

DICHIARAZIONE DI PRESTAZIONE

DoP 0298

per fischer TermoZ CS II 8 / fischer TermoZ CS II 8 DT 110 V (Fissaggio in plastica per il fissaggio di sistemi compositi di isolamento termico esterno con intonaco)

IT

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|--|--|---|----------------|----------------------------|-------------|-------------------|-------------|--|-------------|--------------|-------------|---------------------------------------|-------------|---|-------------|-------------------------|-------------|--|-------------|--|-------------|
| 1. <u>Codice di identificazione unico del prodotto-tipo:</u> | DoP 0298 | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Usi previsti:</u> | Fissaggio plastico ad avvitamento avvitato per il fissaggio di sistemi compositi di isolamento termico esterno con intonaco in calcestruzzo e muratura, vedi appendice, in particolare gli allegati da B1-B3. | | | | | | | | | | | | | | | | | | | | |
| 3. <u>Fabbricante:</u> | fischerwerke GmbH & Co. KG, Klaus-Fischer-Str. 1, 72178 Waldachtal, Germany | | | | | | | | | | | | | | | | | | | | |
| 4. <u>Mandatario:</u> | – | | | | | | | | | | | | | | | | | | | | |
| 5. <u>Sistemi di VVCP:</u> | 2+ | | | | | | | | | | | | | | | | | | | | |
| 6. <u>Documento per la valutazione europea:</u>
Valutazione tecnica europea:
Organismo di valutazione tecnica:
Organismi notificati: | EAD 330196-01-0604
ETA-14/0372; 2022-05-08
ETA-Danmark A/S
2873 TU Darmstadt | | | | | | | | | | | | | | | | | | | | |
| 7. <u>Prestazioni dichiarate:</u>
Sicurezza in uso (BWR 4)
Capacità portante caratteristica:

Spostamenti:

Rigidità della piastra:

Risparmio energetico e ritenzione del calore (BWR 6)
Trasmittanza termica: | <table border="0"><tr><td>Resistenza caratteristica sotto carico di trazione:</td><td>Allegati C1-C2</td></tr><tr><td>Distanza dal bordo minima:</td><td>Allegato B2</td></tr><tr><td>Interasse minimo:</td><td>Allegato B2</td></tr><tr><td>Carico di trazione con fattore parziale:</td><td>Allegato C4</td></tr><tr><td>Spostamenti:</td><td>Allegato C4</td></tr><tr><td>Diametro della piastra del fissaggio:</td><td>Allegato C3</td></tr><tr><td>Resistenza della piastra del fissaggio:</td><td>Allegato C3</td></tr><tr><td>Rigidità della piastra:</td><td>Allegato C3</td></tr><tr><td>Trasmittanza termica puntuale di un fissaggio:</td><td>Allegato C3</td></tr><tr><td>Spessore dello strato di isolamento del sistema ETICS:</td><td>Allegato C3</td></tr></table> | Resistenza caratteristica sotto carico di trazione: | Allegati C1-C2 | Distanza dal bordo minima: | Allegato B2 | Interasse minimo: | Allegato B2 | Carico di trazione con fattore parziale: | Allegato C4 | Spostamenti: | Allegato C4 | Diametro della piastra del fissaggio: | Allegato C3 | Resistenza della piastra del fissaggio: | Allegato C3 | Rigidità della piastra: | Allegato C3 | Trasmittanza termica puntuale di un fissaggio: | Allegato C3 | Spessore dello strato di isolamento del sistema ETICS: | Allegato C3 |
| Resistenza caratteristica sotto carico di trazione: | Allegati C1-C2 | | | | | | | | | | | | | | | | | | | | |
| Distanza dal bordo minima: | Allegato B2 | | | | | | | | | | | | | | | | | | | | |
| Interasse minimo: | Allegato B2 | | | | | | | | | | | | | | | | | | | | |
| Carico di trazione con fattore parziale: | Allegato C4 | | | | | | | | | | | | | | | | | | | | |
| Spostamenti: | Allegato C4 | | | | | | | | | | | | | | | | | | | | |
| Diametro della piastra del fissaggio: | Allegato C3 | | | | | | | | | | | | | | | | | | | | |
| Resistenza della piastra del fissaggio: | Allegato C3 | | | | | | | | | | | | | | | | | | | | |
| Rigidità della piastra: | Allegato C3 | | | | | | | | | | | | | | | | | | | | |
| Trasmittanza termica puntuale di un fissaggio: | Allegato C3 | | | | | | | | | | | | | | | | | | | | |
| Spessore dello strato di isolamento del sistema ETICS: | Allegato C3 | | | | | | | | | | | | | | | | | | | | |
| 8. <u>Documentazione tecnica appropriata e/o documentazione tecnica specifica:</u> | – | | | | | | | | | | | | | | | | | | | | |

La prestazione del prodotto sopra identificato è conforme all'insieme delle prestazioni dichiarate. La presente dichiarazione di prestazione è emessa, in conformità al regolamento (UE) n. 305/2011, sotto la sola responsabilità del fabbricante sopra identificato.

Firmato a nome e per conto del fabbricante da:



Dr.-Ing. Oliver Geibig, Direttore Generale Unità di Business & Engineering
Tumlingen, 2022-05-16



Jürgen Grün, Direttore Generale Chimica & Qualità

Questa Dichiarazione di Prestazione (DoP) è stata preparata in varie lingue. In caso di contestazioni sull'interpretazione, prevarrà sempre la versione inglese.

L'Appendice include informazioni volontarie e complementari in lingua inglese che superano i requisiti di legge (lingua specificata in modo neutrale).

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product

The screwed-in anchors fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V are used for fixing of external thermal insulation composite systems (ETICS). The fischer TermoZ CS II 8 consists of an anchor sleeve made of polypropylene with a diameter of 8 mm and an insulation plate made of glass-fiber reinforced polyamide with a diameter of 60 mm. The fischer TermoZ CS II 8 DT 110 V consists of an anchor sleeve made of polypropylene with a diameter of 8 mm and an insulation plate made of glass-fiber reinforced polyamide with a diameter of 110 mm. The color of the anchor sleeve is grey. The special compound screw is made of galvanised steel and glass-fiber reinforced polyamide. The anchor is expanded by screwing the screw into the sleeve. It is possible to install the anchor flush or countersunk mounted to the surface of the insulation.

The product description is given in Annex A.

2 Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter EAD)

The performances given in Section 3 are only valid if the anchor is used in compliance with the specifications and conditions given in Annex B1 to B3.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the anchor of 25 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Characteristics of product

Safety in case of fire (BWR 2):

No Performance Assessed.

