



Approval body for construction products and types of construction

#### **Bautechnisches Prüfamt**

An institution established by the Federal and Laender Governments



# **European Technical Assessment**

# ETA-16/0854 of 4 January 2018

English translation prepared by DIBt - Original version in German language

#### **General Part**

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

This version replaces

Deutsches Institut für Bautechnik

ejotherm S and ejotherm N

Screwed-in plastic anchor and nailed-in plastic anchor for fixing of external thermal insulation composite systems with rendering in concrete and masonry

EJOT Baubefestigungen GmbH In der Stockwiese 35 57334 Bad Laasphe DEUTSCHLAND

EJOT 1, 2, 3, 4 EJOT 1, 2, 3, 4

25 pages including 3 annexes which form an integral part of this assessment

EAD 330196-01-0604

ETA-16/0854 issued on 10 March 2017



European Technical Assessment ETA-16/0854

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English translation prepared by DIBt

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# **Specific Part**

# 1 Technical description of the product

The screwed-in anchor ejotherm S consists of an anchor sleeve with an enlarged shaft, spreading zone subsequently, an insulation plate made of virgin polyethylene (plate type A) or virgin polyamide (plate type B) and an accompanying specific screw of galvanised steel or stainless steel. The head of screw type A has an overmoulding of polyamide. The serrated expanding part of the anchor sleeve is slotted.

The nailed-in anchor ejotherm N consists of an anchor sleeve with an enlarged shaft, spreading zone subsequently, an insulation plate made of virgin polyethylene (plate type A) or virgin polyamide (plate type B) and an accompanying specific nail of galvanised steel with an overmoulding of polyamide. The serrated expanding part of the anchor sleeve is slotted.

The anchors ejotherm S and ejotherm N may in addition be combined with the anchor plates SBL 140 plus and VT 90. The anchor ejotherm S may in addition be combined with the anchor plate VT 2G.

An illustration and the description of the product are given in Annex A.

### 2 Specification of the intended use in accordance with the applicable European Assessment Document

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

The verification and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the anchor of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, 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 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Characteristic tension resistance	See Annex C 1
Edge distances and spacing	See Annex B 2
Plate stiffness	See Annex C 2
Displacements	See Annex C 2

# 3.2 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Point thermal transmittance	See Annex C 2





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4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 330196-01-0604, the applicable European legal act is: [97/463/EC].

The system to be applied is: 2+

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

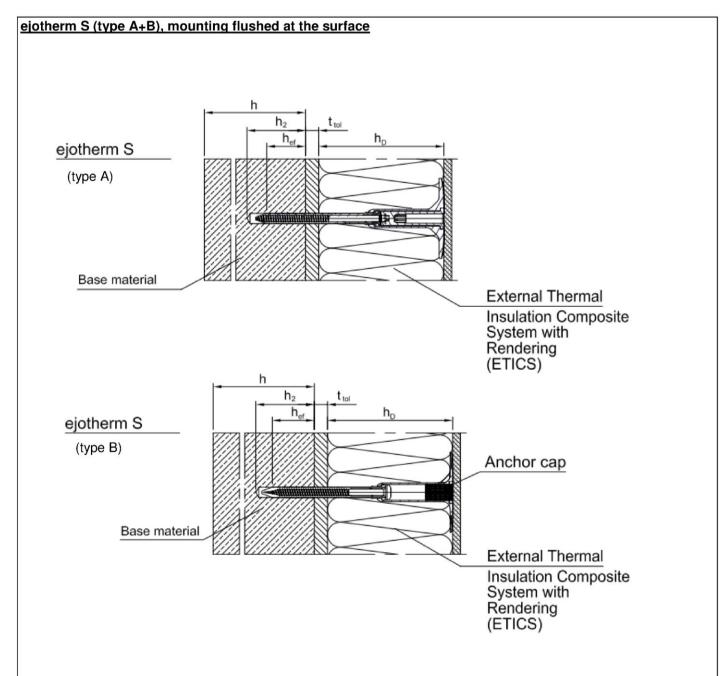
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 4 January 2018 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow Head of Department

*beglaubigt:* Ziegler





## Intended use

- Anchorage of ETICS in concrete and masonry
- Anchorage of ETICS in autoclaved aerated concrete and lightweight aggregate concrete

