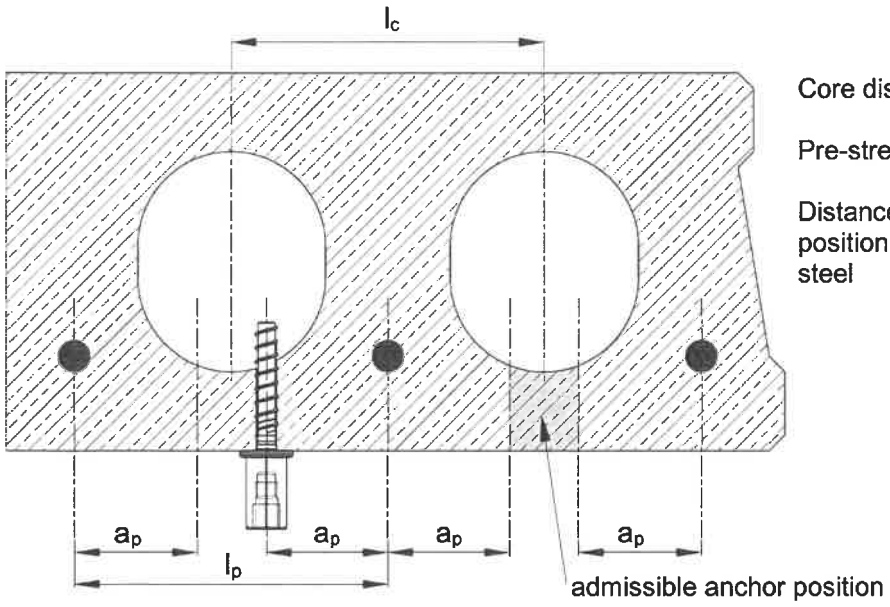
| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | | | Anchor size | |
|---|---|---|---|---|
| | | | S-CSA+ /<br>JC2 Plus 6-1 | S-CSA+/ JC2 Plus 6-2<br>S-CSA A4/JC6 6-2 |
| Nominal embedment depth | $h_{nom}$ | [mm] | 35 | 40 |
| Drill hole diameter | $d_0$ | [mm] | 6 | 6 |
| Cutting diameter at the upper tolerance limit (maximum diameter bit) | $d_{cut,max} \leq$ | [mm] | 6,40 | 6,40 |
| Depth of drilled hole to deepest point | $h_1 \geq$ | [mm] | 45 | 50 |
| Effective anchorage depth | $h_{ef}$ | [mm] | 27,6 | 31,9 |
| Diameter of clearance hole in the fixture | $d_f$ | [mm] | 7,7 – 9,0 | 7,7 – 9,0 |
| Countersunk head diameter | $d_{CS}$ | [mm] | 14 | 14 |
| Maximum installation torque | $T_{inst}$ | [Nm] | 14 | 14 |
| Max installation torque for impact screw driver | $T_{SD}$ | [Nm] | 90 | 90 |

**Table B2**: Minimum thickness of concrete member, spacing and edge distance

| | | | Anchor size | |
|---|---|---|---|---|
| | | | S-CSA+ /<br>JC2 Plus 6-1 | S-CSA+/ JC2 Plus 6-2<br>S-CSA A4 / JC6 6-2 |
| Minimum thickness of concrete member | $h_{min}$ | [mm] | 80 | 80 |
| Minimum spacing | $s_{min}$ | [mm] | 35 | 35 |
| Minimum edge distance | $c_{min}$ | [mm] | 30 | 35 |

