

Catalogue Insulation fixings

CARCO







Foreword

Dear business partners,

for more than 75 years, the fischer Group of Companies has been synonymous with the highest levels of innovation and quality. In addition to plastic plugs, steel anchors and chemical fixing systems, our extensive product portfolio includes custom fastenings tailored to your applications. We also offer a wide range of EWI (external wall insulation) products and services. Our comprehensive EWI range allows you to innovatively and securely increase the energy efficiency of buildings while lowering maintenance costs and contributing to climate-neutral housing.

The advantages to you, our partners, are always our top priority, as our practical and custom EWI fixing solutions increase the efficiency and cost-effectiveness of installation, provide added safety and fulfil demanding structural requirements.

Our range includes insulation fixings for external thermal insulation composite systems (ETICS) and rear-ventilated rainscreen facades. We offer the best solutions with European Technical Assessments (ETAs) for various insulation materials and thicknesses, anchor substrates and fire protection and system requirements. Our extensive range further encompasses drive anchors and screw fixings as well as special anchorages and other innovative solutions to fasten insulation. Our installation elements and stand-off installation systems further allow fixtures to be securely fastened to ETICS with virtually no thermal bridging. Dear partners, the following pages of our new EWI catalogue provide an overview of our versatile range of products and services, allowing you to find the right ETICS and facade fastening solutions quickly and easily.

We hope you enjoy reading our new EWI catalogue and using our products and services.

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Andreas Voll CEO of the fischer Group of Companies



"Whoever chooses fischer receives more than a range of safe products. The aim is to always develop the best solutions for our customers across the globe."

Besides the innovative products, this predominantly concerns support that is focused on the customer, and services designed to improve customer benefit.

A brand and its promise to perform.

Continuous improvement

With the fischer ProzessSystem (fPS) we ensure that we are adapting and optimising our processes in line with customer requirements in a flexible manner and on a continuous basis.

Safety that connects. Decisive quality

We don't make any compromises when it comes to the safety of our products. A whole host of our products are distinguished by comprehensive, up-to-date and international approvals. The fischer product range is well-positioned in all sectors of fixing technology – Steel, Nylon and Chemical fixings. In awardwinning quality which continues to impress both professional clients and private customers with equal measure.





International approvals characterise many of our products.





Always on the pulse of time

At fischer, innovation is more than just the sum of the patents. We are open to new things and are prepared for change always with the aim of offering our customers the greatest possible benefits. Over the years, our own development and production sites have been developing numerous fixing solutions for the most wide-ranging applications. Be it new production procedures or materials, such as renewable raw materials: We are carrying out the research for your safety and will continue to do so in the future. This gives us such great flexibility that we can even develop tailor-made customer solutions. This power to innovate has seen fischer become a market leader in anchor technology and the fixing industry.

Our service to you

We are a reliable partner, one that will stand at your side and address your individual requirements with advice and action:

- Our products range from chemical systems to steel anchors through to plastic anchors.
- Competence and innovation through own research, development and production.
- Global presence and active sales service in over 100 countries.
- Qualified technical consulting for economical and compliant fastening solutions. Also on-site at the construction site requested.
- Training sessions, some with accreditation, at your premises or at the fischer academy.
- Design and construction software for demanding applications.

We take responsibility

Our active environment management policy means that we are helping to maintain an intact environment for our generation and for those that follow. The environment management policy at the Tumlingen site has been certified in line with DIN EN ISO 14001.

It fills us with particular pride that in 2020 we have received the most important and largest award in Europe in the field of sustainability: the German Sustainability Award - category large companies. This was in recognition of our holistic approach and the strategic anchoring of our sustainability management. With our greenline products we have launched the first range of fixings on the market that is based on renewable raw materials to more than 50%.





German Sustainability Award



German Green Brand Award



Plus X Award -

Sustainability



GreenLine assortment based on 50% regrowing raw materials



Lean & Green Management Award

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Innovations to inspire professionals.

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1 Selection guide

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Plug finder.

Plug finder			Installation type			Insulation material					
Product picture	Product description	Plate diame- ter [mm]	Flush with sur- face	Coun- ter- sunk	Deep coun- ter- sunk	Expand- ed poly- styrene (EPS)	Extruded poly- styrene (XPS)	Polyure- thane rigid foam (PUR)	Phenolic resin rigid foam (Resol)	Mineral wool	Wood fibre
Screw fixings for solid and hollow building materia	als										
	TermoZ CS II	60	•	•*	_						
	TermoZ CS II DT 110 V	110	_	•*	-						-
C	TermoZ SV II Ecotwist	66	_	-	•*						-
Screw fixings for wood and board materials											
	TermoZ 6H	60	•	•*	-						
	TermoFix 6H-NT	60	•	-	_						
	TermoFix B	60	•	-	-			CARGE		Career Career	(1999) (1999)
Hammerset fixings for solid and hollow building n	naterials										
	TermoZ CNplus	60	•	•*	-						
	TermoZ CN 8	60	•	-	_	(0550) (0550)	(050) (050)		10550 10590		(1990) (1990)
	TermoZ PN	60	•	-	-	(1980) (1980)					10550 10870

suitable
 suitable with compatible setting tool
 not suitable

Ceiling soff fire bar	its &	Building ma	iterial classes	3		·			Approval			
Ceiling soffits	Fire bar	A (Concrete)	B (Masonry from solid bricks)	C (Masonry from hollow or perforated bricks)	D (Light- weight aggregate concrete)	E (Aerated concrete)	Wood and panel building materials	Sheets	ETA	EPD		
•	•	•	•		•	•	_	_	•	•	18	
-	•	•	•	•	•	•	_	_	•	•	23	
-	-	•	•	•	•	•	_	_	•	•	26	
	1	1				1			(1	
-	-	-	-	-	-	-	•	-	-	•	32	
-	-	_	_	_	_	_	•	_	-	•	35	
-	-	-	-	-	-	-	-	•	-	•	38	
											40	
_	•	•	•	•		•	_	_	•		42	
-	-	•	•	•	•	•	-	-	•	•	47	
-	-	•	•	•	•	•	-	-	•	•	50	

Calculation of the correct plug dimension.

Screw fixing	gs			Hammerse	t fixings				
TermoZ CS II	TermoZ CS II DT 110 V	TermoFix 6H-NT	TermoZ 6H	TermoZ PN 8	TermoZ CN 8	e.g. 1: CS II in an- choring ground A-E	e.g. 2: CNplus in an- choring ground A-D	e.g. 3: CNplus in an- choring ground A-D	
	1								
Anchorage	depth (mm)						Anchorage	depth (mm)	
25 (A-E), optional 45 (E)	25 (A-E), optional 45 (E)	30 (Holz)	24 (Holz)	35 (A-D), 55 (E)	35 (A-D), 55 (E)	35 (A-D), 55 (E)	25	35	35
L									
Non-load-b e.g. New bu e.g. Refurbis	earing layer i ilding = 0 mm shment: Old p	n mm: ; laster = 30 m	m				0 New building	30 Old building	0 New building
			+				+	+	+
Adhesive la	yer in mm: ap	prox. 10mm (depending on u	nevenness)			10	10	10
			+				+	+	+
Insulation t	hickness in m	ı m; e.g. 140 m	Im				140	140	140
			=				=	=	=
Minimum d	imension to b	e selected					175	215	185
			\checkmark				\checkmark	\checkmark	\checkmark
Plug recom	mendation						TermoZ CS II 8/175	TermoZ CNplus 8/230	TermoZ CNplus 8/190

Screw fixings for solid and hollow building materials.



Insulation thicknesses: 60-420mm Installation: Flush with surface or countersunk Expansion element: Steel compound screw Chi value [W/K]: 0,000-0,002 Insulation thicknesses: 80-420mm Installation: countersunk Expansion element: Steel compound screw Chi value [W/K]: 0,000-0,002



Insulation thicknesses: 100-400mm Installation: Deep countersunk Expansion element: Steel screw Chi value [W/K]: 0,000 (>240mm)

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Screw fixings for wood and board materials



Insulation thicknesses: 40-280mm Installation: Flush with surface or countersunk Screw version: Steel screw gvz. or A2 Chi value [W/K]: 0,000-0,001 Insulation thicknesses: 30-280 Installation: Flush with surface Screw version: Steel screw gvz. Chi value [W/K]: 0,000 - 0,002



Insulation thicknesses: 40-160mm Installation: Flush with surface Screw version: Steel screw with Delta-Seal coating

Hammerset fixings for solid and hollow building materials



TermoZ CNplus The premium ETICS hammerset fixing with the option to be screwed in



TermoZ CN 8 The high-performance ETICS hammerset fixing with compound nail







Insulation thicknesses 60-340mm Installation: Flush with surface or countersunk Expansion element: Steel compound nail for 40% Steel content in the insulation material Chi value [W/K]: 0,000-0,0002 Insulation thicknesses: 60-340mm Installation: Flush with surface Expansion element: Steel compound nail Chi value [W/K]: 0,000-0,001



TermoZ PN 8 The thermal bridge-free ETICS hammerset fixing with GRP-nail

Certificates / Features



Insulation thicknesses: 60-180mm Installation: Flush with surface Expansion element: Plastic nail Chi value [W/K]: 0,000



2 Screw fixings for solid and hollow building materials

TermoZ CS II	18	
TermoZ CS II DT 110 V	23	
TermoZ SV II Ecotwist	26	

2

TermoZ CS II

The strong screw fixing for all insulation materials and substrates







Countersunk installation of polystyrene boards on concrete



TermoZ CS II at ceiling soffits

Applications

- Attachment of ETICS insulating boards
 on concrete and masonry
- Flush installation in all conventional insulation materials
- Countersunk installation of insulation materials such as polystyrene rigid foam panels and dense mineral wool panels
- Fixing of ETICS insulating boards for new buildings and energetic building renovations
- The screw fixing is also approved for fixing ETICS to ceiling soffits.

Certificates / Features



ETA-14/0372, for concrete, masonry, lightweigth aggregate concrete and autoclaved aerated concrete



Advantages

- Due to the steel compound screw of the TermoZ CS II, all facade insulations including the fire bar can be fastened securely.
- The setting tool is used to countersink the anchor optimally, resulting in an even plaster layer without anchor marks.
- Due to the special expansion zone of the anchor sleeve the TermoZ CS II is the first insulation anchor with an approval for hammer-drilled holes in vertically

perforated bricks.

- The plate design and the sleeve labeling allow correct and intuitive application.
- The closed plate does not allow dirt to be ejected and thus ensures a clean setting result.
- The special geometry of the underhead plate reduces the necessary insertion torque for convenient and fast installation.

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
- · Lightweight aggregate concrete
- · Aerated concrete

Functioning

- The fixing is pushed through the insulation into the drill hole and is screwed in. For ceiling soffits, the installation is carried out through the reinforcing layer and insulation.
- For countersunk mounting, the setting tool TermoZ CS is required.
- Optionally, the setting tool TermoZ CS can also be used for flush installation by turning the stopping disc.
- When using the setting tool, the installation is completed when the stopping disc is flush with the insulation panel.
- For countersunk mounting the anchor plate needs to be covered with a round cap.
- For a surface-flush setting, a round cap is not necessary.

Flush to surface installation with setting tool CS









Flush to surface installation with Bit TX30

Countersunk installation with setting tool CS













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Installation on ceiling soffits





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60 mm

_15 mm

2 Technical data

TermoZ CS II										
	-		4							
	C	1.1/2								
TermoZ CS II	TermoZ C	CS II 8/2	275-8/455							
		Ap- pro- val	Drill diameter	Effect. ancho- rage depth	Max. usable length at surface-flush installation	Min. total drill whole depth incl. insulation at surface flush installation	Max. usable length at countersunk installation	Min. total drill whole depth incl. insulation at countersunk installation	Drive	Sales unit
			d ₀	h _{ef}	t _{fix}	h	t _{fix}	h		
	Item no.	ETA	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[pcs]
Item										
TermoZ CS II 8/95	564146 ¹⁾	•	8	25	70	110	-	-	TX30	100
TermoZ CS II 8/115	564147	•	8	25	90	130	90	145	TX30	100
TermoZ CS II 8/135	559107	•	8	25	110	150	110	165	TX30	100
TermoZ CS II 8/155	559108	•	8	25	130	170	130	185	TX30	100
TermoZ CS II 8/175	559109	•	8	25	150	190	150	205	TX30	100
TermoZ CS II 8/195	559110	•	8	25	170	210	170	225	TX30	100
TermoZ CS II 8/215	559111	•	8	25	190	230	190	245	TX30	100
TermoZ CS II 8/235	559112	•	8	25	210	250	210	265	TX30	100
TermoZ CS II 8/255	559113	•	8	25	230	270	230	285	TX30	100
TermoZ CS II 8/275	564148	•	8	25	250	290	250	305	TX30	100
TermoZ CS II 8/295	564149	•	8	25	270	310	270	325	TX30	100
TermoZ CS II 8/315	564150	•	8	25	290	330	290	345	TX30	100
TermoZ CS II 8/335	564151	•	8	25	310	350	310	365	TX30	100
TermoZ CS II 8/355	564152	•	8	25	330	370	330	385	ТХ30	100
TermoZ CS II 8/375	564153	•	8	25	350	390	350	405	TX30	100
TermoZ CS II 8/395	566425	•	8	25	370	410	370	425	TX30	100
TermoZ CS II 8/415	566426	•	8	25	390	430	390	445	TX30	100
TermoZ CS II 8/435	566427	•	8	25	410	450	410	465	TX30	100
TermoZ CS II 8/455	566428	•	8	25	430	470	430	485	TX30	100

¹⁾ Not for countersunk installation.

Accessories

Accessories TermoZ CS II							
				-			
Round cap MW D63,5	Round cap PS D60	white I	Round cap PS D60 grey	Setting tool CS (hexagonal-adapter)	Setting tool CS (SDS-adapter)	DT 90, DT 110, D	Г 140
			Match			Contents	Sales unit
llan		ltem no.					[pcs]
Item		525654					10.0
Round cap PS 60 white		046172	-				100
Round cap PS 60 grov		544202	-				100
Sotting tool CS (boxegonal a	dantor)	522619	-			Including Bit TY20	100
Setting tool CS (ICXagonal-a		532610	_			Including Bit TX30	1
Bit TY30 CS 26 mm)	533761	- Setting tool CS			Including bit 17.50	1
		008880					100
DT 140		008800					100
DT 110		090745	-				100

2

Loads

TermoZ CS II

Permissible tension loads for a single anchor $^{\eta_{21}}$ for multiple use for non-structural applications. For the design the complete current assessment ETA-14/0372 has to be considered.

	Brick raw density	Minimum compres- sive brick strength	Effektive Veranke- rungstiefe	Depth of drill hole ³⁾	Minimum member thickness	Permissi- ble tension load ¹⁾	Minimum spacing ⁴⁾	Minimum edge distance ⁴⁾
	ρ	f _b	h _{ef} ≥	h _{1,Flush} / h _{1,CSK}	h _{min}	N _{perm}	S _{min}	C _{min}
Base material	[kg/dm ³]	[N/mm ²]	[mm]	[mm]	[mm]	[kN]	[mm]	[mm]
Concrete	-	≥ C12/15	25	40 / 55	100	0.50	100	100
	-	≤ C50/60	25	40 / 55	100	0.50	100	100
Weather resistant concrete shell	-	≥ C20/25	25	40 / 55	≥ 40	0.50	100	100
Solid clay bricks e.g. acc. to DIN EN 771-1:2015, Mz	≥ 1.8	20	25	40 / 55	100	0.50	100	100
Calcium silicate solid bricks, e.g. acc. to DIN EN 771-2:2015, KS	≥ 1.4	20	25	40 / 55	100	0.50	100	100
	≥ 1.4	12	25	40 / 55	100	0.50	100	100
Solid lightweight concrete block, e.g. acc. to DIN EN 771-3:2015, Vbl	≥ 1.4	8	25	40 / 55	100	0.40	100	100
Solid concrete block, e.g. acc. to DIN EN 771-3:2015, Vbn	≥ 2.0	20	25	40 / 55	100	0.50	100	100
	≥2.0	12	25	40 / 55	100	0.50	100	100
Vertically perforated clay bricks e.g. acc. to DIN EN 771-1:2015, HLz	≥ 0.9	12	25	40 / 55	100	0.22	100	100
	≥ 0.9	12	25	40 ⁵⁾ / 55 ⁵⁾	100	0.33	100	100
	≥ 1.6	48	25	40 / 55	100	0.50	100	100
	≥ 1.6	48	25	40 ⁵⁾ / 55 ⁵⁾	100	0.50	100	100
Hollow calcium silicate brick, acc. to DIN EN 771-2:2015, KSL	≥ 1.4	12	25	40 / 55	100	0.50	100	100
Hollow brick lightweight concrete, e.g. acc. to DIN EN 771-3:2015 Hbl	≥ 0.9	4	25	40 / 55	100	0.17	100	100
Hollow brick concrete, e.g. acc. to DIN EN 771-3:2015 Hbn	≥ 1.2	10	25	40 / 55	100	0.50	100	100
	≥ 1.2	8	25	40 / 55	100	0.50	100	100
	≥ 1.2	6	25	40 / 55	100	0.37	100	100
	≥ 1.2	4	25	40 / 55	100	0.25	100	100
Lightweight aggregate concrete acc. to DIN EN 1520:2011-6, LAC	≥ 0.9	6	25	40 / 55	100	0.50	100	100
	≥ 0.9	6	25	40 / 55	100	0.50	100	100
Autoclaved aerated concrete blocks, e.g. AAC acc. to DIN EN 771- 4:2015	≥ 0.5	4	25	40 ⁵⁾ / 55 ⁵⁾	100	0.22	100	100
	≥ 0.5	4	45	60 ⁵⁾ / 75 ⁵⁾	100	0.37	100	100

Beton und Mauerwerk

¹⁾ Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. to ETA data. Only tension wind loads are permitted. The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of $\gamma_{\rm L}$ = 1.5 are considered. ²¹ 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).

³⁾ Depth of the drilled hole to the deepest point for flush or countersunk installation. Drilling method Hammer drilling. For details on installation data, see ETA.

⁴⁾ Minimum possible axial spacing and edge distances acc. to ETA.

⁵⁾ Rotary drilling.

TermoZ CS II DT 110 V

The strong countersunk screw fixing for soft insulating boards





Fixing of mineral wool boards on concrete



Countersunk installation in mineral wool boards

Applications

 Countersunk installation of soft insulation materials such as mineral wool boards on concrete and masonry

Advantages

- Fastest installation due to pre-assembled 110 mm countersunk plate.
- The compound screw minimises thermal bridges, thus there are no anchor marks on the façade.
- The combination of the advantages of countersunk installation and additional plates achieves a homogeneous surface with higher pull-through values at the same time.
- The very thin plate edge provides an optimal fit to the insulation board and the application of thin reinforcement layers.

Building materials

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

- Due to the special expansion zone of the anchor sleeve the TermoZ CS II is the first insulation anchor with an approval for hammer-drilled holes in vertically perforated bricks.
- The closed plate does not allow dirt to be ejected and thus ensures a clean setting result.
- The special geometry of the underside of the plate reduces the necessary insertion torque for convenient and fast installation.

Functioning

- The fixing is set in push-through installation
- Simple, fast setting by driving the GRP plug in using a hammer. This drives the steel nail into the shank and the fixing becomes anchored in the base
- Non load bearing layers such as adhesive and old plaster are included in the maximum useful length

Certificates / Features



masonry, lightweigth aggregate concrete and autoclaved aerated concrete

Countersunk installation of TermoZ CS II DT 110 V with setting tool CS





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Technical data



TermoZ CS II DT 110 V 8/275-8/455

		Ap- pro- val	Drill diameter	Effect. anchorage depth	Max. usable length at countersunk installation	Min. total drill whole depth incl. insulation at countersunk ins- tallation	Drive	Sales unit
	14	ETA	d _o	h _{ef}	t _{fix}	h []		[mag]
Item	item no.	EIA	լտայ	լտայ	լտոյ	լտայ		[pcs]
TermoZ CS II 8/115 DT 110 V	564155	•	8	25	90	145	TX30	100
TermoZ CS II 8/135 DT 110 V	559411	•	8	25	110	165	TX30	100
TermoZ CS II 8/155 DT 110 V	559412	•	8	25	130	185	TX30	100
TermoZ CS II 8/175 DT 110 V	559413	•	8	25	150	205	TX30	100
TermoZ CS II 8/195 DT 110 V	559414	•	8	25	170	225	TX30	50
TermoZ CS II 8/215 DT 110 V	559415	•	8	25	190	245	TX30	50
TermoZ CS II 8/235 DT 110 V	559416	•	8	25	210	265	TX30	50
TermoZ CS II 8/255 DT 110 V	559417	•	8	25	230	285	TX30	50
TermoZ CS II 8/275 DT 110 V	564156	•	8	25	250	305	TX30	50
TermoZ CS II 8/295 DT 110 V	564157	•	8	25	270	325	TX30	50
TermoZ CS II 8/315 DT 110 V	564158	•	8	25	290	345	TX30	50
TermoZ CS II 8/335 DT 110 V	564159	•	8	25	310	365	TX30	50
TermoZ CS II 8/355 DT 110 V	564160	•	8	25	330	385	TX30	50
TermoZ CS II 8/375 DT 110 V	564161	•	8	25	350	405	TX30	50
TermoZ CS II 8/395 DT 110 V	566429	•	8	25	370	425	TX30	50
TermoZ CS II 8/415 DT 110 V	566430	•	8	25	390	445	TX30	50
TermoZ CS II 8/435 DT 110 V	566431	•	8	25	410	465	TX30	50
TermoZ CS II 8/455 DT 110 V	566432	•	8	25	430	485	TX30	50

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Accessories



		Match	Contents	Sales unit
	Item no.			[pcs]
Item				
Round cap MW 63,5	525654	-		100
Round cap PS 60 white	046173	-		100
Round cap PS 60 grey	544383	-		100
Setting tool CS (hexagonal-adapter)	532618	-	Including Bit TX30	1
Setting tool CS (SDS-adapter)	532619	-	Including Bit TX30	1
Bit TX30 CS 26 mm	533761	Setting tool CS		1

Loads

TermoZ CS II DT 110V

Permissible tension loads for a single anchor¹⁽²⁾ for multiple use for non-structural applications. For the design the complete current assessment ETA-14/0372 of 03.11.2023 has to be considered.

