Loads

Bolt anchor FWA Plus

Permissible loads of a single anchor¹ in normal concrete of strength class C20/25. For the design the complete assessment ETA-24/0714 of 2025.04.22 has to be considered.

					Non-cracked concrete			
	Material/ surface ²⁾	Effective anchorage depth	Minimum member thickness	Installation torque	Permissible tension (N $_{\rm m}$) and shear loads (V $_{\rm m}$); minimum spacing (s $_{\rm m}$) and edge distances (c $_{\rm m}$) with reduced loads			
		h	h _{min}	T	N ³⁾	V_perm 3)	S3) 	C 3)
Туре		[mm]	[mm]	[Nm]	[kN]	[kN]	[mm]	[mm]
FWA Plus 8	gvz	48	100	10	5.0	6.3	65	65
FWA Plus 10	gvz	50	120	15	6.6	8.3	95	95
FWA Plus 12	gvz	70	140	35	10.9	14.5	100	100
FWA Plus 16	gvz	84	170	110	13.8	17.1	115	115

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

²⁾ Steel material and technical data see ETA.

³⁾ In the case of combinations of tension and shear loads, bending moments, as well as reduced or minimum spacing and edge distances (anchor groups), the design must be carried out in accordance with the provisions of the full ETA and EN 1992-4:2018. We recommend using our anchor design software C-FIX.