

Dowelling system



VB3-V-006-en - 01/24 - PDF

Data sheet

Our products from the division BUILDING SOLUTIONS

SERVICES

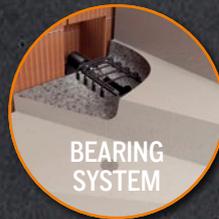
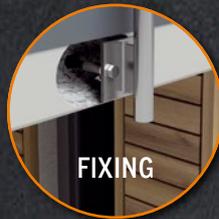
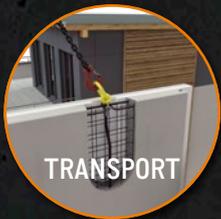
- » On-site tests -> we ensure that your requirements are properly covered by our planning.
- » Test reports -> for your safety and documentation.
- » Trainings -> the knowledge of your employees from planning and production is enhanced by our experts on site, online or via webinar.
- » Planning support -> 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

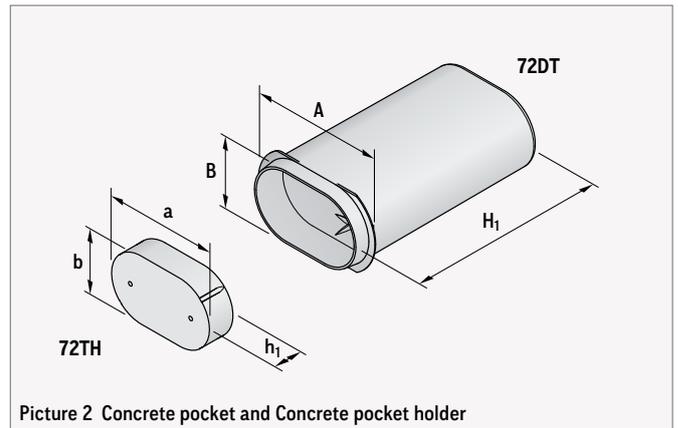
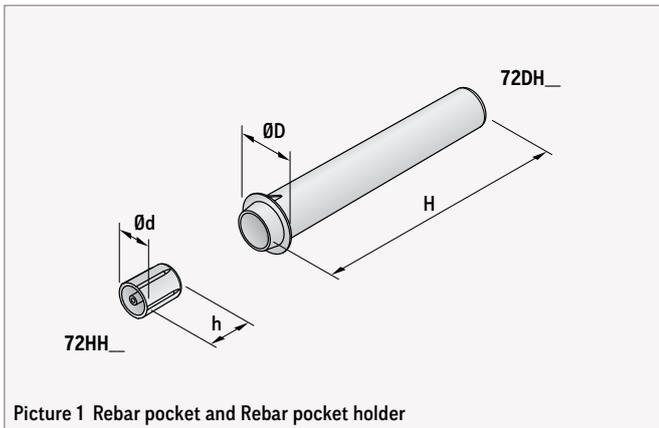
- » Close cooperation with notified bodies and - if necessary - approval of our solutions.

TECHNICAL DEPARTMENT

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



GENERAL PRODUCT INFORMATION



The Dowelling system is used for the fixation of two concrete units which are stacked. It consists of a rebar pocket - available in three sizes - for the upper concrete unit, a Concrete pocket for the lower concrete unit and a bolt made of reinforcing steel or

round steel, to be provided by the customer, in accordance with table 5. Rebar pocket and Concrete pocket are simply fixed to the formwork by means of Rebar and Concrete pocket holders during the production of precast concrete elements.

TABLE 1: REBAR POCKET (PLASTIC)

Ref. no.	Dimensions		Colour
	ØD (mm)	H (mm)	
72DH20	39	180	dark grey
72DH25	42	190	dark red
72DH28	49	200	dark blue

TABLE 2: REBAR POCKET HOLDER (PLASTIC)

Ref. no.	Dimensions		Colour
	Ød (mm)	h (mm)	
72HH20	23	30	dark grey
72HH25	31	20	dark red
72HH28	34	20	dark blue

TABLE 3: CONCRETE POCKET (PLASTIC)

