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## European Technical Assessment

**ETA 25/0178  
of 12/05/2026**

### General Part

#### **Technical Assessment Body issuing the European Technical Assessment:**

Technical and Test Institute for Construction Prague

#### **Trade name of the construction product**

TAB Rod Hanger

#### **Product family to which the construction product belongs**

Product area code: 33  
Concrete screw for use in concrete for  
redundant non-structural systems

#### **Manufacturer**

Trutek Fasteners Polska Sp. z o.o.  
ul. Wojska Polskiego 3  
39-300 Mielec, Poland

#### **Manufacturing plant**

Production plant no.1

#### **This European Technical Assessment contains**

9 pages including 7 Annexes which form an  
integral part of this assessment

#### **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  
Fasteners for use in concrete for redundant  
non-structural systems

#### **This version replaces**

ETA 25/0178 issued on 30/04/2025

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## Specific parts

### 1. Technical description of the product

The TAB Rod Hanger is a concrete screw made of carbon steel.

The TAB Rod Hanger PH, characterized by a pan head with a washer, is a concrete screw made of carbon steel.

The anchor is screwed into a drilled 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.

The installed anchor is shown in Annex A1.

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

The performances given in Section 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 producer, but are to be regarded only as a means for choosing the 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)

| Essential characteristic | Performance                      |
|--------------------------|----------------------------------|
| Reaction to fire         | Class A1 according to EN 13501-1 |
| Resistance to fire       | See Annex C 1                    |

#### 3.2 Safety and accessibility in use (BWR 4)

| Essential characteristic                                                                     | Performance   |
|----------------------------------------------------------------------------------------------|---------------|
| Characteristic resistance for all load directions and modes of failure for simplified design | See Annex C 1 |
| Durability                                                                                   | See Annex B 1 |

### 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 the system of assessment verification of constancy of performance (see Annex IX to Regulation (EU) 2024/3110) is system 2+.

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at Technical and Test Institute for Construction Prague.