Legend:  $h_D$  = thickness of insulation material

h<sub>ef</sub> = effective anchorage depthh = thickness of member (wall)

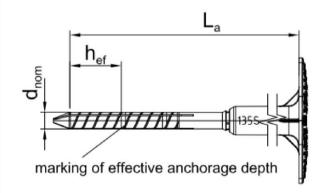
h<sub>2</sub> = depth of drilled hole to deepest point

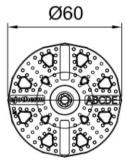
ttol = thickness of equalizing layer or non-load-bearing coating

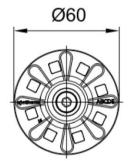
ejotherm S and ejotherm N	
Product description Installed condition ejotherm S (type A+B), flushed at the surface	Annex A 1



# ejotherm S (type A+B) / use categories A,B,C,D, / mounting flushed at the surface

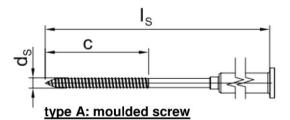




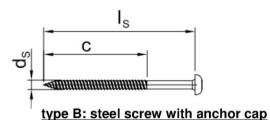


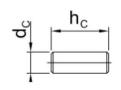
type A: anchor plate

type B: anchor plate



Marking: Identifying mark (z.B. EJOT) Anchor type (ejotherm S) Length of anchor (e.g. 135) Use category (A,B,C,D, E)





Anchor cap

Table	Α	1:	Dimensions

	92			200					
	Anchor Sleeve				Specific screw			EPS cap	
Anchor	d <sub>nom</sub>	h <sub>ef</sub>	min L <sub>a</sub>	ds	С	min I <sub>s</sub>		92	
Type			max L <sub>a</sub>			max I <sub>s</sub>	h <sub>c</sub>	$d_c$	
590100	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	2000		
	8	25	115	5,5	60	115			
			295	· ·		295			
oiothorm C						(type A)			
ejotherm S						88	23	12,5	
						188		7e	
						(type B)			

Determination of maximum thickness of insulation h<sub>D</sub> [mm] ejotherm S (type A+B):

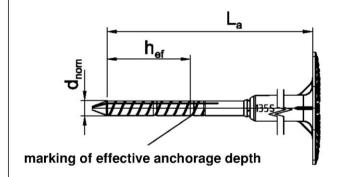
$$\begin{array}{ll} h_D & = L_a - t_{tol} - h_{ef} \\ \text{e.g.} & h_D & = 215 - 10 - 25 \end{array}$$

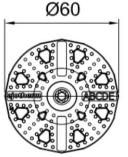
$$(L_a = e.g.\ 215;\ t_{tol} = 10)$$
  
 $h_{Dmax} = 180$ 

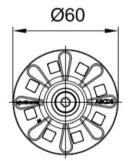
ejotherm S and ejotherm N	
Product description ejotherm S - marking and dimensions, use categories: A,B,C,D mounting flushed at the surface	Annex A 2



# ejotherm S (type A+B) / use category E / mounting flushed at the surface

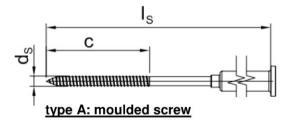




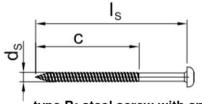


type A: anchor plate

type B: anchor plate



Marking: Identifying mark (z.B. EJOT) Anchor type (ejotherm S) Length of anchor (e.g. 135) Use category (A,B,C,D, E)





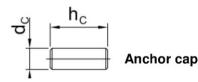


Table A 2: Dime	ensions							
		Anchor Sle	eeve		Specific scr	ew	EPS	сар
Anchor	d <sub>nom</sub>	h <sub>ef</sub>	min L <sub>a</sub>	ds	c	min I <sub>s</sub>		2
Type			max La			max I <sub>s</sub>	h <sub>c</sub>	$d_c$
5001100	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	0000	
	8	45	115	5,5	60	115		
			295			295		
ejotherm S						(type A)		
ejotnenn 3						88	23	12,5
						188		1/2
						(type B)		