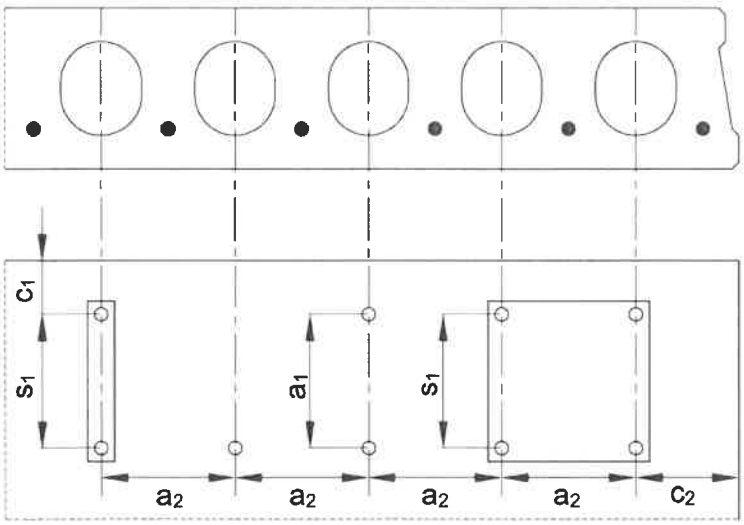
| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | Annex B (2/5) |
|---|---|
| **Intended use**<br>Installation data | |

## Admissible anchor position in pre-stressed hollow core slabs




| | | |
|---|---|---|
| Core distance | $l_c$ | ≥ 100 mm |
| Pre-stressing steel distance | $l_p$ | ≥ 100 mm |
| Distance between anchor position and prestressing steel | $a_p$ | ≥ 50 mm |

## Minimum spacing and edge distance of anchors and distance between anchor groups in pre-stressed hollow core slabs

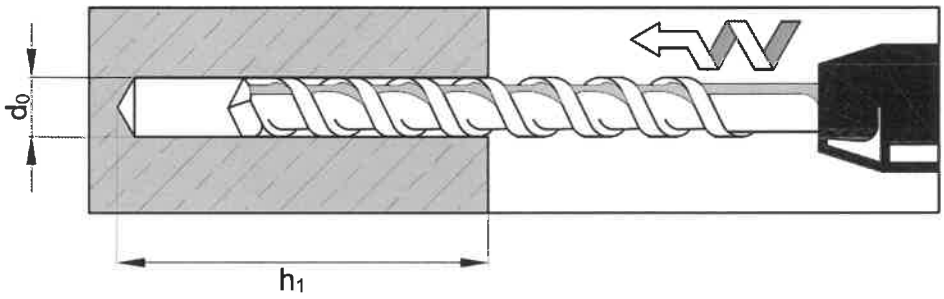



| | | |
|---|---|---|
| Minimum edge distance | $c_{min}$ | ≥ 100 mm |
| Minimum anchor spacing | $s_{min}$ | ≥ 100 mm |
| Minimum distance between anchor groups | $a_{min}$ | ≥ 100 mm |

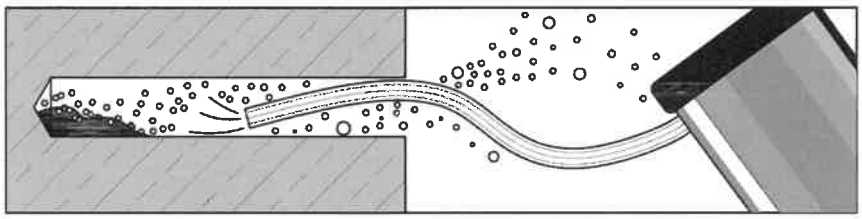
$c_1$, $c_2$ edge distance
$s_1$, $s_2$ anchor spacing
$a_1$, $a_2$ distance between anchor groups

| | |
|---|---|
| **S-CSA+ / JC2 Plus**<br>**S-CSA A4 / JC6** | **Annex B (3/5)** |
| **Intended use**<br>Installation data for pre-stressed hollow core slabs | |