Safety in use (BWR4):

The essential characteristics are detailed in Annex B2 and Annex C1 to C4.

Energy economy and heat retention (BWR6):

The essential characteristics are detailed in the Annex C3.

Other Basic Requirements are not relevant.

General aspects

The verification of durability is part of testing of the essential characteristics. Durability is only ensured if the specifications of intended use according to Annex B are taken into account.

3.2 Methods of assessment

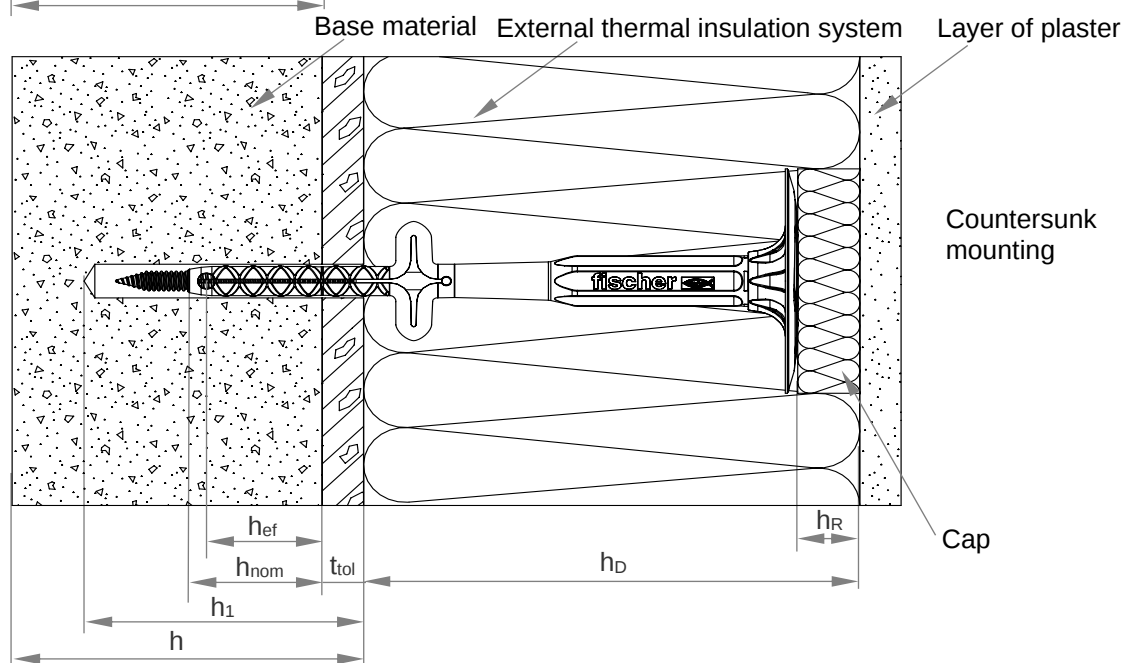
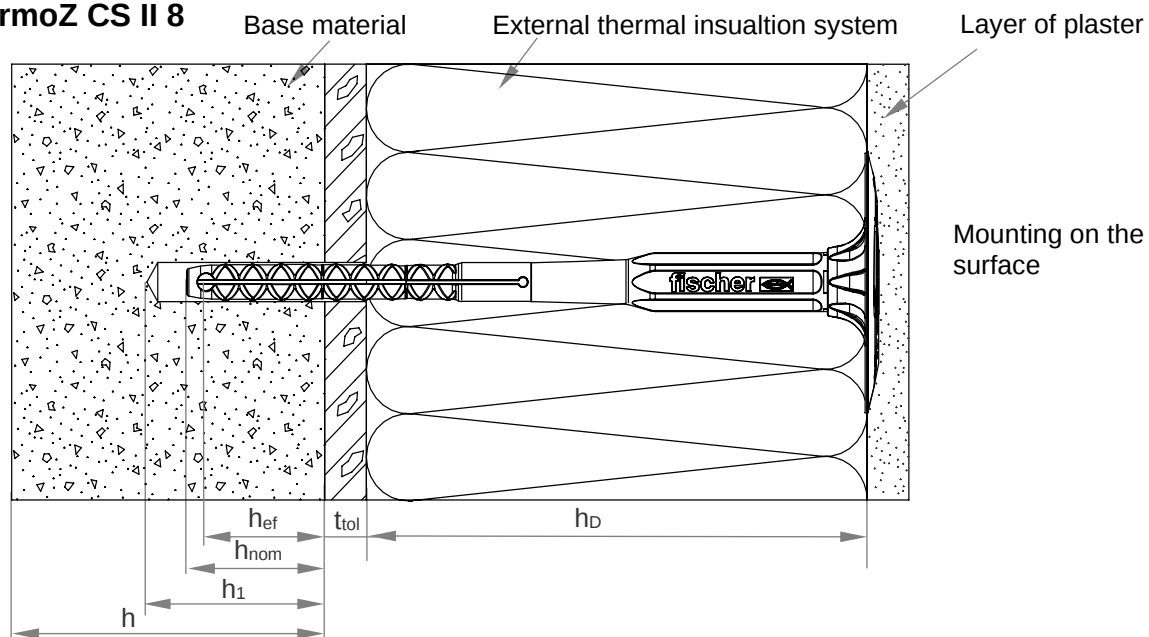
The assessment of fitness of the anchor for the intended use in relation to the requirements for mechanical resistance and stability and safety in use in the sense of the Basic Requirements 4 has been made in accordance with the EAD 330196-01-0604 Plastic anchors made of virgin or non-virgin material for fixing of external thermal insulation composite systems with rendering.

4 Assessment and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision 97/463/EC of the European Commission, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 2+.

TermoZ CS II 8



Legend

h_{nom}	=	Overall plastic anchor embedment depth in the base material
h_{ef}	=	Effective anchorage depth in the base material
h_1	=	Depth of drilled hole to deepest point
h	=	Thickness of member (wall)
h_D	=	Thickness of insulation material
t_{tol}	=	Thickness of equalising layer and / or non-load-bearing coating
h_R	=	Thickness of cap