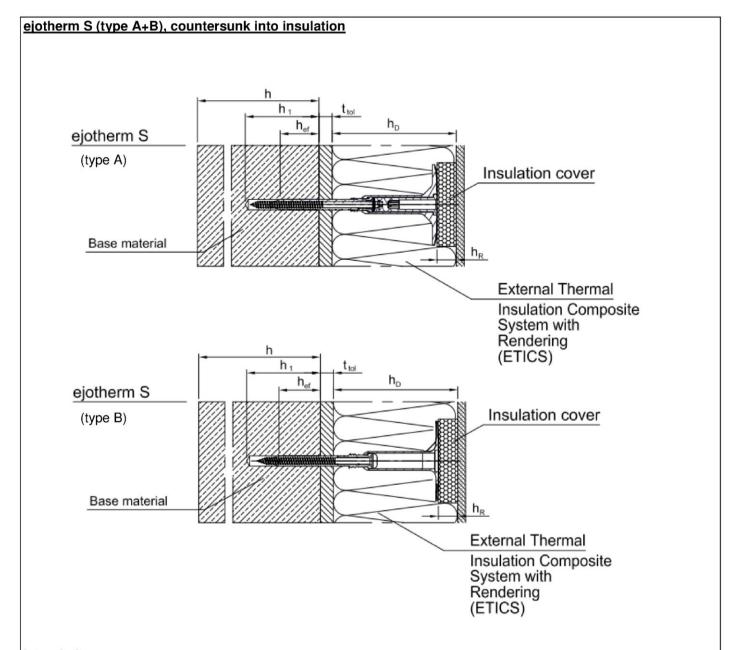
Determination of maximum thickness of insulation h<sub>D</sub> [mm] ejotherm S (type A+B):

$$\begin{array}{ll} h_D & = L_a - t_{tol} - h_{ef} \\ \text{e.g.} & h_D & = 215 - 10 - 45 \end{array}$$

$$(L_a = e.g.\ 215;\ t_{tol} = 10)$$
  
 $h_{Dmax} = 160$ 

ejotherm S and ejotherm N	
Product description ejotherm S - marking and dimensions, use category: E, mounting flushed at the surface	Annex A 3





# Intended use

- Anchorage of ETICS in concrete and masonry
- Anchorage of ETICS in autoclaved aerated concrete and lightweight aggregate concrete

Legend: h<sub>D</sub> = thickness of insulation material

h<sub>ef</sub> = effective anchorage depthh = thickness of member (wall)

h<sub>1</sub> = depth of drilled hole to deepest point

 $h_R$  = thickness of insulation cover

ttol = thickness of equalizing layer or non-load-bearing coating

ejotherm S and ejotherm N	
Product description Installed condition ejotherm S (type A+B), countersunk into insulation	Annex A 4



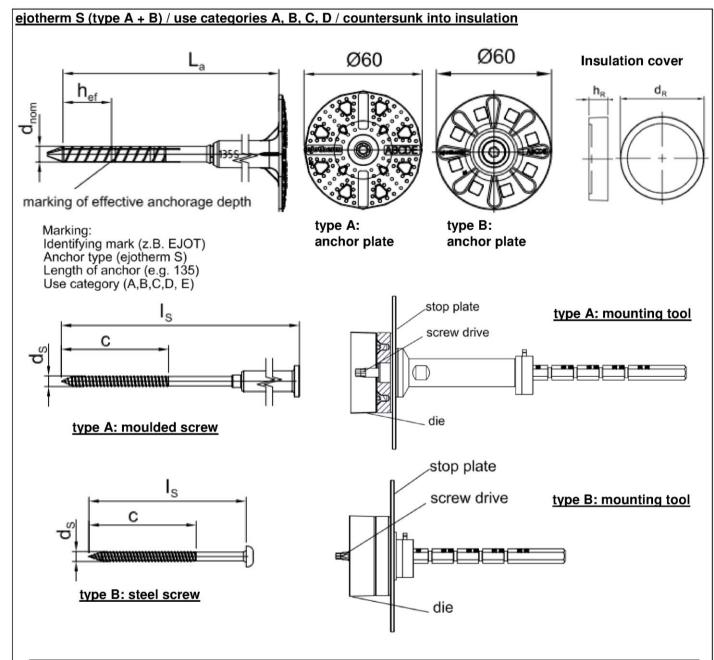


Table A 3: Dimensions								
Anchor		Anchor	Sleeve	Specific screw			Insulation cover	
	$d_{nom}$	h <sub>ef</sub>	min L <sub>a</sub> max L <sub>a</sub>	ds	С	min I <sub>s</sub> - max I <sub>s</sub>		
Type	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	h <sub>R</sub>	$d_R$
a i a tha a was C	8	25	115 - 295	5,5	60	type A: 115 - 295	15	65
ejotherm S				5-20		type B: 88 - 188		

