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Designated according to Article 29 of Regulation (EU) No 305/2011

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European Technical Assessment

ETA 25/0178 of 30/04/2025

Technical Assessment Body issuing the ETA: 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	8 pages including 6 Annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of	EAD 330747-00-0601 Fasteners for use in concrete for redundant non-structural systems

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

1. Technical description of the product

The TAB Rod Hanger 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 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 (AVCP) system applied with reference to its legal base

According to the Decision 97/161/EC of the European Commission, the system 2+ of assessment verification of constancy of performance (see Annex V to the Regulation (EU) No 305/2011) apply.

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

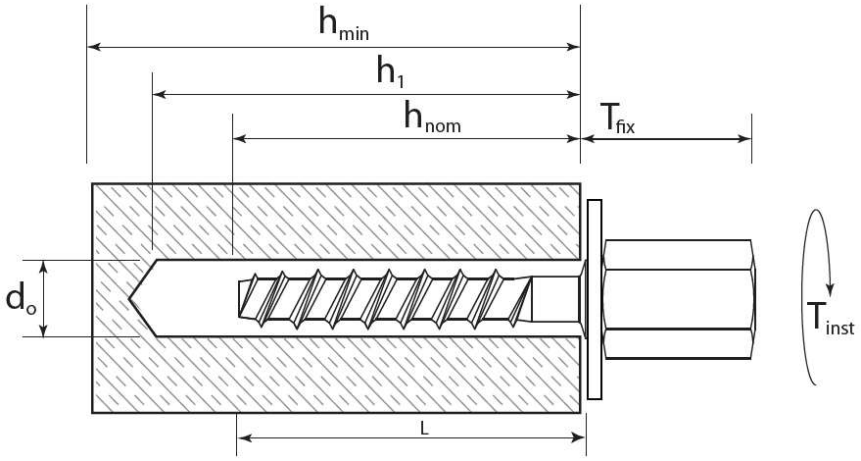
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at Technical and Test Institute for Construction Prague.

