

# Fix Master Toge Dübel

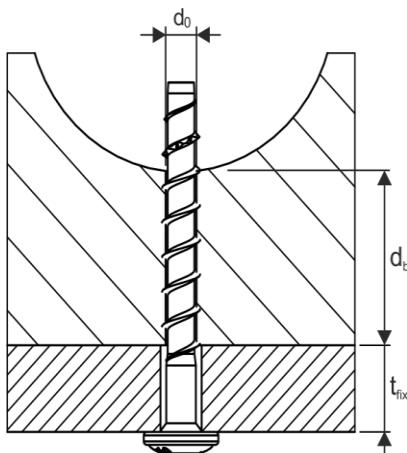
Technical data for multiple use for non-structural applications in prestressed hollow core slabs



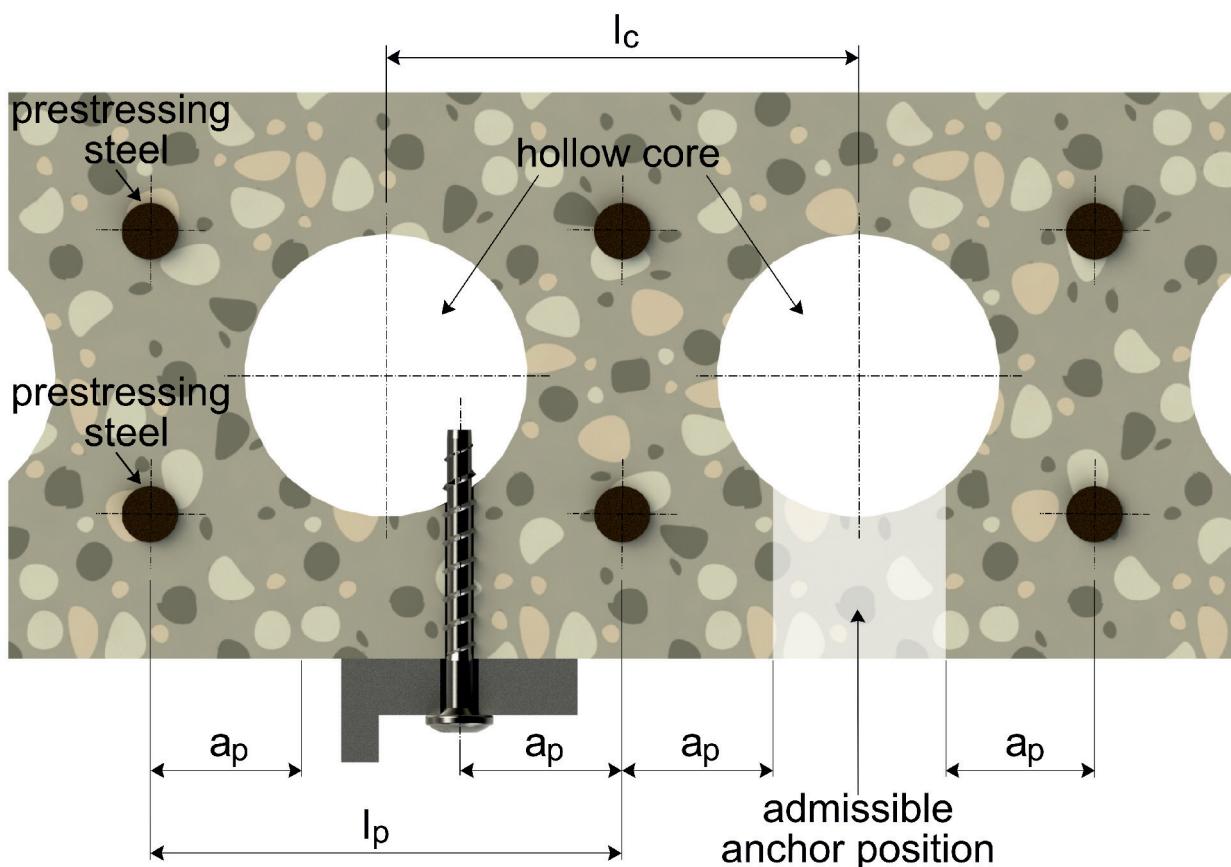
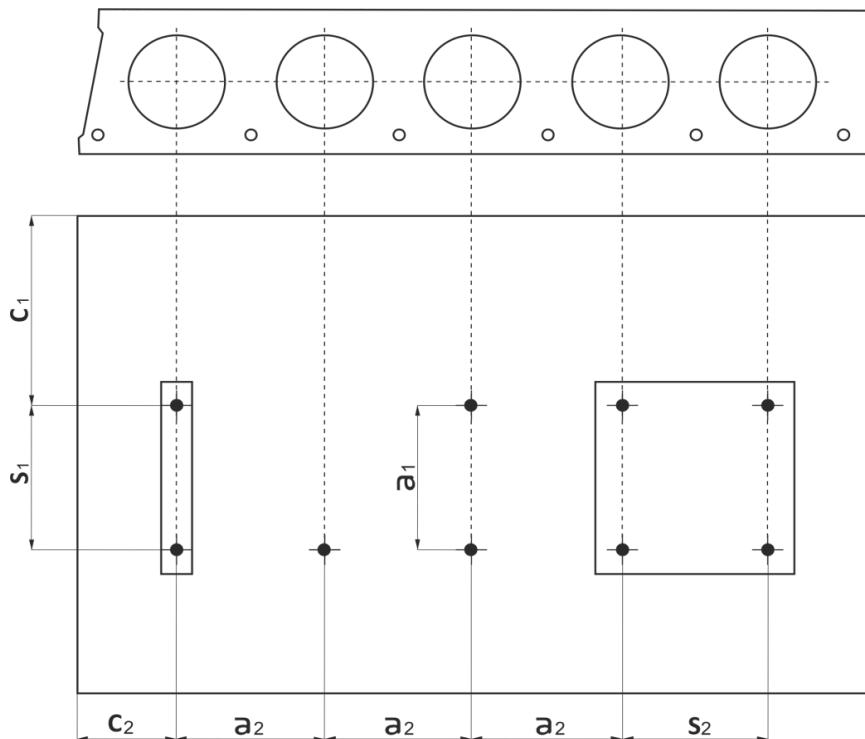
## Only for screw size 6