Figures not to scale

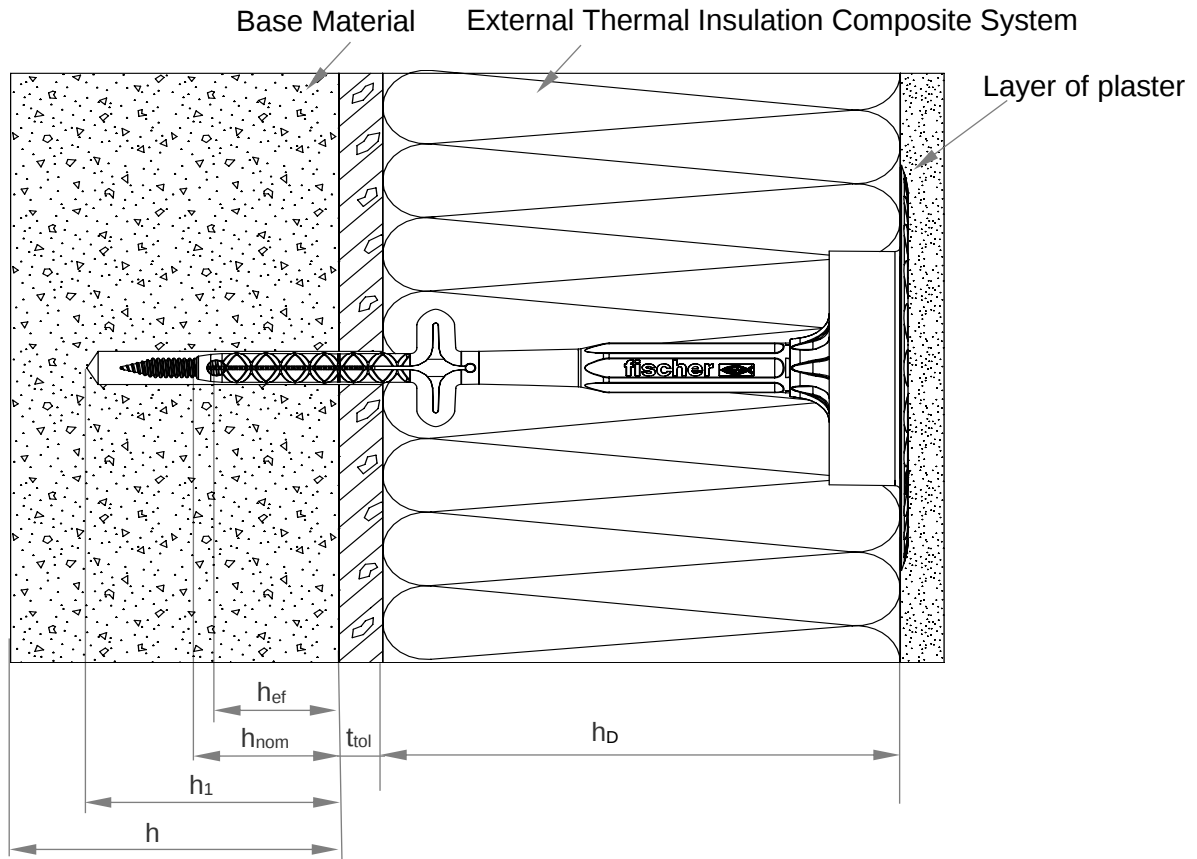
fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V

Product description

Installed anchor TermoZ CS II 8

Annex A1

TermoZ CS II 8 DT 110 V



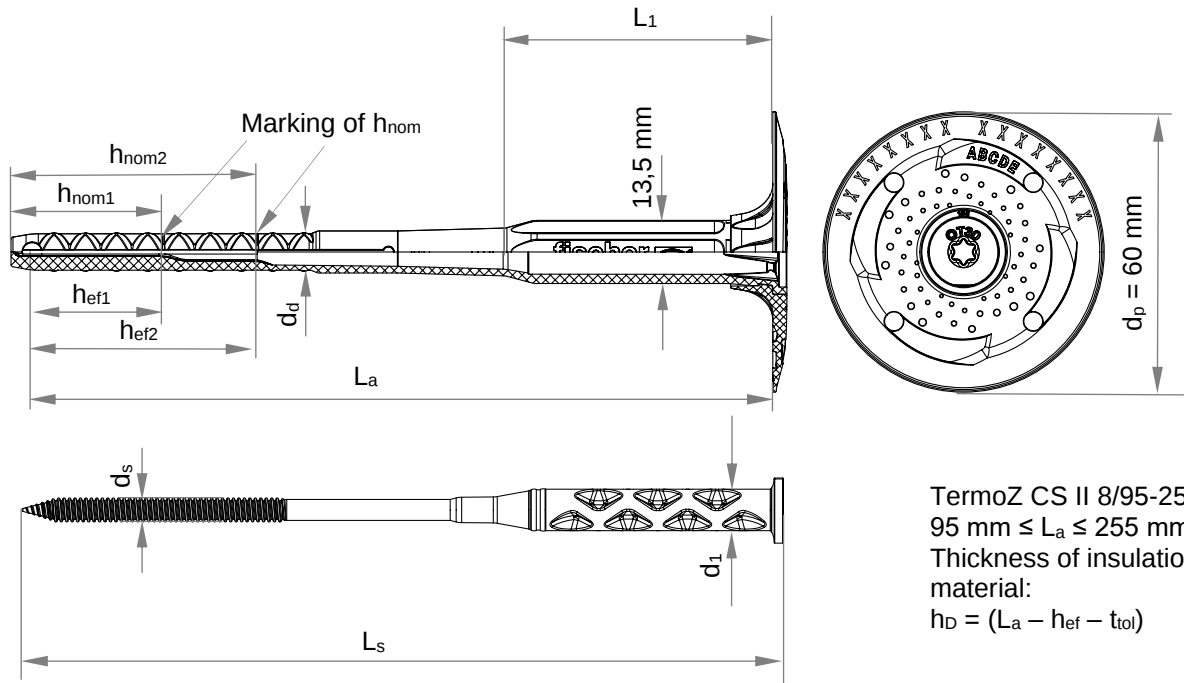
Legend

- h_{nom} = Overall plastic anchor embedment depth in the base material
- h_{ef} = Effective anchorage depth in the base material
- h_1 = Depth of drilled hole to deepest point
- h = Thickness of member (wall)
- h_D = Thickness of insulation material
- t_{tol} = Thickness of equalising layer and / or non-load-bearing coating

