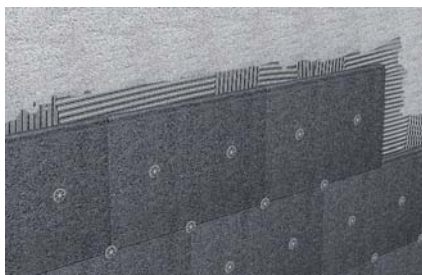


The pre-assembled drive anchor with innovative steel-plastic nail



Additional reinforcement of ETICS



Detail: innovative steel-plastic combination

BUILDING MATERIALS

- Building material classes A, B, C, D, E
- Concrete
- Full blocks made from concrete
- Building brick
- Solid sand-lime brick
- Hollow blocks made from lightweight concrete
- Vertically perforated brick
- Perforated sand-lime brick
- Lightweight aggregate concrete
- Aerated concrete

APPROVALS



ADVANTAGES

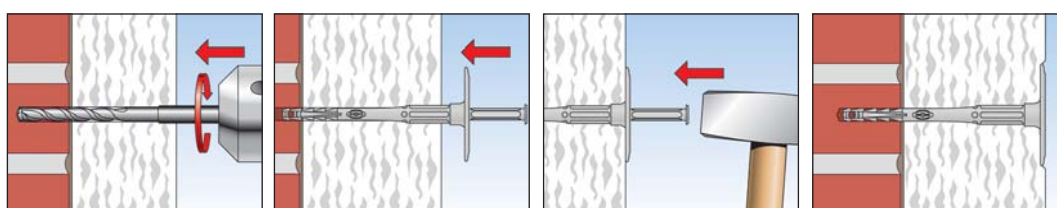
- To set with few hammer blows.
- The disc fits tight into the insulation thanks to its thickness of only 2.5 mm. Thus allows the application of low-cost, thin reinforcement layers.
- High retention forces thanks to the steel tip of the compound nail.
- Small anchoring depth of 35 mm saves on drilling times.
- The FIF-CN II 8 is virtually free of thermal bridging due to the compound nail.
- The compression zone in the shank allows the disc to be drawn in precisely.
- For insulating material thicknesses up to 340 mm.

APPLICATIONS

- Attachment of ETICS insulating boards on concrete and masonry
- Flush-to-surface installation in ETICS insulating materials and mineral wool e.g. polystyrene

FUNCTIONING

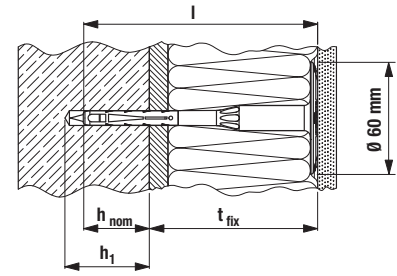
- The fixing is set in push-through installation.
- Simple, fast setting by driving the compound nail in using a standard hammer.
- Non load bearing layers such as adhesive and old plaster are included in the maximum useful length.



TECHNICAL DATA



Render fixing FIF-CN II 8



t_{fix} = thickness of insulation + glue + old render

For building material categorie A, B, C

Item	Art.-No.	Approval ETA	Drill hole diameter d_0 [mm]	Min. drill hole depth h_1 [mm]	Min. anchorage depth h_{nom} [mm]	Anchor length l [mm]	Max. fixture thickness t_{fix} [mm]	Disc Ø [mm]	Sales unit [pcs]
FIF-CN II 8/60	546443	■	8	45	35	108	70	60	100
FIF-CN II 8/80	546444	■	8	45	35	128	90	60	100
FIF-CN II 8/100	546445	■	8	45	35	148	110	60	100
FIF-CN II 8/120	546446	■	8	45	35	168	130	60	100
FIF-CN II 8/140	546447	■	8	45	35	188	150	60	100
FIF-CN II 8/160	546448	■	8	45	35	208	170	60	100
FIF-CN II 8/180	546449	■	8	45	35	228	190	60	100
FIF-CN II 8/200	546450	■	8	45	35	248	210	60	100
FIF-CN II 8/220	546451	■	8	45	35	268	230	60	100
FIF-CN II 8/240	546452	■	8	45	35	288	250	60	100
FIF-CN II 8/260	546453	■	8	45	35	308	270	60	100
FIF-CN II 8/280	546454	■	8	45	35	328	290	60	100
FIF-CN II 8/300	546455	■	8	45	35	348	310	60	100
FIF-CN II 8/320	546456	■	8	45	35	368	330	60	100
FIF-CN II 8/340	546457	■	8	45	35	388	350	60	100