Technical values without fire exposure for prestressed hollow core slabs: TSM / TSM A4 / TSM HCR					
		TSM 6			
<b>TSM high performance screw size</b>					
<b>Bottom flange thickness</b>	$d_b$	[mm]	$\geq 25$	$\geq 30$	$\geq 35$
<b>Nominal borehole diameter</b>	$d_0$	[mm]		6	
<b>Depth of the drill hole</b>	$h_1$	$\geq$ [mm]	30	35	40
<b>Through-hole in fixture to be attached</b>	$d_f$	$\leq$ [mm]		8	
<b>Permissible loads<sup>1)</sup></b>	$F_{zul}$	[kN]	0,4	0,8	1,2
<b>Minimum edge distance</b>	$c_{min}$	[mm]		100	
<b>Minimum spacing</b>	$s_{min}$	[mm]		100	
<b>Minimum distance between anchor groups</b>	$a_{min}$	[mm]		100	
<b>Distance between hollow centres</b>	$l_c$	$\geq$ [mm]		100	
<b>Distance between prestressing wires</b>	$l_p$	$\geq$ [mm]		100	
<b>Distance between prestressing wires and borehole</b>	$a_p$	$\geq$ [mm]		50	
<b>Hollow thickness (w)</b>	(w/e)	$\leq$ [mm]			4,2
<b>Width of space (e)</b>					
<b>Installation torque</b>	$T_{inst}$	[Nm]		10	
<b>Max. Torque</b>		[Nm]		160	

1) The partial safety factor for material resistance from the approval  $\gamma_M = 1.5$  as well a partial safety factor for load actions  $\gamma_F = 1.4$  were considered for determining the load.