						Beton und M	Beton und Mauerwerk	
	Brick raw density	Minimum compres- sive brick strength	Effective anchorage depth	Depth of drill hole ³⁾	Minimum member thickness	Permissi- ble tension load ¹⁾	Minimum spacing ⁴⁾	Minimum edge distance ⁴⁾
	ρ	f _b	h _{ef} ≥	h _{1,CSK}	h _{min}	N _{perm}	S _{min}	C _{min}
Base material	[kg/dm ³]	[N/mm ²]	[mm]	[mm]	[mm]	[kN]	[mm]	[mm]
Concrete	-	≥ C12/15	25	55	100	0.50	100	100
	-	≤ C50/60	25	55	100	0.50	100	100
Weather resistant concrete shell	-	≥ C20/25	25	55	≥40	0.50	100	100
Solid clay bricks e.g. acc. to DIN EN 771-1:2015, Mz	≥ 1.8	20	25	55	100	0.50	100	100
Calcium silicate solid bricks, e.g. acc. to DIN EN 771-2:2015, KS	≥ 1.4	20	25	55	100	0.50	100	100
	≥ 1.4	12	25	55	100	0.50	100	100
Solid lightweight concrete block, e.g. acc. to DIN EN 771-3:2015, Vbl	≥ 1.4	8	25	55	100	0.40	100	100
Solid concrete block, e.g. acc. to DIN EN 771-3:2015, Vbn	≥ 2.0	20	25	55	100	0.50	100	100
	≥ 2.0	12	25	55	100	0.50	100	100
Vertically perforated clay bricks e.g. acc. to DIN EN 771-1:2015, HLz	≥ 0.9	12	25	55	100	0.22	100	100
	≥ 0.9	12	25	55 ⁵⁾	100	0.33	100	100
	≥ 1.6	48	25	55	100	0.50	100	100
	≥ 1.6	48	25	55 ⁵⁾	100	0.50	100	100
Hollow calcium silicate brick, acc. to DIN EN 771-2:2015, KSL	≥ 1.4	12	25	55	100	0.50	100	100
Hollow brick lightweight concrete, e.g. acc. to DIN EN 771-3:2015 Hbl	≥ 0.9	4	25	55	100	0.17	100	100
Hollow brick concrete, e.g. acc. to DIN EN 771-3:2015, Hbn	≥ 1.2	10	25	55	100	0.50	100	100
	≥ 1.2	8	25	55	100	0.50	100	100
	≥ 1.2	6	25	55	100	0.37	100	100
	≥ 1.2	4	25	55	100	0.25	100	100
Lightweight aggregate concrete acc. to DIN EN 1520:2011-6, LAC	≥ 0.9	4	25	55	100	0.32	100	100
	≥ 0.9	6	25	55	100	0.50	100	100
Autoclaved aerated concrete blocks acc. to DIN EN 771-4:2015, AAC	≥ 0.5	4	25	55 ⁵⁾	100	0.22	100	100
	≥ 0.5	4	45	755)	100	0.37	100	100

¹⁾ Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. to ETA data. Only tension wind loads are permitted. The partial safety factors for material

resistance as regulated in the assessment as well as a partial safety factor for load actions of γ_F = 1.5 are considered.

²⁾ 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). ³⁾ Depth of the drilled hole to the deepest point for flush or countersunk installation. Drilling method Hammer drilling. For details on installation data, see ETA.

⁴⁾ Minimum possible axial spacing and edge distances acc. to ETA.

5) Rotary drilling.

TermoZ SV II Ecotwist

The innovative countersinkable ETICS fixing for all building material classes





TermoZ SV II Ecotwist setting process with setting tool



Deep countersunk installation of polystyrene insulation boards on concrete

Applications

- Installation of EPS insulation and homogeneous mineral wool boards to concrete and masonry building materials
- Counterbored installation

Certificates / Features



and masonry

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.

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)

- 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.

Functioning

- The fixing is inserted through the insulating material into the drill hole and screwed in using the setting tool.
- The identical thread pitch of the steel screw and the plate guarantees an even drive.
- Then the steel screw turns into the expansion part. The compression part is compressed to the maximum and the fixing is anchored in the base material.
- The setting process is complete when the stop disc is flush with the insulation surface.

Installation TermoZ SV II Ecotwist





Technical data

TermoZ SV II Ecotwist

TermoZ SV II Ecotwist

		Ap- pro- val	Insulation thickness	Disc ø	Drill diameter	Thickness of tolerance compensation non-bearing layers	Effect. ancho- rage depth	Min. drill hole depth in the building material incl. non-bearing layers	Min. total drill hole incl. insulation and non-bearing layers	Sales unit
			h _D		d _o	t _{tol}	h _{ef}	h,	h	
	ltem no.	ETA	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[pcs]
Item										
TermoZ SV II Ecotwist 0-10	530353	•	100 - 400	66	8	0 - 10	35	55	hD + 55	100
TermoZ SV II Ecotwist 10-30	530354	•	100 - 400	66	8	10 - 30	35	75	hD + 75	100
TermoZ SV II Ecotwist 30-60	530355	•	100 - 400	66	8	30 - 60	35	105	hD + 105	100

Accessories

Accessories TermoZ SV II Ecotwist







Closing plug PS

Closing plug MW

Installation tool

		Diameter	Thickness	Sales unit
		d	S	
	ltem no.	[mm]	[mm]	[pcs]
Item				
TermoZ SV II closing plug PS	530654	15	40.0	200
TermoZ SV II closing plug MW	536160	15	40.0	200
TermoZ SV II installation tool 260 mm	530356	-	-	1
TermoZ SV II installation tool 400 mm	530357	-	-	1

Loads

TermoZ SV II Ecotwist

Permissible loads for a single anchor^{1J2]} for multiple use for non-structural applications. For the design the complete current assessment ETA-12/0208 of 18.10.2022 has to be considered.

	Brick raw density	Minimum compres- sive brick strength	Effective anchorage depth ³⁾	Minimum member thickness	Permis- sible tension load ¹⁾²⁾	Minimum spacing ⁴⁾	Minimum edge distance ⁴⁾
	ρ	f _b	h _{ef} ≥	h _{min}	N _{zul}	S _{min}	C _{min}
Base material	[kg/dm ³]	[N/mm ²]	[mm]	[mm]	[kN]	[mm]	[mm]
Concrete	-	≥ C12/15	35	100	0.50	100	100
	-	≤ C50/60	35	100	0.50	100	100
Weather resistant concrete shell	-	≥ C20/25	35	40	0.30	100	100
	-	≤ C50/60	35	40	0.30	100	100
Sand-lime solid brick acc. to EN 771-1:2011+A1:2015, KS	≥ 2.0	12	35	100	0.40	100	100
	≥ 2.0	20	35	100	0.50	100	100
Solid clay bricks acc. to EN 771-1:2011+A1:2015, Mz	≥ 1.8	12	35	100	0.40	100	100
Solid concrete block acc. to EN 771-3:2011+A1:2015, Vbn	≥ 2.0	12	35	100	0.40	100	100
	≥ 2.0	20	35	100	0.50	100	100
Vertically perforated sand-lime brick acc. to EN 771-2:2011+A1:2015, KSL	≥ 1.4	12	35 ⁵⁾	100	0.25	100	100
	≥ 1.4	20	35 ⁵⁾	100	0.40	100	100
Vertically perforated clay bricks acc. to EN 771-1:2011+A1:2015, HLz	≥ 1.0	12	35 ⁵⁾⁶⁾	100	0.25	100	100
Lightweight concrete solid block acc. to EN 771-3:2011+A1:2015, Vbl	≥ 1.4	8	35 ⁵⁾	100	0.20	100	100
Lightweight concrete hollow blocks acc. to EN 771-3:2011+A1:2015, Hbl	≥ 1.2	8	35 ⁵⁾	100	0.30	100	100
	≥ 1.2	10	355)	100	0.40	100	100
Lightweight aggregate concrete acc. to EN 1520:2011, LAC	≥ 0.9	6	35	100	0.25	100	100
Autoclaved aerated concrete blocks acc. to EN 771-4:2011+A1:2015, AAC	≥ 0.5	4	35 ⁶⁾	100	0.15	100	100

Concrete and masonry

¹⁾ Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. to ETA data. Only tension wind loads are permitted. The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of $\gamma_L = 1.5$ are considered. ²¹ 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).

³⁾ Drilling method Hammer drilling. For details on installation data, see ETA.

⁴⁾ Minimum possible axial spacing and edge distances acc. to ETA.

⁵⁾ Restrictions concerning the manufacturer and the permissible hole patterns, see ETA.

⁶⁾ Rotary drilling.



3 Screw fixings for wood and board materials

TermoZ 6H	32	
TermoFix 6H-NT	35	
TermoFix B	38	

3

TermoZ 6H

The efficient countersunk ETICS fixing for board materials





Fixing of polystyrene boards to a wooden substructure



Countersunk installation of polystyrene boards on OSB panels

Applications

- Attachment of ETICS insulating boards on wooden substructures.
- Flush installation in ETICS insulating materials e.g. polystyrene and mineral wool.
- Flush-to-surface installation in pressureresistant insulation boards.

Certificates / Features



Advantages

- The pre-assembled ETICS fixing guarantees safe fixing into the substrate.
- The special geometry under the head of the anchor roughens the surface during the setting process and provides a torque-reduced penetration into the insulation.
- · The use of the setting tool 6H enables a

Building materials

- · MDF boards
- · OSB boards
- Chipboard
- Gypsum fibreboard
- Solid wood

Versions

- · Galvanised screw (TX30)
- Stainless steel screw A2 (TX25)
- · Flush mounting with TX25 / TX30 bit

clean fixing. Optionally, the setting tool CS can be used in combination with the Bit TX30 / TX25 43,5mm.

- The minimum screw-in depth of 24 mm provides quick installation. Pre-drilling is not necessary.
- For insulating material thicknesses up to 300 mm.

Functioning

- The special setting tool 6H is used for countersunk installation. This setting tool enables a precise positioning and fast installation of the fixing. The countersunk hole is covered with a suitable insulation round cap which ensures a homogeneous surface.
- By rotating the disc of the setting tool 6H by 180°, it can be used for the flush to surface installation. This allows the exact positioning of the anchor plate on the insulation surface. The screw opening is covered by the closing plug.

Countersunk installation with setting tool 6H



Flush to surface installation with TX30 bit









3

Technical data

TermoZ 6H



Ap-Anchor length Disc ø Screw diameter Anchorage depth Max. usable length Max. usable length Sales unit proat surface-flush at countersunk val installation installation d h_{ef} L t_{fiv} t, Item no. DIBt [mm] [mm] [mm] [mm] [mm] [mm] [pcs] Item TermoZ 6H 60 548477¹⁾ • 60 60 6 24 30 100 _ TermoZ 6H 80 60 24 50 65 548478¹⁾ • 80 6 100 TermoZ 6H 100 60 6 24 70 85 548479¹⁾ • 100 100 60 24 90 105 TermoZ 6H 120 548480¹⁾ 100 • 120 6 60 6 24 110 125 TermoZ 6H 140 548481¹⁾ 100 • 140 60 TermoZ 6H 160 548482¹⁾ 160 6 24 130 145 100 60 24 TermoZ 6H 180 548483¹⁾ 180 6 150 165 100 • 60 TermoZ 6H 200 548484¹⁾ 200 6 24 170 185 100 60 6 24 100 TermoZ 6H 220 548485¹⁾ 220 190 205 • TermoZ 6H 240 60 24 210 225 548486¹⁾ 240 6 100 • TermoZ 6H 260 548487¹⁾ 260 60 6 24 230 245 100 • TermoZ 6H 280 548488¹⁾ 280 60 6 24 250 265 100 • TermoZ 6H 320 548490¹⁾ 320 60 6 24 290 305 100 • TermoZ 6H 120 A2 557162²⁾ 120 60 6 24 90 105 100 • TermoZ 6H 140 A2 557163²⁾ 140 60 6 24 110 125 100 • TermoZ 6H 160 A2 557164²⁾ 160 60 6 24 130 145 100 • TermoZ 6H 180 A2 557165²⁾ • 180 60 6 24 150 165 100 TermoZ 6H 200 A2 557166²⁾ 200 60 6 24 170 185 100 • 60 24 190 205 TermoZ 6H 220 A2 557167²⁾ • 220 6 100

¹⁾ Bit size = TX30

fischer 🗪 33

Accessories



Loads

TermoZ 6H

Permissible tension loads for a single anchor ij for multiple use for fixing external thermal insulation composite systems to external walls made of timber. For the designt the complete current national approval and general construction technique permit Z-9.1-887 has to be considered.

	Minimum strength class	Minimum raw density	Maximum screw-in depth ²⁾	Minimum screw-in depth ²⁾	Permissible load of the pull-out resistance
		ρ	I _{ef,max}	I _{ef,min}	F _{ax,90,perm}
Base material		[kg/dm ³]	[mm]	[mm]	[N]
Solid timber boards made of softwood acc. DIN EN 14081-1, DIN 20000-5	C24	-	-	24	840
Glued laminated timber acc. DIN EN 14080, DIN 20000-3	-	-	100	30	33 N/mm x I _{ef}
Glued laminated timber with solid wood lamellae acc. DIN EN 14080, DIN 20000-3 $$	C24	-	100	30	33 N/mm x I _{ef}
Cross-laminated timber made of soft wood	C24	-	100	30	33 N/mm x I _{ef}
Oriented strand boards of type OSB/3 and OSB/4 acc. DIN EN 13986, DIN 20000-1	-	550	60 ³⁾ / 30 ⁴⁾	12 ⁵⁾	373
	-	550	60 ³⁾ / 30 ⁴⁾	15 ⁵⁾	373
	-	550	60 ³⁾ / 30 ⁴⁾	18 ⁵⁾	467
Resin-bonded particleboards of at least type P5 acc. DIN EN 13986, DIN 20000-1	-	600	52 ³⁾ / 30 ⁴⁾	13 ⁵⁾	307
	-	600	52 ³⁾ / 30 ⁴⁾	16 ⁵⁾	420
	-	600	52 ³⁾ / 30 ⁴⁾	19 ⁵⁾	513

¹⁾ The partial safety factors for material resistance regulated in the approval and a partial safety factor for load actions $\gamma_1 = 1.5$ are taken into account.

²⁾ Embedment depth of the threaded part of the screws in timber product.

³⁾ For screws made of galvansed steel.

⁴⁾ For screws made of stainless steel.

 $^{\scriptscriptstyle 5)}$ Drilling tip must extend by at least 10 mm.

TermoFix 6H-NT

The ETICS screw fixing for board materials with approved screw





Fixing of polystyrene boards to OSB panels



Fixing of soft wood fibre boards on solid wood

Applications

- Attachment of ETICS insulating boards
 on wooden substructures
- Flush installation in ETICS insulating materials e.g. polystyrene
- Flush-to-surface installation in soft wood fibre boards

Certificates / Features



Advantages

- Pre-assembled fixing with the approved fischer screw. This guarantees safe retention in the substrate.
- The minimum screw-in depth of 30 mm guarantees fast installation.
- Closing plugs are enclosed in every packaging unit.
- · The fixing can be combined with the

Building materials

- · MDF boards
- · OSB boards
- · Chipboard
- Gypsum fibreboard
- · Solid wood

large insulating discs DT 90, DT 110 and DT 140 when very soft insulating materials are used.

- Countersunk installation by using the TSS setting tool is possible in soft materials such as polystyrene boards.
- For insulating material thicknesses up to 280 mm.

Functioning

- The fixing is screwed in by unsing a standard TX30 bit for flush installation.
- The TSS setting tool is required for countersunk installation. This is used for precise positioning and screwing in the fixing. The countersunk hole is covered with a suitable insulation round cap which ensures a homogeneous surface.
- The disc of the TSS setting tool can also be turned and used for flush-to-surface installation. This prevents the plate from being set too deep.

Countersunk installation with TSS setting tool



Flush to surface installation with TX30 bit





1 -



Technical data



TermoFix 6H-NT

		Anchor length	Disc ø	Screw diameter	Anchorage depth	Usable length at surface-flush installation	Effective length with recessed mounting	Sales unit
		L		d _s	h _{ef}	t _{fix}	t _{fix}	
	Item no.	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[pcs]
Item								
TermoFix 6H-NT 60	523198	60	60	6	30	30	-	100
TermoFix 6H-NT 80	523199	80	60	6	30	50	65	100
TermoFix 6H-NT 100	523200	100	60	6	30	70	85	100
TermoFix 6H-NT 120	523201	120	60	6	30	90	105	100
TermoFix 6H-NT 140	523202	140	60	6	30	110	125	100
TermoFix 6H-NT 160	523203	160	60	6	30	130	145	100
TermoFix 6H-NT 180	523204	180	60	6	30	150	165	100
TermoFix 6H-NT 200	523205	200	60	6	30	170	185	100
TermoFix 6H-NT 220	523206	220	60	6	30	190	205	100
TermoFix 6H-NT 240	523207	240	60	6	30	210	225	100
TermoFix 6H-NT 260	523208	260	60	6	30	230	245	100
TermoFix 6H-NT 280	523209	280	60	6	30	250	265	100
TermoFix 6H-NT 300	523210	300	60	6	30	270	285	100
TermoFix 6H-NT 320	523211	320	60	6	30	290	305	100
3

Accessories

Accessories for TermoFix 6	I-NT						
Round cap MW D63,5	Round ca	p PS D60 white	Round cap PS D60 grey	Round cap HW 65	Setting tool TSS		
		Contents				5	Sales unit
	ltem no.						[pcs]
ltem							
Round cap MW 63,5	525654						100
Round cap PS 60 white	046173						100
Round cap PS 60 grey	544383						100
Caps HW 65	562592						100
Setting tool TSS	524128	Including Bit TX30					1

Loads

TermoFix 6H-NT

Pull-out values from internal load tests

Base material	Member thickness	Recommended service load including safety factor 3
	h	Anchorage depth $h_v = 30 \text{ mm}$
	[mm]	[kN]
OSB panel	16	0.40
Chipboard FP (laminated particle board)	16	0.30
3 layer panel	19	0.50
Wooden beams	60	0.60 (1.0 kN at h _v = 40)
Gypsum fibreboard	12.5	0.15
MDF board	19	0,50

TermoFix B

The ETICS screw fixing with Delta Seal-coated drill screw for sheet metal subsurfaces





Mineral wool insulation boards on metal sheet

Applications

- Attachment of ETICS insulating boards to metal substructures
- Flush-to-surface installation in ETICS
 insulating materials e.g. polystyrene

Certificates / Features



- **Advantages**
- The prefitted screw shortens the processing time.
- Higher corrosion protection for the screw thanks to the Delta-Seal coating. This means security for years to come.
- An air column is created above the head by the locking ball. This reduces heat

Building materials

Metal sheet / trapezoidal metal sheet up to 1.5 mm

transmission.

- The flexible head offsets the thermally induced tensions and prevents damage.
- For very soft insulation materials the TermoFix B can be combined with the insulation discs DT 90, DT 110, DT 140.

Functioning

- The fixing fixing is set in push-through installation.
- A standard PH2 bit is required for installation.
- Simple, quick setting by screwing in the Delta Seal-coated screw with a standard screwdriver.
- Non-load bearing layers, such as adhesive are included in the maximum useful length.



TermoFix B										
TermoFix B	TermoFix	B disc								
		Anchor length	Anchorage depth	Max. fixture thickness	Disc ø	Sales unit				
		I	h _{ef}	t _{fix}						
	Item no.	[mm]	[mm]	[mm]	[mm]	[pcs]				
Item										
TermoFix B 70	008691	70	20	50	60	100				
TermoFix B 90	008692	90	20	70	60	100				
TermoFix B 110	008693	110	20	90	60	100				
TermoFix B 130	008694	130	20	110	60	100				
TermoFix B 160	008695	160	20	140	60	100				
TermoFix B 180	008696	180	20	160	60	100				
TermoFix B washer	534982	-	-	-	60	100				







4 Hammerset fixings for solid and hollow building materials

TermoZ CNplus	42	
TermoZ CN 8	47	(31+0 g
TermoZ PN 8	50	(100mm op

4

TermoZ CNplus

The premium ETICS hammerset fixing with the option to be screwed in





Flush hammerset installation



Fixing of polysterene boards on vertically perforated bricks.

Applications

- Installation of ETICS insulating boards on concrete and masonry
- Flush installation in ETICS insulating boards, e.g. polystyrene and mineral wool
- Countersunk installation in ETICS insulating boards, e.g. polystyrene and mineral wool, incl. a closing cap for covering

Certificates / Features



ETA-09/0394, in concrete and masonry

Advantages

- TermoZ CNplus is a hammerset anchor with the option to be screwed in. The plug is suitable for all building materials and insulation types. Due to the flexible use of the fixing the warehouses and ordering processes are reduced.
- If the anchor is set too deep with the hammer it can be simply adjusted with the screwdriver. This saves working time and helps to avoid fixing marks.
- With the screw installation the TermoZ CNplus can be set countersunk or flush.

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

- Moreover the screw installation enables an accurate setting due to an optimum application on the insulation surface. Also on soft insulation boards.
- The compound nail ensures a high energy efficiency with the countersunk installation, because there is nearly no heat transmission.
- The TermoZ CNplus is particularly sustainable as it can be dismantled at the end of its service life.
- · Can be combined with DT 90, 110, 140.

Functioning

- The plug is set in push-through installation.
- Simple, fast setting by hammering in the compound nail.
- The setting process with the screwdriver is performed flush with a standard Bit TX25.
- For countersunk installation the setting tool CNplus is required. The plate is covered with a round cap.
- The TermoZ CNplus is particularly sustainable as it can be dismantled at the end of the service life of the ETICS.
- Non-load bearing layers, such as adhesive and old plaster, are included in the maximum useful length.