Figure not to scale

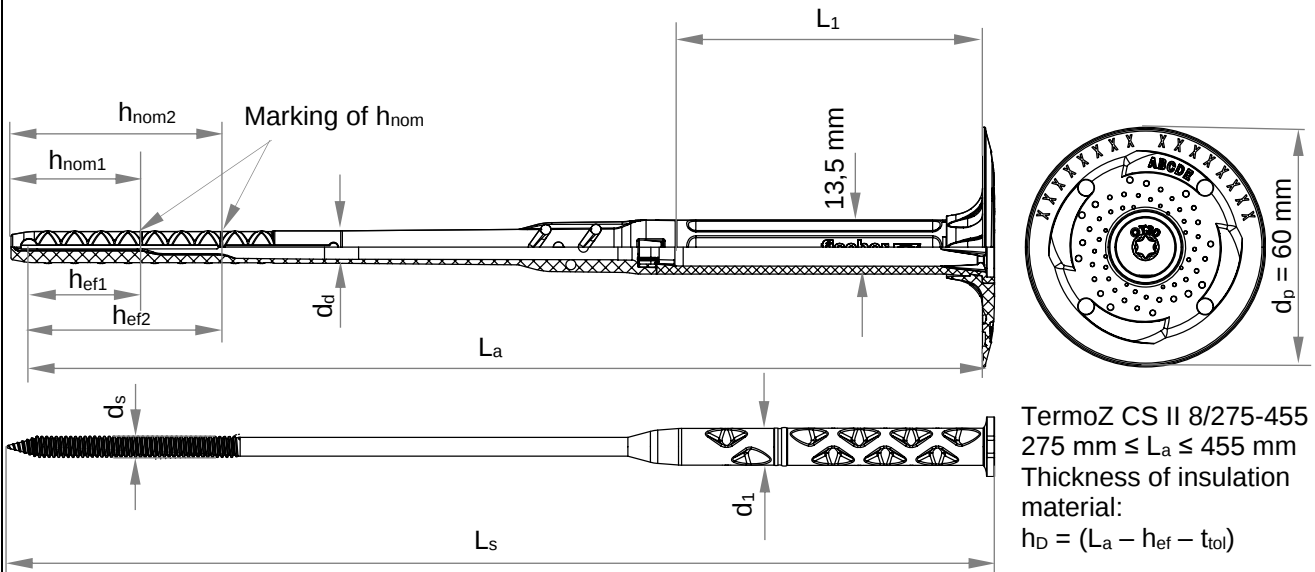
fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V	Annex A2
Product description Installed anchor TermoZ CS II 8 DT 110 V	

Anchor sleeve / Specific screw for TermoZ CS II 8/95-255



TermoZ CS II 8/95-255
 $95 \text{ mm} \leq L_a \leq 255 \text{ mm}$
 Thickness of insulation material:
 $h_D = (L_a - h_{ef} - t_{tol})$

Anchor sleeve / Specific screw for TermoZ CS II 8/275-455



TermoZ CS II 8/275-455
 $275 \text{ mm} \leq L_a \leq 455 \text{ mm}$
 Thickness of insulation material:
 $h_D = (L_a - h_{ef} - t_{tol})$

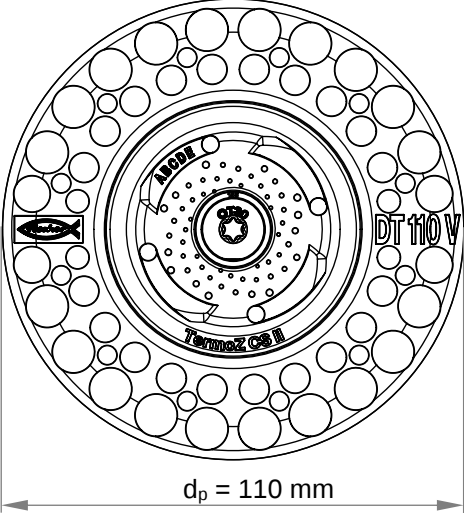
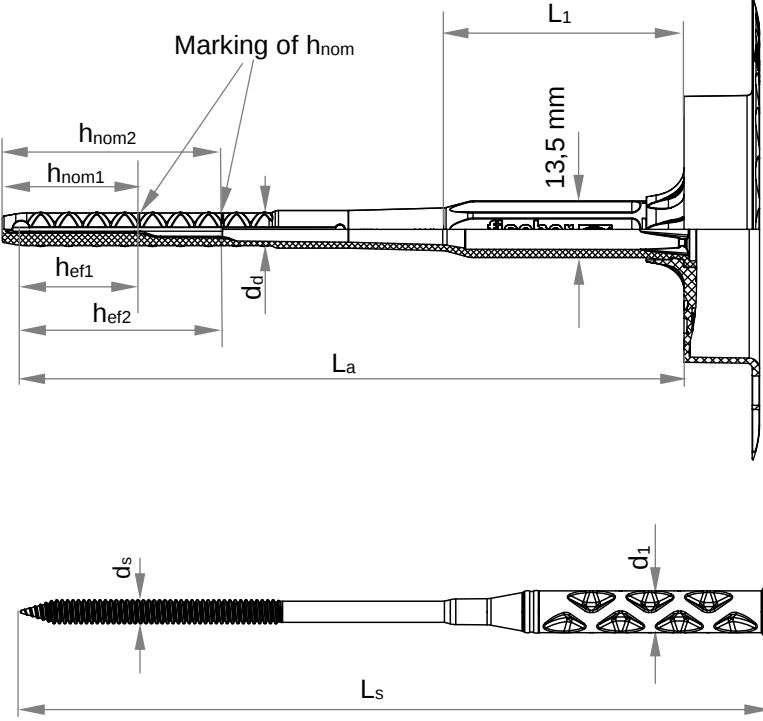
Figures not to scale

fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V

Product description
 Dimensions TermoZ CS II 8

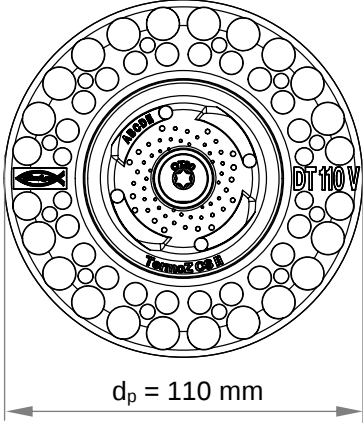
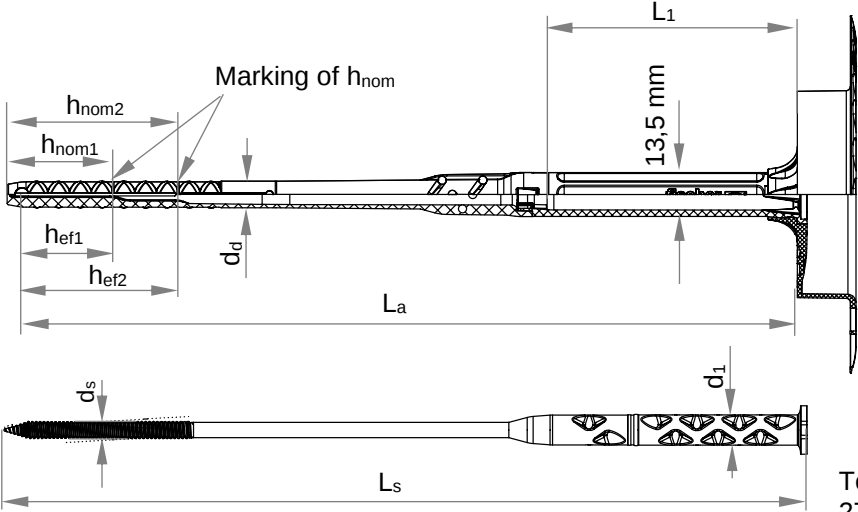
Annex A3