Determination of maximum thickness of insulation h<sub>D</sub> [mm] ejotherm S:

$$\begin{array}{lll} & h_D & = L_a - t_{tol} - h_{ef} & (L_a = e.g.\ 215;\ t_{tol} = 10) \\ e.g.\ h_D & = 215 - 10 - 25 & h_{Dmax} = 180 \end{array}$$

ejotherm S and ejotherm N	
Product description ejotherm S - marking and dimensions, mounting tool, use categories: A,B,C,D countersunk into insulation	Annex A 5



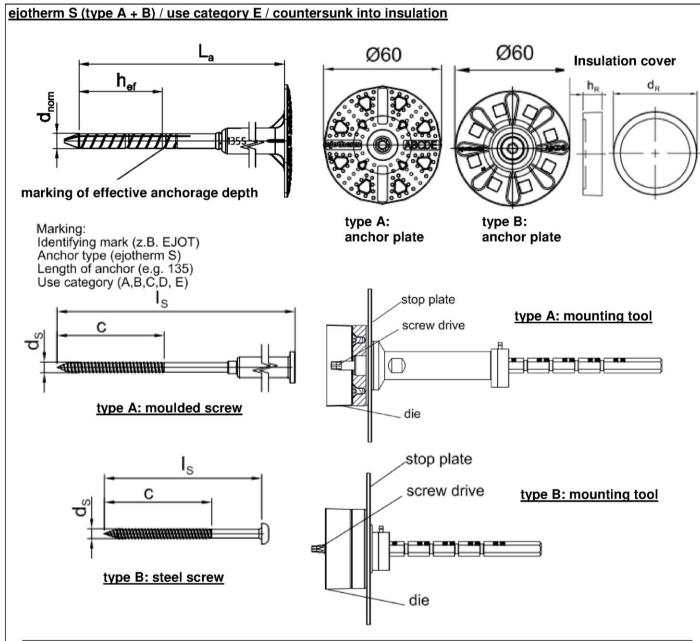


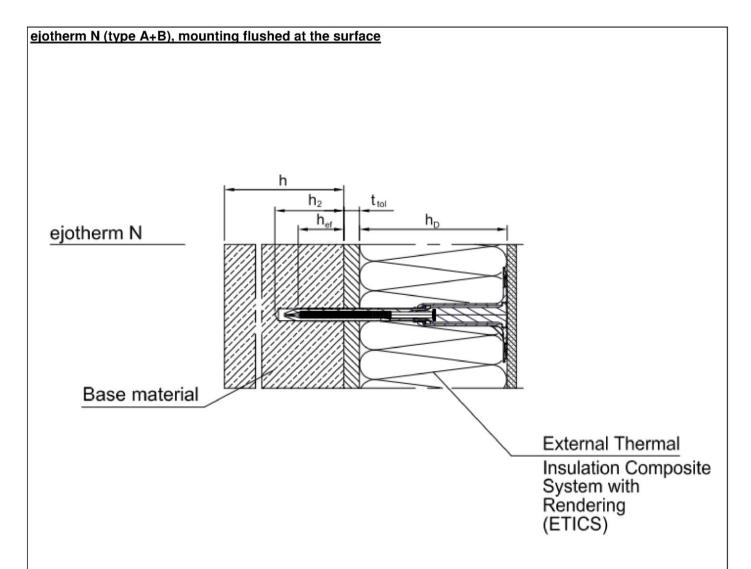
Table A 4: Dir	nensions	3						
Anchor		Anchor	Sleeve	Specific screw			Insulation cover	
Anchor Type	d <sub>nom</sub>	h <sub>ef</sub>	min L <sub>a</sub> max L <sub>a</sub>	ds	С	min I <sub>s</sub> - max I <sub>s</sub>		
Турс	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	h <sub>R</sub>	$d_R$
ejotherm S	8	45	115 - 295	5,5	60	type A: 115 - 295	15	65
ejotnerii 3						type B: 88 - 188		