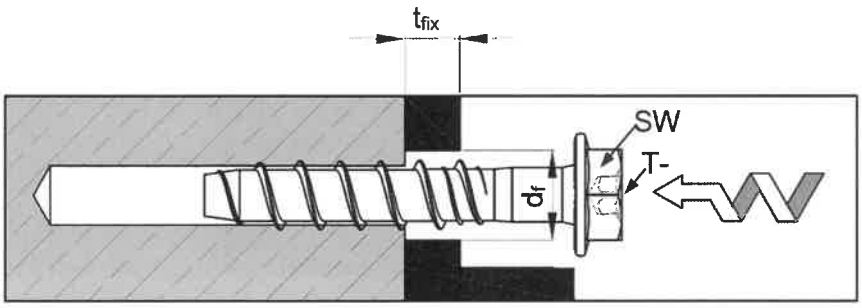
## Installation instructions



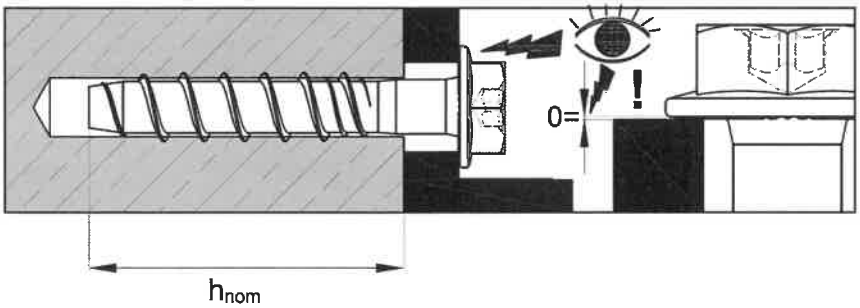

Make a cylindrical hole



Clean the hole



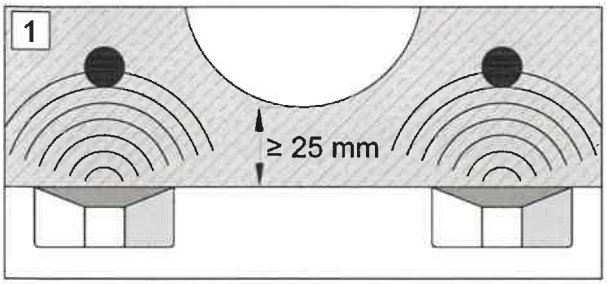

Install the screw anchor by impact screwdriver or torque wrench



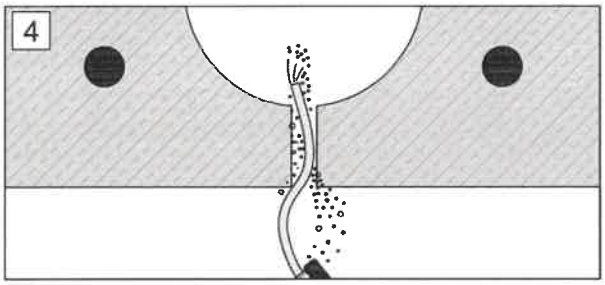

Ensure that the screw anchor head fully rests without any gap on the fixture and is not damaged

| | |
|---|---|
| **S-CSA+ / JC2 Plus**<br>**S-CSA A4 / JC6** | **Annex B (4/5)** |
| **Intended use**<br>Installation instructions in concrete | |

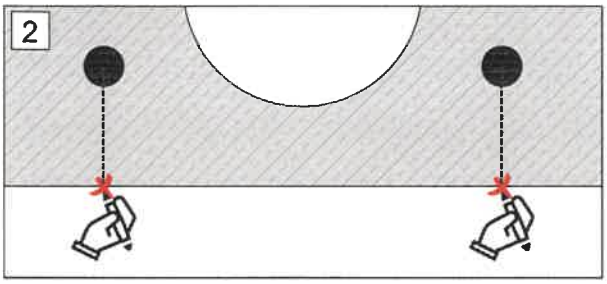
## Installation instructions in pre-stressed hollow core slabs



