

LOADS

Hammerset anchor EA II (screw property class 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]	Max. 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 M 6 x 30⁵⁾	30	80	4,0	4,0	3,9	65	115
EA II M 8 x 30⁵⁾	30	80	8,0	4,0	4,9	70	115
EA II M 8 x 40	40	80	8,0	6,1	4,9	70	115
EA II M 10 x 30⁵⁾	30	80	15,0	4,0	6,2	85	140
EA II M 10 x 40	40	80	15,0	6,1	6,2	95	150
EA II M 12 x 50	50	100	35,0	8,5	11,3	145	200
EA II M 12D x 50	50	100	35,0	8,5	15,4	145	200
EA II M 16 x 65	65	160	60,0	12,6	18,3	180	240
EA II M 20 x 80	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 $c \geq 1,5 \times h_{ef}$.

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.

LOADS

Hammerset anchor EA II A4 (screw property class A4-70)

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]	Max. 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 M 6 x 30 A4⁵⁾	30	80	4,0	4,0	3,2	65	115
EA II M 8 x 30 A4⁵⁾	30	80	8,0	4,0	5,6	70	115
EA II M 8 x 40 A4	40	80	8,0	6,1	5,6	70	115
EA II M 10 x 30 A4⁵⁾	30	80	15,0	4,0	6,9	85	140
EA II M 10 x 40 A4	40	80	15,0	6,1	7,1	95	150
EA II M 12 x 50 A4	50	100	35,0	8,5	12,9	145	200
EA II M 12 D x 50 A4	50	100	35,0	8,5	13,5	145	200
EA II M 16 x 65 A4	65	160	60,0	12,6	21,1	180	240
EA II M 20 x 80 A4	80	200	120,0	17,2	33,7	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 $c \geq 1,5 \times h_{ef}$.

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.