Determination of maximum thickness of insulation h<sub>D</sub> [mm] ejotherm S:

$$\begin{array}{lll} & h_D & = L_a - t_{tol} - h_{ef} & (L_a = e.g.~215; t_{tol} = 10) \\ e.g. & h_D & = 215 - 10 - 45 & h_{Dmax} = 160 \end{array}$$

ejotherm S and ejotherm N	
Product description ejotherm S - marking and dimensions, mounting tool, use category: E countersunk into insulation	Annex A 6





# Intended use

- Anchorage of ETICS in concrete and masonry
- Anchorage of ETICS in autoclaved aerated concrete and lightweight aggregate concrete

Legend: h<sub>D</sub> = thickness of insulation material

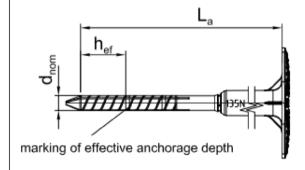
h<sub>ef</sub> = effective anchorage depth h = thickness of member (wall)

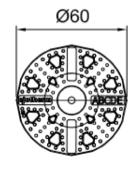
h<sub>2</sub> = depth of drilled hole to deepest point

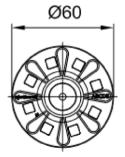
ttol = thickness of equalizing layer or non-load-bearing coating

ejotherm S and ejotherm N	
Product description Installed condition ejotherm N, flushed at the surface	Annex A 7

# ejotherm N (type A + B) / use categories A,B,C,D / mounting flushed at the surface

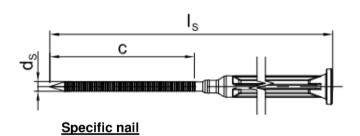






type A: anchor plate

Type B: anchor plate



Marking: Identifying mark (z.B. EJOT) Anchor type (ejotherm N) Length of anchor (e.g. 135) Use category (A,B,C,D, E)

Table A 5: Dimensions						
Anchor		Anchor sleev	е		Specific nai	I
Туре	d <sub>nom</sub>	h <sub>ef</sub>	min L <sub>a</sub> max L <sub>a</sub>	d <sub>n</sub>	С	min I <sub>n</sub> max I <sub>n</sub>
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
ejotherm N (type A+B)	8	25	95 295	4,13	60	95 295

Determination of maximum thickness of insulation h<sub>D</sub> [mm] ejotherm N:

$$h_D = L_a - t_{tol} - h_{ef}$$
  
e.g.  $h_D = 215 - 10 - 25$ 

$$(L_a = e.g. 215; t_{tol} = 10)$$

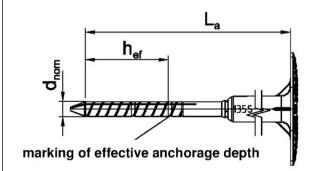
 $h_{Dmax} = 180$ 

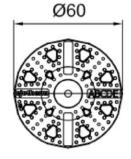
ejotherm S and ejotherm N	
Product description ejotherm N - marking and dimensions, use category: A,B,C,D mounting flushed at the surface	Annex A 8

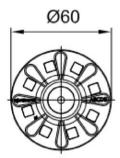
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# ejotherm N (type A+B) / use category E / mounting flushed at the surface

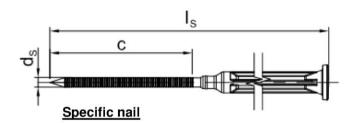






type A: anchor plate

Type B: anchor plate



Marking: Identifying mark (z.B. EJOT) Anchor type (ejotherm N) Length of anchor (e.g. 135) Use category (A,B,C,D, E)

Table A 6: Dimensions						
Anchor		Anchor Sleev	е		Specific nai	I
Type	d <sub>nom</sub>	h <sub>ef</sub>	min L <sub>a</sub>	d <sub>n</sub>	С	min I <sub>n</sub>
. , , , ,	110111		max L <sub>a</sub>		V-1000	max I <sub>n</sub>
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
ejotherm N (type A+B)	8	45	95	4,13	60	95
ejotnemi N (type A+b)			295			295

