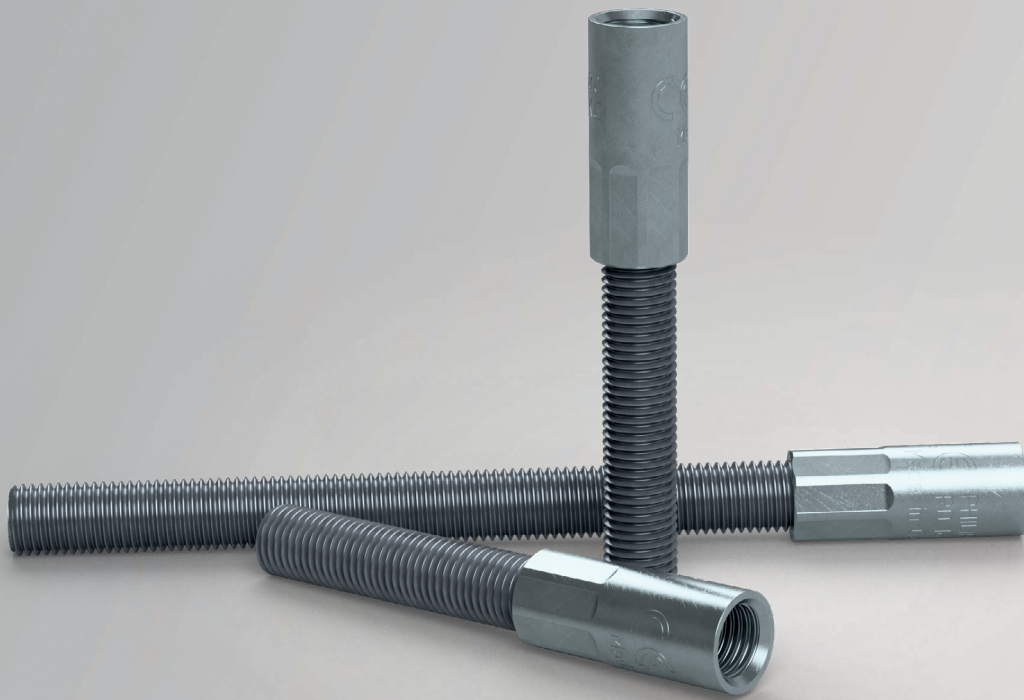


Threaded transport anchor elongation



Installation and Application Instruction

Our products from the division BUILDING SOLUTIONS

SERVICES

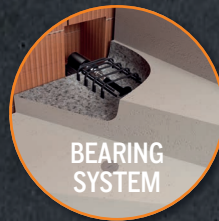
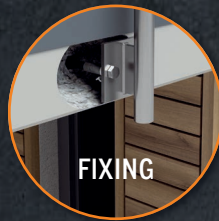
- » On-site tests -> we ensure that your requirements are properly covered by our planning.
- » Test reports -> for your safety and documentation.
- » Trainings -> the knowledge of your employees from planning and production is enhanced by our experts on site, online or via webinar.
- » Planning support -> latest design software, planning documents, CAD data and much more can be downloaded any time from www.philipp-group.de.