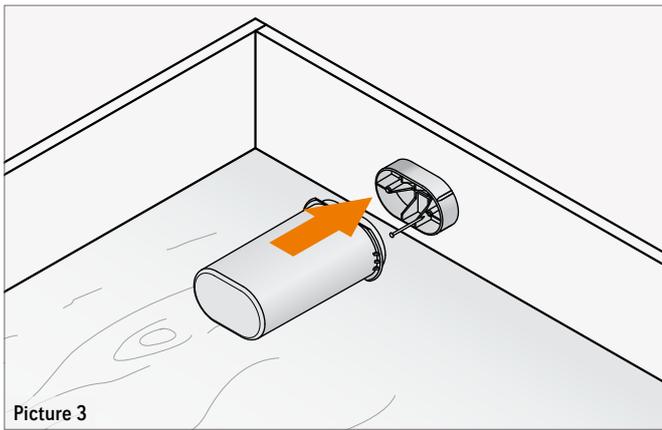
Ref. no.	Dimensions			Colour
	A (mm)	B (mm)	H ₁ (mm)	
72DT	87	56	150	black

TABLE 4: CONCRETE POCKET HOLDER (PLASTIC)

Ref. no.	Dimensions			Colour
	a (mm)	b (mm)	h ₁ (mm)	
72TH	80	52	20	black

PHILIPP Dowelling system

INSTALLATION

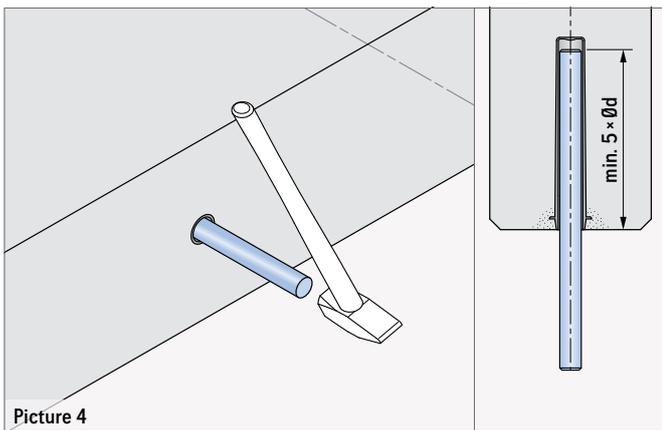


Picture 3

The corresponding holders for the Rebar and Concrete pocket are fixed to the mould by nailing, screwing or hot bonding. Afterwards the pockets are clipped on their fixed holders (picture 3). Those holders can be removed during demoulding easily.

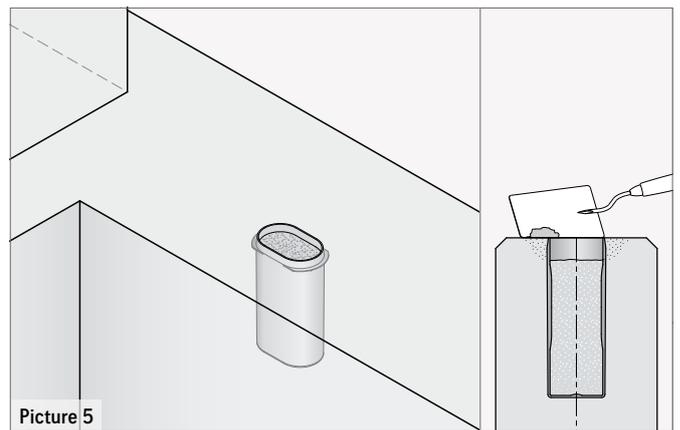
TABLE 5: DIMENSIONS OF THE BOLTS

for Rebar pocket	Ød (mm)	Bolt (Length to be calculated)
Reinforcement bar		
72DH20	Ø 20	
72DH25	Ø 25	
72DH28	Ø 28	
Round steel		
72DH20	Ø 20	
72DH25	Ø 25	
72DH28	Ø 30	



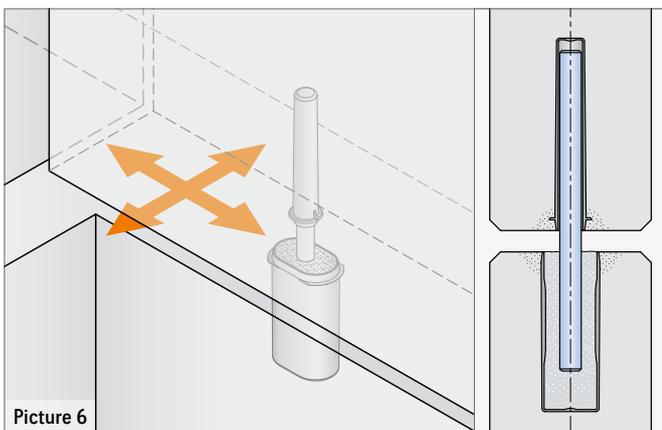
Picture 4

Before installation of the concrete elements, the steel bolt shall be firmly inserted into the Rebar pocket (min. $5 \times \text{Ød}$), in order to prevent it from falling out when mounting. The length of the steel bolts is to be calculated according to the installation situation.