TermoZ CS II 8/115-255 DT 110 V



TermoZ CS II 8/115-255 DT 110 V:
115 mm ≤ L_a ≤ 255 mm
Thickness of insulation
material:
 $h_D = (L_a - h_{ef} - t_{tol})$

TermoZ CS II 8/275-455 DT 110 V



TermoZ CS II 8/275-455 DT 110 V:
275 mm ≤ L_a ≤ 455 mm
Thickness of insulation
material:
 $h_D = (L_a - h_{ef} - t_{tol})$

Figures not to scale

fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V

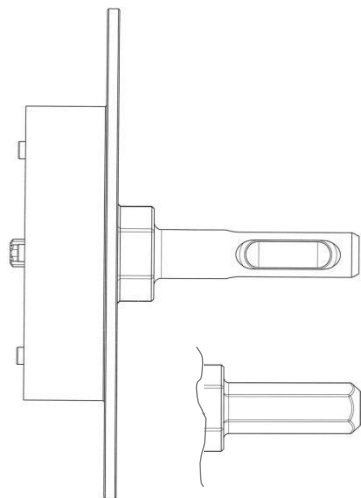
Product description
Dimensions TermoZ CS II 8 DT 110 V

Annex A4

Setting tool with SDS adapter or hexagonal adapter available

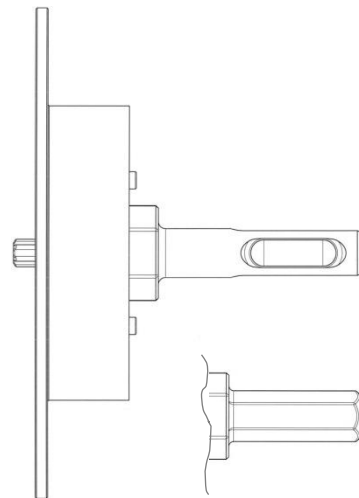
Countersunk setting of anchor TermoZ CS II 8
and setting of TermoZ CS II 8 DT 110 V

Note: not possible for TermoZ CS II 8/95

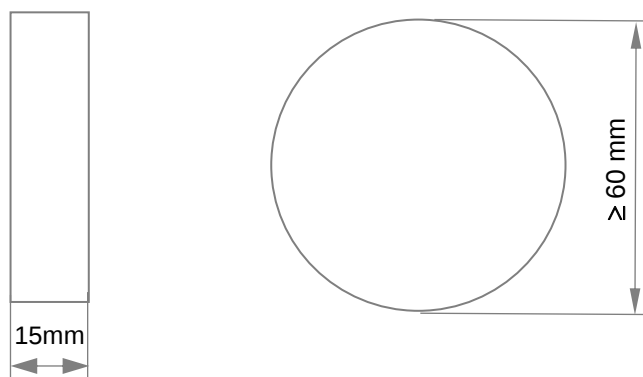


Optional: plain surface setting

Note: not possible for
TermoZ CS II 8 DT 110 V



Cap



Figures not to scale

fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V

Product description

Setting tool and dimensions of cap

Annex A5

Table A6.1: Marking of plates								
	Designation							
Name of anchor	TermoZ CS II 8							
Example	TermoZ CS II ABCDE,  (optional), CE  (optional), Ø 8 (optional) xxxxx additional marks possible							
Name of anchor	TermoZ CS II 8 DT 110 V							
Example	TermoZ CS II ABCDE  DT 110 V							
Table A6.2: Dimensions of TermoZ CS II 8								
Anchor type	Anchor sleeve			Shaft		Specific screw		
	d _d	h _{nom}	h _{ef}	L _a	L ₁	d _s	l _s	d ₁
TermoZ CS II 8/95-115	8	32,5	25	95-115	42	5,4	L _a + 10	9,5
TermoZ CS II 8/135-255		32,5	25	135-255	52			
		52,5	45					
TermoZ CS II 8/275-295		32,5	25	275-295	76			
		52,5	45					
TermoZ CS II 8/315-375		32,5	25	315-375	156			
		52,5	45					
TermoZ CS II 8/395-455		32,5	25	395-455	236			
		52,5	45					
Table A6.3: Dimensions of TermoZ CS II 8 DT 110 V								
Anchor type	Anchor sleeve			Shaft		Specific screw		
	d _d	h _{nom}	h _{ef}	L _a	L ₁	d _s	l _s	d ₁
TermoZ CS II 8/115 DT 110 V	8	32,5	25	95-115	42	5,4	L _a + 10	9,5
TermoZ CS II 8/135-255 DT110 V		32,5	25	135-255	52			
		52,5	45					
TermoZ CS II 8/275-295 DT 110 V		32,5	25	275-295	76			
		52,5	45					
TermoZ CS II 8/315-375 DT 110 V		32,5	25	315-375	156			
		52,5	45					
TermoZ CS II 8/395-455 DT 110 V		32,5	25	395-455	236			
		52,5	45					
All dimensions in [mm]								
fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V						Annex A6		
Product description								
Marking of plates Dimensions of anchors								

Table A7.1: Materials	
Designation	Material
Anchor sleeve / shaft	PP, colour: grey
Specific compound screw TermoZ CS II 8 / TermoZ CS II 8 DT 110 V	PA 6 GF with galvanised steel Zn5/Ag or Zn5/An as per EN ISO 4042:2018
Cap	Soft wood fibre; polystyrene; mineral wool
Anchor plate / Slip-on plate	PA 6 GF, colour: grey, blue, green, orange, red, yellow, black, mocca-latte

Drawing of the slip-on plate (e.g. DT 140)

