The innovative countersinkable ETICS fixing for all building material classes
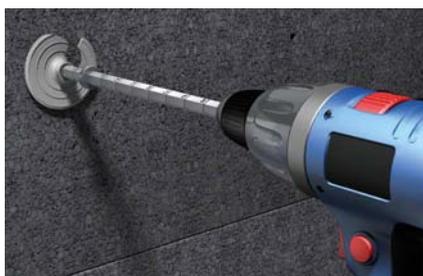
Setting procedure termoz SV II ecotwist in polystyrene rigid foam boards 032

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BUILDING MATERIALS

- Building material classes A, B, C, D, E
- Concrete
- Concrete (weather shell)
- Building brick
- Solid sand-lime brick
- Hollow blocks made from lightweight concrete
- Vertically perforated brick
- Perforated sand-lime brick
- Aerated concrete
- Lightweight aggregate concrete
- Sepa Parpaing (French brick)

APPROVALS

ETA-12/0208
ETAG 014
Use categories A, B, C, D, E

ADVANTAGES

- Standard anchoring depth for all building materials.
- One fixing for all insulating material thicknesses from 100 mm to 400 mm. This increases productivity, saves time and storage space.
- Sturdy setting tool with stop disc for a simple and precise setting procedure.
- The screw disc cuts in cleanly, without damaging the insulating material.
- Simple setting using the specially designed setting tool.

APPLICATIONS

- Attachment of ETICS polystyrene rigid foam boards and similar mineral wool boards to concrete and masonry materials
- Counterbored installation

FUNCTIONING

- The fixing is inserted through the insulating material into the drill hole and screwed in using the setting tool.
- The screwing disc and screw have the same pitch, which means they turn at the same time through the insulation until the anti-rotation lock meets the base.
- Then the steel screw turns into the expansion zone. The compression zone is compressed until it is only a few millimetres thick and the fixing is anchored in the base.
- The setting process is completed when the marking ring is flush with the insulation.

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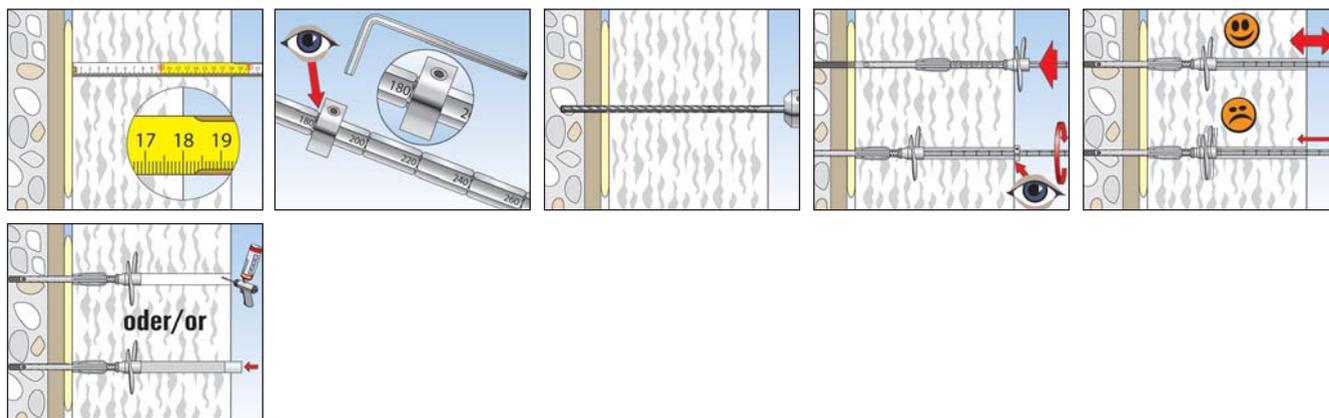
termoz **SV II ecotwist**
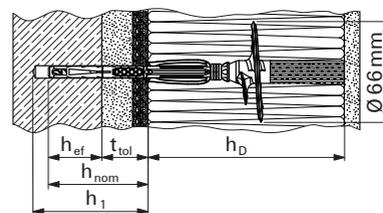
Item	Art.-No.	Approval ETA	Insulation thickness h_D [mm]	Shaft dia-meter [mm]	Thickness tolerance compensation t_{tol} [mm]	Effect. anchorage depth h_{ef} [mm]	Shaft length in drill hole h_{nom} [mm]	Drillhole depth in base material h_1 [mm]	Total drill hole depth [mm]	Sales unit [pcs]
termoz SV II ecotwist 0-10	**530353**	■	100 - 400	8	0 - 10	35	45	55	hD + 55	100
termoz SV II ecotwist 10-30	**530354**	■	100 - 400	8	0 - 30	35	65	75	hD + 75	100
termoz SV II ecotwist 30-60	**530355**	■	100 - 400	8	30 - 60	35	95	105	hD + 105	100