HIGH DEMANDS ON PRODUCT SAFETY AND PRACTICALITY

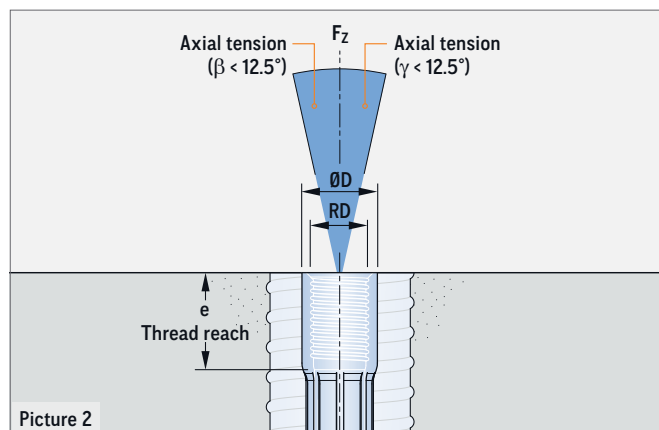
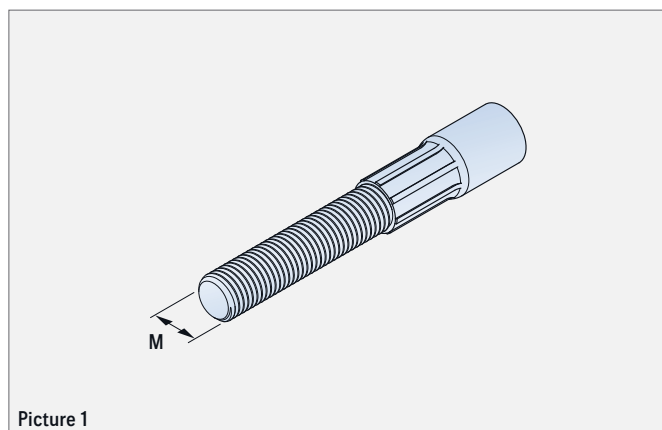
- » Close cooperation with notified bodies and - if necessary - approval of our solutions.

TECHNICAL DEPARTMENT

- » Our expert-team will support you at any time during your planning phase with detailed advice.











THE PHILIPP THREADED TRANSPORT ANCHOR ELONGATION



The Threaded transport anchor elongation is designed especially for the transport of precast concrete cubicles with additional attached roof slabs. The elongation is screwed through a recess in the roof slab in the transport anchor of the cubicle. The Threaded transport anchor elongation is part of the PHILIPP Transport anchor system and complies with the VDI/BV-BS Guideline "Lifting inserts and lifting systems for precast concrete elements" (VDI/BV-BS 6205). The use of Threaded transport anchor elongations requires the compliance with this Installation and Application Instruction as well as the General Installation and Application Instruction.

The Installation and Application Instructions for the belonging PHILIPP lifting devices (Lifting loop with threaded end, "Wirbelstar", "Lifty") must be followed also. The elongation may only be used in combination with the mentioned PHILIPP lifting devices. A Threaded transport anchor elongation is designed for the transport of precast concrete units only. Multiple use within the transport chain (from production to installation of the unit) means no repeated usage. The Threaded transport anchor elongation is not specified for a repeated usage (e.g. ballasts for cranes) or a permanent fixation.

TABLE 1: DIMENSIONS OF THREADED TRANSPORT ANCHOR ELONGATION

Ref. no. bright zinc plated ①	Type	perm. F 0°- 12,5° (kN)	Dimensions				
			RD / M	ØD (mm)	L _{v,min} (mm)	e (mm)	e _{A,min} (mm)
67AVL12____	 RD 12	5.0	12	15.0	40	22	15
67AVL16____	 RD 16	12.0	16	21.0	55	27	20
67AVL20____	 RD 20	20.0	20	27.0	65	35	24
67AVL24____	 RD 24	25.0	24	31.0	75	43	29
67AVL30____	 RD 30	40.0	30	39.5	105	56	36
67AVL36____	 RD 36	63.0	36	47.0	110	68	44
67AVL42____	 RD 42	80.0	42	54.0	135	75	51
67AVL52____	 RD 52	125.0	52	67.0	180	95	63

① The elongation length L_y (see page 4) has to be added to the reference number.

MATERIALS

The Threaded transport anchor elongation consists of a threaded rod with a crimped-on insert. These threaded inserts are made of special high precision steel tubes and are galvanised according to common standards. This galvanisation protects the anchor temporarily, from the storage at the producer site to the final installation in the concrete element.

EC-DECLARATION OF CONFORMITY

The EC Declaration of Conformity (DoC) of the Threaded transport anchor elongation can be downloaded from our website www.philipp-group.de or is available on request.



PHILIPP Threaded transport anchor elongation

ELONGATION LENGTH / LOAD DIRECTION

CALCULATION OF THE ELONGATION LENGTH L_V

The elongation length is determined by the height of the additional roof slab, the possible joint (for grouting) and recess for an anchor installation in recessed position (in the cubicle). The dimension $L_{V,min}$ (see table 1) must not be less than this.