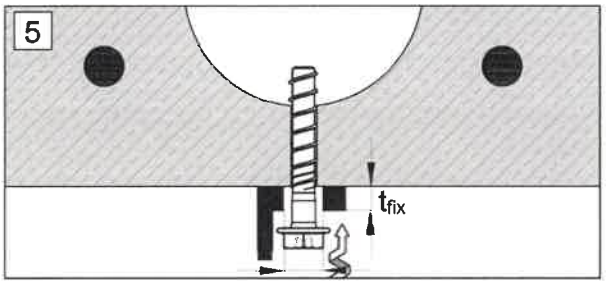

Locate rebars by means of suitable detector



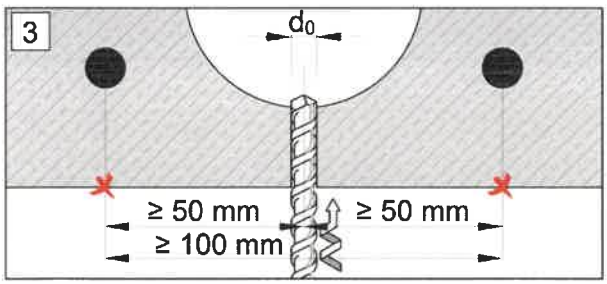

Clean the hole



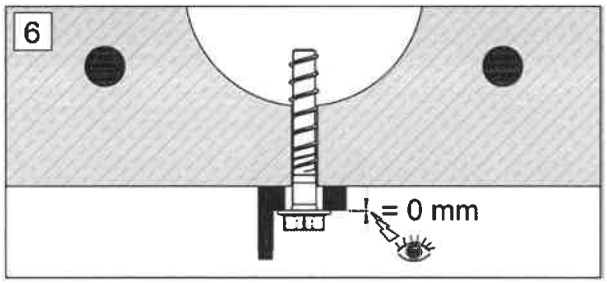

Mark rebar location




Install the screw anchor by impact screwdriver or torque wrench




Make a cylindrical hole




Ensure that the screw anchor head fully rests without any gap on the fixture and is not damaged

| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | Annex B (5/5) |
|---|---|
| **Intended use**<br>Installation instructions in pre-stressed hollow core slabs | |

**Table C1:** Characteristic resistances under tension loads in case of static and quasi-static loading for design according to EN 1992-4:2018

| **S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6** | | | **Anchor size** | | |
|---|---|---|---|---|---|
| | | | **S-CSA+ / JC2 Plus 6-1** | **S-CSA+ / JC2 Plus 6-2** | **S-CSA A4 / JC6 6-2** |
| **Steel failure** | | | | | |
| Characteristic resistance | $N_{Rk,s}$ | [kN] | 19,4 | 19,4 | 19,4 |
| Partial safety factor | $\gamma_{Ms}$ 1) | [ - ] | 1,5 | 1,5 | 1,4 |
| **Pull-out failure** | | | | | |
| Characteristic resistance in **cracked** and **non-cracked** concrete C20/25 | $N_{Rk,p}$ | [kN] | 4,0 | 4,0 | 6,0 |
| Increasing factor for $N_{Rk,p}$ | $\Psi_C$ | C25/30 | 1,04 | 1,07 | 1,12 |
| | | C30/37 | 1,07 | 1,14 | 1,22 |
| | | C35/45 | 1,10 | 1,20 | 1,32 |
| | | C40/50 | 1,13 | 1,26 | 1,41 |
| | | C45/55 | 1,15 | 1,31 | 1,50 |
| | | C50/60 | 1,18 | 1,36 | 1,58 |
| Partial safety factor | $\gamma_2$ | [ - ] | 1,0 | 1,0 | 1,0 |
| | $\gamma_{Mp}$ 1) | [ - ] | 1,5 2) | 1,5 2) | 1,5 2) |
| **Concrete cone and splitting failure** | | | | | |
| Effective anchorage depth | $h_{ef}$ | [mm] | 27,6 | 31,9 | 31,9 |
| Factor for cracked concrete | $k_{cr}$ | [ - ] | 7,7 | | |
| Factor for non-cracked concrete | $k_{ucr}$ | [ - ] | 11,0 | | |
| Spacing | $s_{cr,N}$ | [mm] | 83 | 96 | 96 |
| Edge distance | $c_{cr,N}$ | [mm] | 41,5 | 48 | 48 |
| Spacing (splitting) | $s_{cr,sp}$ | [mm] | 110 | 96 | 120 |
| Edge distance (splitting) | $c_{cr,sp}$ | [mm] | 55 | 48 | 60 |
| Partial safety factor | $\gamma_{Msp}$ 1) | [ - ] | 1,5 2) | 1,5 2) | 1,5 2) |

1) In absence of other national regulations

2) The installation safety factor of $\gamma_2$ = 1,0 is included

| **S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6** | **Annex C (1/5)** |
|---|---|
| **Performance**<br>Characteristic resistance under tension loads | |

