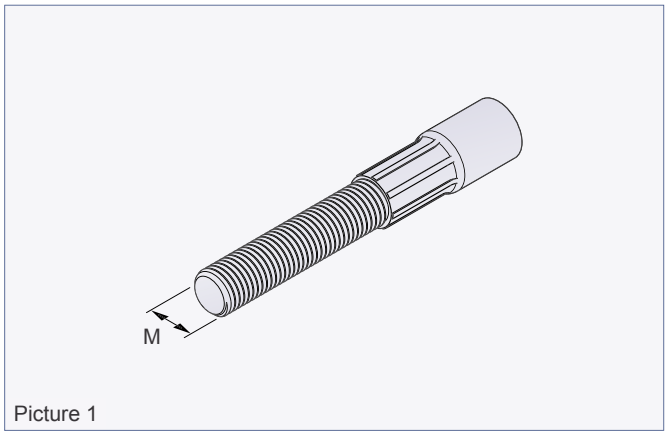
PHILIPPGROUP

PHILIPP Threaded transport anchor elongation

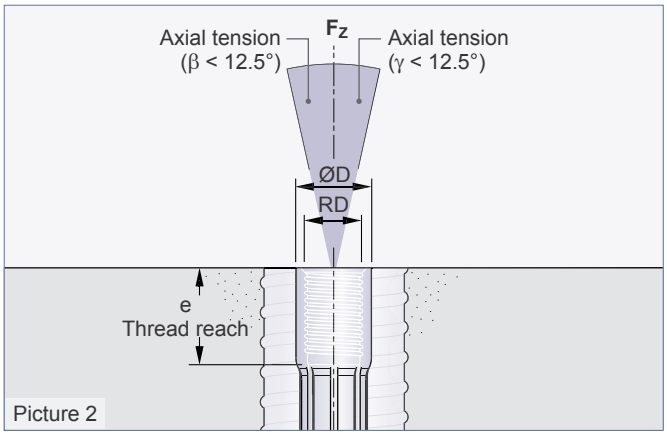
VB3-T-055-en - 02/17

Installation and Application Instruction

PHILIPP Threaded transport anchor elongation



Picture 1



Picture 2

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 insert 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 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

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	100	63

① The elongation length L_V (see page 3) 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.

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

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Elongation length / load direction

Calculation of the elongation length L_V

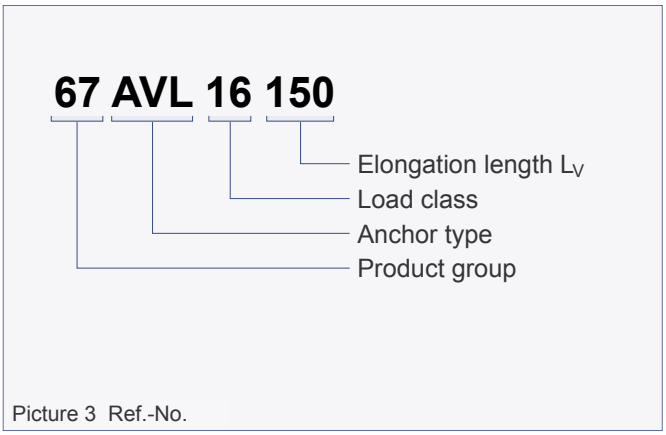
The elongation length is determined by the height of the additional roof slab, the possible joint (for grouting) and recess for an anchor installation in recessed position (in the cubicle). The dimension $L_{V,min}$ must not be less than this.

Calculation of the elongation length L_V

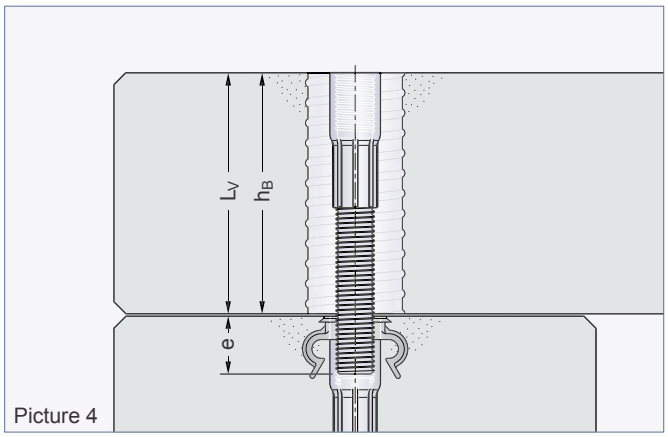
$$L_V = h_B + h_F + h_T$$

Check of the minimum length

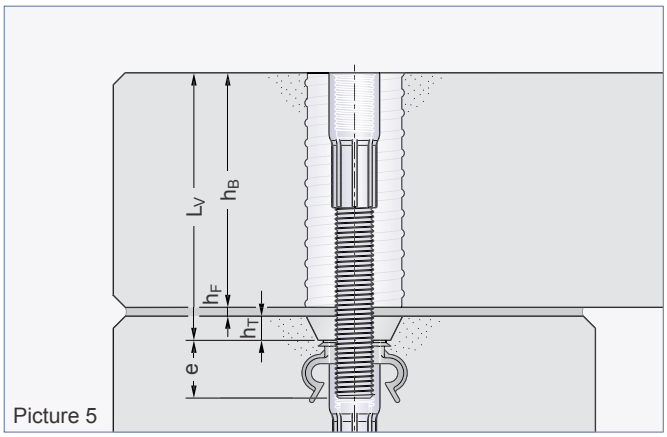
$$L_V \geq L_{V,min} \text{ (see table 1)}$$



Picture 3 Ref.-No.