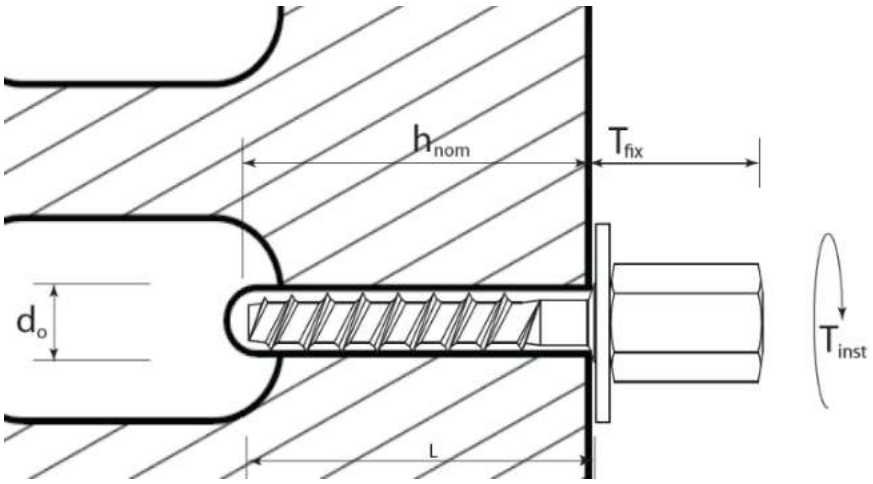
Issued in Prague on 30.04.2025

By

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

Installed conditions

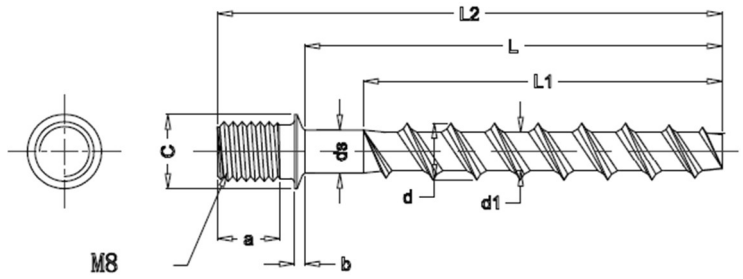




TAB Rod Hanger	**Annex A 1**
Product description Installed conditions	

TAB Rod Hanger

1



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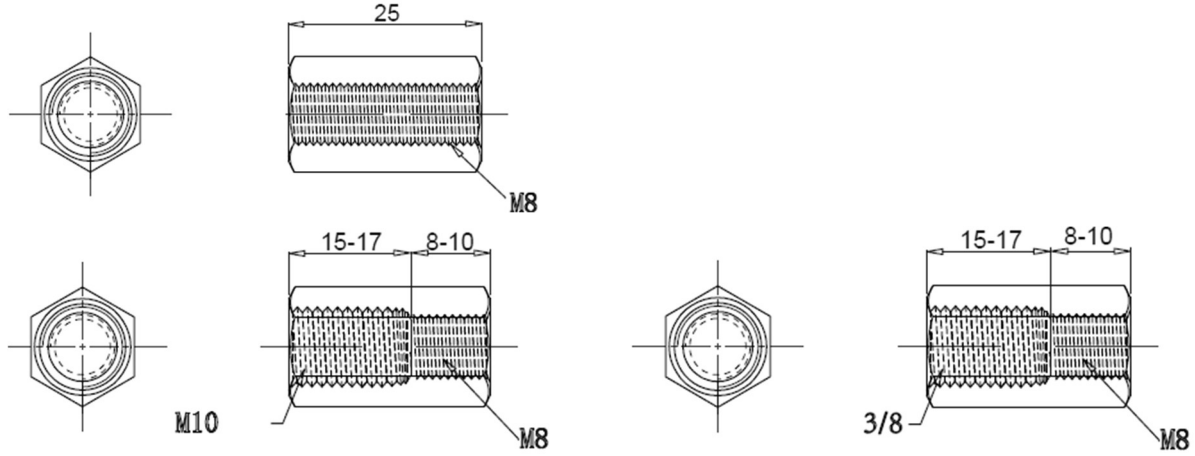

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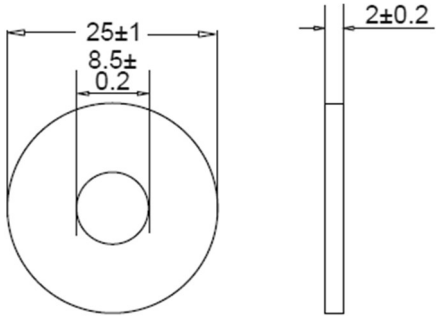


Table A1 Materials

Part	Designation	Material
1	Screw	Carbon steel 10B21
2	Nut	Carbon steel Q195
3	Washer	Carbon steel Q195

Table A2 Dimensions

Size	L2±1 [mm]	L±1 [mm]	L1±1 [mm]	ds [mm]	d [mm]	d1 [mm]
6 x 35	46,6	35,0	27,8	5,70 5,80	7,45 7,60	4,95 5,25
6 x 55	66,6	55,0	47,8	5,70 5,80	7,45 7,60	4,95 5,25

TAB Rod Hanger	
Product description Materials Dimensions	**Annex A 2**

Specifications of intended use

Anchorages 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 ≥ C20/25 to C50/60 according to EN 206:2013+A2:2021.
- Prestressed hollow core slabs with wall thickness ≥ 35 mm and strength classes ≥ 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	**Annex B 1**
Intended use Specifications	

Table B1 Installation parameters – Solid concrete

Anchor size			TAB 6 x 35	TAB 6 x 55
Nominal drill hole diameter	d_o	[mm]	6	6
Total length of the connector	L2	[mm]	46,6	66,6
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

