

Bolt anchor ICI

Load table

Permissible loads of a single anchor¹⁾ in normal concrete of strength class C20/25

For the design the complete current assessment ETA has to be considered.

Type	Material / surface ²⁾	Effective anchor- agedepth	Minimummember thickness	Installationtorque	Permissible Tension (Nperm), Shear loads (Vperm), minimum spacing (smin) and edge distances (cmin)			
		hef [mm]	hmin [mm]	Tinst [Nm]	Nrec3) [kN]	Vrec3) [kN]	smin3) [mm]	cmin3) [mm]
ICI 8	zp	35	100	25	4,5	4,1	35	35
	zp	45	100	25	4,5	4,1	35	35
ICI 10	zp	40	100	35	4,5	5,9	40	40
	zp	50	100	35	5,2	6,6	40	40
ICI 12	zp	50	140	60	5,7	9,6	50	50
	zp	70	140	60	9,5	9,6	50	50
ICI 16	zp	65	170	120	9,5	17,9	65	65
	zp	85	170	120	10,3	17,9	65	65
ICI 20	zp	80	200	200	13,4	28	80	80
	zp	100	200	200	19	28	80	80

¹⁾ Design according to EN 1992-4:2018 (for static resp. quasi-static loads). The partial safety factors for material resistance as regulated in the ETA as well as a partial safety factor for load actions of $\gamma_L = 1.4$ are considered. As a single anchor counts e.g. an anchor with a spacing $s \geq 3 \times \text{hef}$ and an edge distance $c \geq 1.5 \times \text{hef}$. Accurate data see ETA.

²⁾ Further steel grades, versions and technical data see ETA, e.g. for dry internal conditions, galvanised steel zp; for damp interior stainless steel R and exterior conditions, e.g. material 1.4362, 1.4401.

³⁾ In the case of combinations of tensile and shear loads, bending moments and reduced edge and axial spacings (anchor groups), the design must be carried out in accordance with the provisions of the complete ETA and the provisions of the EN 1992-4:2018. We recommend to use our anchor design software DesignFix.

Versatile heavy-duty sleeve anchor for high performance with a design appearance.