Standard: Flush to surface hammerset installation









Standard: Flush to surface screw installation with TX25 bit









Standard: Countersunk screw installation with setting tool CNplus











4

Alternative: Flush to surface screw installation with setting tool CNplus













TermoZ CNplus for building material classes A, B, C

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TermoZ CNplus

		Ap- pro- val	Drill diameter	Effect. ancho- rage depth	Max. usable length at surface-flush installation	Min. total drill whole depth incl. insulation at surface flush installation	Max. usable length at countersunk installation	Min. total drill whole depth incl. insulation at countersunk installation	Drive	Sales unit
			d _o	h _{ef}	t _{fix}	h	t _{fix}	h		
	Item no.	ETA	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[pcs]
Item										
TermoZ CNplus 8/110	540376	•	8	35	70	115	-	-	TX25	100
TermoZ CNplus 8/130	540377	•	8	35	90	135	90	150	TX25	100
TermoZ CNplus 8/150	540378	•	8	35	110	155	110	170	TX25	100
TermoZ CNplus 8/170	540379	•	8	35	130	175	130	190	TX25	100
TermoZ CNplus 8/190	540380	•	8	35	150	195	150	210	TX25	100
TermoZ CNplus 8/210	540381	•	8	35	170	215	170	230	TX25	100
TermoZ CNplus 8/230	540382	•	8	35	190	235	190	250	TX25	100
TermoZ CNplus 8/250	540383	•	8	35	210	255	210	270	TX25	100
TermoZ CNplus 8/270	540384	•	8	35	230	275	230	290	TX25	100
TermoZ CNplus 8/290	540385	•	8	35	250	295	250	310	TX25	100
TermoZ CNplus 8/310	540386	•	8	35	270	315	270	330	TX25	100
TermoZ CNplus 8/330	540387	•	8	35	290	335	290	350	TX25	100
TermoZ CNplus 8/350	540388	•	8	35	310	355	310	370	TX25	100
TermoZ CNplus 8/370	540389	•	8	35	330	375	330	390	TX25	100
TermoZ CNplus 8/390	540390	•	8	35	350	395	350	410	TX25	100

Technical data

TermoZ CNplus for building material classes D, E

TermoZ CNplus

		Ap- pro- val	Drill diameter	Effect. ancho- rage depth	Max. usable length at surface-flush installation t _{fix}	Min. total drill whole depth incl. insulation at surface flush installation h	Max. usable length at countersunk installation t _{fix}	Min. total drill whole depth incl. insulation at countersunk installation h	Drive	Sales unit
Itom	Item no.	ETA	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[pcs]
Termo7 CNnlus 8/130	540377		8	55	70	135	70	150	TY25	100
TermoZ CNplus 8/150	540378		8	55	90	155	90	170	TX25	100
TermoZ CNplus 8/170	540370		8	55	110	175	110	100	TX25	100
TermoZ CNplus 8/190	540380		8	55	130	105	130	210	TX25	100
Termo7 CNnlus 8/210	540381		8	55	150	215	150	230	TX25	100
Termo7 CNnlus 8/230	540382		8	55	170	255	170	250	TX25	100
Termo7 CNnlus 8/250	540383		8	55	190	275	190	270	TX25	100
TermoZ CNnlus 8/270	540384		8	55	210	295	210	290	TX25	100
Termo7 CNnlus 8/290	540385		8	55	230	315	230	310	TX25	100
TermoZ CNnlus 8/310	540386	•	8	55	250	335	250	330	TX25	100
TermoZ CNnlus 8/330	540387	•	8	55	270	355	270	350	TX25	100
TermoZ CNplus 8/350	540388	•	8	55	290	375	290	370	TX25	100
TermoZ CNplus 8/370	540389	•	8	55	310	395	310	390	TX25	100

TermoZ CNplus f

TermoZ CNplus for building material classes D, E

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Tormo 7 CNipluo

lermoZ CNplus										
		Ap- pro- val	Drill diameter	Effect. ancho- rage depth	Max. usable length at surface-flush installation	Min. total drill whole depth incl. insulation at surface flush installation	Max. usable length at countersunk installation	Min. total drill whole depth incl. insulation at countersunk installation	Drive	Sales unit
			d _o	h _{ef}	t _{fix}	h	t _{rix}	h		
	ltem no.	ETA	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[pcs]
Item										
TermoZ CNplus 8/390	540390	•	8	55	330	415	330	410	TX25	100

Accessories

Accessories for TermoZ CNp	olus						
Round cap MW D63,5	Round ca	p PS D60 white	Round cap PS D60 grey	Setting tool CNplus (SDS-adapter)	Setting tool CNplu (hexagonal-adapt	is Bit TX25 CNplus 2	26 mm
		Match				Contents	Sales unit
	ltem no.						[pcs]
Item							
Round cap MW 63,5	525654	-					100
Round cap PS 60 white	046173	-					100
Round cap PS 60 grey	544383	-					100
Setting tool CNplus (SDS-adapter)	544123	-				Including Bit TX25	1
Setting tool CNplus (hexagonal-adapter)	544259	-				Including Bit TX25	1
Bit TX25 CNplus 26 mm	540251	Setting tool CNplu	S				1

Loads

Termoz CNplus 8

Permissible tensile loads⁽¹²⁾ for fixing external thermal insulation composite systems with rendering. For the design the complete current assessment ETA-09/0394 of 18.10.2022 has to be considered.

					Concrete and	masonry	
	Brick raw density	Minimum compressive brick strength	Effective anchorage depth ³⁾	Minimum member thickness	Permissible tension load ¹⁾²⁾	Minimum spacing ⁴⁾	Minimum edge distance ⁴⁾
	ρ	f _b	h _{ef}	h _{min}	N _{perm}	S _{min}	C _{min}
Base material	[kg/dm ³]	[N/mm ²]	[mm]	[mm]	[kN]	[mm]	[mm]
Concrete	-	≥ C12/15	≥ 35	100	0.30	100	100
	-	≤ C50/60	≥ 35	100	0.30	100	100
Weather resistant concrete shell	-	≥ C20/25	≥ 35	42	0.30	100	100
	-	≤C50/60	≥ 35	42	0.30	100	100
Sand-lime solid brick acc. to EN 771-1:2011+A1:2015, KS	≥1.8	20	≥ 35	100	0.30	100	100
Solid clay bricks acc. to EN 771-1:2011+A1:2015, Mz	≥ 1.8	20	≥ 35	100	0.30	100	100
Solid concrete block acc. to EN 771-3:2011+A1:2015, Vbn	≥ 2.0	20	≥ 35	100	0.30	100	100
Vertically perforated sand-lime brick acc. to EN 771-2:2011+A1:2015, KSL	≥ 1.4	16	≥ 355)	100	0.17	100	100
Vertically perforated clay bricks acc. to EN 771-1:2011+A1:2015, HLz	≥ 1.0	48	≥ 35 ^{5) 6)}	100	0.25	100	100
	≥ 1.6	12	≥ 35 ^{5) 6)}	100	0.17	100	100
Lightweight concrete solid block acc. to EN 771-3:2011+A1:2015, Vbl	≥ 1.6	10	≥ 355)	100	0.25	100	100
Lightweight concrete hollow blocks acc. to EN 771-3:2011+A1:2015, Hbl	≥ 1.2	10	≥ 35	100	0.20	100	100
Lightweight aggregate concrete acc. to EN 1520:2011, LAC	≥ 0.9	6	≥ 55	100	0.13	100	100
Autoclaved aerated concrete blocks acc. to EN 771-4:2011+A1:2015, AAC	≥ 0.4	4	≥ 556)	100	0.10	100	100

¹⁾ Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. to ETA data. Only tension wind loads are permitted. The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of $\gamma_L = 1.5$ are considered. ²⁾ 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). ³⁾ Drilling method Hammer drilling. For details on installation data, see ETA.

⁴⁾ Minimum possible axial spacing and edge distances acc. to ETA.

⁵⁾ Restrictions concerning the manufacturer and the permissible hole patterns, see ETA.

6) Rotary drilling.

TermoZ CN 8

The high-performance ETICS hammerset fixing with compound nail





ETICS on old render



Detail: innovative steel-plastic combination

Applications

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

Advantages

- $\cdot~$ 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.

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

- The TermoZ CN is free of thermal bridging due to the compound nail.
- The compression zone in the shank allows the disc to be drawn in precisely.
- 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 340 mm.

Functioning

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

Installation TermoZ CN 8



fischer 🗪 47

Certificates / Features



ETA-09/0394, in concrete and masonry



4

Termoz CN 8

a

TermoZ CN 8

		Ap-	Drill diameter	Effect. anchorage depth	Max. usable length	Min. total drill whole depth	Sales unit
		pro-				incl. insulation	
		vai					
			d _o	n _{ef}	t _{fix}	n 	
	Item no.	ETA	[mm]	[mm]	[mm]	[mm]	[pcs]
Item							
TermoZ CN 8/110	507418	•	8	35	70	115	100
TermoZ CN 8/130	507419	•	8	35	90	135	100
TermoZ CN 8/150	507420	•	8	35	110	155	100
TermoZ CN 8/170	507421	•	8	35	130	175	100
TermoZ CN 8/190	507422	•	8	35	150	195	100
TermoZ CN 8/210	507423	•	8	35	170	215	100
TermoZ CN 8/230	507424	•	8	35	190	235	100
TermoZ CN 8/250	507425	•	8	35	210	255	100
TermoZ CN 8/270	507426	•	8	35	230	275	100
TermoZ CN 8/290	507427	•	8	35	250	295	100
TermoZ CN 8/310	507428	•	8	35	270	315	100
TermoZ CN 8/330	507429	•	8	35	290	335	100
TermoZ CN 8/350	507430	•	8	35	310	355	100
TermoZ CN 8/370	507431	•	8	35	330	375	100
TermoZ CN 8/390	507432	•	8	35	350	395	100
TermoZ CN 8/250 R	520546	•	8	35	210	255	100
TermoZ CN 8/270 R	520547	•	8	35	230	275	100
TermoZ CN 8/290 R	520548	•	8	35	250	295	100
TermoZ CN 8/310 R	520549	•	8	35	270	315	100

Termoz CN 8

Permissible tensile loads $^{\scriptscriptstyle (2)}$ for fixing external thermal insulation composite systems with rendering. For the design the complete current assessment ETA-09/0394 of 18.10.2022 has to be considered.

Brick raw densityMinimum compressive brick strengthEffective anchorage optick strengthMinimum schorage optick strengthPermissible schorage optick strengthMinimum schorage optick strengthPermissible schorage optick strengthMinimum schorage optick strengthPermissible schorage optick strengthMinimum schorage optick strengthPermissible schorageMinimum spacing*Minimum schorage optick strengthBase material ρ (kg/dm³) f_b (M/mm²) h_{ef} (m) h_{min} (m) N_{pem} (kN) S_{min} (m) C_{min} Concrete -2 -2 $< 212/15$ < 352 < 30.0 < 30.0 < 10.0 < 10.0 Sand-line solid brick acc. to EN 771-1:2011+A1:2015, MZ < 2.0 < 2.0 $< 35^{51}$ < 10.0 $< 0.30.0$ < 10.0 < 10.0 Solid clay bricks acc. to EN 771-1:2011+A1:2015, KS < 2.0 < 2.0 $< 35^{51}$ < 10.0 $< 0.25.0$ < 10.0 Solid clay bricks acc. to EN 771-1:2011+A1:2015, KS < 2.0 < 2.0 $< 35^{51}$ < 10.0 < 0.0 < 10.0 Vertically perforated sand-line brick acc. to EN 771-2:2011+A1:2015, KS < 14.0 < 2.0 $< 35^{51}$ < 10.0 < 0.0 < 10.0 Vertically perforated sand-line brick acc. to EN 771-2:2011+A1:2015, KS < 14.0 < 2.0 $< 2.5^{51}$ < 10.0 < 0.0 < 10.0						Concrete and	masonry	
p f f h		Brick raw density	Minimum compressive brick strength	Effective anchorage depth ³⁾	Minimum member thickness	Permissible tension load ¹⁾²⁾	Minimum spacing ⁴⁾	Minimum edge distance ⁴⁾
Base material [kg/dm³] [N/mm²] [mm] [kN] [mm]		ρ	f _b	h _{ef}	h _{min}	N _{perm}	S _{min}	C _{min}
Concrete - ≥ C12/15 ≥ 35 100 0.30 100 100 - ≤ C50/60 ≥ 35 100 0.30 100 100 Sand-lime solid brick acc. to EN 771-1:2011+A1:2015, KS ≥ 1.8 12 ≥ 35 ⁵ 100 0.30 100 100 Solid clay bricks acc. to EN 771-1:2011+A1:2015, Mz ≥ 2.0 12 ≥ 35 ⁵ 100 0.30 100 100 Solid concrete block acc. to EN 771-3:2011+A1:2015, Vbn ≥ 2.0 20 ≥ 35 ⁵ 100 0.25 100 100 Vertically perforated sand-lime brick acc. to EN 771-2:2011+A1:2015, KSL ≥ 1.4 12 ≥ 35 ⁵ 100 0.7 100 100	Base material	[kg/dm ³]	[N/mm ²]	[mm]	[mm]	[kN]	[mm]	[mm]
- ≤ C50/60 ≥ 35 100 0.30 100 100 Sand-line solid brick acc. to EN 771-1:2011+A1:2015, KS ≥ 1.8 12 ≥ 35 ⁵ 100 0.30 100 100 Solid clay bricks acc. to EN 771-1:2011+A1:2015, Mz ≥ 2.0 12 ≥ 35 ⁵ 100 0.30 100 100 Solid concrete block acc. to EN 771-3:2011+A1:2015, Vbn ≥ 2.0 20 ≥ 35 ⁵ 100 0.25 100 100 Vertically perforated sand-lime brick acc. to EN 771-2:2011+A1:2015, KSL ≥ 1.4 12 ≥ 35 ⁵ 100 0.7 100 100	Concrete	-	≥ C12/15	≥ 35	100	0.30	100	100
Sand-line solid brick acc. to EN 771-1:2011+A1:2015, KS ≥ 1.8 12 ≥ 35 ⁵ 100 0.30 100 100 Solid clay bricks acc. to EN 771-1:2011+A1:2015, Mz ≥ 2.0 12 ≥ 35 ⁵ 100 0.30 100 100 Solid concrete block acc. to EN 771-3:2011+A1:2015, Vbn ≥ 2.0 20 ≥ 35 ⁵ 100 0.25 100 100 Vertically perforated sand-line brick acc. to EN 771-2:2011+A1:2015, KSL ≥ 1.4 12 ≥ 35 ⁵ 100 0.17 100 100		-	≤ C50/60	≥ 35	100	0.30	100	100
Solid clay bricks acc. to EN 771-1:2011+A1:2015, Mz ≥ 2.0 12 ≥ 35 ⁵ 100 0.30 100 100 Solid concrete block acc. to EN 771-3:2011+A1:2015, Vbn ≥ 2.0 20 ≥ 35 ⁵ 100 0.25 100 100 Vertically perforated sand-lime brick acc. to EN 771-2:2011+A1:2015, KSL ≥ 1.4 12 ≥ 35 ⁵ 100 0.17 100 100 > 14 20 > 35 ⁵ 100 0.75 100 100	Sand-lime solid brick acc. to EN 771-1:2011+A1:2015, KS	≥ 1.8	12	≥ 355)	100	0.30	100	100
Solid concrete block acc. to EN 771-3:2011+A1:2015, Vbn ≥ 2.0 20 ≥ 35 ⁵ 100 0.25 100 100 Vertically perforated sand-line brick acc. to EN 771-2:2011+A1:2015, KSL ≥ 1.4 12 ≥ 35 ⁵ 100 0.17 100 100 > 1.4 20 > 35 ⁵ 100 0.75 100 100	Solid clay bricks acc. to EN 771-1:2011+A1:2015, Mz	≥ 2.0	12	≥ 35 ⁵⁾	100	0.30	100	100
Vertically perforated sand-lime brick acc. to EN 771-2:2011+A1:2015, KSL ≥ 1.4 12 ≥ 35 ⁵ 100 0.17 100 100 > 1.4 20 > 35 ⁵ 100 0.25 100 100	Solid concrete block acc. to EN 771-3:2011+A1:2015, Vbn	≥ 2.0	20	≥ 355)	100	0.25	100	100
>14 20 > 35 ⁵ 100 0.25 100 100	Vertically perforated sand-lime brick acc. to EN 771-2:2011+A1:2015, KSL	≥ 1.4	12	≥ 355)	100	0.17	100	100
2.0 2.0 100 0.23 100 100		≥ 1.4	20	≥ 35 ⁵⁾	100	0.25	100	100
Vertically perforated clay bricks acc. to EN 771-1:2011+A1:2015, HLz ≥ 1.0 12 ≥ 35 ^{5/6} 100 0.20 100 100	Vertically perforated clay bricks acc. to EN 771-1:2011+A1:2015, HLz	≥ 1.0	12	≥ 35 ⁵⁾⁶⁾	100	0.20	100	100
Lightweight concrete solid block acc. to EN 771-3:2011+A1:2015, Vbl ≥ 1.4 8 ≥ 35 ⁵ 100 0.20 100 100	Lightweight concrete solid block acc. to EN 771-3:2011+A1:2015, Vbl	≥ 1.4	8	≥ 355)	100	0.20	100	100
Lightweight concrete hollow blocks acc. to EN 771-3:2011+A1:2015, Hbl ≥ 1.2 10 ≥ 35 ⁵ 100 0.20 100 100	Lightweight concrete hollow blocks acc. to EN 771-3:2011+A1:2015, Hbl	≥ 1.2	10	≥ 35 ⁵⁾	100	0.20	100	100
Lightweight aggregate concrete acc. to EN 1520:2011, LAC ≥ 0.8 4 ≥ 35 ⁵ 100 0.13 100 100	Lightweight aggregate concrete acc. to EN 1520:2011, LAC	≥ 0.8	4	≥ 355)	100	0.13	100	100
≥ 0.8 6 ≥ 35 ⁵⁾ 100 0.20 100 100		≥ 0.8	6	≥ 355)	100	0.20	100	100
Autoclaved aerated concrete blocks acc. to EN 771-4:2011+A1:2015, AAC ≥ 0.4 4 ≥ 55 ⁶ 100 0.10 100 100	Autoclaved aerated concrete blocks acc. to EN 771-4:2011+A1:2015, AAC	≥ 0.4	4	≥ 55 ⁶⁾	100	0.10	100	100
≥ 0.6 6 ≥ 55 ⁶⁾ 100 0.10 100 100		≥ 0.6	6	≥ 55 ⁶⁾	100	0.10	100	100

Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. to ETA data. Only tension wind loads are permitted. 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.
 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).
 Drilling method Hammer drilling. For details on installation data, see ETA.

⁴⁾ Minimum possible axial spacing and edge distances acc. to ETA.

⁵⁾ Restrictions concerning the manufacturer and the permissible hole patterns, see ETA.

6) Rotary drilling.

TermoZ PN 8

The thermal bridge-free ETICS hammerset fixing with GRP-nail





Application in EPS boards



Setting the hammerset fixing on EPS boards

Applications

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

Certificates / Features



ETA-09/0171, in concrete and masonry

Advantages

- Due to the special geometry of the fixing, small drill hole depths are possible.
- The crumble zone allows an exact washer penetration.
- The asymmetric expansion element ensures a perfect anchoring even in hollow and problem substrates.
- The innovative shank and the special geometry of the nylon nail minimize the

Building materials

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

failure tendency significant particularly in full substrates.

- The washer thickness of only 2.5 mm allows thin and economic reinforcement layers.
- Due to the nylon nail the TermoZ PN provides no thermal bridging.
- Can be combined with insulation retaining washers DT 90, 110 and 140 mm.

Functioning

- Hammerset fixing for the mounting of ETIC-Systems with insulation boards in concrete and masonry.
- By hammering in the pre-assembled GRP nail with a hammer the fastener will be fixed in the substrate.
- Non load bearing layers such as adhesives and old render are to be included in the required useful length.

Installation TermoZ PN 8



d, 60 mm h h

Technical data

TermoZ PN 8

Termoz PN 8

	_	Ap- pro- val	Drill diameter	Effect. anchorage depth	Max. usable length t _{fix}	Min. total drill whole depth incl. insulation h	Sales unit
	Item no.	ETA	[mm]	[mm]	[mm]	[mm]	[pcs]
Item							
TermoZ PN 8/110	506325	•	8	35	70	115	100
TermoZ PN 8/130	506326	•	8	35	90	135	100
TermoZ PN 8/150	506327	•	8	35	110	155	100
TermoZ PN 8/170	506328	•	8	35	130	175	100
TermoZ PN 8/190	506329	•	8	35	150	195	100
TermoZ PN 8/210	506330	•	8	35	170	215	100
TermoZ PN 8/230	506331	•	8	35	190	235	100

Loads

TermoZ PN 8

Permissible tensile loads^{1/2)} for fixing external thermal insulation composite systems with rendering. For the design the complete current assessment ETA-09/0171 of 18.10.2022 has to be considered.

					Concrete and	masonry	
	Brick raw density	Minimum compressive brick strength	Effective anchorage depth ³⁾	Minimum member thickness	Permissible tension load ¹⁾²⁾	Minimum spacing ⁴⁾	Minimum edge distance ⁴⁾
	ρ	f _b	h _{ef}	h _{min}	N _{perm}	S _{min}	C _{min}
Base material	[kg/dm ³]	[N/mm ²]	[mm]	[mm]	[kN]	[mm]	[mm]
Concrete	-	≥ C12/15	≥ 35	100	0.16	100	100
	-	≤ C50/60	≥ 35	100	0.16	100	100
Sand-lime solid brick acc. to EN 771-1:2011+A1:2015, KS	≥1.8	12	≥ 355)	100	0.20	100	100
Solid clay bricks acc. to EN 771-1:2011+A1:2015, Mz	≥ 2.0	12	≥ 35 ⁵⁾	100	0.20	100	100
Vertically perforated sand-lime brick acc. to EN 771-2:2011+A1:2015, KSL	≥ 1.4	12	≥ 355)	100	0.13	100	100
Vertically perforated clay bricks acc. to EN 771-1:2011+A1:2015, HLz	≥ 1.0	12	$\geq 35^{(5)}$	100	0.13	100	100
Lightweight concrete hollow blocks acc. to EN 771-3:2011+A1:2015, Hbl	≥ 1.2	10	≥ 35 ⁵⁾	100	0.16	100	100
Lightweight aggregate concrete acc. to EN 1520:2011, LAC	≥ 0.9	6	≥ 555)	100	0.13	100	100
Autoclaved aerated concrete blocks acc. to EN 771-4:2011+A1:2015, AAC	≥ 0.5	4	≥ 55 ⁶⁾	100	0.10	100	100
	≥ 0.6	6	≥ 55 ⁶⁾	100	0.13	100	100

¹ Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. to ETA data. Only tension wind loads are permitted. The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of $\gamma_L = 1.5$ are considered. ² 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). ³ Drilling method Hammer drilling. For details on installation data, see ETA.