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

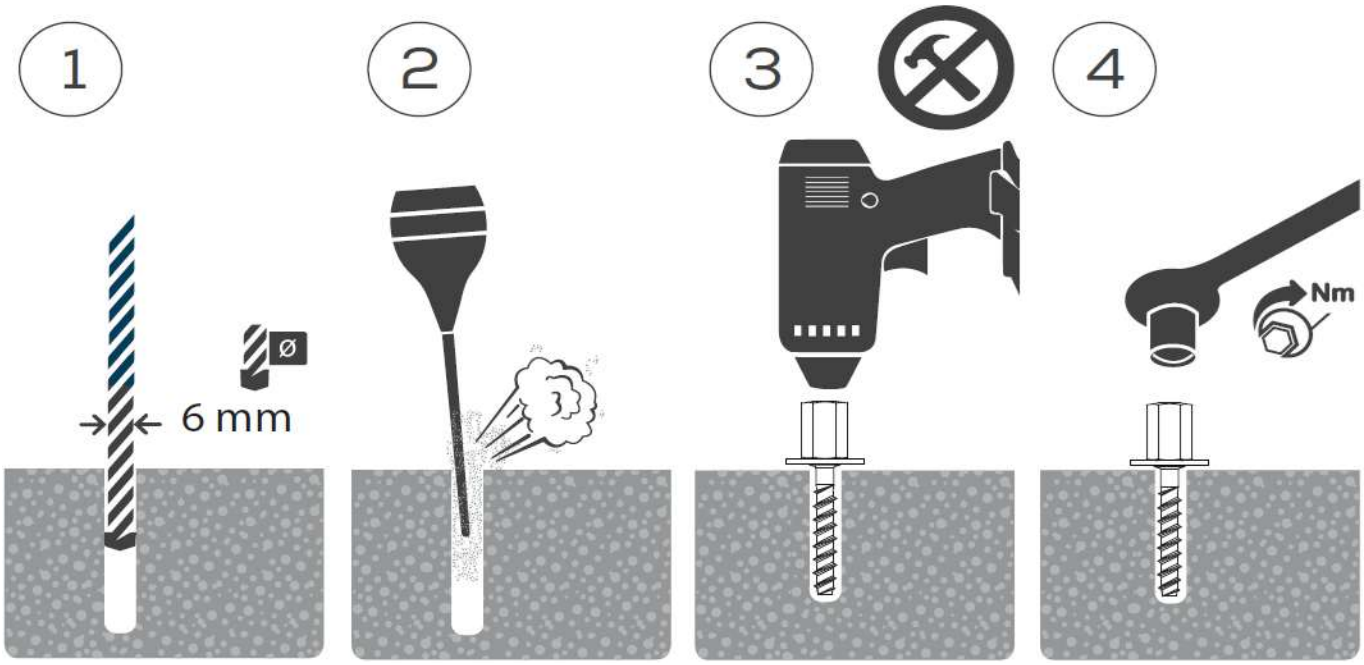
Anchor size			TAB 6 x 35
Nominal drill hole diameter	d_o	[mm]	6
Total length of the connector	L2	[mm]	46,6
Anchoring length	L	[mm]	35
Drill hole depth	$h_1 \geq$	[mm]	45
Diameter of clearance hole in the fixture	$d_f \leq$	[mm]	8
Nominal embedment depth	h_{nom}	[mm]	35
Effective embedment depth	h_{ef}	[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

TAB Rod Hanger

Intended use
Installation parameters

Annex B 2

Installation instructions



TAB Rod Hanger	**Annex B 3**
Intended use Installation instructions	

Table C1 Characteristic resistance for all load directions

Size			6	
Concrete solid material ≥ C20/25				
Nominal embedment depth	h_{nom}	[mm]	35	55
Characteristic resistance	F^0_{Rk}	[mm]	4,0	4,5
Robustness	γ_{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 ≥ C40/50 with wall thickness ≥ 35 mm				
Nominal embedment depth	h_{nom}	[mm]	35	
Characteristic resistance	F^0_{Rk}	[mm]	5,0	
Robustness	γ_{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	γ_{Ms} [1)]	[-]	1,5	

[1)] In absence of other national regulations

Table C2 Characteristic resistance for all load directions under fire exposure

Size			6	
Concrete solid material ≥ C20/25 and Pre-stressed hollow core slabs ≥ C40/50 with wall thickness ≥ 35 mm				
Nominal embedment depth	h_{nom}	[mm]	35	55
Characteristic fire resistance (R30)	$F^0_{Rk,fi(30)}$	[mm]	0,15	
Characteristic fire resistance (R60)	$F^0_{Rk,fi(60)}$	[mm]	0,14	
Characteristic fire resistance (R90)	$F^0_{Rk,fi(90)}$	[mm]	0,11	
Characteristic fire resistance (R120)	$F^0_{Rk,fi(120)}$	[mm]	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 ≥ 300 mm and ≥ 2 h_{ef}

TAB Rod Hanger

Performances
Characteristic resistance

Annex C 1