ACCESSORIES

termoz **SV II closing plug PS**

termoz **SV II Installation tool**

termoz **SV II closing plug MW**

Item	Art.-No.		Sales unit [pcs]
termoz SV II closing plug PS	**530654**		200
termoz SV II closing plug MW	**536160**		200
termoz SV II installation tool 260 mm	**530356**		1
termoz SV II installation tool 400 mm	**530357**		1

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LOADS

termoz SV II ecotwist [3]

Highest permissible loads for a single anchor [1] [4] for multiple use for non-structural applications.
For the design the complete approval ETA-12/0208 has to be considered.

	Brick raw density ρ [kg/dm³]	min. compressive brick strength f_b [N/mm²]	min. embedment depth h_{ef} [mm]	Min. member thickness h_{min} [mm]	Concrete and masonry		
					permissible tensile load [3] N_{perm} [kN]	min. spacing [2] s_{min} [mm]	min. edge distance [2] c_{min} [mm]
Concrete acc. EN 206:2013							
SV II ecotwist	$\geq$ C12/15		35 [6]	100	0,50	100	100
	$\geq$ C16/20			100	0,50	100	100
	C50/60			100	0,50	100	100
Weather shell, concrete							
SV II ecotwist	$\geq$ C20/25		35 [6]	40	0,30	100	100
Calcium silicate solid bricks, e.g. acc. to DIN V 106:2005-10, EN 771-2:2011, KS							
SV II ecotwist	$\geq$ 2	12	35 [5] [6]	100	0,40	100	100
	$\geq$ 2	20	35 [5] [6]	100	0,50	100	100
Solid Clay bricks e.g. acc. to DIN 105-100:2012-01, EN 771-1:2011, Mz							
SV II ecotwist	$\geq$ 1,8	12	35 [5] [6]	100	0,40	100	100
Solid concrete block, e.g. acc. to DIN V 18152-100:2005-10 EN 771-3:2011, Vbn							
SV II ecotwist	$\geq$ 2	12	35 [5] [6]	100	0,40	100	100
	$\geq$ 2	20	35 [5] [6]	100	0,50	100	100
Hollow calcium silicate brick, acc. to DIN V 106:2005-10, EN 771-2:2011, KSL							
SV II ecotwist	$\geq$ 1,4	12	35 [5] [6]	100	0,25	100	100
	$\geq$ 1,4	20	35 [5] [6]	100	0,40	100	100
Vertically perforated clay bricks e.g. acc. to DIN 105-100:2012-01, EN 771-1:2011, HLz							
SV II ecotwist	$\geq$ 1,0	12	35 [5] [7]	100	0,25	100	100
Solid lightweight concrete block, e.g. acc. to DIN V 18152-100:2005-10 EN 771-3:2011 Vbl							
SV II ecotwist	$\geq$ 1,4	8	35 [5] [6]	100	0,20	100	100
Hollow brick light-weight concrete, e.g. acc. to DIN V 18153-100: 2005-10, EN 771-3:2011 Hbl							
SV II ecotwist	$\geq$ 1,2	8	35 [5] [6]	100	0,30	100	100
	$\geq$ 1,2	10	35 [5] [6]	100	0,40	100	100
Lightweight Aggregate Concrete acc. to DIN EN 1520, LAC							
SV II ecotwist	$\geq$ 0,9	6	35 [6]	100	0,25	100	100
Autoclaved aerated concrete blocks, e.g. AAC acc. to DIN V 4165-100:2005-10, EN 771-4							
SV II ecotwist	$\geq$ 0,5	4	35 [7]	100	0,13	100	100

[1] The partial safety factors for material resistance as regulated in the approval as well as a partial safety factor for load actions of γ_F = 1,5 are considered.

[2] Minimum possible axial spacings resp. edge distances acc. approval.

[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 °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 approval.

[6] Hammer drilling

[7] Rotary drilling

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