⁴⁾ Minimum possible axial spacing and edge distances acc. to ETA.

⁵⁾ Restrictions concerning the manufacturer and the permissible hole patterns, see ETA.

6) Rotary drilling.

4



5 Discs

Additional plate DT	54	000
TermoFix H	55	-
Insulation discs	56	.

5

Additional plate DT

The plate for combination with TermoZ, FIF and TermoFix screw fixings







Use of additional DT plates for fastening mineral wool insulation boards



Flush installed ETICS fixings in combination DT plates on mineral wool boards.

Applications

- Used in combination with TermoZ, FIF and TermoFix anchors to fix ETICS insulating boards with low compressive strength.
- Flush to surface installation in ETICS insulation materials e.g. mineral wool.

Advantages

 The various plate diameters allow for individual adaptation to various insulation materials and requirements and offer the greatest flexibility with wide-ranging applications.

Functioning

- The discs are set in push-through installation.
- Push the selected DT insulating disc onto the TermoZ, FIF or TermoFix fixing and install the fixing.

Technical data



DT 90, DT 110, DT 140

		Through hole	Sales unit
		d _r	
	ltem no.	[mm]	[pcs]
Item			
DT 90	008889	16	100
DT 110	090745	16	100
DT 140	008690	16	100

TermoFix H

The plate element for use with standard screws



Applications

• Fixing of ETICS insulation boards with standard screws



Wood fibre boards on wooden constructions

Advantages

- · Closing plugs for the bit hole in the TermoFix H10 plate are included.
- The plate elements TermoFix H 50, 90 and 150 are sealed by using the sealing cap moulded on.
- An air column is produced between the screw head and sealing cap. This redu-

Building materials

- · Panel building materials
- Solid wood

ces thermal-transmission losses.

- Extremely economical thanks to different shank lengths. This allows the screw length to be reduced if necessary.
- Can be combined with the insulating discs DT 90, DT 110 and DT 140.

Functioning

- The fixing (disc and screw) is set in pushthrough installation.
- Non-load-bearing layers such as adhesive and old plaster should not serve as an anchoring base.

Technical data

TermoFix H							
-	V						
TermoFix H 10	TermoFix	H 50 TermoFix H	90	TermoFix H 15	i0		
		Shaft length	Disc ø		Sealing	Colour	Sales unit
		L					
	ltem no.	[mm]	[mm]		[dN·m]		[pcs]
Item							
TermoFix H 10	514288	29	60		PS plug (included)	green	200
TermoFix H 50	514289	69	60		Sealing cap (moulded on)	green	200
TermoFix H 90	514290	109	60		Sealing cap (moulded on)	green	200
TermoFix H 150	514291	169	60		Sealing cap (moulded on)	green	200

Insulation discs

Discs for combination with nail and frame fixings, as well as screws





Insulating materials in double- shell facades

Applications

- To fix soft and pressure-resistant insulation materials.
- DT90/4 on 4 mm remedial wall tie
- DT60/10, DTM60/10 and DTM70/10 in combination with 10 mm frame fixing
- DT90/8 and insulation washer 8/60 in combination with 8 mm frame or nail fixings
- HV and HK 36 with 5 mm screws

Advantages

- The various disc diameters allow for individual adaptation to various insulation materials and requirements and offer the greatest flexibility with wide-ranging applications.
- The flexible pins in the DT 90 ensure sustained pressure on the insulation, thus

providing a secure hold.

 The DTM 60 made of stainless steel A4 makes it possible to use a frame fixing and allows for a secure fixing of the insulation material in façade construction in cases of high requirements.

Functioning

- The disc size is to be selected in line with the compressive strength of the insulating material.
- To be combined with anchors, screws or nails corresponding to the available base material.

DT 90/4

DT 90/8

DTM 80

DTM 80 A2

Insulation discs HK 36 plastic HV 36 ISO-Disc 8/60 DT 60/10 DT 90/4 DT 90 DTM 80 DTM 80 A2 Disc ø Disc height Through hole Steel sheet thickness Sales unit Appro-val $\mathbf{d}_{\mathbf{f}}$ S ltem no. DIBt [mm] [mm] [mm] [mm] [pcs] Item HK 36 plastic 004283 -36 4.5 5 100 _ 0.7 HV 36 zinc 004286 36 3.5 5 100 _ -3.5 5 HA 36 st. st. A4 004285 36 _ 100 ISO-disk 8/60 8 001680 -60 7.0 100 _ -10 DT 60/10 60 7.0 044317 _ 50

9.3

9.3

3.6

3.6

4

8.5

11

11

_

_

0.5

0.5

80 ¹⁾ The central hole is adapted in such a way that the disc fits onto the 4 mm wire of a remedial wall tie

90

90

80

-

-

•

•

0809571)

080958

536261

536271

5

250

250

250

250



6 Others

INSULATION SUPPORT			OTHERS		
Insulation support DHK	60		Hammerfix N	87	
Insulation support DHM	63		Spacer disk DAD	91	S.
			1c adhesive foam PUP ETICS 750	93	
RENOVATION / STRENGTHENING			1c Premium gun foam PUP B1 750	95	
Remedial wall tie mechanical VBS-M	65		PU foam dispenser PUP K2 Plus	97	
Weather facing reconstruction system FWS II	67		PU foam dispenser PUP M3	98	
			PU foam dispenser PUP M4 BLACK	99	
FASTENINGS ON THE ETICS			PU-cleaner	100	Recharge and the second s
Insulation plug FID II	70		Flex MS	102	
Insulation plug FID II Plus	72		High Tack MS	103	
Insulation fixing FID-R	76	-	Dispenser KPM 3	104	
Insulation screw FID-Z	78		Dispenser KPM 2	105	
Stand-off installation TherMax 12	80	annes;			

ACCESSORIES

Hammer drill bit Quattric II S / Quattric II	106	600101010107 <u> </u>
Masonry drill bit Pointer U	110	

Insulation support DHK / DHK 45

The cost-effective plastic insulation support for all conventional insulating boards





Insulation fixing in the ventilated facade

Applications

To fix soft and pressure-resistant insulating materials in rear-ventilated façades, such as:

- Mineral wool
- · PU panels
- · Light building boards made of wood wool
- · Cork boards / coir matting
- · Polystyrene
- · Foam glass tiles

Advantages

- The optimised geometry of the expansion section ensures a low anchorage depth and reduces the amount of drilling required.
- The flexible DHK plate adapt to the insulating material, and ensures a sustained contact pressure.
- The simple hammerset installation allows for a quick installation process and thus reduces workload.
- The colouring of the DHK means that it does not stand out on black clad insulating material in rear-ventilated façades.

Building materials

- · Concrete
- Hollow blocks made from lightweight concrete
- · Vertically perforated brick
- · Perforated sand-lime brick
- · Solid sand-lime brick
- · Natural stone with dense structure
- · Aerated concrete
- Solid brick made from lightweight concrete
- · Solid brick

Functioning

- The DHK is set in push-through installation by using a hammer.
- The plate size of the insulation support is to be selected in line with the compressive strength of the insulating material: DHK 45 for pressure-resistant; DHK for soft insulating materials.
- The expansion of the ribs in the drill hole gives the DHK an ideal contact pressure.
- Temperature range when installed: -40 °C to +80 °C.

Installation DHK / DHK 45





6

Technical data

Insulation support DHK



DHK

Dilit								
		Drill diameter	Disc ø	Anchor length	Min. drill hole depth	Effect. anchorage depth	Max. usable length	Sales unit
		d _o		1	h,	h _{ef}	t _{fix}	
	ltem no.	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[pcs]
Item								
DHK 40	080937	8	90	65	30	20	40	250
DHK 60	080938	8	90	85	30	20	60	250
DHK 80	080939	8	90	105	30	20	80	250
DHK 100	080940	8	90	125	30	20	100	250
DHK 120	080941	8	90	145	30	20	120	200
DHK 140	080949	8	90	165	30	20	140	200
DHK 160	512150	8	90	185	30	20	160	100
DHK 180	512151	8	90	205	30	20	180	100
DHK 200	512153	8	90	225	30	20	200	100
DHK 220	512154	8	90	245	30	20	220	100



Technical data

Insulation support DHK 45



DHK 45

		Drill diameter	Disc ø	Anchor length	Min. drill hole depth	Effect. anchorage depth	Max. usable length	Sales unit
		d _o		I	h ₁	h _{ef}	t _{fix}	
	ltem no.	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[pcs]
Item								
DHK 45/40	080892	8	45	65	30	20	40	250
DHK 45/60	080893	8	45	85	30	20	60	250
DHK 45/80	080894	8	45	105	30	20	80	250
DHK 45/100	080895	8	45	125	30	20	100	250

Loads

Insulation support DHK / DHK 45

Recommended loads¹⁾ for a single anchor.

Туре			DHK
Recommended loads in the respective base material $F_{rec}^{\ 2)}$			
Concrete	≥ C12/15	[kN]	0.03
Solid brick	Mz 12	[kN]	0.03
Solid sand-lime brick	KS 12	[kN]	0.03
Perforated sand-lime brick	KSL 6	[kN]	0.03
Vertically perforated brick	HIz 12	[kN]	0.02
Aerated concrete	≥ AAC 2 (G2)	[kN]	0.02

Required safety factors are considered.
 ²⁾ Valid for tensile load.

Insulation support DHM

The fire-protection-tested metal insulation support for fire-resistant insulating boards





Fire resistant wood wool panels on ceilings



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Pressure-resistant insulation boards in ventilated facades

Applications

To fix fire-resistant soft or pressure-resistant insulating materials, such as:

- · Mineral wool
- · Light building boards made of wood wool
- · Foam glass tiles
- Also suitable for:
- · Polystyrene boards
- · Coir matting

Certificates / Features



aBG 🗸

Advantages

- The metal insulation support achieves fire resistance F 120. This means that it can be used where there are fire resistance requirements.
- The DTM 80 plate for soft insulating materials (available separately) simplifies storage and minimises costs.
- The simple hammerset installation allows a quick installation process and thus

Building materials

- · Concrete
- Hollow blocks made from lightweight concrete
- Vertically perforated brick
- Perforated sand-lime brick
- Solid sand-lime brick
- $\cdot \;$ Natural stone with dense structure
- Aerated concrete
- Solid brick made from lightweight concrete
- · Solid brick

reduces workload.

- The shaft geometry allows setting in aerated concrete without pre-drilling, thus saving a stage of installation.
- Stainless steel version DHM A2 (1.4301) for wet and exterior applications.
- The DHM can be combined with coloured cover caps, which complete the design of the surface.

Functioning

- The insulation support is set in pushthrough installation by using a hammer.
- When hammered in, the expansion part tightens like a spring with the substrate.
- Use the DTM 80 plate (available separately) to fix soft insulating materials.
- Optionally, the DHM can be set with a hammer drill and the EMS M6 setting tool

Installation DHM











Technical data Insulation support DHM

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DHM

	Hot-dip galvanised steel	Stainless steel A2	Ap- pro- val	Drill diameter	Disc ø	Anchor length	Min. drill hole depth	Effect. ancho- rage depth	Usable length	Sales unit
				d _o		1	h ₁	h _{ef}	t _{fix}	
	ltem no.	ltem no.	DIBt	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[pcs]
Item	hdg	A2								
DHM 40	536253	536262	•	8	45	80	50	40	10 - 40	250
DHM 70	536254	536264	•	8	45	110	50	40	40 - 70	250
DHM 100	536256	536265	•	8	45	140	50	40	70 - 100	250
DHM 130	536257	536266	•	8	45	170	50	40	100 - 130	250
DHM 160	536258	536267	•	8	45	200	50	40	130 - 160	250
DHM 210	536259	536268	•	8	45	250	50	40	170 - 210	125
DHM 260	536260	536269	•	8	45	300	50	40	220 - 260	125

Technical data



DUIM	DO

		Colour	Diameter	Sales unit
			d	
	ltem no.		[mm]	[pcs]
Item				
DHM ADK-W	013330	white	37.0	250
DHM ADK-GR	046843	grey	37.0	250
DHM ADK-BG	046844	beige	37.0	250

Loads

Insulation support DHM

Recommended loads ¹ for a single anchor.								
Туре			DHM					
Recommended loads in the respective base mater	ial F _{rec} ²⁾							
Concrete ³⁾	≥ C12/15	[kN]	0.25					
Solid brick	Mz 12	[kN]	0.25					
Solid sand-lime brick	KS 12	[kN]	0.25					
Aerated concrete (without pre-drilling)	≥ AAC 2	[kN]	0.10					

¹ Required safety factors are considered. ² Valid for tensile load. ³ Acc. to DIBt approval $F_{Rd} = 0.10$ kN in cracked and uncracked concrete \geq C20/25. For the design the complete current DIBt approval Z-21.8-2057 has to be considered.

Remedial wall tie mechanical VBS-M

The quick repair for double- shell facades





Facing masonry



Repairing outer leafs

Applications

- VBS-M is especially suitable for applications where external thermal insulation composite systems (ETICS) have been previously installed.
- · Retrorespective repair of facing masonry.

Advantages

- The approved fixing in stone and in joints from at least 50 mm facing masonry provides a high degree of flexibility and security.
- Use in joints and with a low anchorage depth of just 50 mm allows for a quick and economical installation.
- · The small anchor rim and screw head

Building materials

• Facing masonry with and without an air layer

Versions

- Galvanised steel
- Stainless steel

allow for a surface-flush or deep-set installation.

- The drill hole can be retrospectively sealed so that it is no longer visible in the façade.
- A drip coil prevents condensate running into the load-bearing layer, thus preventing frost and corrosive damage.

Functioning

- The remedial wall tie VBS-M is set in the load-bearing layer and into facing masonry using push-through installation.
- In accordance with the approval, no drill hole cleaning is required.
- The two expansion zones in the load-bearing layer and in the facing masonry ensure a secure fixation.
- The plug doesn't fix into the facing masonry until the head grips into the load-bearing layer. This ensures the very best installation safety.



Certificates / Features



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Remedial wall tie mechanical VBS-M

Seed Seed -

VBS-M											
	Galvani- sed steel	Stainless steel	Ap- pro- val	Max. shell distance at 115 mm facing masonry, flush installation	Max. shell distance at 115 mm facing masonry, 20 mm sunk installation	Facing masonry + cavity	Drill diameter	Drill hole depth	Effect. ancho- rage depth	Anchor length	Sales unit
						fix	u _o	"0	ef		
	Item no.	Item no.	DIBt	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[pcs]
ltem	gvz	R									
VBS-M 8 x 120	514243 ¹⁾	514236 ¹⁾	•	20	-	70	8	140	>50	120	100
VBS-M 8 x 185	514244	514237	•	20	40	135	8	205	>50	185	100
VBS-M 8 x 205	514245	514238	•	40	60	155	8	225	>50	205	100
VBS-M 8 x 225	514246	514239	•	60	80	175	8	245	>50	225	100
VBS-M 8 x 245	514247	514240	•	80	100	195	8	265	>50	245	100
VBS-M 8 x 265	514248	514241	•	100	120	215	8	285	>50	265	100
VBS-M 8 x 285	514249	514242	•	120	140	235	8	305	>50	285	100

 $^{1\!\mathrm{j}}$ Max. 20 mm mortar layer in the case of 50 mm thick economy facing.

Accessories

ProfiBit

FPB TX

		Description	Sales unit
	ltem no.		[pcs]
Item			
FPB TX25 ProfiBit	517693	fischer ProfiBit long, which can be extended to 50 mm bit, allows for deep setting in stone and in the bed joint	1

Drill bits

Drill bits									
5000000									
3DS Plus II / Pointer M SDS Plus II Pointer									
		Description	Sales unit						
	Item no.		[pcs]						
Item									
Pointer M 8/100/400	517690	fischer masonry drill bit with SDS fixture and short flute, ground sharp, for rotary drilling in perforated brick and in the bed joint	1						
SDS Plus II 8/400/460	531785	fischer hammer drill bit for drilling in concrete and in the facing brick	1						

Weather facing reconstruction system FWS II

The economical solution for the repair of triple-skin outer wall panels





Repairing weather shells



Detail: Repairing weather shells

Applications

- For post-installation securing of tripleskin outer wall panels
- Strengthening outer wall panels for additional exterior insulation

Certificates / Features



Advantages

- The FWS II achieves a high shear loadbearing capacity due to its large anchor diameter. This reduces the number of reconstruction anchors needed for each plate to a minimum, thus saving costs.
- The drill hole can be drilled in one step using standard diamond drill bits. This ensures quick progress is made.

Building materials

 Triple-skin outer wall panels made of concrete ≥ C12/15

Versions

Stainless steel

- Installation is already approved from a sub-base thickness ≥ 80 mm.
- Approval with a new measuring strategy allows a safer and economically static calculation while making it possible to document loads from temperature changes.

Functioning

- The FWS II weather facing reconstruction anchors can be bedded in mortar into the load-bearing skin and weather shell with the FIS V Plus, FIS VW Plus or FIS VS Plus / FIS V, FIS VW or FIS VS injection mortar.
- The red plastic coating protects the insulation from being penetrated with mortar.
- You can see the correct anchor filling with the weather shell through the inspection openings on the head of the anchor.

Installation in triple skin outer wall panels with FIS V Plus and FWS II-A





Technical data

Weather facing reconstruction system FWS II



FWS II

		Ap- pro- val	Total length	Nom. drill diameter	Effect. anchorage depth in the load-bearing skin	Anchor per 360 ml-cartridge	Sales unit
			1	d _B	h _v		
	ltem no.	DIBt	[mm]	[mm]	[mm]		[pcs]
Item							
FWS II - A 180	532883	•	180	40 - 41	70	5	5
FWS II - A 205	532884	•	205	40 - 41	70	5	5
FWS II - A 230	532885	•	230	40 - 41	70	5	5

Accessories

Injection mortar FIS V Plus											
FIS V Plus 300 T	FIS VS Plu	us 300	T		FIS VW Plus 300 T		FIS V Plu	s 360 S	FIS V Plus 410 C	FIS V Plus 825 S	
		Appr	oval		Languages on the cartridge	Scale unit		Contents			Sales unit
	ltem no.	ETA	DIBt	ICC							[pcs]
Item											
FIS V Plus 300 T	569074	•	•	•	DA, FI, NO, SV	150		1 x Cartridge 300 ml	, 2 x static mixer FIS MR Plu	s with transparent clip	1
FIS V Plus 300 T	563292	•	•	•	EN, ES, PT	150		1 x Cartridge 300 ml	, 2 x static mixer FIS MR Plus	S	1
FIS V Plus 300 T	563282	•	•	•	DE, EN, IT	150		1 x Cartridge 300 ml	, 2 x static mixer FIS MR Plus	S	1
FIS V Plus 825 S	567511	•	•	•	DE, EN, FR, IT, NL	415		1 x Cartridge 825 ml	, 2 x static mixer FIS JMR 82	5	1
FIS VW Plus 300 T	563293	•	•	•	DE, EN, HU, IT	150		1 x Cartridge 300 ml	, 2 x static mixer FIS MR Plus	S	1
FIS V Plus 300 T	569254	•	•	•	AR, EN, FR	150		1 x Cartridge 300 ml	, 2 x static mixer FIS MR Plus	S	1
FIS V Plus 300 T	563279	•	•	•	DE, FR, NL	150		1 x Cartridge 300 ml	, 2 x static mixer FIS MR Plus	s with transparent clip	1
FIS VS Plus 300 T	563280	•	•	•	EN, ES, PT	150		1 x Cartridge 300 ml	, 2 x static mixer FIS MR Plus	S	1
FIS VS Plus 300 T	563278	•	•	•	ES, PT	150		1 x Cartridge 300 ml	, 2 x static mixer FIS MR Plus	s with transparent clip	1

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Accessoires

Injection mortar FIS V Plus					
			-		
FIS V Plus 300 T	FIS VS Plus 300 T	FIS VW Plus 300 T	FIS V Plus 360 S	FIS V Plus 410 C	FIS V Plus 825 S

					n			
		Appro	oval		Languages on the	Scale unit	Contents	Sales unit
					cartriage			
	ltem no.	ETA	DIBt	ICC				[pcs]
Item								
FIS VS Plus 300 T	563291	•	•	•	FR	150	1 x Cartridge 300 ml, 2 x static mixer FIS MR Plus with transparent clip	1
FIS VS Plus 300 T	563290	•	•	•	EL, HU, PL, RO	150	1 x Cartridge 300 ml, 2 x static mixer FIS MR Plus with transparent clip	1
FIS VW Plus 300 T	563286	•	•	•	DA, FI, NO, SV	150	1 x Cartridge 300 ml, 2 x static mixer FIS MR Plus with transparent clip	1
FIS VW Plus 300 T	563287	•	•	•	CS, HU, PL, RU	150	1 x Cartridge 300 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	558747	•	•	•	AR, EN, ZH	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	558762	•	•	•	CS, HU, SK	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	558752	•	•	•	DE, FR, NL	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	558746	•	•	•	EN, ES, PT	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	558758	•	•	•	EN, ES, PT (Ame- ricas)	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	560635	•	•	•	AR, EN, FR	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	558753	•	•	•	IT, PL, RO	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	561055	•	•	•	EN, PL, UK	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	558754	•	•	•	AR, EL, TR	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS VS Plus 360 S	558750	•	•	•	EN, ES, PT	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS VS Plus 360 S	561057	•	•	•	EN, PL, UK	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS VS Plus 360 S	558749	•	•	•	JA, KO, ZH	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS VW Plus 360 S	558768	•	•	•	CS, HU, SK	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS VW Plus 360 S	558765	•	•	•	DE, FR, NL	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS VW Plus 360 S	558764	•	•	•	EN, HU	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS VW Plus 360 S	562602	•	•	•	EN, PL, UK	180	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 410 C	558780	•	•	•	DE, EN, IT	200	1 x Cartridge 410 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 825 S	567512	•	•	•	EN, ES, FR, PT, TR	415	1 x Cartridge 825 ml, 2 x static mixer FIS JMR 825	1
FIS V Plus 825 S	567513	•	•	•	CS, EN, PL, RU, SK	415	1 x Cartridge 825 ml, 2 x static mixer FIS JMR 825	1

Loads

Weather facing reconstruction system FWS II

Permissible shear loads^{9,2} for a single anchor in a load-bearing skin made of concrete \geq C12/15. For the design the complete approval Z-21.8-2029 has to be considered.