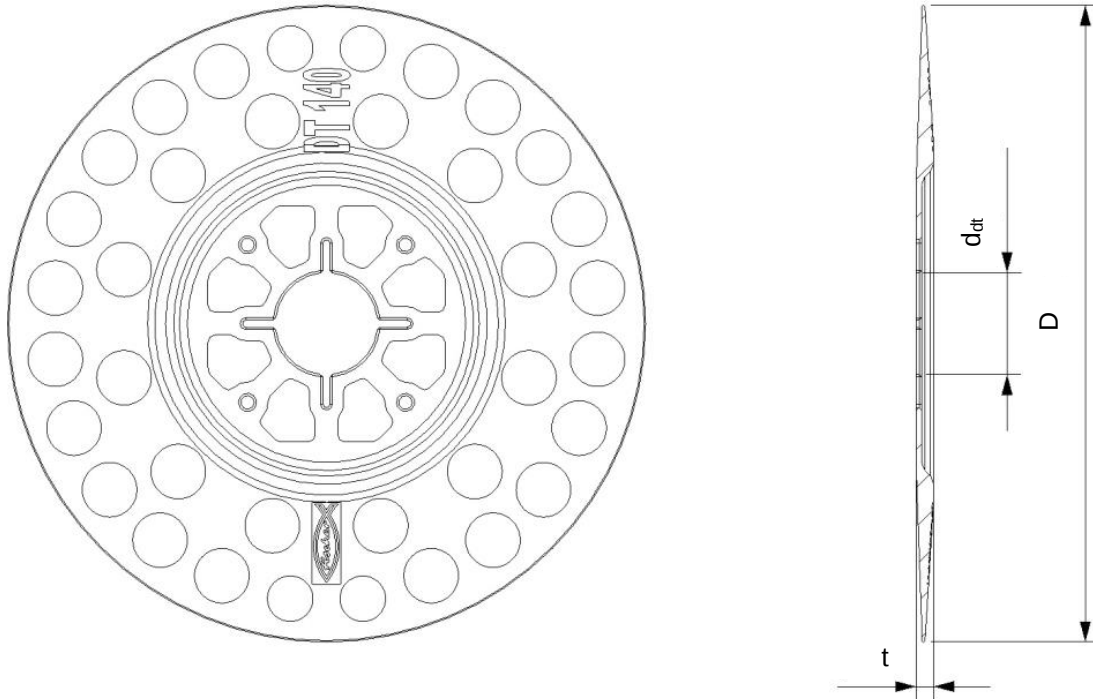


Table A7.2: Slip-on plates, diameters

Slip-on plate	D [mm]	d _{dt} [mm]	t [mm]
DT 90 / DT 110 / DT 140	90 / 110 / 140	22,5	3,9

Figures not to scale

fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V

Product description
Materials and dimensions of slip-on plates

Annex A7

Specifications of intended use

Anchorage subject to:

- The anchor may only be used for transmission of wind suction loads and shall not be used for the transmission of dead loads of the thermal insulation composite system.

Base materials:

- Normal weight concrete without fibres $\geq$ C12/15 (base material group "A") as per EN 206:2013+A1:2016, see Annex C1.
- Solid masonry (base material group "B"), as per EN 771-1:2011+A1:2015, EN 771-2:2011+A1:2015, EN 771-3:2011+A1:2015, see Annex C1.
- Hollow or perforated masonry (base material group "C"), as per EN 771-1:2011+A1:2015, EN 771-2:2011+A1:2015 or EN 771-3:2011+A1:2015, see Annex C1 and C2.
- Lightweight aggregate concrete (base material group "D"), as per EN 1520:2011 / EN 771-3:2011+A1:2015, see Annex C2.
- Autoclaved aerated concrete (base material group "E"), as per EN 771-4:2011+A1:2015, see Annex C2.
- For other comparable materials of the base material groups "A", "B", "C", "D" and "E" the characteristic resistance of the anchor may be determined by job site tests according to EOTA Technical Report TR 051 Edition April 2018.

Temperature Range:

- 0 °C to + 40 °C (max. short term temperature + 40 °C and max. long term temperature + 24 °C) of the base material.

Design:

- The anchorages are designed under the responsibility of an engineer experienced in anchorages and masonry work with the partial safety factors $\gamma_M = 2,0$ und $\gamma_F = 1,5$ if there are no other national regulations.
- Verifiable calculation notes and drawings are prepared taking account of the loads to be anchored. The position of the anchors is indicated on the design drawings.
- Fasteners are only to be used for multiple fixings of thermal insulation composite systems.

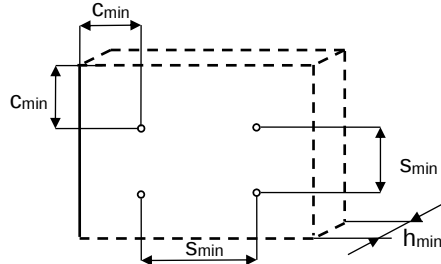
Installation:

- Drilling method see Annex C1 and C2.
- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters on the site.
- Installation temperature of the anchor from 0 °C to + 40 °C.
- Exposure to UV due to solar radiation of the anchor not protected by rendering $\leq$ 6 weeks.

fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V

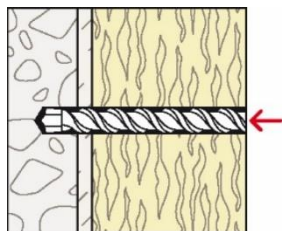
Intended use
Specifications

Annex B1

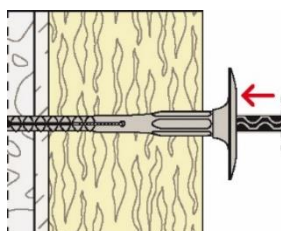
Table B2.1: Installation parameters for base material groups “A” concrete, “B” solid bricks, “C” hollow or perforated bricks, “D” lightweight aggregate concrete and “E” autoclaved aerated concrete			
Anchor type		TermoZ CS II 8/95-455 TermoZ CS II 8/115-455 DT 110 V	
		flush	countersunk ¹⁾
Nominal drill hole diameter	d ₀ = [mm]	8	8
Cutting diameter of drill bit	d _{cut} ≤ [mm]	8,45	8,45
Depth of drill hole to deepest point	h ₁ ≥ [mm]	40	55
Overall plastic anchor embedment depth in the base material	h _{nom} ≥ [mm]	32,5	32,5
Effective anchorage depth in the base material	h _{ef} ≥ [mm]	25	25
¹⁾ Not possible for TermoZ CS II 8/95.			
Table B2.2: Installation parameters alternative option for base material group “E” for higher loads			
Anchor type		TermoZ CS II 8/135-455 TermoZ CS II 8/135-455 DT 110 V	
		flush	countersunk
Nominal drill hole diameter	d ₀ = [mm]	8	8
Cutting diameter of drill bit	d _{cut} ≤ [mm]	8,45	8,45
Depth of drill hole to deepest point	h ₁ ≥ [mm]	60	75
Overall plastic anchor embedment depth in the base material	h _{nom} ≥ [mm]	52,5	52,5
Effective anchorage depth in the base material	h _{ef} ≥ [mm]	45	45
Table B2.3: Minimum thickness of member, edge distance and spacing in all regulated base material groups			
Anchor type		TermoZ CS II 8/95-455 TermoZ CS II 8/115-455 DT 110 V	
Minimum thickness of member	h _{min} = [mm]	100	
Minimum spacing	s _{min} = [mm]	100	
Minimum edge distance	c _{min} = [mm]	100	
Scheme of distances and spacing for base material groups “A”, concrete, group “B” solid bricks, group “C” hollow or perforated masonry, group “d” lightweight aggregate concrete, group “E” autoclaved aerated concrete			
		Figure not to scale	
fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V		Annex B2	
Intended use Installation parameters depending on the base material groups Minimum thickness of member, edge distances and spacings			