**Table C2:** Characteristic resistances under shear loads in case of static and quasi-static loading for design according to EN 1992-4:2018

| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | | | Anchor size | | |
|---|---|---|---|---|---|
| | | | S-CSA+ / JC2 Plus 6-1 | S-CSA+ / JC2 Plus 6-2 | S-CSA A4 / JC6 6-2 |
| **Steel failure without lever arm** | | | | | |
| Characteristic resistance | $V_{Rk,s}$ | [kN] | 9,4 | 9,4 | 13,4 |
| Partial safety factor | $\gamma_{Ms}$ [1)] | [ - ] | 1,25 | 1,25 | 1,5 |
| Factor for considering ductility | $K_7$ | [ - ] | 0,8 | | |
| **Steel failure with lever arm** | | | | | |
| Characteristic resistance | $M^0_{Rk,s}$ | [Nm] | 16 | | |
| Partial safety factor | $\gamma_{Ms}$ [1)] | [ - ] | 1,25 | 1,25 | 1,5 |
| **Concrete pryout failure** | | | | | |
| k-factor | $k_8$ | [ - ] | 2,6 | 2,6 | 2,0 |
| Partial safety factor | $\gamma_{Mc}$ [1)] | [ - ] | 1,5 | 1,5 | 1,5 |
| **Concrete edge failure** | | | | | |
| Effective length of anchor under shear load | $l_f$ | [mm] | 27,6 | 31,9 | 31,9 |
| Outside diameter of anchor | $d_{nom}$ | [mm] | 6 | | |
| Partial safety factor | $\gamma_{Mc}$ [1)] | [ - ] | 1,5 | | |

[1)] In absence of other national regulations

| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | Annex C (2/5) |
|---|---|
| **Performance**<br>Characteristic resistance under shear loads | |

**Table C3:** Characteristic resistances for pre-stressed hollow core slabs C30/37 to C50/60

| **S-CSA+ / JC2 Plus S-CSA A4 / JC6** | | | **Anchor size** | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | **S-CSA+ / JC2 Plus 6-1 S-CSA+ / JC2 Plus 6-2** | | | **S-CSA A4 / JC6 6-2** | | |
| Installation safety factor | $\gamma_2 = \gamma_{inst}$ | [ - ] | 1,0 | | | | | |
| **Flange thickness** | $d_b$ | [mm] | ≥ 25 | ≥ 30 | ≥ 40 | ≥ 25 | ≥ 30 | ≥ 40 |
| Characteristic resistance for all directions | $F_{Rk}$ | [kN] | 2,5 | 3,5 | 5,0 | 2,0 | 3,0 | 5,5 |
| Characteristic bending moment | $M^0_{Rk,s}$ | [Nm] | 16 | | | | | |
| Edge distance | $c_{cr} = c_{min}$ | [mm] | 100 | | | | | |
| Spacing | $s_{cr} = s_{min}$ | [mm] | 100 | | | | | |

| **S-CSA+ / JC2 Plus S-CSA A4 / JC6** | **Annex C (3/5)** |
|---|---|
| **Performance**<br>Characteristic resistances for precast pre-stressed hollow core slabs | |

**Table C4:** Characteristic resistances under tension loads in case of fire exposure for design according to EN 1992-4:2018

| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | | | Anchor size | | |
|---|---|---|---|---|---|
| | | | S-CSA+ / JC2 Plus 6-1 | S-CSA+ / JC2 Plus 6-2 | S-CSA A4 / JC6 6-2 |
| **Steel failure** | | | | | |
| Characteristic resistance $N_{Rk,s,fi}$ | R30 | [kN] | 0,24 | | |
| | R60 | [kN] | 0,22 | | |
| | R90 | [kN] | 0,17 | | |
| | R120 | [kN] | 0,12 | | |
| **Pull-out failure** | | | | | |
| Characteristic resistance $N_{Rk,p,fi}$ | R30 | [kN] | 0,75 | 0,88 | 1,5 |
| | R60 | [kN] | 0,75 | 0,88 | 1,5 |
| | R90 | [kN] | 0,75 | 0,88 | 1,5 |
| | R120 | [kN] | 0,60 | 0,70 | 1,2 |
| **Concrete cone and splitting failure[1)]** | | | | | |
| Characteristic resistance $N^0_{Rk,c,fi}$ | R30 | [Nm] | 0,69 | 0,99 | 0,99 |
| | R60 | [Nm] | 0,69 | 0,99 | 0,99 |
| | R90 | [Nm] | 0,69 | 0,99 | 0,99 |
| | R120 | [Nm] | 0,55 | 0,79 | 0,79 |
| Spacing | $s_{cr,N,fi}$ | [mm] | $4 \times h_{ef}$ | | |
| | $s_{min}$ | [mm] | 100 | | |
| Edge distance | $c_{cr,N,fi}$ | [mm | $2 \times h_{ef}$ | | |
| | $c_{cr,N,fi}$ | [mm] | Fire attack from one side: $c_{min} = 2 \times h_{ef}$ | | |
| | | | Fire attack from more than one side: $c_{min} \geq 300$ mm and $\geq 2 \times h_{ef}$ | | |

