

The installation-friendly hammerset anchor for multiple fixings







Fire protection boards

VERSIONS

- Zinc-plated steel
- Stainless steel
- Highly corrosion-resistant steel

BUILDING MATERIALS

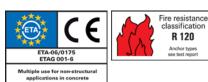
Approved for:

Concrete C12/15 to C50/60, crakked, for multiple fixings of non-structural applications

Also suitable for:

- Solid sand-lime brick
- Natural stone with dense structure
- Prestressed hollow-core concrete slabs

CERTIFICATES







R 120





ADVANTAGES

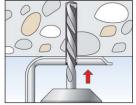
- The special active principle allows for a simple hammerset installation and, therefore, a short processing time.
- The extremely short anchor depth prevents reinforcement hits, and creates the conditions for a troublefree installation.
- The optimised expansion clip ensures hold when placing in the drill hole, and prevents it falling out during overhead installations.
- The massive shaft cross-section guarantees a high load-bearing capacity, thus offering an extremely high level of safety.
- A range of head shapes allows for the fixing of wide-ranging fixtures, and for the ideal adaptation to suit the intended use.

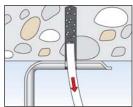
APPLICATIONS

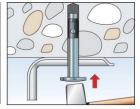
- Fire protection plates
- Fire protection boards
- Ventilation systems
- Wire and nonious hangers
- Mounting rails
- Metal clamps
- Substructures made of wood and

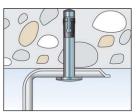
FUNCTIONING

- The FNA II with nail head is suitable for push-through installation. The FNA II M6 is suitable for pre-positioned and push-through installation. The FNA II OE and H are suitable for pre-positioned installation.
- The installed FNA II nail anchor expands automatically under load. The cone is pulled into the expansion clip and expands it against the drill hole wall.
- Available setting tools: FNA S-SBO to slip onto the drill, FNA S-SDS for series installation with a drilling hammer, FNA S-H for the manual installation of mounting rails.







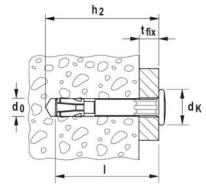


fischer solutions

TECHNICAL DATA



Nail anchor FNA II with nail head



	Zinc-plated steel	Stainless steel	Highly corrosion resistant steel	Approval	Drill hole diameter	Min. drill hole depth for through fixings	Anchor length	Max. fixture thickness	Head-Ø	Sales unit	
	ArtNo.	And No.	Aut No	ETA	d ₀	h2	[1	† fix	d _K	[neel	
Item	QVZ	ArtNo.	ArtNo.	EIA	[mm]	[mm]	[mm]	[mm]	[mm]	[pcs]	
FNA II 6 x 25/5	044121 1)	_	_		6	40	35	5	13.0	100	
FNA II 6 x 30/5	044115 1)	044122	_		6	45	40	5	13.0	100	
FNA II 6 x 30/5	_	_	044124		6	45	40	5	13.0	25	
FNA II 6 x 30/30	044116	044123	_		6	70	65	30	13.0	50	
FNA II 6 x 30/30	_	_	044125		6	70	65	30	13.0	25	
FNA II 6 x 30/50	044117	046024	500569		6	90	85	50	13.0	50	
FNA II 6 x 30/75	044118	_	500573 2)		6	115	110	75	13.0	50	
FNA II 6 x 30/100	044119	_	500574 3)		6	140	135	100	13.0	50	
FNA II 6 x 30/120	044120	_	500575 3)		6	160	155	120	13.0	50	

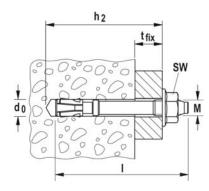
¹⁾ with hexagon below the nail head for anti-rotation lock of hole and wire hangers (for example) and centring for optional setting tool FNA-S