Issued in Prague on 12.05.2026



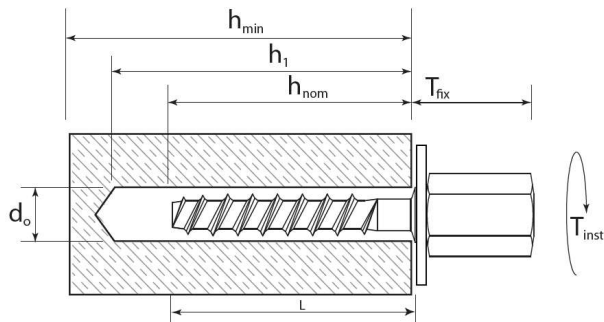
By

**Ing. Jiří Studnička, Ph.D.**  
Head of the Technical Assessment Body

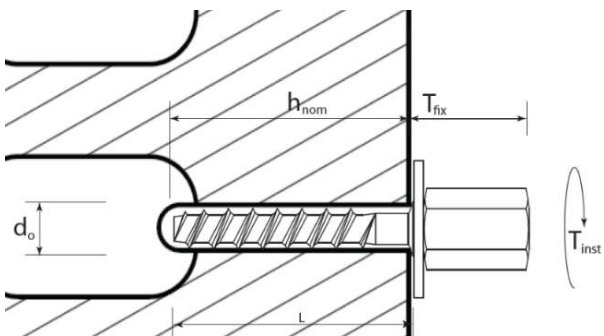


## Installed conditions

### TAB Rod Hanger

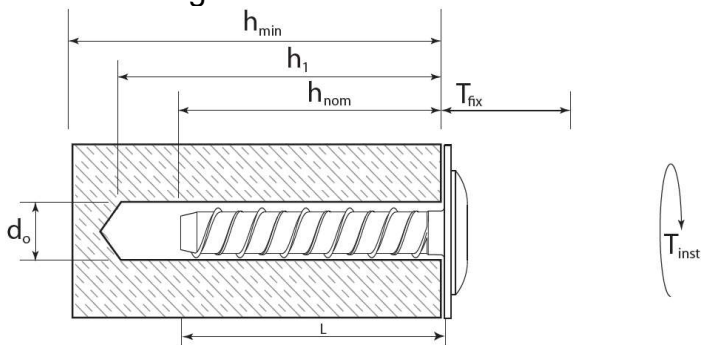


Concrete

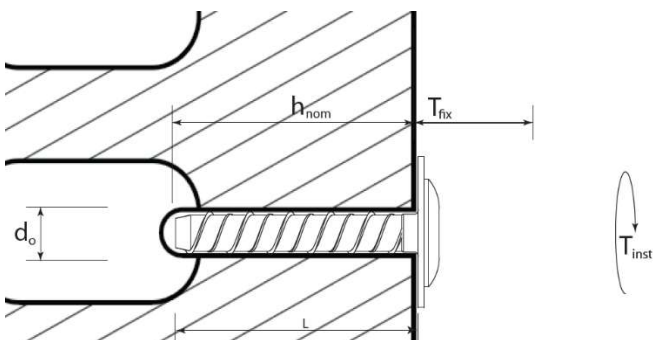


Hollow core slab

### TAB Rod Hanger RH PH



Concrete



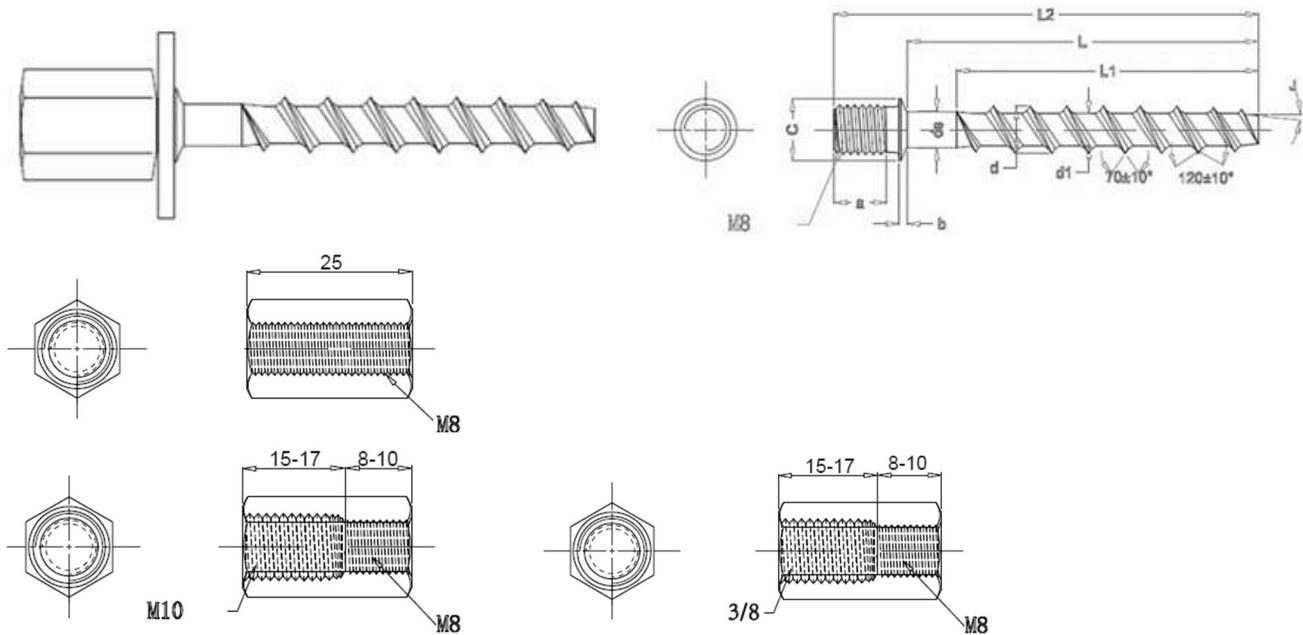
Hollow core slab

### TAB Rod Hanger

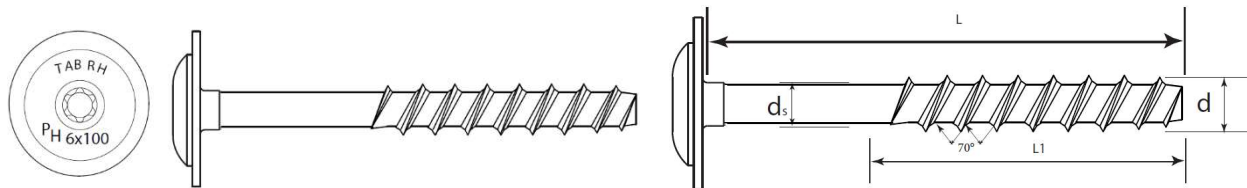
**Product description**  
Installed conditions