Installation instruction

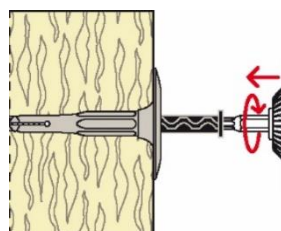
Standard setting of TermoZ CS II 8 (plain surface setting) without setting tool



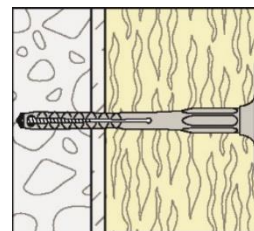
1. Drill hole by corresponding drilling method



2. Insert anchor manually

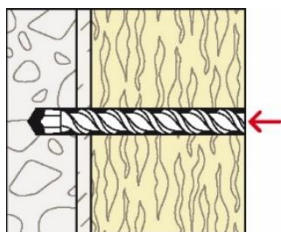


3. Set anchor by machine

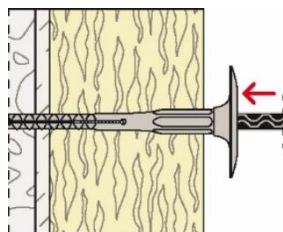


4. Correctly installed anchor

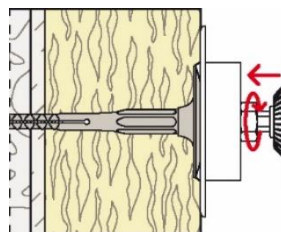
Setting of TermoZ CS II 8 (plain surface setting) by setting tool



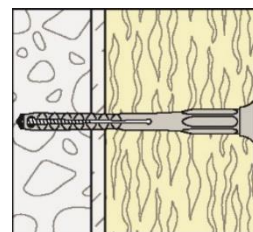
1. Drill hole by corresponding drilling method



2. Insert anchor manually

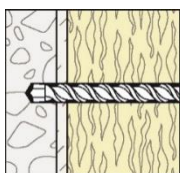


3. Set anchor by setting tool with the machine

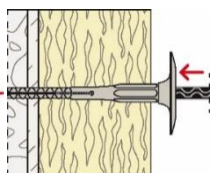


4. Correctly installed anchor

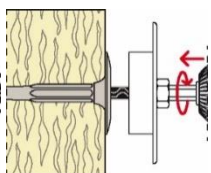
Setting of TermoZ CS II 8 (countersunk setting) by setting tool



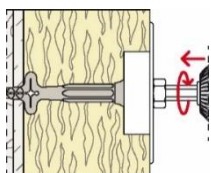
1. Drill hole by corresponding drilling method



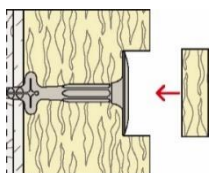
2. Insert anchor manually



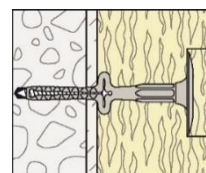
3. Put on setting tool



4. Set anchor by setting tool with the machine

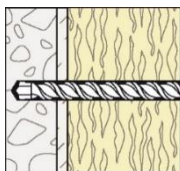


5. Put on cap

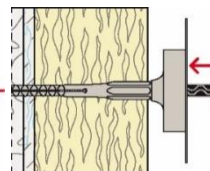


6. Correctly installed anchor

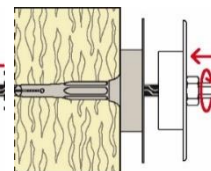
Setting of TermoZ CS II 8 DT 110 V by setting tool



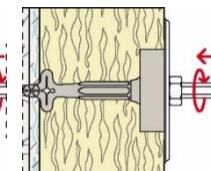
1. Drill hole by corresponding drilling method



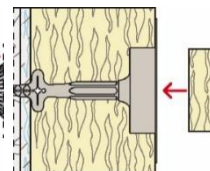
2. Insert anchor manually



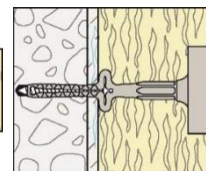
3. Put on setting tool



4. Set anchor by setting tool with the machine



5. Put on cap



6. Correctly installed anchor

fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V

Intended use
Installation instruction

Annex B3

**Table C1.1: Characteristic resistance to tension loads N_{Rk} for single anchor
TermoZ CS II and TermoZ CS II 8 DT 110 V**

Base material	Group	Bulk density ρ [kg/dm ³]	Mean compressive strength / minimum compressive strength single brick acc. to EN 771 [N/mm ²]	Remarks	Drilling method ¹⁾	Char. resistance to tension loads N_{Rk} [kN]
Concrete ≥ C12/15 to ≤ C50/60 EN 206:2013+A1:2016	A	-	-	-	H	1,50
Weather resistant concrete shell ≥ C20/25 EN 206:2013+A1:2016	A	-	-	Thickness $h \geq 40$ mm.	H	1,50
Solid clay brick, Mz, as per EN 771-1:2011+A1:2015	B ²⁾	≥ 1,8	≥ 25/20	-	H	1,50
Calcium silicate solid brick, KS, as per EN 771-2:2011+A1:2015	B ²⁾	≥ 1,4	≥ 15/12	-	H	1,50
			≥ 25/20			
Solid lightweight concrete block, Vbl, as per EN 771-3:2011+A1:2015	B ²⁾	≥ 1,4	≥ 10/8	-	H	1,20
Solid concrete block, Vbn, as per EN 771-3:2011+A1:2015	B ²⁾	≥ 2,0	≥ 15/12	-	H	1,50
			≥ 25/20			

¹⁾ H = Hammer drilling, R = Rotary drilling.