						Cracked and non-cra	acked concrete
	Effective anchorage depth in the load-bearing skin	Thickness of load-bearing layer	Thickness of - thermal insula- tion ³⁾	Thickness of- outer leaf	Permissible bending moment	Permissible shear load ⁴⁾	Mindestrand- abstand ⁵⁾
	h _{ef} ≥	h _⊤ ≥	h _D ≤	h _w ≥	M _{zul}	V _{zul}	с _{тіп} (с _w , с _т)
Туре	[mm]	[mm]	[mm]	[mm]	[Nm]	[kN]	[mm]
FWS II - A 180	70	80	70	40	1310	11.5	150
FWS II - A 205	70	80	95	40	1310	9.5	150
FWS II - A 230	70	80	120	40	1310	8.1	150

¹⁾ Required safety factors are considered. The given loads are valid under the pre-condition that an additional thermal insulation will be applied on the weather facing.

²⁾ The given loads are valid for fixations in dry and humid concrete for temperatures in the substrate up to +50 °C (resp. short term up to 80 °C) and drillhole cleaning according to approval. ³⁾ For bigger insulation thicknesses special lengths are possible.

⁴⁾ The determination of the permissible shear load for special lengths is done according Annex 3 and 4 of the approval.

⁵⁾ For exact arrangement of the bolts as well as for eventually needed additional proofs see approval.

Insulation plug FID II

The insulation plug for lightweight attachments to the ETICS



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Applications

- · Outdoor lighting
- · Motion detector
- · House number
- · Doorbell



FID II in plastered polystyrene



Fixings of house numbers on plastered facade

Advantages

- The use of standard screws with a diameter of 3.5 - 4.5 mm allows flexible use.
- Due to the minimal head diameter, the plug edge is not visible even with narrow attachments.
- Maximum stability due to glass-fibre reinforced plastic.
- · Due to the special tip geometry, the plug

Building materials

- · Mineral wool
- · Expanded polystyrene (EPS)
- Extruded polystyrene (XPS)
- Wood fibre
- · Polyurethane rigid foam (PU)

screws through plaster thicknesses of up to 10 mm without pre-drilling, which enables a fast processing.

- The FID II is easily set with a standard TX 40 bit.
- The fischer insulation plug enables an universal use in all common insulation materials.

Functioning

- The FID II is placed in the plastered facade with a cordless screwdriver.
- For thick layers of plaster from 10 mm pre-drilling is recommended.
- The insulation plug anchors itself firmly in the insulation material without destroying the plaster.
- After successful pre-positioned installation, the FID II can be additionally sealed with a sealing compound.

Installation FID II











FID II

		Anchor length	Drill diameter	Wood and chipboard screws	Drive	Sales unit
		L	d _o	d _s		
	ltem no.	[mm]	[mm]	[mm]		[pcs]
Item						
FID II	570347	50	8	3.5 - 4.5	TX40	50
FID II K (4)	570348	50	8	3.5 - 4.5	TX40	1

Loads

Insulation plug FID II & FID II Plus

Recommended loads¹⁰ of a single anchor. The given loads are valid for chipboard screws with specified diameter and only for the specified insulation types with plaster thicknesses.

Туре			FID II	FID II Plus	FID II Plus Fill&Fix ³⁾	FID II Plus 1C PU foam ⁴⁾
Diameter chipboard screw		[mm]	4	5	5	5
Recommended load in the respective insulation material $N_{rec}^{2)}$						
EPS with plaster	Plaster thickness 8 mm	[kN]	0.15	0.20	0.40	0.405)
Mineral wool with plaster	Plaster thickness 8 mm	[kN]	0.05	0.10	0.20	0.206)
Wood fibre with plaster	Plaster thickness 13 mm	[kN]	0.15	0.20	0.40	-

¹⁾ Required safety factors are considered.

²⁾ Valid for tensile load, transverse load and diagonal pull.

³⁾ Injection with fischer Fill&Fix injection fixing, injection quantity in EPS: 35 scale parts, in mineral wool & wood fibre: 60 scale parts, curing time: 2 min.

⁴⁾ Injection with fischer 1C PU foam.

⁹ Three short sprays (observe absorption capacity of insulation material, adjust interval), curing time: 14-24 h. Protection of the plaster façade from chemical residues is recommended.

[®] Five short sprays (observe absorption capacity of insulation material, adjust interval), curing time: 14-24 h. Protection of the plaster façade from chemical residues is recommended.

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Insulation plug FID II Plus

The strong insulation plug for medium heavy attachments on ETICS



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Applications

- Letterbox
- · Window shutter holder
- · Wallbox



FID II Plus in plastered wood fibreboard



Fixing of parcel boxes on plastered facade.

Advantages

- The use of standard screws with a diameter of 4.5 - 6 mm allows flexible use.
- Due to the special tip geometry, the plug screws through plaster thicknesses of up to 10 mm without pre-drilling, which enables a fast processing.
- Maximum stability due to glass-fibre reinforced plastic.
- · The additional use of a chemical com-

Building materials

- · Mineral wool
- · Expanded polystyrene (EPS)
- Extruded polystyrene (XPS)
- Wood fibre
- · Polyurethane rigid foam (PU)

ponent, such as the fischer Fill&Fix or fischer 1c PU foam, can significantly increase the loads.

- The FID II Plus is easily set with a standard TX 40 drive.
- The fischer insulation plug enables an universal use in all common insulation materials.

Functioning

- The FID II Plus is placed in the plastered facade with a cordless screwdriver. For thick layers of plaster starting from 10 mm pre-drilling is recommended.
- The insulation plug anchors itself firmly in the insulation material without destroying the plaster.
- For a load increase, 1c PU foam or the fischer Fill&Fix can be inserted into the FID II Plus. For an exact application guideline of the chemical component, please refer to the load table.
- After curing time of the chemical component (1c PU foam: 14 - 24 h, Fill&Fix: 2 min) the screw can be installed.
- After successful pre-positioned installation, the FID II Plus can be additionally sealed with a sealing compound.
Installation FID II Plus







Installation FID II Plus with 1c PU foam











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Installation FID II Plus with fischer Fill&Fix

















Insulation plug FID II Plus



FID II Plus

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		Anchor length	Drill diameter	Wood and chipboard screws	Drive	Sales unit
		I	d ₀	d _s		
	ltem no.	[mm]	[mm]	[mm]		[pcs]
Item						
FID II Plus	570349	80	8	4.5 - 6.0	TX40	25
FID II Plus K	570350	80	8	4.5 - 6.0	TX40	1

Technical data

Fill & Fix injection fixing

DISE			
 1	1 22	-	
11		-	

Fill&Fix

		Contents	Sales unit
	ltem no.		[pcs]
Item			
Fill & Fix K (D)	051097	1 x Cartridge 25 ml, 2 x static mixer, 4 x anchor sleeves, 2 x extension tubes	1
Fill & Fix K (D/F)	503227	1 x Cartridge 25 ml, 2 x static mixer, 4 x anchor sleeves, 2 x extension tubes	1
Fill & Fix K (F)	513500	1 x Cartridge 25 ml, 2 x static mixer, 4 x anchor sleeves, 2 x extension tubes	1
Fill & Fix K (S/DK)	505083	1 x Cartridge 25 ml, 2 x static mixer, 4 x anchor sleeves, 2 x extension tubes	1

Dangerous goods - no express shipping possible.

Technical data

1c rapid installation foam PU S 500/750 B2



PU S 750

PU S 500

		Languages on the cartridge	Contents	Max. foam yield (free foaming)	Colour	Sales unit
	ltem no.		[ml]	0		[pcs]
Item						
PU S 1/500 B2	0403001)2)	DE	500	30	beige	1
PU S 750 B2	0403011)2)	DE	750	45	beige	1

Dangerous goods - no express shipping possible.
 Without protective gloves, for commercial users only.

Insulation plug FID II & FID II Plus

Recommended loads¹⁾ of a single anchor.

The given loads are valid for chipboard screws with specified diameter and only for the specified insulation types with plaster thicknesses.

Туре			FID II	FID II Plus	FID II Plus Fill&Fix ³⁾	FID II Plus 1C PU foam ⁴⁾
Diameter chipboard screw			4	5	5	5
Recommended load in the respective insulation material N _{rec} ²⁾						
EPS with plaster	Plaster thickness 8 mm	[kN]	0.15	0.20	0.40	0.405)
Mineral wool with plaster	Plaster thickness 8 mm	[kN]	0.05	0.10	0.20	0.206)
Wood fibre with plaster	Plaster thickness 13 mm	[kN]	0.15	0.20	0.40	-

Required safety factors are considered.
 Valid for tensile load, transverse load and diagonal pull.

³⁾ Injection with fischer Fill&Fix injection fixing, injection quantity in EPS: 35 scale parts, in mineral wool & wood fibre: 60 scale parts, curing time: 2 min.

⁴⁾ Injection with fischer 1C PU foam.

⁹ Three short sprays (observe absorption capacity of insulation material, adjust interval), curing time: 14-24 h. Protection of the plaster façade from chemical residues is recommended. [®] Five short sprays (observe absorption capacity of insulation material, adjust interval), curing time: 14-24 h. Protection of the plaster façade from chemical residues is recommended.

Insulation fixing FID-R

Thermal bridge-free installation of rainwater downpipes on ETICS





Fastening of a rainwater downpipe with the FID-R

Applications

 Thermal bridge-free installation of rainwater downpipes

Advantages

- Since the anchor is set exclusively in the insulation itself, fixtures can be installed without thermal bridges. The anchor offers an energy-optimised fixing.
- The hard-centering tip cuts its own way through the plaster, without the need

Building materials

- · Polystyrene insulating boards
- $\cdot \,$ Wood fibre insulating boards
- External thermal insulation composite system (ETICS)

for pre-drilling, thus saving a stage of installation.

• The TX-drive allows a setting with standard tools, thus allowing for a fast and economic installation.

Functioning

- The installation is carried out without any special tools.
- The spiral thread taps itself in the insulation board.
- For the installation in wood fibre insulating boards a pre-drilling of the insulating board with 16 mm is necessary.
- For the installation before plastering the threaded rod is protected by a tube sleeve.
- The included white covering rosette with glued on PE sealing disc protects again humidity.





Installation in non-plastered insulating boards





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Technical data



FID-R

		Anchor length	Min. bolt penetration	Drive	Thread	Sales unit
		I	I _{E,min}		A	
	ltem no.	[mm]	[mm]			[pcs]
Item						
FID-R zl	548404	95	95	TX25	M10	25
FID-R zI B	548405	95	95	TX25	M10	1

Loads

Insulation fixing FID-R	
-	

Recommended loads¹⁾ for a single anchor.

Туре			FID-R
Recommended loads in the respective base material N_{rec}^{2}			
Polystyrene	PS 15	[kN]	0.17
Polystyrene	PS 20	[kN]	0.20

Required safety factors are considered.
 Valid for tensile loads.

Insulation screw FID-Z

The self-drilling insulation screw for thin metal sheets on ETICS





Fixing of metal sheets using the FID-Z



Direct fastening of thin metal sheets on ETICS facades

Applications

- Direct fastening of thin metal sheets on ETICS façades
- Cross-cutting strips
- Splash guards
- · Metal sheets
- · Custodies

Advantages

- The special tip geometry of the FID-Z enables direct mounting of common, thin sheets (<0,8mm) without pre-drilling on the ETICS for time-saving installation.
- · The sealing disc of the FID-Z prevents

Building materials

ETICS with:

- · Mineral wool
- · Polystyrene
- · Polyurethane
- Wood fibre

water from penetrating the façade. This prevents structural damage.

 The optimized thread geometry guarantees uniform screw insertion for a clean setting result.

Functioning

- The FID-Z is suitable for direct mounting of thin metal sheets (<0,8 mm) on ETICS without pre-drilling.
- When screwing in, the tip drills directly through the metal sheet.
- By tightening the screw, the sealing washer is pressed against the attachment part and seals.

Installation FID-Z









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Technical data

Insulation screw FID-Z							
FID-Z							
		Screw length	Drill hole diameter in fixture	Drive	Max. fixture thickness	Sales unit	
		l _s	d _f		t _{fix}		
	ltem no.	[mm]	[mm]		[mm]	[pcs]	
Item							
FID-Z	563537	65	10	TX30	3	50	
Loads							

Insulation screw FID-Z

Recommended loads¹⁾ for a single anchor.

Туре		FID-Z
Recommended loads in the respective base material $\mathrm{N}_{\mathrm{rec}}^{\ 2)}$		
ETICS with EPS	[kN]	0.05
ETICS with mineral wool	[kN]	0.03
ETICS with wood fibre	[kN]	0.08
ETICS with XPS	[kN]	0.06

Required safety factors are considered.
 Valid for tensile loads when fixing to plastered insulation materials.

Stand-off installation TherMax 12/16

The approved stand-off installation with thermal separation in external thermal insulation composite systems



Applications

For the thermally separated fixing of:

- · Awnings
- · Canopies
- · French balcony railings
- · Air conditioning units
- · Satellite dishes

Certificates / Features





Awnings



Satellite dishes and air conditioning units

Advantages

- When combined with the injection mortars FIS EM Plus, FIS V Plus, FIS SB and FIS Green, the stand-off installation is approved for high loads in a range of materials. This allows for a secure fixing.
- Usable lengths of 62 to 290mm can be covered with just one TherMax.
- · The plastic cone creates a thermal

Building materials

Approved for:

- · Concrete, cracked and non-cracked
- · Vertically perforated brick
- Hollow blocks made from lightweight concrete
- · Perforated sand-lime brick
- · Solid sand-lime brick
- Solid brick
- · Aerated concrete

Versions

- · Galvanised steel
- · Stainless steel

barrier between the fixture and the inner fixture, and offers an energy-optimised fixing.

 The glass-fibre-reinforced plastic cone cuts its own way through the ETICS with a positive fit, and allows for a simple, fast and adjustable installation without the need for any special tools.

Functioning

- The TherMax 12 and 16 systems are suitable for pre-positioned installation.
- The self-tapping, glass-fibre-reinforced cone cuts its own way through the plaster into the insulation during installation.
- The anti-cold cone uses a thermal barrier to minimise heat losses.
- In the case of resistant plaster (e.g. thick cement plaster), it is recommended that the TherMax cutting blade included is used for grinding out the plaster.
- The sealing of the annular gap with sealing adhesive Multi MS seals the facade at plaster level.

Installation TherMax 12/16



Technical data

Stand-off installation TherMax 12/16

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TherMax 12/110 M12	TherMax	16/170 M12		TherMax HWK	
	Galvani- sed steel	Stainless steel	Ap- pro- val	Contents	Sales unit
ltem		R	DIDL		[hes]
TherMax 12/110 M12	051291	-	•	20 x TherMax M12 20 x Sleeve 20 x 130 5 x Bit 5 x Cutting blade 5 x Manual	20
TherMax 12/110 M12 (2)	051290	-	•	2 x TherMax M12 2 x Sleeve 20 x 130 1 x Bit 1 x Cutting blade 1 x Multi MS white 80 ml 1 x Manual	1
TherMax 12/110 M12 R	-	051537	•	10 x TherMax M12 R 10 x Sleeve 20 x 130 3 x Bit 3 x Cutting blade 3 x Manual	10
TherMax 16/170 M12	051293	-	•	20 x TherMax M16 20 x Sleeve 20 x 200 5 x Bit 5 x Cutting blade 5 x Extension hose 5 x Manual	20
TherMax 16/170 M12 (2)	051292	-	•	2 x TherMax M16 2 x Sleeve 20 x 200 1 x Bit 1 x Cutting blade 1 x Extension hose 1 x Multi MS white 80 ml 1 x Manual	1
TherMax 16/170 M12 R	-	051543	•	10 x TherMax M16 R 10 x Sleeve 20 x 200 3 x Bit 3 x Cutting blade 3 x Extension hose 3 x Manual	10

Stand-off installation TherMax 12/16 THE REPORT TherMax 16/170 M12 TherMax 12/110 M12 TherMax HWK Galvani-Stainless Ap-Contents Sales unit sed steel steel proval Item no. Item no. DIBt [pcs] Item gvz R TherMax 12/110 M12 HWK 25 x TherMax M12 571023 -• 1 25 x Sleeve 20 x 130 6 x Bit 6 x Cutting blade 6 x Manual 25 x TherMax M16 TherMax 16/170 M12 HWK 571024 1 • -25 x Sleeve 20 x 200 6 x Bit 6 x Cutting blade 6 x Extension hose 6 x Manual



Installation data

		Building ma	Building material + insulation Fixture										
	Length of TherMax incl. anti-cold cone	Threaded rod in building material	Building material	Suitable injection an- chor sleeve	Drill hole diame- ter	Min. an- chorage depth	Drill hole depth	Thickness of non-be- aring layer	Max. fixture thick- ness	Con- nection thread	Max. installa- tion torque	Required resin quantity	
	1				d ₀	h _{ef}	t _d	е	t _{fix}		T _{inst}		
Туре	[mm]				[mm]	[mm]	[mm]	[mm]	[mm]		[Nm]	[Scale unit]	
TherMax M12	240	M12	Concrete	-	14	70	h _{ef} + e	62 - 170	16 ¹⁾	M12	20	5	
	240	M12	Solid brick	-	14	80	h _{ef} + e	62 - 160	16 ¹⁾	M12	20	6	
	240	M12	Perforated brick	FIS H 20x130 K	20	130	h _{ef} + e + 10 mm	62 - 110	16 ¹⁾	M12	20	26	
	240	M12	Aerated concrete	-	14	100	h _{ef} + e	62 - 140	16 ¹⁾	M12	20	8	
TherMax M16	370	M16	Concrete	-	18	80	h _{ef} + e	62 - 290	16 ¹⁾	M12	20	7	
	370	M16	Solid brick	-	18	80	h _{ef} + e	62 - 290	16 ¹⁾	M12	20	7	
	370	M16	Perforated brick	FIS H 20x200 K	20	200	h _{ef} + e + 10 mm	62 - 170	16 ¹⁾	M12	20	40	
	370	M16	Aerated concrete	-	18	100	h _{ef} + e	62 - 270	16 ¹⁾	M12	20	9	

¹⁾ The setscrews may be replaced by a setscrew / fixing screw up to a length 200 mm.

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Technical data

Injection mortar							
	facher -			12 12 12 12 12 12 12 12 12 12 12 12 12 1			
FIS EM Plus 390 S	FIS Green	1 300 T			FIS SB 390 S	FIS V Plus 360 S Multi MS	
		Appr	oval		Languages on the cartridge	Contents	Sales unit
	Item no.	ETA	DIBt	ICC			[pcs]
ltem							
FIS EM Plus 390 S	544154	•	•	•	EN, FR, NL	1 x Cartridge 390 ml, 2 x static mixer FIS MR Plus	1
FIS EM Plus 390 S	544155	•	•	•	AR, EN, ZH	1 x Cartridge 390 ml, 2 x static mixer FIS MR Plus	1
FIS Green 300 T	532972	•	-	-	DA, FI, NO, SV	1 x Cartridge 300 ml, 2 x static mixer FIS MR Plus with transparent clip	1
FIS Green 300 T	523245	•	-	-	IT	1 x Cartridge 300 ml, 2 x static mixer FIS MR Plus with transparent clip	1
FIS SB 390 S	519451	•	-	•	DE, FR, NL	1 x Cartridge 390 ml, 2 x static mixer FIS MR Plus	1
FIS SB 390 S	518831	•	-	•	EN, ES, PT	1 x Cartridge 390 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	558746	•	•	•	EN, ES, PT	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
FIS V Plus 360 S	558752	•	•	•	DE, FR, NL	1 x Cartridge 360 ml, 2 x static mixer FIS MR Plus	1
Multi MS white 290 ml	059389	-	-	-	DE, EN, FR	1 x Cartridge 290 ml	1
Multi MS Express black 290 ml	538488	-	-	-	ES, PT	1 x Cartridge 290 ml	1
Multi MS white 290 ml	558977	-	-	-	CS, SK	1 x Cartridge 290 ml	1
MS EXPRESS white 290 ml	535892	-	-	-	ES, PT		1
KD Ultra BI 290 ml	545169	-	-	-	IT	1 x cartridge 290 ml	1

Additional language variations of the product groups are available

Technical data

Brush BS	h.					
BS						
		Length	Length	Brush diameter	For drill diameter	Sales unit
		կ	L ₂			
	ltem no.	[mm]	[mm]	[mm]	[mm]	[pcs]
Item						
BS Ø14	078180	250	80	16	14	1
BS Ø16/18	078181	250	80	20	16 / 18	1
BS Ø20/22	052277	300	80	25	20/22	1

Blow-out pump AB G											
fischer -	fischer -										
AB G											
			Sales unit								
	ltem no.		[pcs]								
Item											
Blow-out pump AB G	567792		1								

Accessories

TherMax accessories

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TherMax cutting blade

TherMax thread reducing pin

	Item no	Contents	Sales unit
Item	item no.		[[003]
TherMax cutting blade, 25 pcs	547723	25 x Cutting blades	1
TherMax thread reducing pin M12/M8 R	569858	10 x Thread reducing pin M12/M8 R (total length 59 mm; M12 29 mm, M8 30 mm) 10 x Washer 8,4 x 16 x 1,6 A4 10 x Hexagon nut M8 A4 SW13 1 x Installation instruction	10
TherMax thread reducing pin M12/M10 R	553834	10 x Thread reducing pin M12/M10 R (total length 59 mm; M12 29 mm, M10 30 mm) 10 x Washer 10,5 x 25 x 3 A4 10 x Hexagon nut M10 A4 SW17 1 x Installation instruction	10

Loads

Stand-off installation TherMax 12 and 16 with load-bearing anchor rod made of zinc-plated steel 8.8 and a displacement of 1 mm

The below load table is valid for short-term loading (e.g. wind load). If the sealing of the annular gap between TherMax and plaster is assured by fischer sealant and adhesive Multi MS, KD or DKM, the TherMax version with an anchor rod on base substrate side made of zinc-plated steel may be used.

