

LOADS

Nail anchor FNA II

Highest permissible loads¹⁾ for one fixing point⁵⁾ for multiple use for non-structural applications in concrete C20/25 up to C50/60⁴⁾. For the design the complete approval ETA - 06/0175 has to be considered.

Type	Effective anchorage depth h_{ef} [mm]	Min. member thickness h_{min} [mm]	Installation torque T_{inst} [Nm]	Cracked or Non-cracked concrete		
				Permissible load $F_{perm}^{3)}$ [kN]	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
FNA II 6 x 25	25	80	-	1,4	40	40
FNA II 6 x 30	30	80	-	2,4	40	40
FNA II 6 x 25 M6	25	80	4,0	1,4	40	40
FNA II 6 x 30 M6	30	80	4,0	2,4	40	40
FNA II 6 x 30 M8	30	80	4,0	2,4	40	40
FNA II 6 x 25 OE	25	80	-	0,7	40	40

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.

²⁾ Minimum possible axial spacings resp. edge distances. Smaller permissible loads acc. approval are required.

³⁾ Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

⁴⁾ Loads for concrete strength class C12/15 see approval.

⁵⁾ A fixing point is defined as a single anchor or a group of 2 or 4 anchors.

LOADS

Nail anchor FNA II A4

Highest permissible loads¹⁾ for one fixing point⁵⁾ for multiple use for non-structural applications in concrete C20/25 up to C50/60⁴⁾. For the design the complete approval ETA - 06/0175 has to be considered.

Type	Effective anchorage depth h_{ef} [mm]	Min. member thickness h_{min} [mm]	Installation torque T_{inst} [Nm]	Cracked or Non-cracked concrete		
				Permissible load	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
				$F_{perm}^{3)}$ [kN]		
FNA II 6 x 30 A4	30	80	-	2,4	40	40
FNA II 6 x 30 M6 A4	30	80	4,0	2,4	40	40

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.

²⁾ Minimum possible axial spacings resp. edge distances. Smaller permissible loads acc. approval are required.

³⁾ Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

⁴⁾ Loads for concrete strength class C12/15 see approval.

⁵⁾ A fixing point is defined as a single anchor or a group of 2 or 4 anchors.

LOADS

Nail anchor FNA II C

Highest permissible loads¹⁾ for one fixing point⁵⁾ for multiple use for non-structural applications in concrete C20/25 up to C50/60⁴⁾. For the design the complete approval ETA - 06/0175 has to be considered.

Type	Effective anchorage depth h_{ef} [mm]	Min. member thickness h_{min} [mm]	Installation torque T_{inst} [Nm]	Cracked or Non-cracked concrete		
				Permissible load	Min. spacing $s_{min}^{2)}$ [mm]	Min. edge distance $c_{min}^{2)}$ [mm]
				$F_{perm}^{3)}$ [kN]		
FNA II 6 x 30 C	30	80	-	2,4	40	40
FNA II 6 x 30 M6 C	30	80	4,0	2,4	40	40

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.

²⁾ Minimum possible axial spacings resp. edge distances. Smaller permissible loads acc. approval are required.

³⁾ Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

⁴⁾ Loads for concrete strength class C12/15 see approval.

⁵⁾ A fixing point is defined as a single anchor or a group of 2 or 4 anchors.