

## Concrete screw FBS 4 and 5 zp

Recommended loads of a single anchor in normal concrete of strength class C20/25 until C50/60<sup>1)</sup>.

Type			FBS 4		FBS 5	
Borehole diameter	d <sub>0</sub>	[mm]	4	4	5	5
Screw-in depth	h <sub>nom</sub>	[mm]	30	35	35	45
Non-cracked concrete ≥ C20/25						
Recommended tension loads	N <sub>rec</sub>	[kN]	0.9	1.0	1.3	2.2
Recommended shear loads	V <sub>rec</sub>	[kN]	1.9	1.9	2.4	2.8
Cracked concrete ≥ C20/25 <sup>2)</sup>						
Recommended tension loads	N <sub>rec</sub>	[kN]	0.2	0.2	1.0	1.5
Recommended shear loads	V <sub>rec</sub>	[kN]	1.9	1.9	2.4	2.8
Installation Parameters						
Minimum concrete member thickness	h <sub>min</sub>	[mm]	80	80	80	80
Minimum spacing / for an edge distance of	s <sub>min</sub> / c	[mm]	25 / 25	35 / 55	35 / 55	35 / 65
Minimum edge distance / for a spacing of	c <sub>min</sub> / s	[mm]	25 / 25	35 / 55	35 / 55	35 / 65
Maximum installation torque	T <sub>inst,max</sub>	[Nm]	4	4	15	15
Maximum torque for impact screwdriver	T <sub>imp,max</sub>	[Nm]	65	65	65	65

<sup>1)</sup> Valid for zinc-plated concrete screws (zp) in uncracked or cracked concrete of classes C20/25 to C50/60. Avoid hitting reinforcements when drilling.

<sup>2)</sup> Valid for multiple fixings of non-load-bearing redundant systems in concrete. The partial safety factors for resistances and a partial safety factor for action of  $\gamma_f = 1.4$ , as specified in the values, are taken into account.