Highest permissible loads^{16/7} of a TherMax within an anchor group²¹ in concrete with the injection mortars FIS V Plus or FIS SB and in masonry with the injection mortar FIS V Plus.

	Minimum effective anchor- age depth	Permis- sible tensile load	Permis- sible shear load at e = 62 mm	Permis- sible shear load at e = 100 mm	Permis- sible shear load at e = 120 mm	Permis- sible shear load at e = 140 mm	Permis- sible shear load at e = 160 mm	Permis- sible shear load at e = 180 mm	Permis- sible shear load at e = 200 mm	Permis- sible shear load at e = 250 mm	Permis- sible shear load at e = 300 mm	Minimum member thick- ness	Minimum spacing	Minimum edge dis- tance
	h _{ef} ⁴⁾⁸⁾	N ³⁾ perm	V ³⁾ perm	V ³⁾ perm	V ³⁾ perm	V ³⁾ perm	V 3) perm	V 3) perm	V 3) perm	V 3) perm	V ³⁾ perm	h _{min}	S _{min ∥} / S _{min⊥} ⁹⁾	C _{min}
Туре	[mm]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[mm]	[mm]	[mm]
Concrete, crac	cked and nor	n-cracked, s	trength clas	s ≥ C20/25										
TherMax 12 ⁸⁾	70	3.40%	1.22	0.75	0.63	0.54	0.40	0.29	0.22	0.10	0.05	100	55	55
TherMax 16 ⁸⁾	80	3.40%	1.59	0.99	0.82	0.70	0.62	0.55	0.46	0.22	0.10	116	65	65
Solid brick, Ma	z, EN 771-1; f	_ ≥ 12 N/mm ²	²; ρ ≥ 1.8 kg/	dm³; LxWxH	≥ 240x115x7	'1 mm, NF								
TherMax 12 ⁸⁾	200	2.71	0.85	0.75	0.63	0.54	0.36	0.29	0.22	0.10	0.05	240	80/80	60
TherMax 16 ⁸⁾	200	2.71	1.29	0.99	0.82	0.70	0.62	0.55	0.46	0.22	0.10	240	80/80	60
Solid sand-lime brick, KS, EN 771; $f_b \ge 20 \text{ N/mm}^2$; $\rho \ge 2.0 \text{ kg/dm}^3$; LxWxH $\ge 250x240x240 \text{ mm}$, 8DF														
TherMax 12 ⁸⁾	50	2.86	1.22	0.75	0.63	0.54	0.40	0.29	0.22	0.10	0.05	240	80/80	60
TherMax 16 ⁸⁾	50	2.14	1.59	0.99	0.82	0.70	0.62	0.55	0.46	0.22	0.10	240	80/80	60
Vertically perf	orated brick	type B, HLz,	EN 771-1; f _b	\geq 12 N/mm ² ;	ρ ≥ 1.0 kg/d	m ³ ; LxWxH =	370x240x2	37 mm resp	. 500x175x2	37 mm				
TherMax 124)	110	1.14	0.57	0.57	0.57	0.54	0.40	0.29	0.22	0.10	0.05	175	100/100	100
TherMax 164)	110	1.14	0.57	0.57	0.57	0.57	0.57	0.55	0.46	0.22	0.10	175	100/100	100
Perforated sa	nd-lime bricl	k, KSL, EN 77	71-2; f _b ≥ 12 M	l/mm²; ρ ≥ 1.	4 kg/dm³; L	(WxH = 240)	c175x113 mm	n, 3DF						
TherMax 124)	85	1.00	1.22	0.75	0.63	0.54	0.40	0.29	0.22	0.10	0.05	175	100/115	80
TherMax 164)	85	1.00	1.14	0.99	0.82	0.70	0.62	0.55	0.46	0.22	0.10	175	100/115	80
Hollow block r	nade of light	weight con	crete, Hbl, E	N 771-3; f _b ≥	2 N/mm²; ρ 2	≥ 1.0 kg/dm³	; LxWxH = 3	62x240x240) mm					
TherMax 124)	110	0.43	0.26	0.26	0.26	0.26	0.26	0.26	0.22	0.10	0.05	240	100/240	60
TherMax 164)	180	0.71	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.22	0.10	240	100/240	60
Aerated concr	ete (cylindri	cal drill hole), EN 771-4;	$f_b \ge 2 N/mm^2$; ρ ≥ 0.35 kg	/dm³; LxWxl	H≥599x240	Dx249 mm						
TherMax 12 ⁸⁾	200	1.43	0.43	0.43	0.43	0.43	0.40	0.29	0.22	0.10	0.05	240	80/80	100
TherMax 16 ⁸⁾	200	1.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.22	0.10	240	80/80	100
For the desig	in the comple	ete approval Z	Z-21.8-1837 i	ssued on 21.0	01.2022 as w	ell as the Eur	opean Techr	nical Assessn	nents ETA-20)/0603, ETA-	20/0729 or E	TA-12/0258	have to be c	onsidered.

¹ The required partial safety factors for material resistance as well as a partial safety factor for load actions of $\gamma_1 = 1.4$ are considered.

²⁾ Set-up of one or more TherMax in a row in direction of shear, for which the clamping of the attachment prevents a torsion on attachment side due to a sufficient stiffness of the attachment or connecting construction. For a clamping on base substrate side only, see approval.

³⁰ For combinations of tensile and shear loads as well as reduced spacing or edge distances (anchor groups) see approval. The values for tensile loads in masonry are valid only, if the joints of the masonry is completely filled with masonry mortar. If the joints are not filled with masonry mortar are not filled with masonry mortar and the edge distance towards the joints is less than c_{min}, the loads have to be reduced by the factor a₁ = 0.75. The values for shear loads are valid only, if the joints are filled with masonry mortar. For not completely filled joints they have to be handled like a free edge and a minimum edge distance c_{min} of the anchors to the joints has to be observed. For compression loads and perforated bricks or hollow blocks see approval. Calculative assumed thickness of the attachment t_{in} = 6 mm.
 ⁴⁰ In vertically perforated bricks HLz, perforated sand-lime bricks KSL as well as hollow blocks made of light weight concrete Hbl the TherMax 12 (standard version) can bridge non-load

⁴⁾ In vertically perforated bricks HLz, perforated sand-lime bricks KSL as well as hollow blocks made of light weight concrete Hbl the TherMax 12 (standard version) can bridge non-load bearing layers up to 110 mm and the TherMax 16 can bridge them up to 170 mm. Larger usable lengths up to 300 mm are possible, if other perforated sleeves and where required longer anchor rods are used and again the anchorage depth gets reduced - see approval.

⁵⁾ The stated permissible loads are valid for anchorages in dry base substrates - use category d/d - and for temperatures up to +50 °C (resp. short-term up to +80 °C) in the area of the injection mortar and during drill hole cleaning in accordance with the approval. The load values apply to anchor rods on base substrate side made of zinc-plated steel grade 8.8 - for other steel grades or stainless steel see approval.

⁶⁾ Complies with the permissible tensile load of the TherMax cone.

⁷ Intermediate values of the shear load may be linearly interpolated in dependence of "e", if nothing else is mentioned in the approval.

⁽⁸⁾ In solid bricks Mz and solid sand-lime bricks KS the TherMax 12 (standard version) can bridge non-load bearing layers up to 190 mm (140 mm in aerated concrete) and the TherMax 16 can bridge them up to 300 mm (270 mm in aerated concrete) - but in solid brick Mz and aerated concrete the above load values have to be reduced. In concrete the TherMax 12 (standard version) can bridge non-loadbearing layers up to 170 mm and the TherMax 16 can bridge them up to 290 mm. Larger usable lengths up to 300 mm are possible, if longer anchor rods are used and again in solid bricks Mz if the anchorage depth (compared to above values) gets reduced where required - see approval.

⁹⁾ Minimum spacing with simultaneous reduction of the permissible load for each TherMax.

Loads

Stand-off installation TherMax 12 and 16 with load-bearing anchor rod made of stainless steel R-70 and a displacement of 3 mm

The below load table is valid for short-term loading (e.g. wind load). Measures for sealing see approval, section 3.2.4.

Highest permissible loads¹⁹⁽⁷⁾ of a TherMax within an anchor group² in concrete with the injection mortars FIS V Plus or FIS SB and in masonry with the injection mortar FIS V Plus.

	Minimum effective anchor- age depth	Permis- sible tensile load	Permis- sible shear load at e = 62 mm	Permis- sible shear load at e = 100 mm	Permis- sible shear load at e = 120 mm	Permis- sible shear load at e = 140 mm	Permis- sible shear load at e = 160 mm	Permis- sible shear load at e = 180 mm	Permis- sible shear load at e = 200 mm	Permis- sible shear load at e = 250 mm	Permis- sible shear load at e = 300 mm	Minimum member thick- ness	Minimum spacing	Minimum edge dis- tance
_	h _{ef} ⁴⁾⁰⁾	N _{perm} ³⁾	V _{perm} ³⁾	V _{perm} ³⁾	V s)	V perm ³	V _{perm} ³⁾	n _{min}	S _{min ∥} / S _{min⊥} ⁹⁾	C _{min}				
Туре	[mm]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[mm]	[mm]	[mm]
Concrete, cra	cked and nor	n-cracked, s	trength clas	s ≥ C20/25										
TherMax 12 ⁸⁾	70	3.40%	1.22	0.75	0.63	0.54	0.47	0.42	0.38	0.30	0.15	100	55	55
TherMax 16 ⁸⁾	80	3.40%	1.59	0.99	0.82	0.70	0.62	0.55	0.49	0.39	0.31	116	65	65
Solid brick, M	z, EN 771-1; f	_b ≥ 12 N/mm	²;ρ≥1.8 kg/	dm ³ ; LxWxH	≥ 240x115x7	71 mm, NF								
TherMax 12 ⁸⁾	200	2.71	0.85	0.75	0.63	0.54	0.47	0.42	0.38	0.30	0.15	240	80/80	60
TherMax 16 ⁸⁾	200	2.71	1.29	0.99	0.82	0.70	0.62	0.55	0.49	0.39	0.31	240	80/80	60
Solid sand-lin	ne brick, KS,	EN 771; $f_{b} \ge 2$	20 N/mm²; ρ	≥ 2.0 kg/dm	n³; LxWxH≥	250x240x24	0 mm, 8DF		-					
TherMax 12 ⁸⁾	50	2.86	1.22	0.75	0.63	0.54	0.47	0.42	0.38	0.30	0.15	240	80/80	60
TherMax 16 ⁸⁾	50	2.14	1.59	0.99	0.82	0.70	0.62	0.55	0.49	0.39	0.31	240	80/80	60
Vertically perf	orated brick	type B, HLz,	, EN 771-1; f _b	≥ 12 N/mm²;	ρ ≥ 1.0 kg/d	m³; LxWxH =	370x240x2	37 mm resp	. 500x175x2	37 mm				
TherMax 124)	110	1.14	0.57	0.57	0.57	0.54	0.47	0.42	0.38	0.30	0.15	175	100/100	100
TherMax 164)	110	1.14	0.57	0.57	0.57	0.57	0.57	0.55	0.49	0.39	0.31	175	100/100	100
Perforated sa	nd-lime bric	k, KSL, EN 77	71-2; f _ь ≥ 12 ľ	l/mm²; ρ ≥ 1.	4 kg/dm ³ ; L	(WxH = 240)	(175x113 mm	, 3DF						
TherMax 124)	85	1.00	1.22	0.75	0.63	0.54	0.47	0.42	0.38	0.30	0.15	175	100/115	80
TherMax 164)	85	1.00	1.14	0.99	0.82	0.70	0.62	0.55	0.49	0.39	0.31	175	100/115	80
Hollow block r	nade of light	t weight con	crete, Hbl, E	N 771-3; f _ь ≥	2 N/mm²; ρ	≥ 1.0 kg/dm ³	; LxWxH = 30	62x240x240) mm					
TherMax 124)	110	0.43	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.15	240	100/240	60
TherMax 16 ⁴⁾	180	0.71	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	240	100/240	60
Aerated conci	rete (cylindri	cal drill hole), EN 771-4;	$f_b \ge 2 N/mm^2$; ρ ≥ 0.35 kg	J/dm ³ ; LxWx	H≥599x240)x249 mm						
TherMax 128)	200	1.43	0.43	0.43	0.43	0.43	0.43	0.42	0.38	0.30	0.15	240	80/80	100
TherMax 16 ⁸⁾	200	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.39	0.31	240	80/80	100

For the design the complete approval Z-21.8-1837 issued on 21.01.2022 as well as the European Technical Assessments ETA-20/0603, ETA-20/0729 or ETA-12/0258 have to be considered. ¹⁾ The required partial safety factors for material resistance as well as a partial safety factor for load actions of $\gamma_L = 1.4$ are considered.

²⁾ Set-up of one or more TherMax in a row in direction of shear, for which the clamping of the attachment prevents a torsion on attachment side due to a sufficient stiffness of the attachment or connecting construction. For a clamping on base substrate side only, see approval.

³⁾ For combinations of tensile and shear loads as well as reduced spacing or edge distances (anchor groups) see approval. The values for tensile loads in masonry are valid only, if the joints of the masonry is completely filled with masonry mortar. If the joints are not filled with masonry mortar are not filled with masonry mortar and the edge distance towards the joints is less than c_{min} , the loads have to be reduced by the factor $a_j = 0.75$. The values for shear loads are valid only, if the joints are filled with masonry mortar. For not completely filled joints they have to be handled like a free edge and a minimum edge distance c_{min} of the anchors to the joints has to be observed. For compression loads and perforated bricks or hollow blocks see approval. Calculative assumed thickness of the attachment $t_i = 6$ mm

al. Calculative assumed thickness of the attachment t_m = 6 m^m. ⁴⁾ In vertically perforated bricks HLz, perforated sand-lime bricks KSL as well as hollow blocks made of light weight concrete Hbl the TherMax 12 (standard version) can bridge non-load bearing layers up to 110 mm and the TherMax 16 can bridge them up to 170 mm. Larger usable lengths up to 300 mm are possible, if other perforated sleeves and where required longer anchor rods are used and again the anchorage depth gets reduced - see approval.

⁵⁾ The stated permissible loads are valid for anchorages in dry base substrates - use category d/d - and for temperatures up to +50 °C (resp. short-term up to +80 °C) in the area of the injection mortar and during drill hole cleaning in accordance with the approval. The load values apply to anchor rods on base substrate side made of stainless steel of the grade A4-70.
⁶⁾ Complies with the permissible tensile load of the TherMax cone.

ⁿ Intermediate values of the shear load may be linearly interpolated in dependence of "e", if nothing else is mentioned in the approval.

⁽⁸⁾ In solid bricks Mz and solid sand-lime bricks KS the TherMax 12 (standard version) can bridge non-load bearing layers up to 190 mm (140 mm in aerated concrete) and the TherMax 16 can bridge them up to 300 mm (270 mm in aerated concrete) - but in solid brick Mz and aerated concrete the above load values have to be reduced. In concrete the TherMax 12 (standard version) can bridge non-loadbearing layers up to 170 mm and the TherMax 16 can bridge them up to 290 mm. Larger usable lengths up to 300 mm are possible, if longer anchor rods are used and again in solid bricks Mz if the anchorage depth (compared to above values) gets reduced where required - see approval.

9 Minimum spacing with simultaneous reduction of the permissible load for each TherMax.

Hammerfix N

The hammer-in plug for a simple, fast and economical installation





Timber substructures



6

Applications

- · Substructures made of wood and metal
- · Wall connection or plaster profiles
- · Slides
- · Sheets
- · Cable and pipe clips
- · Perforated tapes

Certificates / Features





Advantages

- The rapid hammerset installation reduces the amount of time required and allows for an economic series installation.
- The integrated hammer-in stop prevents the plug from expanding prematurely (jamming), thus enabling a problem-free installation.

Building materials

- · Concrete
- · Solid sand-lime brick
- · Building brick
- Natural stone
- Solid brick made from lightweight concrete
- · Aerated concrete
- · Solid panel made from gypsum

Versions

- · Galvanised steel
- · Stainless steel

- Together with the cross-slot recess, the thread of the nail screw allows the screw to be removed, thus allowing for subsequent dismantling.
- The wide range of diameters, usage lengths and head shapes provides the correct plug for every fixing.

Functioning

- The Hammerfix N is suitable for pushthrough installation.
- When hammered in, the nail screw causes the plug to expand in two directions, thus providing a secure anchoring in the building material.
- Countersunk head plugs are recommended for the installation of timber constructions; in the case of metal constructions, use plugs with cylindrical head, and use flat edge plugs for long holes.





Hammerfix N-S

N-S

6

N-S	N-S A2								
	Galvani- sed steel	Stainless steel A2	Drill diameter	Effect. anchorage depth	Anchor length	Min. drill hole depth for through fixings	Max. fixture thickness	Drive	Sales unit
			d _o	h _{ef}	1	h ₂	t _{fix}		
	Item no.	Item no.	[mm]	[mm]	[mm]	[mm]	[mm]		[pcs]
Item	gvz	A2							
N 5 x 30/5 S (100)	050395 ¹⁾	050370	5	25	30	45	5	PZ2	100
N 5 x 40/15 S (100)	050351	-	5	25	40	55	15	PZ2	100
N 5 x 50/25 S (100)	050352	-	5	25	50	65	25	PZ2	100
N 6 x 40/10 S (50)	050354	050372	6	30	40	55	10	PZ2	50
N 6 x 40/10 S (100)	048788	-	6	30	40	55	10	PZ2	100
N 6 x 40/10 S (200)	513834 ¹⁾	-	6	30	40	55	10	PZ2	200
N 6 x 60/30 S (50)	050355	050373	6	30	60	75	30	PZ2	50
N 6 x 60/30 S (100)	048789	-	6	30	60	75	30	PZ2	100
N 6 x 60/30 S (200)	513835 ¹⁾	-	6	30	60	75	30	PZ2	200
N 6 x 80 /50 S (50)	050353	-	6	30	80	95	50	PZ2	50
N 6 x 80/50 S (100)	048790	-	6	30	80	95	50	PZ2	100
N 6 x 80/50 S (200)	513836 ¹⁾	-	6	30	80	95	50	PZ2	200
N 8 x 60/20 S (50)	050356	050374	8	40	60	75	20	PZ3	50
N 8 x 60/20 S (100)	048791	-	8	40	60	75	20	PZ3	100
N 8 x 80/40 S (50)	050358	050375	8	40	80	95	40	PZ3	50
N 8 x 80/40 S (100)	048792	-	8	40	80	95	40	PZ3	100
N 8 x 100/60 S (50)	050357	050376	8	40	100	115	60	PZ3	50
N 8 x 100/60 S (100)	048793	-	8	40	100	115	60	PZ3	100
N 8 x 120/80 S (50)	050359	-	8	40	120	135	80	PZ3	50
N 8 x 120/80 S (100)	048794	-	8	40	120	135	80	PZ3	100
N 10 x 100/50 S (50)	050346 ²⁾	-	10	50	100	115	50	PZ3	50
N 10 x 135/85 S (50)	050347 ²⁾	-	10	50	135	150	85	PZ3	50
N 10 x 160/110 S (50)	050348 ²⁾	-	10	50	160	175	110	PZ3	50

¹⁾ Also specially suitable for fischer pipe clips FC, see chapter electrical fixings.
 ²⁾ Not pre-assembled.