TECHNICAL DATA





Nail anchor **FNA II M6** with thread and flange nut



	Zinc-plated steel	Stainless steel	Highly corrosion resistant steel	Approval	Drill hole diameter	Min. drill hole depth for through fixings	Anchor length	Max. fixture thickness	Thread	Width across nut	Sales unit
			31661	¥	d ₀	h ₂	I	t fix	M	○ SW	
	ArtNo.	ArtNo.	ArtNo.	ETA	[mm]	[mm]	[mm]	[mm]		[mm]	[pcs]
Item	gvz	A4	C								
FNA II 6 x 25 M6/5	044111	_	-		6	40	45	5	M 6	10	100
FNA II 6 x 30 M6/5	044109	-	-		6	45	50	5	M 6	10	100
FNA II 6 x 30 M6/5	_	044112 2)	-		6	45	50	5	M 6	10	50
FNA II 6 x 30 M6/5	_	_	044113 2)		6	45	50	5	M 6	10	25
FNA II 6 x 30 M6 x 41	044110 1)	_	_		6	40	41	_	M 6	10	100
FNA II 6 x 30 M6/10	046022	_	-		6	45	55	10	M 6	10	100
FNA II 6 x 30 M8/5	044114	_	_		6	45	51	5	M 8	13	50

¹⁾ without nut; e.g. for fixing of pipe clamps

²⁾ On request.

³⁾ Delivery time on request.

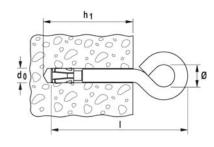
²⁾ with nut and washer (no flange nut)



TECHNICAL DATA

Nail anchor **FNA II-H** with hook

Nail anchor $\textbf{FNA} \ \textbf{II-OE}$ with eye



	Zinc-plated steel	Approval	Drill hole diameter	Anchor length	Min. drill hole depth	Inner diameter of the hook/eye	Sales unit	
	ArtNo.	ETA	[mm]	[mm]	[mm]	[Ø mm]	[pcs]	
Item	gvz							
FNA II 6 x 25 H	044126	-	6	54	35	10	50	
FNA II 6 x 25 OE	044127		6	54	35	10	50	

TECHNICAL DATA



Machine setting tool FNA S-SDS

Machine setting tool **FNA S-SBO** for mounting on the drill bit (drill-Ø 6mm)

Hand tool FNA S-H

				Sales unit	
Item	ArtNo.			[pcs]	
			The ideal setting tool for the serial installation with		
FNA S-SDS	061547	for all FNA II with nail head	SDS-plus adapter for driving in FNA II with nail head	1	
			using a hammer drill.		
FNA S-SBO	061548	for all FNA II with nail head	For a power saving and fast installation to be placed	1	
I MA 3-3DU		TOT ATT TWA IT WITH HAIT HEAU	on the drill.	'	
			E.g. for the fixing of installation of mounting rails.		
FNA S-H	095990	for FNA II with metric thread M6	Chuck with outer diameter of 15mm for the installati-	1	
			on of FNA II M6 by hand.		



LOADS

Nail anchor FNA II

zinc plated steel / stainless steel / high corrosion resistant steel

Highest permissible load	25 up to C50/60³).	Minimum spacings while reducing the load							
Туре	Material fixing element	Effective ancho- rage depth	Minimum member thick- ness	ember thick- moment		Required edge Required spaci distance for for		Min. spacing	Min. edge distance
		h.	h .	т.	E 2)	Max. Load c	Max. Load s	s . 5)	0 . 5)
		h _{ef}	h _{min}	T _{inst}	F _{perm} ²⁾	_	-	S _{min} ⁵⁾	c _{min} 5)
		[mm]	[mm]	[Nm]	[kN]	[mm]	[mm]	[mm]	[mm]
FNA II 6 x 25	gvz	25		=	1,4	100 for s ≥ 200	100 for c ≥ 200	40	
	gvz								
FNA II 6 x 30	A 4	30		-	2,4				
	С								
FNA II 6 x 25 M6	gvz	25	80	4	1,4				40
	gvz		00						
FNA II 6 x 30 M6	A 4	30		4	2,4				
	С								
FNA II 6 x 30 M8	gvz	30		4	2,4				
FNA II 6 x 25 OE	gvz	25		-	0,7				

For the design the complete approval ETA - 06/0175 has to be considered.

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. 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.

3) For concrete compressive strength C12/15 see approval.

⁴⁾ Multiple use is defined acc ETAG 001 Part 6 with min. 3 fixing points with min. one anchor per fixing point and a permissible load of 1.4 kN or min. 4 fixing points with min. one anchor an a permissible

⁵⁾ Minimum possible axial spacings resp. edge distances. Smaller permissible loads acc. approval are required.

⁶⁾ A fixing point is defined as a single anchor or a group of 2 or 4 anchor.