

LOADS

Hammerset anchor EA II (screw quality 8.8)

Highest permissible loads for a single anchor¹⁾ in concrete C20/25⁴⁾

For the design the complete approval ETA - 07/0135 has to be considered.

Type	Effective anchorage depth h_{ef} [mm]	Min. member thickness h_{min} [mm]	Maximum torque moment $T_{inst,max}$ [Nm]	Non-cracked concrete			
				Permissible tensile load $N_{perm}^{3)}$ [kN]	Permissible shear load $V_{perm}^{3)}$ [kN]	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
EA II M6 ⁵⁾	30	100	4,0	4,0	3,9	65	115
EA II M8 ⁵⁾	30	100	8,0	4,0	4,0	95	140
EA II M8 x 40	40	100	8,0	6,1	4,9	95	140
EA II M10 x 30 ⁵⁾	30	120	15,0	4,0	4,0	85	140
EA II M10	40	120	15,0	6,1	6,1	95	160
EA II M12	50	120	35,0	8,5	8,5	145	200
EA II M12D	50	120	35,0	8,5	8,5	145	200
EA II M16	65	160	60,0	12,6	18,3	180	240
EA II M20	80	200	120,0	17,2	29,1	190	280

¹⁾ The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of $\gamma_L = 1,4$ are considered. As an single anchor counts e.g. an anchor with a spacing $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1,5 \times h_{ef}$. Accurate data see approval.

²⁾ Minimum possible axial spacings resp. edge distance while reducing the permissible load.

³⁾ For combinations of tensile loads, shear loads, bending moments as well as reduced edge

distances or spacings (anchor groups) see approval.

⁴⁾ For higher concrete strength classes up to C50/60 higher permissible loads may be possible.

⁵⁾ Only for multiple use for non-structural applications.