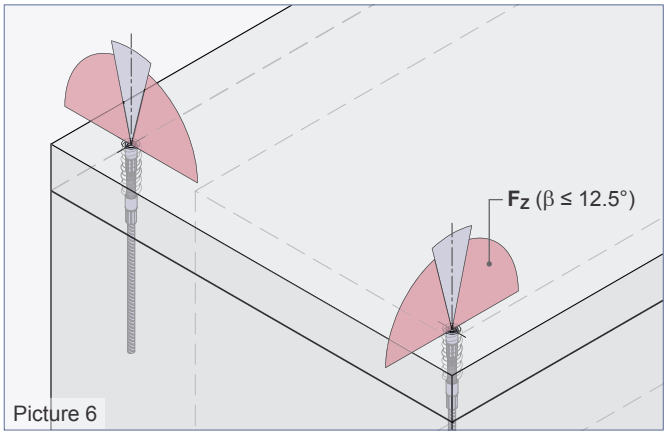
Picture 4



Picture 5

Load directions

The Threaded transport anchor elongation is only suitable for axial load ($\beta \leq 12.5°$). Diagonal and lateral tension is not permissible within the complete transport chain!



Picture 6

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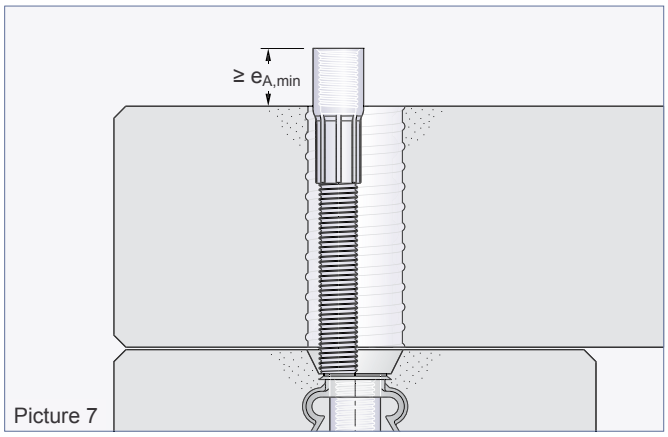
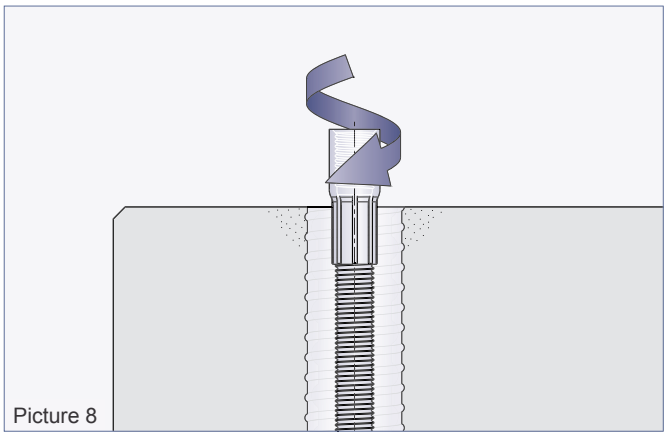
Installation

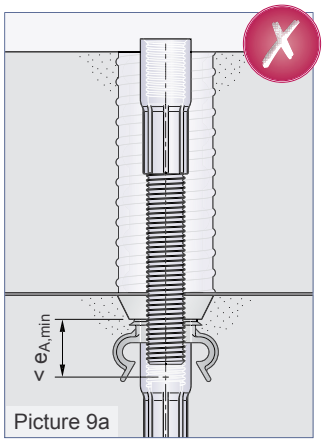
Before using the Threaded transport anchor elongation please check if the minimum thread reach of the elongation ($e_{A,min}$) can be reached (picture 7). If this is correct, the Threaded transport anchor elongation can be screwed in flush to the concrete surface. If the minimum thread reach is not reached ($e_{A,min}$), the Threaded transport anchor elongation must be screwed in recessed position.

Here, the Application Instruction of the used lifting device must be considered. 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__).

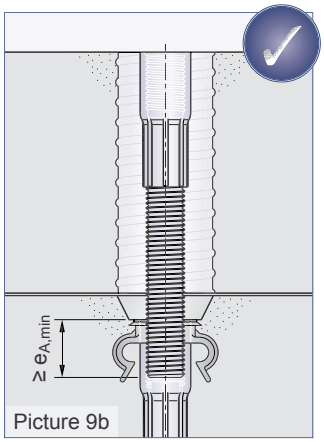


Picture 7

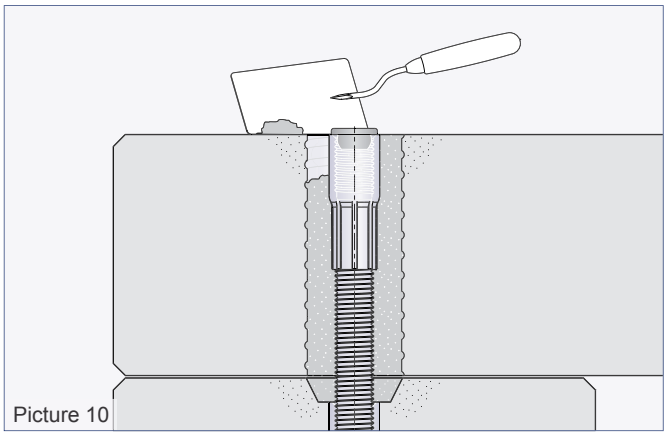

Picture 8



Picture 9a



Picture 9b


Picture 10

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