[1)] As a rule, splitting failure can be neglected when cracked concrete and reinforcement is assumed

Design under fire exposure is performed according to the design method given in or EN 1992-4:2018.

Under fire exposure usually cracked concrete is assumed. The design equations are given in EN 1992-4:2018 § D.4.2.

In the absence of other national regulations the partial safety factor for resistance under fire exposure $\gamma_{M,fi} = 1,0$ is recommended.

| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | Annex C (4/5) |
|---|---|
| **Performance**<br>Characteristic resistances under fire exposure | |

**Table C5:** Characteristic resistances under shear loads in case of fire exposure for design according to EN 1992-4:2018

| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | | | Anchor size | | |
|---|---|---|---|---|---|
| | | | S-CSA+ /<br>JC2 Plus 6-1 | S-CSA+ /<br>JC2 Plus 6-2 | S-CSA A4 /<br>JC6 6-2 |
| **Steel failure without lever arm** | | | | | |
| Characteristic resistance $V_{Rk,s,fi}$ | R30 | [kN] | 0,24 | | |
| | R60 | [kN] | 0,22 | | |
| | R90 | [kN] | 0,17 | | |
| | R120 | [kN] | 0,12 | | |
| **Steel failure with lever arm** | | | | | |
| Characteristic resistance $M^0_{Rk,s,fi}$ | R30 | [kN] | 0,20 | | |
| | R60 | [kN] | 0,18 | | |
| | R90 | [kN] | 0,14 | | |
| | R120 | [kN] | 0,10 | | |
| **Concrete pryout failure** | | | | | |
| k factor | $k_8$ | [-] | 2,6 | 2,6 | 2,0 |
| Characteristic resistance $V_{Rk,cp,fi}$ | R30 | [Nm] | 1,79 | 2,57 | 1,98 |
| | R60 | [Nm] | 1,79 | 2,57 | 1,98 |
| | R90 | [Nm] | 1,79 | 2,57 | 1,98 |
| | R120 | [Nm] | 1,43 | 2,05 | 1,58 |

The initial value $V^0_{Rk,c,fi}$ of the characteristic resistance in concrete C20/25 to C50/60 under fire exposure may be determined by:

$$V^0_{Rk,c,fi} = 0{,}25 \times V^0_{Rk,c} \quad (\leq R90) \qquad V^0_{Rk,c,fi} = 0{,}20 \times V^0_{Rk,c} \quad (R120)$$

with $V^0_{Rk,c}$ initial value of the characteristic resistance in cracked concrete C20/25 under normal temperature.

Design under fire exposure is performed according to the design method given in EN 1992-4:2018.

Under fire exposure usually cracked concrete is assumed. The design equations are given in EN 1992-4:2018 § D.4.3.

EN 1992-4:2018 covers design for fire exposure from one side. For fire attack from more than one side the edge distance must be increased to $c_{min} \geq 300$ mm and $\geq 2 \times h_{ef}$.

In the absence of other national regulations the partial safety factor for resistance under fire exposure $\gamma_{M,fi} = 1{,}0$ is recommended.

| S-CSA+ / JC2 Plus<br>S-CSA A4 / JC6 | Annex C (5/5) |
|---|---|
| **Performance**<br>Characteristic resistances under fire exposure | |