6



Technical data

Hammerfix N-F

N-F

		Drill diameter	Effect. anchorage depth	Anchor length	Min. drill hole depth for through fixings	Max. fixture thickness	Drive	Sales unit
		do	h _{ef}	1	h ₂	t _{fix}		
	ltem no.	[mm]	[mm]	[mm]	[mm]	[mm]		[pcs]
ltem								
N 5 x 25/1 F (100)	514872	5	25	25	40	1	PZ2	100
N 5 x 25/1 F (200)	514873	5	25	25	40	1	PZ2	200
N 5 x 30/5 F (100)	513736	5	25	30	45	5	PZ2	100
N 5 x 30/5 F (200)	513739	5	25	30	45	5	PZ2	200
N 5 x 40/15 F (100)	513737	5	25	40	55	15	PZ2	100
N 5 x 40/15 F (200)	513740	5	25	40	55	15	PZ2	200
N 5 x 50/25 F (100)	513738	5	25	50	65	25	PZ2	100
N 5 x 50/25 F (200)	513741	5	25	50	65	25	PZ2	200
N 6 x 35/5 F (100)	522948	6	30	35	40	5	PZ2	100
N 6 x 40/10 F (100)	513840	6	30	40	55	10	PZ2	100
N 6 x 40/10 F (200)	513843	6	30	40	55	10	PZ2	200
N 6 x 60/30 F (100)	513841	6	30	60	75	30	PZ2	100
N 6 x 60/30 F (200)	513844	6	30	60	75	30	PZ2	200
N 6 x 80/50 F (100)	513842	6	30	80	95	50	PZ2	100
N 6 x 80/50 F (200)	513845	6	30	80	95	50	PZ2	200
N 8 x 60/20 F (100)	513701	8	40	60	75	20	PZ3	100
N 8 x 80/40 F (100)	513702	8	40	80	95	40	PZ3	100
N 8 x 100/60 F (100)	513703	8	40	100	115	60	PZ3	100
N 8 x 120/80 F (100)	513704	8	40	120	135	80	PZ3	100

Technical data

N-P K	N-S M	N-S D A2								
	Galvani- sed steel	Stainless steel A2	Drill diameter	Effect. ancho- rage depth	Anchor length	Max. fixture thickness	Min. drill hole depth for through fixings	Diameter of washer	Drive	Sales unit
			d _o	h _{ef}	1	t _{fix}	h ₂			
	ltem no.	Item no.	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[pcs]
Item	gvz	A2								
N 6 x 40/7 P K (50)	050342	-	6	30	40	7	55	-	-	50
N 6 x 40/10 S M6 (50)	050398	-	6	30	40	10	55	-	-	50
N 6 x 40/10 S D A2 (50)	-	050367	6	30	40	10	55	19	PZ2	50
N 6 x 60/30 S D A2 (50)	-	050368	6	30	60	30	75	19	PZ2	50



Hammerfix N-P

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N-P	N-P A2								
	Galvani- sed steel	Stainless steel A2	Drill diameter	Effect. anchorage depth	Anchor length	Min. drill hole depth for through fixings	Max. fixture thickness	Drive	Sales unit
			d _o	h _{ef}	1	h ₂	t _{fix}		
	ltem no.	ltem no.	[mm]	[mm]	[mm]	[mm]	[mm]		[pcs]
Item	gvz	A2							
N 5 x 30/5 P (100)	050338	095909	5	25	30	45	5	PZ2	100
N 6 x 30/1 P (100)	514869	-	6	30	30	45	1	PZ2	100
N 6 x 40/7 P (50)	050339	050369	6	30	40	55	7	PZ2	50
N 6 x 40/7 P (100)	048795	-	6	30	40	55	7	PZ2	100
N 6 x 40/7 P (200)	514871	-	6	30	40	55	7	PZ2	200
N 8 x 40/1 P (50)	015903	-	8	40	40	55	1	PZ3	50
N 8 x 40/1 P (100)	514870	-	8	40	40	55	1	PZ3	100

Loads

Hammerfix N

Recommended loads^η for a single anchor. The given loads are valid for screw nails with the specified diameter.

Туре			N 5	N 6 ³⁾	N 8	N 10
Screw nail diameter		[mm]	3.5	3.7	4.7	7.0
Recommended loads in the respective base mate	rial F _{rec} ²⁾					
Concrete	≥ C20/25	[kN]	0.20	0.25	0.27	0.33
Solid brick	≥ Mz 12	[kN]	0.14	0.18	0.24	0.30
Solid sand-lime brick	≥ KS 12	[kN]	0.18	0.22	0.24	0.33
Solid brick of lightweight aggregate concrete	≥ V 4	[kN]	0.05	0.12	0.15	0.16
Aerated concrete	≥ AAC 2	[kN]	0.03	0.04	0.05	0.10
Aerated concrete	\geq AAC 4	[kN]	0.07	0.10	0.13	0.16

¹ Required safety factors are considered. Valid for installation and use in dry base material for temperatures in the substrate up to +24 °C (resp. short term up to +40 °C).
 ² Valid for tensile load, shear load and oblique load under any angle.
 ³ The values have to be reduced by 50% for N 6 x 40/7 P K.

Spacer disk DAD

To correct unevennesses in the rail installation of ETICS rails, base rails and wall profiles.



Applications

• For use in combination with hammerfix and frame fixings with a drill hole diameter of 6, 8 or 10 mm

Advantages

- · 3 seats for 6, 8 and 10mm frame fixings or hammerfix.
- $\cdot\,$ Several DADs can be stacked together.
- More secure hold of the fixing as a result of the precisely fitting seat.
- Simple fixing.

Functioning

- When using DADs stacked on top of each other, 2mm has to be added because of the stacking equipment.
- The total thickness of the DAD element has to be added to the usable length of the plug.

Installation DAD













Technical data

Spacer disk DAD



Sales unit

[pcs]

ltem

DAD 1

DAD 4

DAD 6

DAD 13

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1c adhesive foam PUP ETICS 750

The adhesive one-component foam for ETIC systems with general technical approval







6

Applications

- Bonding of insulating boards in accordance with ETAG Guideline 004/2013
- Fixing of external wall insulation, internal wall insulation and attic insulation
- · Fixing of basement ceiling insulation
- · Bonding of perimeter insulation panels

Building materials

- · EPS- / XPS-insulation panels
- · Concrete
- · Thick Bitumen Coating
- · Anodised layer
- · Gypsum plasterboard
- · Wood
- · Thick bitumen coating
- · Plastics (not on PE, PP, Teflon, silicone)
- · Masonry
- · Plaster
- · Sand-lime brick
- · Fibre cement
- · Galvanized sheet metal
- · Aerated concrete

Advantages

- The special recipe guarantees high adhesive tensile strength for secure fixing.
- The high foam yield allows for the bonding of up to 12 m² of wall space and is therefore especially economical.
- Really low post-expansion avoids the formation of cavities between the wall and

Certificates / Features

- Building approval for bonding EPS boards in ETIC systems
- Adhesive tensile strength values (based on ETAG guideline 004/2013, section 5.1.4.1.2)
- · French VOC-emission class A+
- · EMICODE® EC1 Plus very low emission

insulation panel and guarantees a secure connection.

- The use of the can/gun system provides a time saving of approx. 30% and thus guarantees efficient work.
- The new non-sticking safety valve guarantees long-lasting functionality.

Functioning

Insulation of cellar ceiling

- · 1-component PU foam
- Foam yield sufficient for up to 12 m² wall area
- Processing temperature environment: +5 °C to +25 °C (can temperature: +10 °C to +25 °C)
- $\cdot \,$ Open Time approx. 10 minutes
- $\cdot\,$ Can be cut within approx. 20 minutes
- Temperature resistant from -40 °C to +90 °C
- · Extremely high heat insulation properties
- · Shear resistance (EN 12090) 38,7 kPa
- Fresh foam stains can be removed immediately with fischer PU cleaner.
- When pressed on, an adhesive surface percentage of at least 40% must be achieved.
- Do not knock the insulation panels against the wall (this damages the foam structure).

1c adhesive foam PUP ETICS 750



PUP WDVS 750 Premium

		Ap- pro-	Languages on the cartridge	Contents	Max. foam yield	Colour	Content per box	Sales unit
		val						
							[pcs]	
	Item no.	DIBt		[ml]	[m²]		[pcs.]	[pcs]
Item								
PUP 750 ETICS	543448 ¹⁾	•	EN	750	approx. 12	light green	12	1

¹⁾ Dangerous goods - no express shipping possible.

1c Premium gun foam PUP B1750

The hardly flammable B1 one-component gun foam





Filling cavities in the insulation



horizontally or during long interruptions

of work, thus guaranteeing long-lasting

The easy dosage allows for a controlled

filling and sealing, and ensures that the

Foaming steel door frames

Applications

- High-efficiency thermal insulation on façades
- · Insulating and filling in roofing work
- Insulating and filling window connection joints, around window sills and shutter boxes
- Insulating and filling finished elements, wall connections, wall penetrations and cavities

Building materials

Bonds to all standard building materials such as:

- · Concrete
- Anodised layer
- · Gypsum plasterboard
- · Wood
- · Sand-lime brick
- · Plastics (not on PE, PP, Teflon, silicone)
- · Masonry
- · Metals
- · Plaster
- · Fiber cement
- · Aerated concrete

Advantages

- The PUFS is hardly flammable in line with the B1 test and can therefore be used between solid, mineral or metal building materials. Thus it provides the highest level of safety.
- The new high-quality safety valve
 prevents adhesion when being stored

Certificates / Features

- General test certificate from building authorities P-NDS04-620
- Proven joint soundproofing: of 10 and 20 mm joint width: Rs,w (C; Ctr) ≥ 63 (-2;-5) dB
- EMICODE® EC1 Plus very low emmission
- · French VOC-emission class A+

Functioning

functionality.

- · 1-component PU foam
- · Building material class B1

correct amount is used.

- · Foam yield of extruded foam 45 l
- Processing temperature environment: +10 °C to +25 °C (can temperature: +10 °C to +25 °C)
- · Non-tacky within approx. 10 minutes
- · Can be cut within approx. 40 minutes
- · Cures within 5 to 8 hours
- Temperature resistant from -40 °C to +90 °C
- Layer thicknesses > 50 mm: foam in several layers and then dampen.
- Fresh foam stains can be removed immediately with fischer PU cleaner.

1c premium gun foam PUP B1 750



PUP B1 750 Premium

		Languages on the cartridge	Contents	Max. foam yield (free foaming)	Colour	Content per box	Sales unit
						[pcs]	
	ltem no.		[ml]	[1]		[pcs.]	[pcs]
Item							
PUP B1 750	045300 ¹⁾	DE, EN	750	45	concrete grey	12	1

 $^{\mbox{\tiny 1)}}$ Dangerous goods - no express shipping possible.

PU foam dispenser PUP K2 Plus

Easy and precisely dosed usage of fischer gun foams.



Advantages

- The light construction facilitates use on construction sites and allows for fatigue-free work.
- Back screw secured against unscrewing protects against loss and is therefore particularly user-friendly.
- The gun adapter is suitable for all standard systems and enables universal application.
- Opened cans can remain screwed onto the gun during interruptions of work without curing.

Foam gun PUP K2 Plus			
	•		
PUP K2 Plus			
		Туре	Sales unit
	ltem no.		[pcs]
Item			
PUP K2	062400	platic gun	1

PU foam dispenser PUP M3

Metal foam gun for 1K gun foam.



Advantages

- The PUP M3 meets the tough requirements of a construction site and thus offers a long lifespan.
- The ergonomic handle allows for an ideal position of centre of gravity, and therefore precise handling.
- · The infinitely variable control of the foam

expulsion allows for a controlled filling and insulating, and enables applicationorientated work. • Back screw secured against unscrewing protects against loss.

• Opened cans can remain screwed onto the gun during interruptions of work without curing.

Metal foam gun PUP M3			
PUP M3			
		Туре	Sales unit
	Item no.		[pcs]
Item			
PUP M3	033208	metal gun	1

PU foam dispenser PUP M4 BLACK

The foam gun with PTFE layering.



Advantages

- The complete PTFE coating reduces cleaning to a minimum.
- Non-return ball and basket are coated with PTFE. This prevents bonding and guarantees a long-lasting function.
- The perfect combination of the ergonomically shaped handle and trigger makes

handling particularly user-friendly.

 The tubes included with the 19 cm long, tapered pistol pipe mean that it can be individually lengthened for use in the narrowest joints, thus offering a high degree of flexibility.

Foam gun PUP M4 BLACK			
-			
PUP M4 black			
		Туре	Sales unit
	ltem no.		[pcs]
Item			
PUP M4 BLACK	513429	metal gun	1

PU cleaner

The universal cleaner for fresh PU foam and the degreasing of non-absorbent surfaces



Advantages

- The active components ensure a high cleaning effect, making the cleaner ideal for the safe removal of fresh PU foam.
- The gun adapter is suitable for all standard systems and enables universal application.
- · The separate spray head allows for the

cleaning of external surfaces, making the product extremely versatile.

 The highly active cleaner can etch sensitive surfaces (paint, dye, textiles, plastics). Thus you should always conduct preliminary tests.

Functioning

- The active components ensure a high cleaning effect, making the cleaner ideal for the safe removal of fresh PU foam.
- The gun adapter is suitable for all standard systems and enables universal application.
- The separate spray head allows for the cleaning of external surfaces, making the product extremely versatile.
- The highly active cleaner can etch sensitive surfaces (paint, dye, textiles, plastics).
- Thus you should always conduct preliminary tests.

Foam gun PUP M4 BLACK	
Fundation Control of C	Recher Recent

PUR 150

PUR 500

		Languages on the cartridge	Contents	Content per box	Sales unit
				[pcs]	
	ltem no.		[ml]	[pcs.]	[pcs]
Item					
PUR 150	053083 ¹⁾	DE	150	12	1
PUR 500	053085 ¹⁾	DE, EN	500	12	1

¹⁾ Dangerous goods - no express shipping possible.

6

Flex MS

The permanently elastic sealant for expansion joints.





Sealing joints of façade panels

Advantages



Exterior movement joints

Applications

- · Joints in the façade area
- Movement and connection joints in interior and exterior areas
- Sealing of connection joints on wooden, plastic and metal windows and doors
- Connection joints inside the building between windows, doors, stairs, ceiling and wall
- Expansion joints between tiles on floors and walls
- Floor joints

Building materials

- · Concrete
- · Masonry, Clinker
- · Hard PVC
- · Glass, glazed surfaces
- · Copper, brass
- · Wood and wood-based materials
- Plaster
- · Brick
- · Steel
- · Zinc
- Eloxal
- · Enamel, tiles, ceramic

Technical data

Languages on the Contents Packaging Colour Content per box Sales unit cartridge Item no. [ml] [pcs.] [pcs] Item 290 Flex MS white 290 ml 558830 DE, EN, FR 12 Cartridge white 1 558831 Flex MS grey 290 ml DE, EN, FR 290 Cartridge 12 grey 1

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The large movement absorption and the low E-module enable the safe absorption of large component movements in the joint.

- The suitability as façade and floor joint sealant according to EN 15651 part 1 and part 4 allows the application in interior and exterior areas.
- The 100% bubble-free curing guarantees a perfect joint appearance in all weather conditions.

Certificates / Features

- · EN 15651-1:2012 F-EXT-INT-CC (25 LM)
- · EN 15651-4:2012 PW-EXT-INT-CC (25 LM)
- EMICODE EC 1 Plus very low emission
- French VOC emission class A+

- The good adhesion, even on damp substrates, allows the product to be applied outdoors regardless of the weather conditions.
- Compatibility with water-based paints and synthetic varnishes allows the sealant to be painted over.
- Very good weathering, aging and UV resistance for permanently safe application indoors and outdoors.

Functioning

- · Chemical base: 1K Hybrid MS-Polymer
- · High elasticity of 25%
- · Processing temperature: +5 °C to +40 °C
- · Curing time 2 3 mm/24h
- · Temperature resistance: -30 °C to +70 °C
- Shrinkage < 4%
- E-module at 100% elasticity 0.45 N/mm²
- Shore A 25
- Adheres even to damp substrates
- · Can be painted over
- Solvent-, isocyanate- and silicone-free
 Very good weathering, aging and UV resistance

Hybrid Adhesive High Tack MS

The elastic adhesive with extremely high initial tack





Bonding of Insulation panels



Bonding of natural tiles

Applications

- Fixing of tiles and slabs, including natural stone
- Bonding of skirting boards, panels, cladding
- Fixing of mirrors
- Substructures made of wood and metal
- · Insulation panels
- · Outdoor fixings

Building materials

- · Natural stone
- Metals
- · Glass
- · Enamel, tiles, ceramics
- · Mirrors
- · Hard PVC
- · Wood and wood-based material
- · Masonry, clinker
- · Concrete
- · Brick

Technical data

Advantages

- The extremely high initial tack allows attachment of add-on parts without additional pre-fixing.
- The elasticity of the adhesive compensates component movements, vibrations and unevenness in the substrate.
- The high-quality raw materials allow use on sensitive substrates such as natural stone or mirror coatings.

Certificates / Features

- · EMICODE EC 1 Plus very low emission
- French VOC emission class A+

- The position of bonded attachments can be corrected within the first 10 minutes.
- The High Tack MS can also be applied to damp substrates outdoors and allows for weather-independent application.
- On smooth and non-absorbent surfaces, the adhesive can be removed without leaving any residue.

Functioning

- Chemical base: 1K Hybrid MS-Polymer
- Application temperature: +5 °C to +40 °C
- Extremely high initial adhesive strength of approx. 500 kg/m²
- · Curing time 2 to 3 mm/24h
- · Stress-equalizing
- Temperature resistance: -40 °C to +90 °C
- · Solvent-, isocyanate- and silicone-free
- · Waterproof and seawater resistant

	ltem no.	Languages on the cartridge	Contents [ml]	Packaging	Colour	Content per box [pcs] [pcs.]	Sales unit [pcs]
Item							
High Tack MS white 290 ml	541712	DE, EN, FR	290	-	white	12	1
High Tack MS white 290 ml	558980	CS, SK	290	-	white	12	1
Ultra MS Express white 290 ml	559068	EN, ES	290	-	white	12	1
KD Ultra BI 290 ml	545169	IT	290	-	white	12	1
V-Nozzle Express Cement	524315	-	-	Polybag	-	5	1

Dispenser KPM 3

The high-quality application gun for silicone cartridges.



Applications

- For low to high viscosity sealants and adhesives.
- For one-component plastic and aluminum cartridges up to 310 ml.

Advantages

- The 18:1 transmission ratio makes extrusion rapid and energy-efficient even in the case of highly viscous materials, thus guaranteeing stressfree work.
- The robust design of the drive block and the push rod meets the tough requirements of a construction site and thus offers a long lifespan.
- · Due to the freely rotatable cartridge shell

and the accessible cartridge, it is possible to align the extrusion nozzle perfectly in place and guarantee applicationorientated work.

• The equipment with a ladder hook facilitates the retraction of the push rod and offers a convenient possibility of depositing during work interruptions.

Dispenser KPM 3			
R)		
KPM 3			
		Adapted for	Sales unit

	ltem no.		[pcs]
Item			
KPM 3	541441	Cartridges with 150 ml, 300 ml, 360 ml and 390 ml content	1

Dispenser KPM 2 Plus

The robust dispenser for cartridges with up to 310 ml volume.



Applications

- For squeezing out 1-component sealant and adhesive cartridges up to 310 ml content
- For squeezing out fischer injection mortars up to 300 ml content

Advantages

- The dispenser can be used for all common 1-component sealant and adhesive cartridges up to 310 ml as well as fischer injection mortars up to 300 ml content.
- The 18:1 transmission ratio enables rapid and gentle squeezing of even highly viscous compounds for maximum application comfort.
- The robust housing with specially hardened push block guarantees reliable and long-lasting processing under deman-

ding construction site conditions.

- The freely accessible and rotatable cartridge insert allows the cartridge to be optimally aligned and reaches even hardto-reach places.
- The adjustable overrun stop prevents dripping, especially of low-viscosity compounds.
- The push rod that is rounded at the back makes it easy to pull back and also convenient to hang the device.

Functioning

- Metal housing with robust paint finish and corrosion-resistant sliding elements.
- Front groove width for inserting the cartridge approx. 26 mm.
- Diameter of the slide plate of 41.5 mm ± 0.1 mm.
- · Compressive strength of 6,000 N.
- · Weight approx. 770 g.



Hammer drill bit Quattric II S / Quattric II

The expert for the best performance in reinforced concrete





Drilling in concrete wall



Drilling in floor plate

Applications

To create approval-compliant drill holes in:

- Reinforced concrete
- Concrete
- Solid brick
- Sand-lime brick
- Also suitable for:
- · Natural stone

Certificates / Features



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) SDS Plus (
$\langle \neg \rangle$

- **Advantages**
- Robust solid carbide head (up to ø 20 mm) for a long service life.
- Massive main cutting edges in combination with the improved break-up performance of the Power Shoulders enable fast drilling progress.
- Integrated reinforcement chamfers prevent jamming in reinforcement.
- Special spiral geometry combines quick drilling progress and increased service life.
- Centering tip for a simple and accurate spot drilling, prevents running on smooth surfaces.
- Wear mark for easy recognition of the wear limit according to PGM.

Functioning

 Four-cutter hammer drill bit with SDS Plus shank enables higher durability in reinforced concrete.

