

The free thermal bridging ETICS hammerset fixing with GRP nail







BUILDING MATERIALS

- Building material classes A, B, C, D, E
- 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

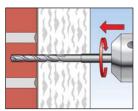
- To set with few hammer blows.
- The disc fits tight into the insulation thanks to its thickness of only 2.5 mm.
 Thus allows the application of lowcost, thin reinforcement layers.
- Optimised retention forces thanks to the glass fibre reinforced plastic nail (GRP)
- Small anchoring depth of 35 mm saves on drilling times.
- Thanks to the GRP nail, the fixing is free of thermal bridging with the Chi value 0.000 [W/K].
- The compression zone in the shank allows the disc to be drawn precisely into the insulation.
- Can be combined with the insulating discs DT 90, DT 110 and DT 140 for very soft insulating materials.
- For insulating material thicknesses up to 180 mm.

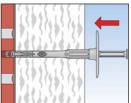
APPLICATIONS

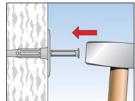
- Attachment of ETICS insulating boards on concrete and masonry
- Flush-to-surface installation in ETICS insulating materials and mineral wool e.g. polystyrene

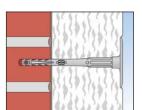
FUNCTIONING

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







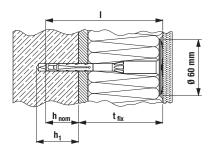


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TECHNICAL DATA





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

		Approval	Drill hole diameter	Min. drill hole depth h ₁	Effect. anchorage depth h _{nom}	Anchor length	Max. usable length t _{fix}	Disk Ø	Sales unit
Item	ArtNo.	ETA	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[pcs]
termoz PN 8/110	506325		8	45	35	108	70	60	100
termoz PN 8/130	506326		8	45	35	128	90	60	100
termoz PN 8/150	506327		8	45	35	148	110	60	100
termoz PN 8/170	506328		8	45	35	168	130	60	100
termoz PN 8/190	506329		8	45	35	188	150	60	100
termoz PN 8/210	506330		8	45	35	208	170	60	100
termoz PN 8/230	506331		8	45	35	228	190	60	100

for building material class D + E: h1 = 65 mm, hnom = 55 mm

LOADS

termoz PN 83)

Highest permissible loads for a single anchor^{1) 4)} for multiple use for non-structural applications. For the design the complete assessment ETA-09/0171 has to be considered.

					Concrete and masonry		
Туре	Brick raw density	min. compressive brick strength	min. embedment depth	min. member thickness	permissible tensile load ³⁾	min. spacing ²⁾	min. edge distance ²⁾
	ρ	f _b	h _{nom}	h _{min}	N _{perm}	s _{min}	c _{min}
	[kg/dm³]	[N/mm²]	[mm]	[mm]	[kN]	[mm]	[mm]
Concrete							
	C12	/15			0,17		
PN 8	C16/20		35 ⁶⁾	100	0,17	100	100
	C50	/60			0,17		
Solid Clay bricks e.g. acc. to	DIN 105-100:2	2012-01, EN 77	1-1:2011, Mz				
PN 8	≥ 2,0	12	355) 6)	100	0,20	100	100
Calcium silicate solid bricks	s, e.g. acc. to DI	N V 106:2005-	10, EN 771-2:20)11, KS			
PN 8	≥ 1,8	12	35 ^{5) 6)}	100	0,20	100	100
Vertically perforated clay b	ricks e.g. acc. t	o DIN 105-100:	2012-01, EN 77	1-1:2011, HLz			
PN 8	≥ 1,0	12	35 ^{5) 7)}	100	0,13	100	100
Hollow calcium silicate bric	k, acc. to DIN V	106:2005-10,	EN 771-2:2011	, KSL			
PN 8	≥ 1,4	12	35 ^{5) 6)}	100	0,13	100	100
Hollow brick light-weight co	oncrete, e.g. ac	c. to DIN V 181	53-100: 2005-1	O, EN 771-3:201	1 Hbl		
PN 8	≥ 1,2	10	35 ⁶⁾	100	0,17	100	100
Lightweight Aggregate Con	crete acc. to DI	N EN 1520, LAC	3				
PN 8	≥ 0,9	6	55 ^{5) 6)}	100	0,13	100	100
Autoclaved aerated concret	e blocks, e.g. A	AC acc. to DIN	V 4165-100:20	05-10, EN 771-4	ļ		
PN 8	≥ 0,5	4	55 ^{5) 7)}	100	0,10	100	100
TINU	≥ 0,6	6	55 ^{5) 7)}	100	0,13		

 $^{^{11}}$ The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of γ_L = 1,5 are considered.

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Minimum possible axial spacings resp. edge distances acc. assessment.

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

 $^{^{4)}}$ The given loads are valid for installation and use of fixations in dry masonry for temperatures in the substrate up to +24 $^{\circ}\text{C}$ (resp. short term up to 40 $^{\circ}\text{C}$).

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

⁶⁾ Hammer drilling

⁷⁾ Rotary drilling