Calculation of the elongation length L_V

$$L_V = h_B + h_F + h_T$$

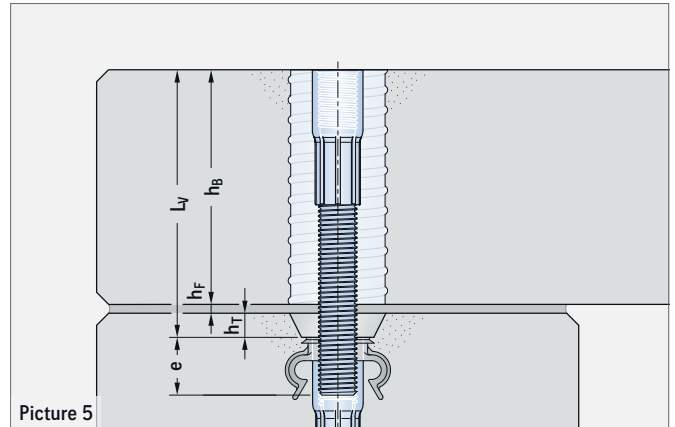
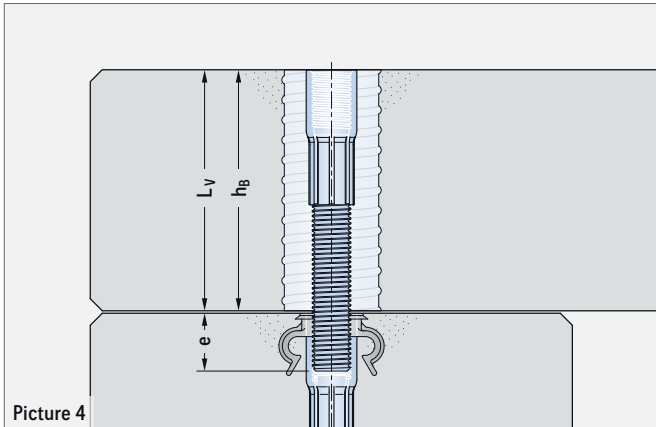
Check of the minimum length

$$L_V \geq L_{V,min} \text{ (see table 1)}$$

67 AVL 16 150

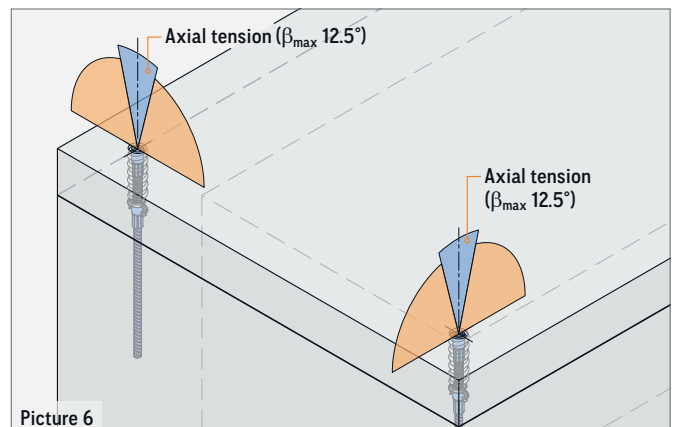
Elongation length L_V
Load class
Anchor type
Product group

Picture 3 Ref. no.



LOAD DIRECTIONS

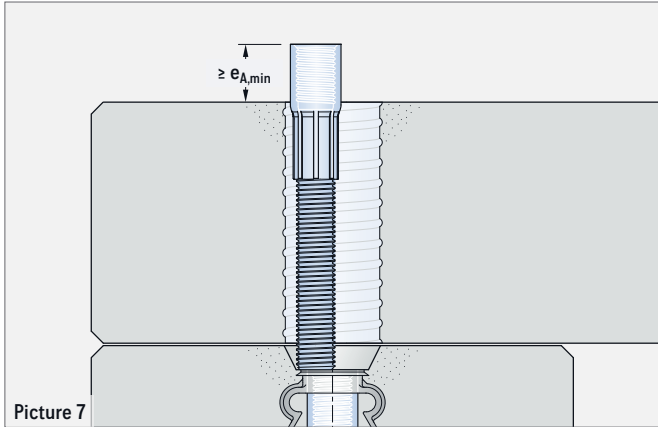
The Threaded transport anchor elongation is only suitable for axial load ($\beta_{max} 12.5^\circ$). Diagonal and lateral tension is not permissible within the complete transport chain!



