Loads

Heavy-duty anchor TA M-T

Permissible loads of a single anchor[1] in normal concrete of strength class C20/25.
For the design the complete current assessmentt ETA-04/0003 has to be considered.

						Non-cracked concrete			
	Material/ surface[2]	Screw material	Effective anchorage depth	Minimum member thickness	Installation torque	Permissible tension (N_{perm}) and shear loads (V_{perm}); minimum spacing (s_{min}) and edge distances (c_{min}) with reduced loads			
Type			h_{ef} [mm]	h_{min} [mm]	T_{inst} [Nm]	N_{perm}[3] [kN]	V_{perm}[3] [kN]	s_{min}[3] [mm]	c_{min}[3] [mm]
TA M8 T	gvz	8.8	45	100	20	5.7	6.7	90	60
TA M10 T	gvz	8.8	55	110	40	9.5	11.0	110	70
TA M12 T	gvz	8.8	70	140	75	11.9	17.0	160	120

[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 $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1.5 \times h_{ef}$. 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.