Picture 5

Prior installation the Concrete pocket in the lower unit must be filled with grouting mortar (picture 5), so that the steel bolt will set into the mortar during lowering of the upper unit (picture 6).



Picture 6

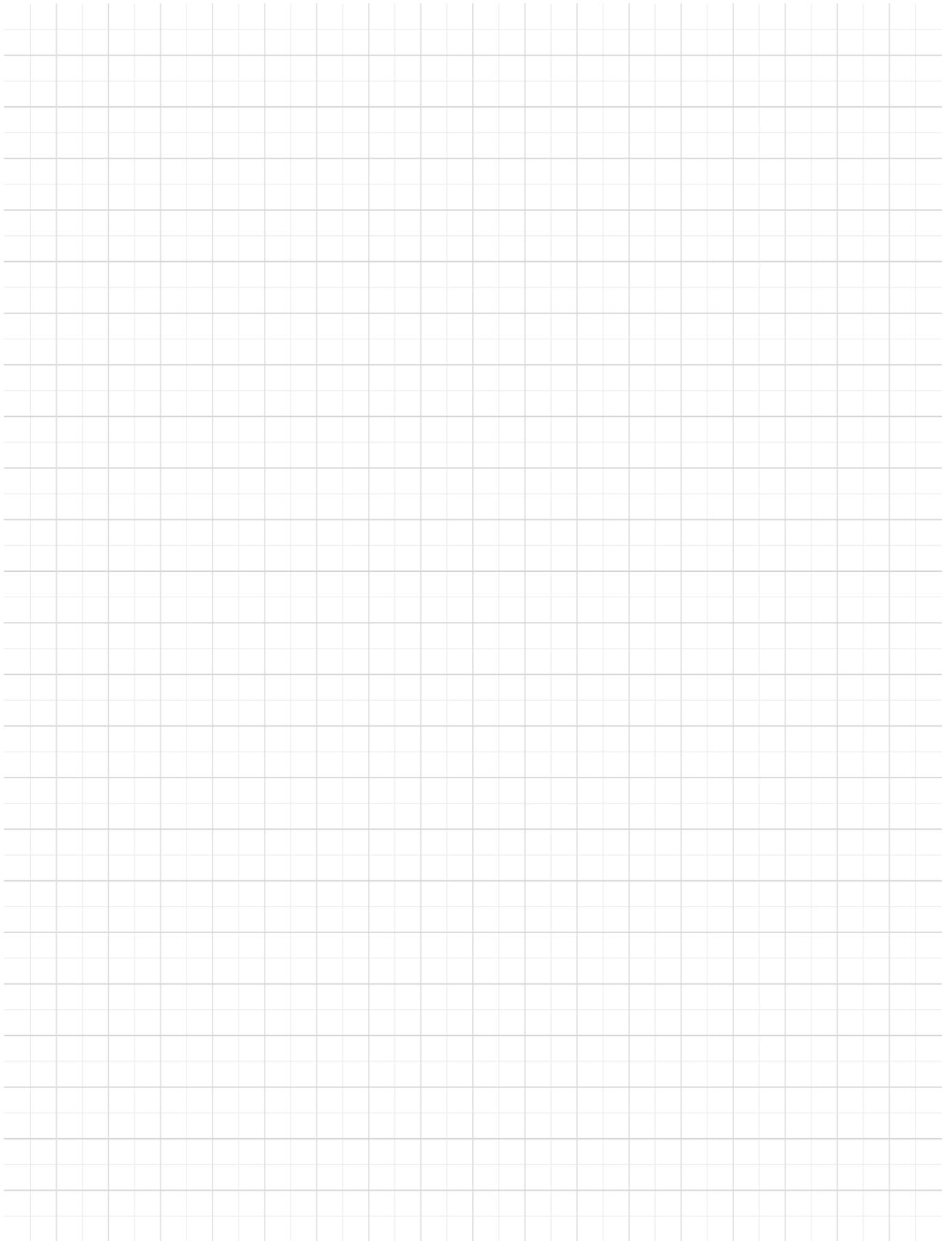
Because of the shape and size of the oval Concrete pocket, the elements can be aligned easily and sufficiently.



FURTHER QUESTIONS

If you have further questions, please have a look at our website www.philipp-group.de or call our technical department under +49 6021 40 27-318 resp. send an email to technik@philipp-gruppe.de.

NOTES





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