²⁾ Vertically perforation ≤ 15%; cross section reduced by perforation vertically to the resting area.

fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V

Performances

Characteristic resistance to tension loads

Annex C1

Table C2.1: Characteristic resistance to tension loads N _{Rk} for single anchor TermoZ CS II 8 and TermoZ CS II 8 DT 110 V						
Base material	Group	Bulk density ρ [kg/dm ³]	Mean compressive strength / minimum compressive strength single brick acc. to EN 771 [N/mm ²]	Remarks	Drilling method ¹⁾	Char. resistance to tension loads N _{Rk} [kN]
Vertically perforated clay brick, Hlz, as per EN 771-1:2011+A1:2015	C ³⁾	≥ 0,9	≥ 15/12	Exterior web thickness ≥ 12 mm.	R	1,00
			≥ 15/12		H	0,65
		≥ 1,6	≥ 60/48		R	1,50
			≥ 60/48		H	1,50
Hollow calcium silicate brick,KSL, as per EN 771-2:2011+A1:2015	C ³⁾	≥ 1,4	≥ 15/12	Exterior web thickness ≥ 23 mm.	H	1,50
Hollow brick lightweight concrete, Hbl, as per EN 771-3:2011+A1:2015	C ³⁾	≥ 0,9	≥ 5/4	Exterior web thickness ≥ 16 mm.	H	0,50
Hollow brick concrete, Hbn, as per EN 771-3: 2011+A1:2015	C ³⁾	≥ 1,2	≥ 5/4	Exterior web thickness ≥ 38 mm.	H	0,75
			≥ 7,5/6			1,10
			≥ 10/8			1,50
			≥ 12,5/10			1,50
Lightweight aggregate concrete, LAC, as per EN 1520:2011 EN 771-3:2011+A1:2015	D	≥ 0,9	≥ 5/4	-	H	0,95
			≥ 7,5/6			1,50
Autoclaved aerated concrete blocks, AAC, as per EN 771-4: 2011+A1:2015 h _{nom} = 32,5 mm	E	≥ 0,50	≥ 5/4	-	R	0,65
Autoclaved aerated concrete blocks, AAC, as per EN 771-4: 2011+A1:2015 h _{nom} = 52,5 mm ²⁾	E					1,10
¹⁾ H = Hammer drilling, R = Rotary drilling. ²⁾ Not possible for TermoZ CS II 8/95 and TermoZ CS II 8/115 and TermoZ CS II 8/115 DT 110 V. ³⁾ Vertically perforation > 15 % and ≤ 50 %, cross section reduced by perforation vertically to the resting area.						
fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V					Annex C2	
Performances Characteristic resistance to tension loads						

Table C3.1: Plate stiffness acc. to EOTA Technical Report TR 026:2016-05								
Anchor type	Max. size of the anchor plate d _p [mm]		Load resistance of the anchor plate [kN]		Plate stiffness c [kN/mm]			
TermoZ CS II 8	60		2,61		1,29			
TermoZ CS II 8 DT 110 V	110		2,61		1,29			
Table C3.2: Point thermal transmittance acc. to EOTA Technical Report TR 025:2016-05								
TermoZ CS II 8 and TermoZ CS II 8 DT 110 V	h _{nom}	Thickness of insulation material h _D [mm]	Point thermal transmittance χ [W/K]					
	[mm]		Base material groups					
			A	B	C	D	E	
Flush mounted	32,5	60	0,002	0,001			0,000	
		80	0,002			0,001		
		100 - 120	0,001					
		140 - 200	0,002			0,001		
		220 - 260	0,002				0,001	
		280 - 300	0,001				0,000	
		320 - 340	0,001					
		360 – 400	0,000					
	420	0,001	0,000					
	52,5	100 - 120	-				0,001	
		140 - 240	-				0,001	
		320	-				0,001	
		400	-				0,000	
	Countersunk mounted	32,5	80 - 200	0,001				
220			0,002				0,001	
240			0,002	0,001				
260			0,002		0,001			
280			0,001	0,000				
300			0,001			0,000		
320 – 340			0,001				0,000	
360-420			0,000					
52,5		100 - 120	-				0,000	
		140 - 240	-				0,001	
		320	-				0,000	
		400	-				0,000	
fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V					Annex C3			
Performances Plate stiffness and point thermal transmittance								

Table C4.1: Displacements of the TermoZ CS II 8 and TermoZ CS II 8 DT 110 V

Base material		Mean compressive strength / minimum compressive strength single brick acc. to EN 771 [N/mm²]	Tension load N _{Rd} [kN]	Displacements Δ(δ _N) [mm]
Concrete ≥ C12/15 ≤ C50/60; EN 206:2013+A1:2016		-	0,50	< 0,3
Weather resistant concrete shell ≥ C20/25; EN 206:2013+A1:2016		-	0,50	< 0,3
Clay brick, Mz, as per EN 771-1:2011+A1:2015		≥ 25/20	0,50	< 0,5
Calcium silicate solid brick, KS, as per EN 771-2:2011+A1:2015		≥ 15/12	0,50	< 0,3
		≥ 25/20	0,50	
Solid lightweight concrete block, Vbl, as per EN 771-3:2011+A1:2015		≥ 10/8	0,43	< 0,4
Solid concrete block, Vbn, as per EN 771-3:2011+A1:2015		≥ 15/12	0,50	< 0,3
		≥ 25/20	0,50	
Vertically perforated clay brick, Hlz, as per EN 771-1:2011+A1:2015	rotary drilling	≥ 15/12	0,33	< 0,5
	hammer drilling		0,22	< 0,3
	rotary drilling	≥ 60/48	0,50	< 0,4
	hammer drilling		0,50	
Hollow calcium silicate brick, KSL, as per EN 771-2:2011+A1:2015		≥ 15/12	0,50	< 0,4
Hollow brick lightweight concrete, Hbl, as per EN 771-3:2011+A1:2015		≥ 5/4	0,17	< 0,2
Hollow brick concrete, Hbn, as per EN 771-3:2011+A1:2015		≥ 5/4	0,25	< 0,2
		≥ 7,5/6	0,37	< 0,3
		≥ 10/8	0,50	< 0,4
		≥ 12,5/10	0,50	< 0,4
Lightweight Aggregate Concrete, ≥ LAC as per EN 1520:2011 / EN 771-3:2011+A1:2015		≥ 5/4	0,32	< 0,5
		≥ 7,5/6	0,50	< 0,5
Autoclaved aerated concrete blocks, AAC, as per EN 771-4:2011+A1:2015	h _{nom} = 32,5 mm	≥ 5/4	0,22	< 0,2
	h _{nom} = 52,5 mm ¹⁾		0,37	
¹⁾ Not possible for TermoZ CS II 8/95 and TermoZ CS II 8/115 and TermoZ CS II 8/115 DT 110 V.				
fischer TermoZ CS II 8 and fischer TermoZ CS II 8 DT 110 V			Annex C4	
Performances Displacements				