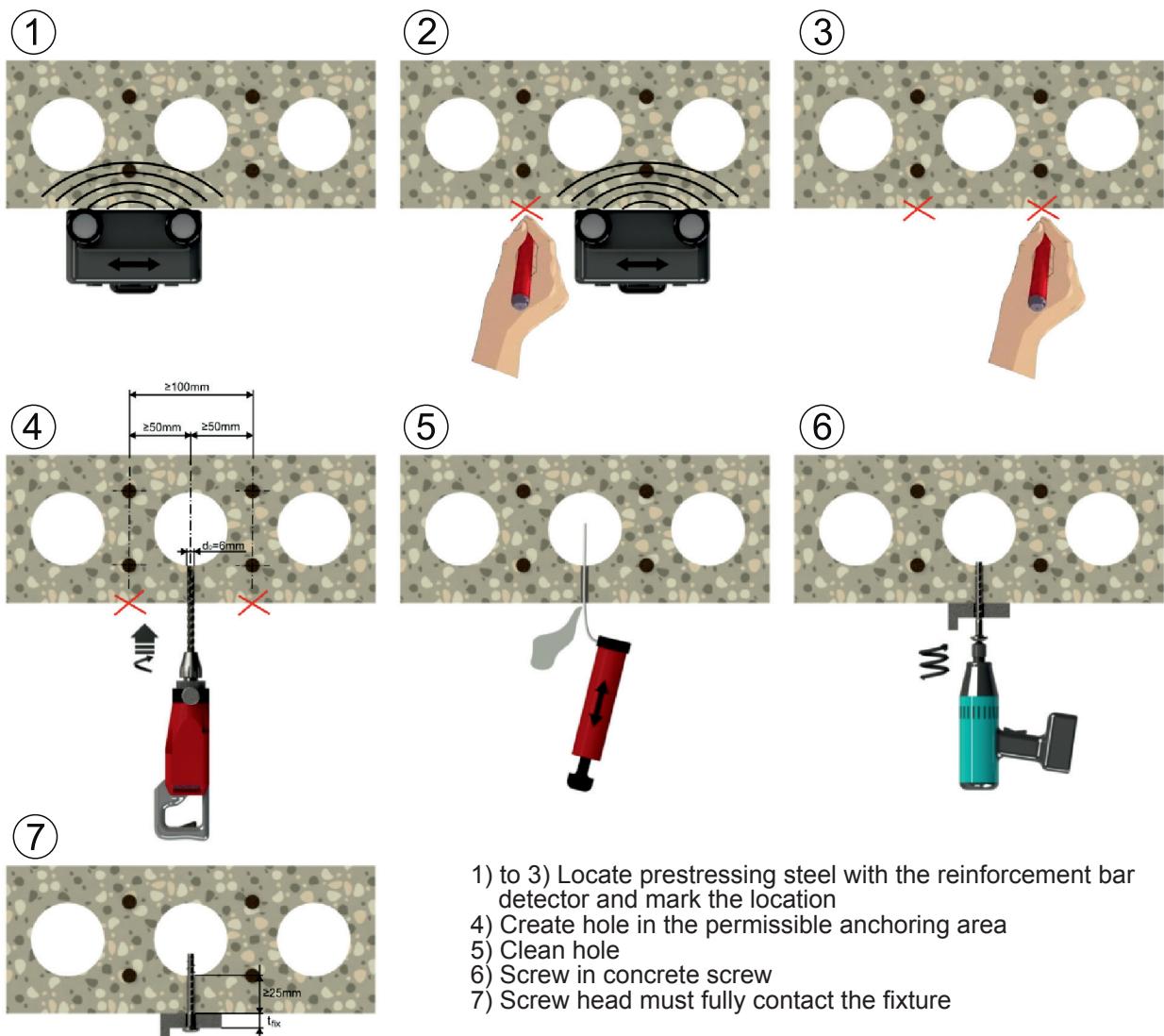


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## Installation notes



- 1) to 3) Locate prestressing steel with the reinforcement bar detector and mark the location
- 4) Create hole in the permissible anchoring area
- 5) Clean hole
- 6) Screw in concrete screw
- 7) Screw head must fully contact the fixture