**Annex A 1**

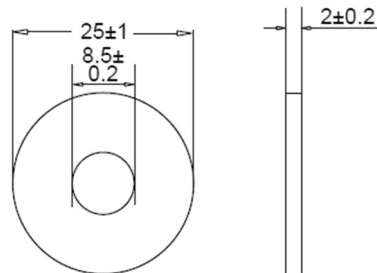
# TAB Rod Hanger



# TAB Rod Hanger PH



# Washer



|                                   |           |
|-----------------------------------|-----------|
| TAB Rod Hanger                    | Annex A 2 |
| Product description<br>Head types |           |

Table A1 Materials

| Designation | Material           |
|-------------|--------------------|
| Screw       | Carbon steel 10B21 |
| Nut         | Carbon steel Q195  |
| Washer      | Carbon steel Q195  |

Table A2 Dimensions

| Anchor size |      | TAB Rod Hanger |      | TAB Rod Hanger PH |
|-------------|------|----------------|------|-------------------|
|             |      | 6,35           | 6,55 | 6                 |
| L2          | [mm] | 46,6           | 66,6 | 50,00 ÷ 350,00    |
| L           | [mm] | 35,0           | 55,0 | 35,00 ÷ 55,00     |
| L1          | [mm] | 27,8           | 47,8 | 45,00 ÷ 345,00    |
| ds          | [mm] | 5,70           | 5,70 | 5,70              |
|             |      | 5,80           | 5,80 | 5,80              |
| d           | [mm] | 7,45           | 7,45 | 7,45              |
|             |      | 7,60           | 7,60 | 7,60              |
| d1          | [mm] | 4,95           | 4,95 | 4,95              |
|             |      | 5,25           | 5,25 | 5,25              |

**TAB Rod Hanger****Product description**

Materials  
Dimensions

**Annex A 3**

## Specifications of intended use

### Anchorage subject to:

- Static and quasi-static loads
- Fire exposure

### Base materials

- Compacted reinforced and unreinforced normal weight concrete without fibres (cracked and uncracked) according to EN 206:2013+A2:2021.
- Strength classes  $\geq$  C20/25 to C50/60 according to EN 206:2013+A2:2021.
- Prestressed hollow core slabs with wall thickness  $\geq$  35 mm and strength classes  $\geq$  C40/50 to C50/60.

### Use conditions (Environmental conditions)

- Structures subject to dry internal conditions.

### Design:

- The anchorages are designed under the responsibility of an engineer experienced in anchorages and concrete work.
- The anchorages are designed in accordance with the EN 1992-4:2018, design method B
- Anchorages under fire exposure have to be designed in accordance with EN 1992-4, Annex D.
- Verifiable calculation notes and drawings are prepared taking account of the loads to be anchored. The position of the anchor is indicated on the design drawings (e.g. positions of the fastener relative to reinforcement or to support, etc.).

### Installation:

- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site.
- Use of the anchor only as supplied by the manufacturer without exchanging any components of the anchor.
- Anchor installation in accordance with the manufacturer's specifications and drawings using the appropriate tools.
- Effective anchoring depth, edge distance and spacing not less than the specified values without minus tolerance.
- In case of aborted drill hole: new drilling at a minimum distance away of twice the depth of the aborted hole or smaller distance if the aborted drill hole is filled with high strength mortar and if under shear or oblique tension load it is not in the direction of load application.

**TAB Rod Hanger**

**Intended use**  
Specifications

**Annex B 1**

Table B1 Installation parameters – Solid concrete

| Anchor size                               |            |      | TAB 6 x 35<br>TAB PH | TAB 6 x 55<br>TAB PH |
|-------------------------------------------|------------|------|----------------------|----------------------|
| Nominal drill hole diameter               | $d_o$      | [mm] | 6                    | 6                    |
| Total length of the connector             | $L_2$      | [mm] | 46,6 <sup>1)</sup>   | 66,6 <sup>1)</sup>   |
| Anchoring length                          | $L$        | [mm] | 35                   | 55                   |
| Drill hole depth                          | $h_1 \geq$ | [mm] | 45                   | 65                   |
| Diameter of clearance hole in the fixture | $d_f \leq$ | [mm] | 8                    | 8                    |
| Nominal embedment depth                   | $h_{nom}$  | [mm] | 35                   | 55                   |
| Effective embedment depth                 | $h_{ef}$   | [mm] | 25                   | 41                   |
| Minimum concrete thickness                | $h_{min}$  | [mm] | 80                   | 80                   |
| Minimum spacing                           | $s_{min}$  | [mm] | 200                  | 200                  |
| Minimum edge distance                     | $c_{min}$  | [mm] | 100                  | 125                  |
| Required setting torque                   | $T_{inst}$ | [Nm] | 10                   | 10                   |

<sup>1)</sup> for TAB Rod Hanger PH see Table A2

Table B2 Installation parameters - Prestressed hollow core slabs with min 35 mm thickness

| Anchor size                               |            |      | TAB 6 x 35<br>TAB PH |
|-------------------------------------------|------------|------|----------------------|
| Nominal drill hole diameter               | $d_o$      | [mm] | 6                    |
| Total length of the connector             | $L_2$      | [mm] | 46,6 <sup>1)</sup>   |
| Anchoring length                          | $L$        | [mm] | 35                   |
| Drill hole depth                          | $h_1 \geq$ | [mm] | 45                   |
| Diameter of clearance hole in the fixture | $d_f \leq$ | [mm] | 8                    |
| Nominal embedment depth                   | $h_{nom}$  | [mm] | 35                   |
| Effective embedment depth                 | $h_{ef}$   | [mm] | 25                   |
| Minimum concrete thickness                | $h_{min}$  | [mm] | 35                   |
| Minimum spacing                           | $s_{min}$  | [mm] | 200                  |
| Minimum edge distance                     | $c_{min}$  | [mm] | 100                  |
| Required setting torque                   | $T_{inst}$ | [Nm] | 6                    |

