



FBN II

Bolt anchor zinc plated

Application

- Fixing for use in non-cracked concrete

Key Features

- The long thread makes the FBN particularly suitable for stand-off installations.
- The FBN is simple to install due to the need for very few taps and minimal slippage.
- The drive-in pin protects the thread from damage. This saves time during installation and removal.

FBN II Anchors

Bolt anchor FBN II

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

For the design the complete approval ETA - 07/ 0211 has to be considered.

Type	Min. effective anchorage depth $h_{ef, min}$ [mm]	Max. effective anchorage depth $h_{ef, max}$ [mm]	Min. member thickness t_{min} [mm]	Installation torque T_{inst} [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]
FBN II 6 ⁵⁾		30	100	4,0	2,9	3,4	40	40
FBN II 8 ⁵⁾	30		100	15,0	2,9	7,1	40	40
		40	100	15,0	6,1	7,6	40	40
FBN II 10	40		100	30,0	6,1	12,0	50	80
		50	100	30,0	8,5	12,0	50	50
FBN II 12	50		100	50,0	8,5	17,9	70	10
		65	120	50,0	12,6	17,9	70	7
FBN II 16	65		120	100,0	12,6	29,0	90	120
		80	160	100,0	17,2	31,5	90	90
FBN II 20	80		160	200,0	17,2	38,3	120	120
		105	200	200,0	25,9	38,3	120	120

¹⁾ The partial safety factors for material resistance as regulated in the approval as well as 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 $s \geq 3 \times h$ 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 for distances or spacings (anchor groups) see approval.

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

⁵⁾ The anchorage depths smaller than 40mm are only allowed for multiple use for non-structural applications.



FBN II-A4

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