For building material categorie D, E

Item	Art.-No.	Approval ETA	Drill hole diameter d_0 [mm]	Min. drill hole depth h_1 [mm]	Min. anchorage depth h_{nom} [mm]	Anchor length l [mm]	Max. fixture thickness t_{fix} [mm]	Disc Ø [mm]	Sales unit [pcs]
FIF-CN II 8/60	546443	■	8	65	55	108	50	60	100
FIF-CN II 8/80	546444	■	8	65	55	128	70	60	100
FIF-CN II 8/100	546445	■	8	65	55	148	90	60	100
FIF-CN II 8/120	546446	■	8	65	55	168	110	60	100
FIF-CN II 8/140	546447	■	8	65	55	188	130	60	100
FIF-CN II 8/160	546448	■	8	65	55	208	150	60	100
FIF-CN II 8/180	546449	■	8	65	55	228	170	60	100
FIF-CN II 8/200	546450	■	8	65	55	248	190	60	100
FIF-CN II 8/220	546451	■	8	65	55	268	210	60	100
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FIF-CN II 8/260	546453	■	8	65	55	308	250	60	100
FIF-CN II 8/280	546454	■	8	65	55	328	270	60	100
FIF-CN II 8/300	546455	■	8	65	55	348	290	60	100
FIF-CN II 8/320	546456	■	8	65	55	368	310	60	100
FIF-CN II 8/340	546457	■	8	65	55	388	330	60	100

LOADS

Render fixing FIF-CN II 8 3)

Highest permissible loads for a single anchor^{1) 4)} for fixing of external thermal insulation composite systems with rendering.
For the design the complete assessment ETA-18/0393 has to be considered.

Base material	Brick raw density ρ [kg/dm ³]	Minimum compressive brick strength f_b [N/mm ²]	Min. embedment depth h_{nom} [mm]	Min. member thickness h_{min} [mm]	Beton und Mauerwerk ⁵⁾		
					Permissible tensile load ³⁾	Minimum spacing ²⁾	Minimum edge distance ²⁾
					N_{perm} [kN]	s_{min} [mm]	c_{min} [mm]
Concrete according to EN 206-1:2000							
FIF-CN II 8	C12/15 - C50/60		35 ⁶⁾	100	0,25	100	100
Solid clay bricks Mz according to EN 771-1:2011							
FIF-CN II 8	≥ 2,0	12	35 ⁶⁾	100	0,25	100	100
Vertically perforated clay bricks HLz according to EN 771-1:2011							
FIF-CN II 8	≥ 1,0	12	35 ⁷⁾	100	0,17	100	100
Lightweight aggregate concrete LAC according to EN 1520:2011							
FIF-CN II 8	≥ 0,8	6	55 ⁶⁾	100	0,17	100	100
Autoclaved aerated concrete blocks AAC according to EN 771-4:2011							
FIF-CN II 8	≥ 0,5	4	55 ⁷⁾	100	0,10	100	100

¹⁾ The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of $\gamma_L = 1,5$ berücksichtigt.

²⁾ Possible minimum spacing resp. edge distance according to assessment.

³⁾ Plastic anchor for fixing of external thermal insulation composite systems with rendering according to ETAG014. Only tensile wind loads are permitted.

⁴⁾ The given loads are valid for installation and use of fixations in dry base material for temperatures in the substrate up to +24 °C (resp. short term up to +40 °C).

⁵⁾ Restrictions concerning the manufacturer and the permissible hole patterns as well as the web thickness see assessment.

⁶⁾ Drill method hammer drilling.

⁷⁾ Hammer drilling.