<sup>1)</sup> for TAB Rod Hanger PH see Table A2

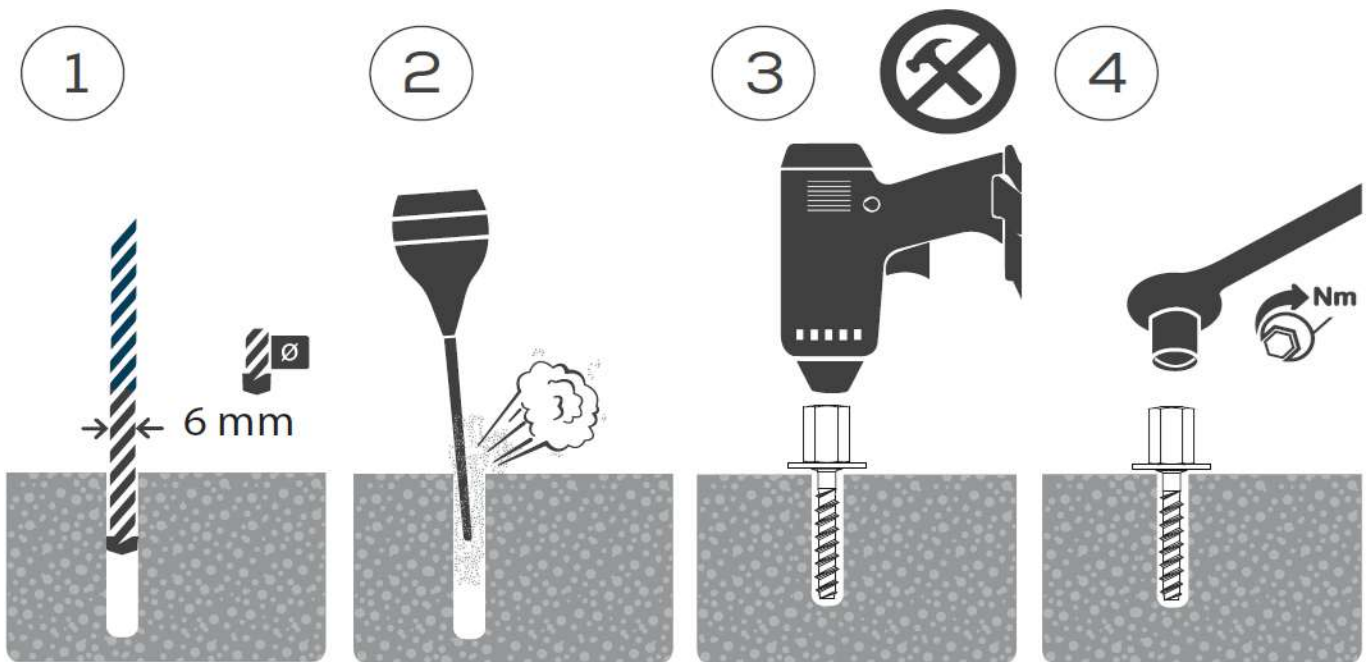
**TAB Rod Hanger**

**Intended use**  
Installation parameters

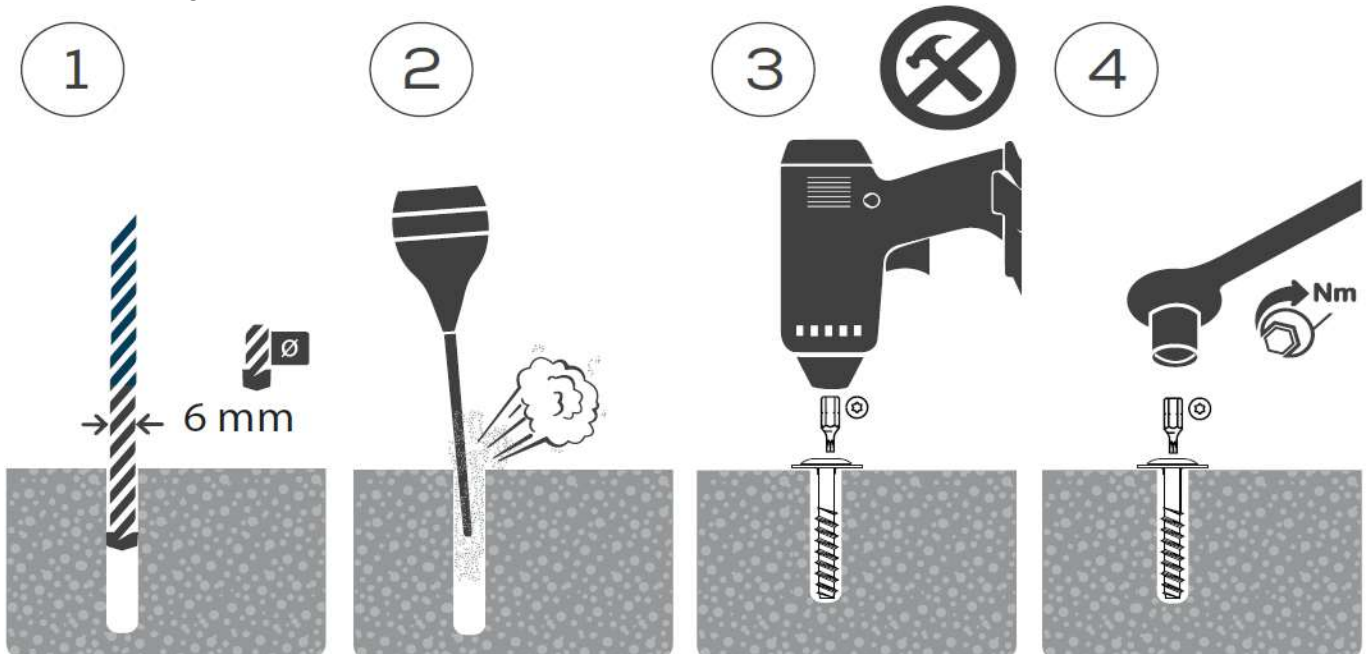
**Annex B 2**

## Installation instructions

### TAB Rod Hanger



### TAB Rod Hanger PH



**TAB Rod Hanger**

**Intended use**  
Installation instructions

**Annex B 3**



Table C1 Characteristic resistance for all load directions

|                                                                               |                    |      |       |     |
|-------------------------------------------------------------------------------|--------------------|------|-------|-----|
| Size                                                                          |                    |      | 6     |     |
| Concrete solid material $\geq$ C20/25                                         |                    |      |       |     |
| Nominal embedment depth                                                       | $h_{nom}$          | [mm] | 35    | 55  |
| Characteristic resistance                                                     | $F^0_{Rk}$         | [kN] | 4,0   | 4,5 |
| Robustness                                                                    | $\gamma_{inst}$    | [-]  | 1,4   | 1,2 |
| Characteristic spacing                                                        | $s_{cr}$           | [mm] | 200   | 200 |
| Characteristic edge distance                                                  | $c_{cr}$           | [mm] | 100   | 125 |
| Pre-stressed hollow core slabs $\geq$ C40/50 with wall thickness $\geq$ 35 mm |                    |      |       |     |
| Nominal embedment depth                                                       | $h_{nom}$          | [mm] | 35    |     |
| Characteristic resistance                                                     | $F^0_{Rk}$         | [kN] | 5,0   |     |
| Robustness                                                                    | $\gamma_{inst}$    | [-]  | 1,2   |     |
| Characteristic spacing                                                        | $s_{cr}$           | [mm] | 200   |     |
| Characteristic edge distance                                                  | $c_{cr}$           | [mm] | 100   |     |
| Shear load: steel failure with lever arm                                      |                    |      |       |     |
| Characteristic bending moment                                                 | $M^0_{Rk,s}$       | [Nm] | 12,09 |     |
