PHILIPPGROUP

PHILIPP Dowelling system

VB3-V-006-en - 10/19 - PDF

Data sheet

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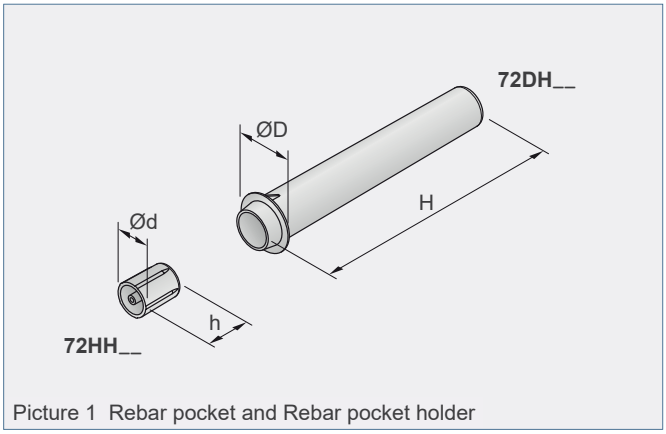
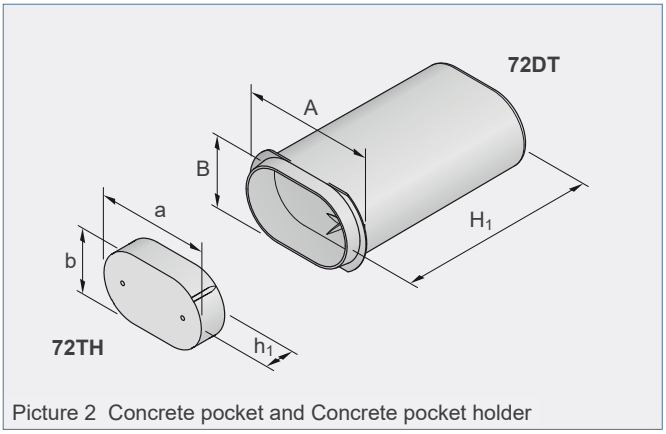


Picture 1 Rebar pocket and Rebar pocket holder



Picture 2 Concrete pocket and Concrete pocket holder

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 ØD [mm]	Dimensions H [mm]	Colour	Weight [kg/100 pcs.]
72DH20	39	180	dark grey	4.7
72DH25	42	190	dark red	6.4
72DH28	49	200	dark blue	6.9

Table 2: Rebar pocket holder (plastic)

Ref.-no.	Dimensions Ød [mm]	Dimensions h [mm]	Colour	Weight [kg/100 pcs.]
72HH20	23	30	dark grey	0.45
72HH25	31	40	dark red	0.75
72HH28	34	40	dark blue	0.85

Table 3: Concrete pocket (plastic)

Ref.-no.	Dimensions A [mm]	Dimensions B [mm]	Dimensions H_1 [mm]	Colour	Weight [kg/100 pcs.]
72DT	87	56	150	black	8.3

Table 4: Concrete pocket holder (plastic)

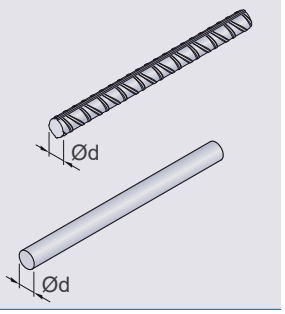
Ref.-no.	Dimensions a [mm]	Dimensions b [mm]	Dimensions h_1 [mm]	Colour	Weight [kg/100 pcs.]
72TH	80	52	20	black	1.6

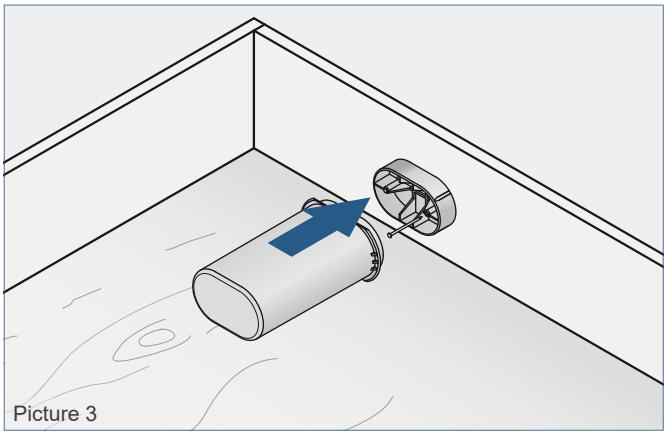
Installation

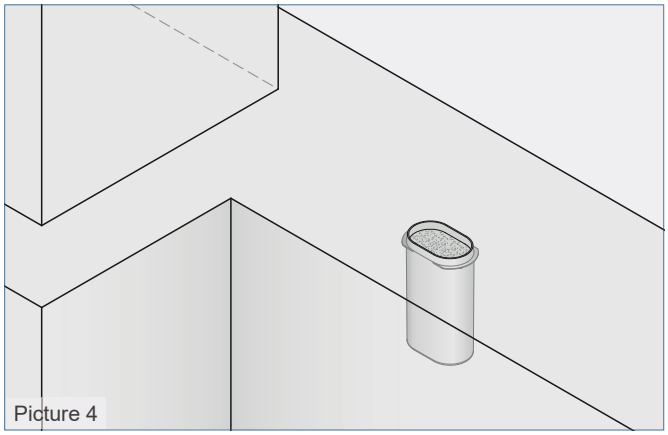
The corresponding holder for the Rebar and Concrete pocket are fixed to the mould by nailing, screwing or hot bonding. Afterwards the pockets are clipped on their fixed holders (picture 3). Those holders can be removed during demoulding easily.
Before installation of the concrete elements, the steel bolt shall be firmly inserted into the Rebar pocket (min. 5 × Ød), in order to prevent it from falling out when mounting.

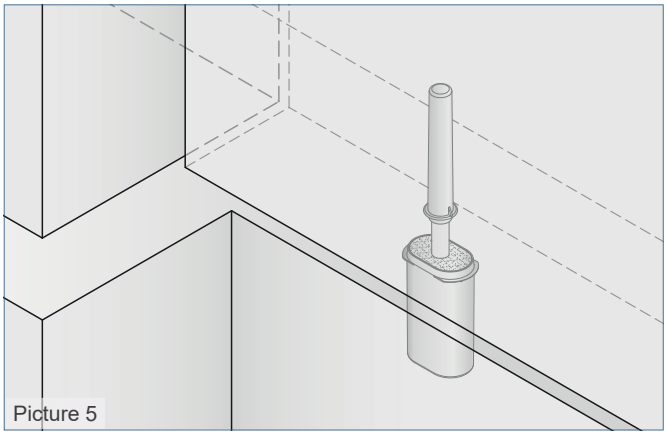
The length of the steel bolts is to be calculated according to the installation situation.
Prior installation the Concrete pocket in the lower unit must be filled with grouting mortar (picture 4), so that the steel bolt will set into the mortar during lowering of the upper unit (picture 5).
Because of the shape and size of the oval Concrete pocket, the elements can be aligned easily and sufficiently.

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 3


Picture 4


Picture 5

Notes: