Loads

Hammerset anchor EA II

Permissible loads of a single anchor[1] in normal concrete of strength class C20/25.
For the design the complete current assessment ETA-07/0135 has to be considered.

| Type | Material/sur-face[2] | Screw material | Effective anchorage depth h_{ef} [mm] | Member thickness h_{req} [mm] | Maximum installation torque $T_{inst,max}$ [Nm] | Non-cracked concrete Permissible tension (N_{perm}) and shear loads (V_{perm}); minimum spacing (s_{min}) and edge distances (c_{min}) with reduced loads | | | |
						N_{perm}[3] [kN]	V_{perm}[3] [kN]	s_{min}[3] [mm]	c_{min}[3] [mm]
EA II M8 x 40	gvz	5.8	40	100	8	5.9	4.9	70	115
	gvz	8.8	40	100	8	5.9	4.9	70	115
	R	A4-70	40	100	8	5.9	5.6	70	115
EA II M10 x 40	gvz	5.8	40	120	15	5.9	6.2	95	150
	gvz	8.8	40	120	15	5.9	6.2	95	150
	R	A4-70	40	120	15	5.9	7.1	95	150
EA II M12 x 50	gvz	5.8	50	120	35	8.3	11.3	145	200
	gvz	8.8	50	120	35	8.3	11.3	145	200
	R	A4-70	50	120	35	8.3	12.9	145	200
EA II M16 x 65	gvz	5.8	65	160	60	12.3	18.3	180	240
	gvz	8.8	65	160	60	12.3	18.3	180	240
	R	A4-70	65	160	60	12.3	21.1	180	240
EA II M20 x 80	gvz	5.8	80	200	120	16.8	29.1	190	280
	gvz	8.8	80	200	120	16.8	29.1	190	280
	R	A4-70	80	200	120	16.8	33.5	190	280

[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 γ_L = 1.4 are considered. As a single anchor counts e.g. an anchor with a spacing s ≥ 3 x h_{ef} and an edge distance c ≥ 1.5 x h_{ef}. Accurate data see ETA.
[2] For technical data on steel grade and variants, see ETA.
[3] In the case of combinations of tension and shear loads, bending moments with reduced or minimum spacing and edge distances (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 using our anchor design software C-FIX.