| Partial safety factor                                                         | $\gamma_{Ms}^{1)}$ | [-]  | 1,5   |     |

<sup>1)</sup> In absence of other national regulations

Table C2 Characteristic resistance for all load directions under fire exposure

|                                                                                                                |                      |      |      |    |
|----------------------------------------------------------------------------------------------------------------|----------------------|------|------|----|
| Size                                                                                                           |                      | 6    |      |    |
| Concrete solid material ≥ C20/25<br>and<br>Pre-stressed hollow core slabs ≥ C40/50 with wall thickness ≥ 35 mm |                      |      |      |    |
| Nominal embedment depth                                                                                        | $h_{nom}$            | [mm] | 35   | 55 |
| Characteristic fire resistance (R30)                                                                           | $F^0_{Rk,fi(30)}$    | [kN] | 0,15 |    |
| Characteristic fire resistance (R60)                                                                           | $F^0_{Rk,fi(60)}$    | [kN] | 0,14 |    |
| Characteristic fire resistance (R90)                                                                           | $F^0_{Rk,fi(90)}$    | [kN] | 0,11 |    |
| Characteristic fire resistance (R120)                                                                          | $F^0_{Rk,fi(120)}$   | [kN] | 0,08 |    |
| Characteristic fire bending moment (R30)                                                                       | $M^0_{Rk,s,fi(30)}$  | [Nm] | 0,14 |    |
| Characteristic fire bending moment (R60)                                                                       | $M^0_{Rk,s,fi(60)}$  | [Nm] | 0,13 |    |
| Characteristic fire bending moment (R90)                                                                       | $M^0_{Rk,s,fi(90)}$  | [Nm] | 0,10 |    |
| Characteristic fire bending moment (R120)                                                                      | $M^0_{Rk,s,fi(120)}$ | [Nm] | 0,07 |    |

Note:

In case of fire attack from more than one side, the edge distance of the anchor has to be  $\geq 300$  mm and  $\geq 2 h_{ef}$

## TAB Rod Hanger

**Performances**  
Characteristic resistance

## Annex C 1