Hammer drill bit Quattric II S / Quattric II

Quattric II S / Quattric II

		Drill diameter	Working length	Total length	Packaging	Contents	Sales unit
		d _o		1			
ll e ur	ltem no.	[mm]	[mm]	[mm]		[pcs.]	[pcs]
Item	E 40070	Г.	50	115	Diantia alia	1	1
Quattric II 5/50/115 5	549973	5	100	105	Plastic clip	1	1
Qualtric II 5/100/105 5	549974	5	50	115	Plastic clip	1	1
Qualtric II 5.5/50/115 5	549971	5.5	100	105	Plastic clip	1	1
Qualific II 5.3/100/103 S	549972	5.5	150	215	Plastic clip	1	1
Quattric II 6/50/115 S	540083	6	50	115	Plastic clip	1	1
Quattric II 6/50/115 S XP5	549903	6	50	115	Plastic tube	5	1
Quattric II 6/100/165 S	540070	6	100	165	Plastic clin	1	1
Quattric II 6/100/165 S XP5	544225	6	100	165	Plastic tube	5	1
Quattric II 6/100/165 S XP10	549980	6	100	165	Plastic tube	10	1
Quattric II 6/150/215 S	549981	6	150	215	Plastic clin	1	1
Quattric II 6/150/215 S XP5	549982	6	150	215	Plastic tube	5	1
Quattric II 6/150/215 S XP10	544185	6	150	215	Plastic tube	10	1
Quattric 6/200/265 S	549985	6	200	265	Plastic clip	1	1
Quattric 6/200/265 S XP5	552131	6	200	265	Plastic tube	5	1
Quattric 6/250/315 S	549986	6	250	315	Plastic clip	1	1
Quattric II 6.5/100/165 S	549975	6.5	100	165	Plastic clip	1	1
Quattric II 6.5/100/165 S XP5	544217	6.5	100	165	Plastic tube	5	1
Quattric II 6.5/150/215 S	549976	6.5	150	215	Plastic clip	1	1
Quattric II 6.5/200/265 S	549977	6.5	200	265	Plastic clip	1	1
Quattric II 6.5/250/315 S	549978	6.5	250	315	Plastic clip	1	1
Quattric II 7/100/165 S	549987	7	100	165	Plastic clip	1	1
Quattric II 8/50/115 S	549993	8	50	115	Plastic clip	1	1
Quattric II 8/100/165 S	549988	8	100	165	Plastic clip	1	1
Quattric II 8/100/165 S XP5	549989	8	100	165	Plastic tube	5	1
Quattric II 8/100/165 S XP10	544216	8	100	165	Plastic tube	10	1
Quattric II 8/150/215 S	549990	8	150	215	Plastic clip	1	1
Quattric II 8/150/21 S XP5	549991	8	150	215	Plastic tube	5	1
Quattric II 8/150/215 S XP10	544186	8	150	215	Plastic tube	10	1
Quattric II 8/200/265 S	549994	8	200	265	Plastic clip	1	1
Quattric II 8/200/265 S XP5	552132	8	200	265	Plastic tube	5	1
Quattric II 8/250/315 S	549992	8	250	315	Plastic clip	1	1
Quattric II 8/300/365 S	549995	8	300	365	Plastic clip	1	1
Quattric II 8/400/465 S	549996	8	400	465	Plastic clip	1	1
Quattric II 10/50/115 S	549928	10	50	115	Plastic clip	1	1
Quattric II 10/100/165 S	549922	10	100	165	Plastic clip	1	1
Quattric II 10/100/165 S XP5	549924	10	100	165	Plastic tube	5	1
Quattric II 10/100/165 S XP10	549923	10	100	165	Plastic tube	10	1
Quattric II 10/150/215 S	549925	10	150	215	Plastic clip	1	1
Quattric II 10/150/215 S XP5	549926	10	150	215	Plastic tube	5	1
Quattric II 10/150/215 S XP10	544187	10	150	215	Plastic tube	10	1
Quattric II 10/200/265 S	549929	10	200	265	Plastic clip	1	1
Quattric II 10/200/265 S XP5	552133	10	200	265	Plastic tube	5	1
Quattric II 10/250/315 S	549927	10	250	315	Plastic clip	1	1
Quattric II 10/300/365 S	544224	10	300	365	Plastic clip	1	1
Quattric II 10/390/455 S	549930	10	390	455	Plastic clip	1	1
Quattric II 10/540/600 S	544222	10	540	105	Plastic clip	1	1
Qualific II 12/110/103 5	549932	12	110	165	FidSUC CIIP	5	1
Qualific II 12/110/103 5 AP3	552120	12	110	165	Plastic tube	10	1
Qualifie II 12/110/103 5 XP10	540020	12	160	215	Plastic clip	1	1
Qualifie II 12/100/213 5	549930	12	160	215	Plastic tube	5	1
Qualific II 12/160/213 3 AP3	549937	12	160	215	Plastic tube	10	1
Qualitie II 12/100/213 3 API0	540024	12	210	265	Plastic clin	1	1
Qualitic II 12/210/203 3	540029	12	210	265	Plastic tube	5	1
Qualitie II 12/210/203 3 AF3	552120	12	210	265	Plastic tube	10	1
Qualitie II 12/210/203 3 AF 10	332130	14	210	200		10	1 '

Technical data

Hammer drill bit Quattric II S / Quattric II

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Quattric II S / Quattric II

		Drill diameter	Working length	Total length	Packaging	Contents	Sales unit
		d _o		1			
	ltem no.	[mm]	[mm]	[mm]		[pcs.]	[pcs]
Item							
Quattric II 12/260/315 S	549939	12	260	315	Plastic clip	1	1
Quattric II 12/400/455 S	549935	12	400	455	Plastic clip	1	1
Quattric II 12/550/600 S	544213	12	550	600	Plastic clip	1	1
Quattric II 12/950/1000 S	549931	12	950	1,000	Plastic clip	1	1
Quattric II 14/110/165 S	549941	14	110	165	Plastic clip	1	1
Quattric II 14/110/165 S XP5	544220	14	110	165	Plastic tube	5	1
Quattric II 14/160/215 S	549944	14	160	215	Plastic clip	1	1
Quattric II 14/160/215 S XP5	544221	14	160	215	Plastic tube	5	1
Quattric II 14/160/215 S XP10	544189	14	160	215	Plastic tube	10	1
Quattric II 14/210/265 S	549942	14	210	265	Plastic clip	1	1
Quattric II 14/260/315 S	549945	14	260	315	Plastic clip	1	1
Quattric II 14/400/455 S	549943	14	400	455	Plastic clip	1	1
Quattric II 14/550/600 S	544223	14	550	600	Plastic clip	1	1
Quattric II 14/950/1000 S	549940	14	950	1,000	Plastic clip	1	1
Quattric II 15/110/165 S	549946	15	110	165	Plastic clip	1	1
Quattric II 15/160/215 S	549947	15	160	215	Plastic clip	1	1
Quattric II 15/210/265 S	544215	15	210	265	Plastic clip	1	1
Quattric II 16/110/165 S	549950	16	110	165	Plastic clip	1	1
Quattric II 16/160/215 S	549951	16	160	215	Plastic clip	1	1
Quattric II 16/210/265 S	549952	16	210	265	Plastic clip	1	1
Quattric II 16/260/315 S	549953	16	260	315	Plastic clip	1	1
Quattric II 16/400/455 S	549954	16	400	455	Plastic clip	1	1
Quattric II 16/550/600 S	549955	16	550	600	Plastic clip	1	1
Quattric II 16/950/1000 S	549948	16	950	1,000	Plastic clip	1	1
Quattric II 18/200/250 S	549956	18	200	250	Plastic tube	1	1
Quattric II 18/400/450 S	549957	18	400	450	Plastic tube	1	1
Quattric II 20/200/250 S	549958	20	200	250	Plastic tube	1	1
Quattric II 20/400/450 S	549959	20	400	450	Plastic tube	1	1
Quattric II 22/200/250	549960	22	200	250	Plastic tube	1	1
Quattric II 22/400/450	549961	22	400	450	Plastic tube	1	1
Quattric II 24/200/250	549962	24	200	250	Plastic tube	1	1
Quattric II 24/400/450	549963	24	400	450	Plastic tube	1	1
Quattric II 25/200/250	549964	25	200	250	Plastic tube	1	1
Quattric II 25/400/450	549965	25	400	450	Plastic tube	1	1
Quattric II 28/200/250	549966	28	200	250	Plastic tube	1	1
Quattric II 28/400/450	549967	28	400	450	Plastic tube	1	1
Quattric II 30/200/250	549968	30	200	250	Plastic tube	1	1
Quattric II 30/400/450	549969	30	400	450	Plastic tube	1	1
Quattric II 32/400/450	549970	32	400	450	Plastic tube	1	1
Technical data

Hammer drill bit Quattric II S / Quattric II



Quattric II S Set

		Packaging	Contents	Sales unit
	ltem no.			[pcs]
Item				
Quattric II S Set 5-12 mm (7)	553210	Assortment box	7 pcs: 5/50/115, 6/50/115, 6/100/165, 8/50/115, 8/100/165, 10/100/165, 12/110/165	1

Technical data

Hammer drill bit Quattric II inch

Quattric II

		Drill diameter	Working length	Total length	Packaging	Contents	Sales unit
		d _o		I			
	Item no.	[in]	[in]	[in]		[pcs.]	[pcs]
Item							
Quattric II 1/2 x 6 1/4	510585	1/2	4	6 1/4	Plastic clip	1	1
Quattric II 1/2 x 12 1/4	510586	1/2	10	12 1/4	Plastic clip	1	1
Quattric II 1/4 x 6 1/4	510572	1/4	4	6 1/4	Plastic clip	1	1
Quattric II 3/8 x 6 1/4	510579	3/8	4	6 1/4	Plastic clip	1	1
Quattric II 3/8 x 12 1/4	510580	3/8	10	12 1/4	Plastic clip	1	1
Quattric II 5/16 x 6 1/4	510576	5/16	4	6 1/4	Plastic clip	1	1
Quattric II 7/16 x 12 1/4	510583	7/16	10	12 1/4	Plastic clip	1	1

Masonry drill bit Pointer U

The specialist for masonry with SDS Plus shank





Drilling in perforated brick



Drilling in material combinations

Applications

- Particularly suitable for drilling into vertically perforated brick without cracking
- Ideal for drilling in material combinations

Certificates / Features



Advantages

- Robust and diamond sharpened carbide tip ensures precise and fast drilling progress in different materials.
- The shortened SDS Plus shank reduces the impact force on the drill bit and thus avoids fractures in building material webs for best load-bearing capacity in all types

Building materials

To create drill holes in:

- · Concrete
- · Hollow bricks
- Aerated concrete
- Perforated sand-lime bricks
- Tiles
- · Wood
- Metal sheets

Ideal for the following anchoring of:

• Frame or ETICS fixings, e.g. SXRL, FIS HK, fischer TherMax as well as VBS-M

Versions

· Shortened SDS Plus shank

- of vertically perforated bricks.
- A large-volume drill flute guarantees fast removal of the drill dust.
- Universal use in different materials saves time and costs.
- PGM certification guarantees precise hold of fixings in the drill hole.

Functioning

- Shortened SDS Plus shank reduces the impact force of the machine on the drill bit and prevents damage to the substrate.
- · Drilling without impact is recommended.

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Technical data

Masonry drill bit Pointer U

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Pointer U

6

		Drill diameter	Working length	Total length	Packaging	Contents	Sales unit
		d _o		1			
	Item no.	[mm]	[mm]	[mm]		[pcs.]	[pcs]
Item							
Pointer U 6/200/260	568179	6	200	260	Plastic clip	1	1
Pointer U 8/50/110	568180	8	50	110	Plastic clip	1	1
Pointer U 8/100/160	568181	8	100	160	Plastic clip	1	1
Pointer U 8/150/210	568182	8	150	210	Plastic clip	1	1
Pointer U 8/200/260	568183	8	200	260	Plastic clip	1	1
Pointer U 8/400/450	568184	8	400	450	Plastic clip	1	1
Pointer U 10/100/160	568185	10	100	160	Plastic clip	1	1
Pointer U 10/150/210	568186	10	150	210	Plastic clip	1	1
Pointer U 10/200/260	568187	10	200	260	Plastic clip	1	1
Pointer U 12/100/160	568188	12	100	160	Plastic clip	1	1
Pointer U 12/150/210	568189	12	150	210	Plastic clip	1	1
Pointer U 12/200/260	568190	12	200	260	Plastic clip	1	1
Pointer U 14/200/260	568191	14	200	260	Plastic clip	1	1
Pointer U 16/200/260	568192	16	200	260	Plastic clip	1	1
Pointer U 16/400/450	568193	16	400	450	Plastic clip	1	1
Pointer U 18/400/450	568194	18	400	450	Plastic clip	1	1
Pointer U 20/400/450	568195	20	400	450	Plastic clip	1	1



7 Basics - good to know.

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Intensive support. fischer advises on your construction site.

fischer field specialists

- We support our customers on site at the construction site. We advise and help to fasten everything professionally. Tensile tests and fastening tests on site provide additional safety.
- Target-oriented not only in terms of safety: Together with our customers, we work out fastening solutions on site that are effective and economical. The installation procedures are optimised taking into account the general progress of the construction site.
- The training offered for customers and their employees provides targeted support for daily applications and imparts specialised knowledge.

fischer specialists on the technical hotline

- The same applies on the phone: the engineers and technicians who answer the questions have many years of practical experience and know how to correctly assess the trade-specific requirements.
- We are reliable contacts for our customers on the phone when it comes to building materials, loads, anchor dimensions, anchoring topics, approvals or the design of connecting parts.
- Major projects require fastening know-how to a particularly high degree. On request, one of the fischer experts can become a permanent part of the construction site management team.

Your contact for technical advice

International Technical Support intsupport@fischer.de



fischer competence. This makes for solid planning.

The permanent fixture for planners and structural engineers

- We support planners and structural engineers to effectively save time and costs which has an impact on all phases of construction.
- Ideally, cooperation begins in the preliminary phase, for example in the economic optimisation of anchoring constructions, in the dimensioning of special constructions and in sample dimensioning.
- The tried-and-tested fischer FiXperience software is a standard tool in many planning offices.

Solution competence for particularly difficult cases

- We provide effective help when existing anchorages have not been executed according to plan or regulations.
- Even if the anchoring base does not conform to the approval, we will find a safe and reliable solution.

Your contact for technical advice

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The fischer design Software FiXperience gives you safe and reliable support in dimensioning your projects whether you are a planer, structural engineer or craftsman. FiXperience is set up modularly and useable for a variety of applications. The program includes an engineering software with special application modules:



C-FIX

The anchor design program for steel and bonded anchor in concrete, as well as injection systems for masonry. Now with the new FEM design tool for the realistic design of anchorages.



WOOD-FIX

For the calculation of on-rafter insulation systems and joints in structural timber engineering.



INSTALL-FIX For the design and dimensioning of MEP installation systems.



REBAR-FIX For the design of post-installed rebars in reinforced concrete.



SOLARPANEL-FIX

For the design and dimensioning of mounting systems for photovoltaic panels.



MORTAR-FIX

To determine the injection resin volume for bonded anchors in concrete and masonry.



RAIL-FIX

For the design of fixings for railings on reinforced concrete slabs and staircases.



FACADE-FIX For the design of façade fixings with timber sub-structure.



CHANNEL-FIX For the design of cast-in channels and inserts.

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- · Tips for installation
- · Application aids
- Detailed technical data and drawings
- Basics of fastening technology
- $\cdot\,$ All you need to know about professional fixing

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- · Application support.
- · Basic knowledge about undercut anchors and subframe systems.
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Basic · Subsidiaries

Germany

fischer Deutschland Vertriebs GmbH Klaus-Fischer-Straße 1 72178 Waldachtal P +49 7443 12-6000 F +49 7443 12-4500 info@fischer.de www.fischer.de

Argentina

fischer Argentina S.A. Armenia 3044 1605 Munro Ra-PCIA Buenos Aires P +54 1147 21 7700 F +54 1147 56 13 11 asistenciatecnica@fischer.com.ar www.fischer.com.ar

Austria

7

fischer Austria GmbH Wiener Straße 95 2514 Traiskirchen P +43 2252 53730 0 F +43 2252 53730 70 office@fischer.at www.fischer.at

Belgium

fischer Cobemabel s.n.c Schaliënhoevedreef 20 D 2800 Mechelen P +32 152 8 47 00 F +32 152 8 47 10 info@fischer.be www.fischer.be

Brazil

fischer Brasil Indústria Comércio Ltda. Estrada do Dende, 300 Ilha do Governador 21920-001 Rio de Janeiro-RJ P +55 21 2467 87 96 F +55 21 2467 01 44 fischer@fischerbrasil.com.br www.fischerbrasil.com.br

Bulgaria fischer Bulgaria EOOD

G.M.Dimitrov Blrd floor 3, app. 13 P +43 2252 53730 0 F +43 2252 53730 70 office@fischer.at www.fischer.at

Croatia

Fischer Hrvatska d.o.o. Betinska 1 10010 Zagreb P +43 2252 53730 0 F +43 2252 53730 70 office@fischer.at www.fischer.at

China

fischer (Taicang) fixings Co. Ltd. No. 17, Lane 166, Guchuan Road, 14th Floor, Building 2, Zhongjun Tianyue Center 200333 Shanghai P +86 21 51 00 16 68 F +86 21 65 97 96 22 ficn@fischer.com.cn www.fischer.com.cn

Denmark

fischer a/s Sandvadsvej 17 A 4600 Køge P +45 46 32 02 20 F +45 46 32 50 52 fidk@fischerdanmark.dk www.fischerdanmark.dk

Finland

fischer Finland Oy Suomalaistentie 7 B 02270 Espoo P +358 20 741 46 60 F +358 20 741 46 69 orders@fischerfinland.fi www.fischerfinland.fi

France

fischer S. A. S. 12, rue Livio, P. O. Box 10182 67022 Strasbourg-Cedex 1 P +33 388 39 18 67 F +33 388 39 80 44 info@fischer.fr www.fischer.fr

Greece

fischer Hellas Kalavriton 2 & Kaiafa 14564 Kifissia, Athens P +30 21 02 83 81 67 F +30 21 02 83 81 69 info@fischer.gr www.fischer.gr

Hungary

fischer Hungária Bt. Szerémi út 7/b 1117 Budapest P +36 1 347 97 55 F +36 1 347 97 66 info@fischerhungary.hu www.fischerhungary.hu

India

fischer Building Materials India PVT Ltd. Unit 101, First Level, No. 3 (Old 4), Prestige Sigma, Vittal Mallya Road, Ward No. 76, Richmond Town 560001 Bangalore, Karnataka P +91 0804 1511 991/92/93 F +91 0804 1511 999 info@fischer.in www.fischer.in

Italy

fischer italia S.r.L Corso Stati Uniti, 25, Casella Postale 391 35127 Padova Z.I. Sud P +39 049 8 06 31 11 F +39 049 8 06 34 01 sercli@fischeritalia.it www.fischeritalia.it

Japan

fischer Japan K.K. Seishin Kudan Building 3rd Floor 3-4-15 Kudan Minami Chiyoda-ku, 102-0074 Tokyo P +81 33 26 34 49 1 F +81 36 27 29 93 5 info@fischerjapan.co.jp www.fischerjapan.co.jp

Mexico

fischer Sistemas de Fijación, S.A. de C.V. Blvd. Manuel Avila Camacho 3130-400B 54020 Col. Valle Dorado, Tlalnepantla P +52 55 55 72 08 83 F +52 55 55 72 15 90 info@fischermex.com.mx www.fischermex.com.mx

The Netherlands

fischer Benelux B.V. Gooimeer 14 1411 DE Naarden P +31 35 6 95 66 66 F +31 35 6 95 66 99 info@fischer.nl www.fischer.nl

Norway

fischer Norge AS Oluf Onsumsvei 9 0680 Oslo P +47 23 24 27 10 F +47 23 24 27 13 ordre@fischernorge.no www.fischernorge.no

The Philippines

fischer PH Asia, Inc. No 100 Congressional Avenue, Project 8 1106 Quezon City, Metro Manila P +63 28 36 25 102 F +63 28 80 32 56 joselito.ladlad@fischerph.com www.fischer.ph

Poland

fischer Polska Sp.z o.o ul. Albatrosow 2 30-716 Kraków P +48 12 2 90 08 80 F +48 12 2 90 08 88 info@fischerpolska.pl www.fischerpolska.pl

Portugal

fischerwerke Portugal, Lda.

Rua das Musas, Passeio dos Cruzados Lote 2.01 (Bloco3), Loja 8 (01.D) / Parque das Nações, 1990-171 Lisboa P +351 218 954 180 F +351 218 967 066 fischerportugal.info@fischer.pt www.fischer.pt

Qatar

fischer fasteners QD Trading WLL Building No. 233, Office No. 8A, 1st Floor, Street No. – 230, Zone No. 41 C Ring Road, 35190 Doha enquiry@fischer.qa www.fischer.qa

Romania

fischer fixings Romania S.R.L. Strada Oradiei, Nr. 1-3-5-7 400220 Cluj Napoca, Judetul Cluj P +40 264 455 166 F +40 264 403 060 zoltan.kovacs@fischer.com.ro www.fischer.com.ro

Russia

OOO fischer Befestigungssysteme Rus Leningradskoe shosse, 47, Bldg. 2, 2nd floor, apt. VI, 125195 Moscow P +7 495 223 61 62 F +7 495 223 03 34 info@fischerfixing.ru www.fischerfixing.ru

Serbia

Fischer Fixing Systems d.o.o. Samarska 5 11071 Novi Beograd Srbija

Singapure

fischer systems Asia Pte. Ltd. 4 Kaki Bukit Avenue 1, #01-06 417939 Singapore P +65 6741 0480 F +65 6741 0481 sales@fischer.sg www.fischer.sg

Slovakia

fischer SK. s.r.o. Nová Rožňavská 134 A 831 04 Bratislava P +421 2 4920 60 46 F +421 2 4920 60 44 info@fischerwerke.sk www.fischer-sk.sk

Spain

fischer ibérica S.A.U. Klaus Fischer 1 43300 Mont-Roig del Camp Tarragona P +34 977 83 87 11 F +34 977 83 87 70 servicio.cliente@fischer.es www.fischer.es

South Korea

fischer Korea Co., Ltd (fikr) 2nd Floor, Samryung Bd. 55 Maeheon-ro 6-gil, Seocho-gu,u, Seoul, Korea 08390 P +82 1544 89 55 F +82 1544 89 03 info@fischerkorea.com www.fischerkorea.com 4

Sweden

fischer Sverige AB Nygatan 93 602 34 Norrköping P +46 11 31 44 50 info@fischersverige.se www.fischersverige.se

Türkiye

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fischer Metal Sanayi Ve Ticaret Ltd Şti

Cevizli Mahallesi Mustafa Kemal Paşa Cad. Seyit Gazi Sok. No 66, Hukukçular Towers A Blok, 34865 Kartal İstanbul P +90 216 326 00 66 F +90 216 326 00 18 info@fischer.com.tr www.fischer.com.tr

Ukaraine

TOV fischer Befestigungssysteme Ukraine 04050 Kyiv, Mykoly Pymonenko str 13. bldg. 7B, office 13 FORUM business city

United Kingdom (UK)

fischer fixings UK Ltd. Whitely Road Oxon OX10 9AT Wallingford P +44 1491 82 79 00 F +44 1491 82 79 53 info@fischer.co.uk www.fischer.co.uk

Unites States of America

fischer fixings LLC (fius) 205 US HWY 46, Suite 4 07512 Totowa, New Jersey P +1 973 256 30 45 F +1 845 625 26 66 sales@fischerus.net www.fischerfixings.com

United Arab Emirates

fischer FZE R/A 07, BA - 04, Jebel Ali Free Zone Dubai P.O. Box 261738 P +97 14 8 83 74 77 F +97 14 8 83 74 76 enquiry@fischer.ae www.fischer.ae

Vietnam

fischer production Company Limited – Tay Ninh Branch Lot 36-23-B, 36-24, D14A Road, Phuoc Dong Industrial Park, Phuoc Dong Commune, Go Dau District, Tay Ninh Province info@fischer.vn

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fischerwerke GmbH & Co. KG Klaus-Fischer-Straße 1 · 72178 Waldachtal Germany P +49 7443 12 - 0 www.fischer-international.com · info@fischer.de