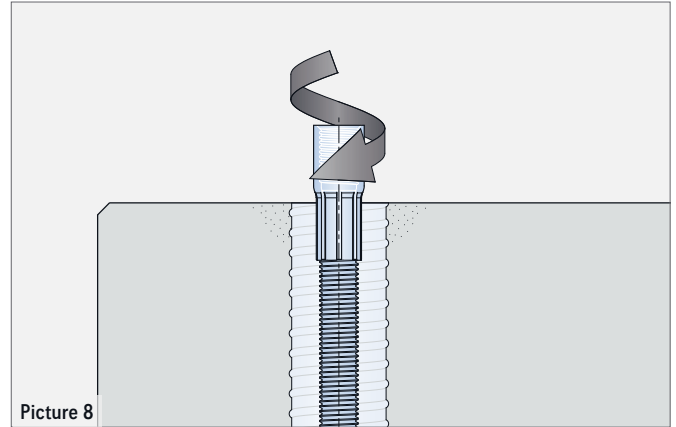
INSTALLATION

Before using the Threaded transport anchor elongation please check if the minimum thread reach of the elongation ($e_{A,min}$) can be reached (picture 7). If this is correct, the Threaded transport anchor elongation can be screwed in flush to the concrete surface.

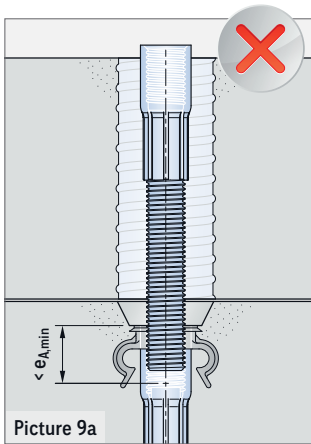
After screwing-in the area all around the Threaded transport anchor elongation must be completely grouted with mortar. In order to avoid a soiling of the thread we recommend to protect the insert (e.g. by using a PHILIPP 72KAS___).



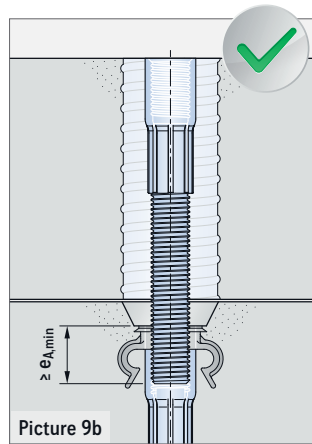
Picture 7



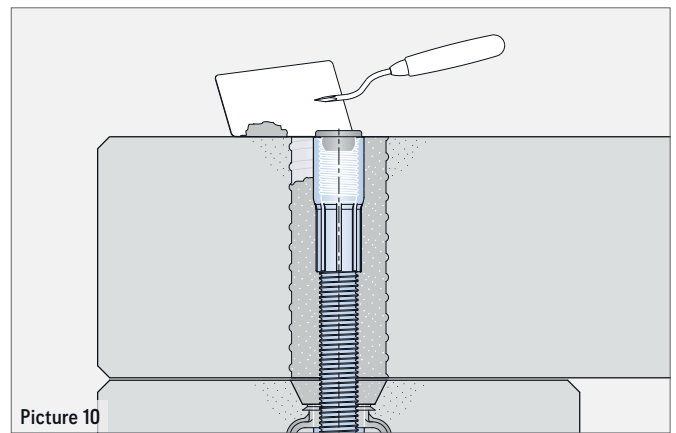
Picture 8



Picture 9a



Picture 9b



Picture 10

NOTE!

The minimum thread reach ($e_{A,min}$) must always be observed, otherwise the load-bearing capacity is not guaranteed!

INSTALLATION / SAFETY INSTRUCTIONS!

If the minimum thread reach ($e_{A,min}$) cannot be achieved, the Threaded transport anchor elongation shall be screwed in correspondingly deeper in order to comply with this or a correspondingly longer Threaded transport anchor elongation shall be used! In case of a deeper installation, the Application Instruction of the used lifting device must be observed.

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