Determination of maximum thickness of insulation  $h_D$  [mm] for ejotherm N:

$$\begin{array}{ll} h_D &= L_a - t_{tol} - h_{ef} \\ e.g. & h_D &= 215 - 10 - 45 \\ h_{Dmax} &= 160 \end{array}$$

 $(L_a = e.g. 215; t_{tol} = 10)$ 

ejotherm S and ejotherm N	
Product description ejotherm N - marking and dimensions, use category: E, mounting flushed at the surface	Annex A 9

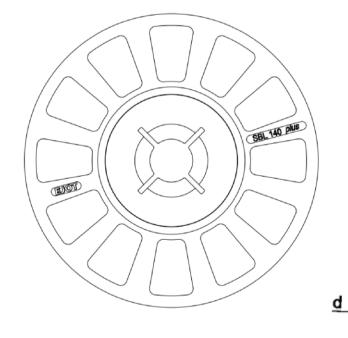


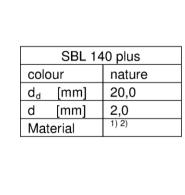
Anchor sleeve	virgin Polyethylene, PE-HD
	colours: nature, yellow, orange, red, blue, grey, green
Anchor plate (type A)	virgin Polyethylene, PE-HD
	colours: nature, yellow, orange, red, blue, grey, green
Anchor plate (type B)	virgin Polyamid, PA GF 50
	colours: nature, yellow, orange, red, blue, grey, green
Plastic moulding of the screw	Polyamide, PA GF 50
for ejotherm S (for anchor plate type A)	colours: nature, black
(for affection plate type A)	
Plastic moulding of the nail	Polyamide, PA GF 50
for ejotherm N (for anchor plate type A+B)	colours: nature, black
Insulation cover (for anchor plate type A+B)	Polystyrene EPS 20
,	Mineral-Wool HD
anchor cap	Polystyrene EPS 30
for ejotherm S (type B)	
Specific screw for ejotherm S	Steel 5.8, electro galvanized ≥ 5 µm according to EN ISO 4042:1999, blue passivated
	Stainless steel, according to ISO 3506
	material number 1.4401 or 1.4571
	material number 1.4301 or 1.4567
Specific nail for ejotherm N	Steel, electro galvanized ≥ 5 µm according to EN ISO 4042:1999, blue passivated, f <sub>vk</sub> ≥ 670 N/mm <sup>2</sup>

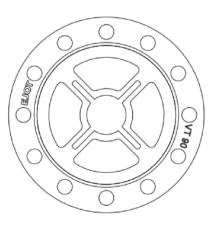
ejotherm S and ejotherm N	
Product description Materials of ejotherm S and ejotherm N	Annex A 10

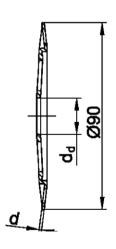


# ejotherm S and ejotherm N









VT 90				
colour	nature			
d <sub>d</sub> [mm]	18,5			
d [mm]	1,2			
Material	1) 2)			

<sup>1)</sup> Polyamide, PA 6 <sup>2)</sup> Polyamide, PA GF 50

ejotherm S and ejotherm N

**Product description** 

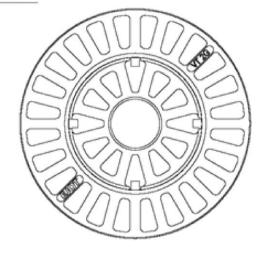
Slip on plates with ejotherm S and ejotherm N

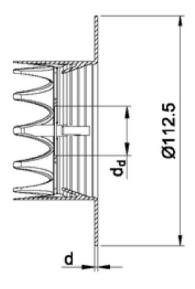
Annex A 11



# ejotherm S (type A+B)

# VT 2G





VT 2G				
colour	nature			
d <sub>d</sub> [mm]	29,0			
d [mm]	1,5			
Material	1)			

1) Polyamide, PA GF 50

ejotherm S and ejotherm N

**Product description** 

Slip on plates with ejotherm S

Annex A 12





# Specifications of intended use

## Anchorages 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 (use category A) according to Annex C1.
- · Solid masonry (use category B), according to Annex C1.
- · Hollow or perforated masonry (use category C), according to Annex C1.
- Lightweight aggregate concrete (use category D), according to Annex C1.
- · Autoclaved aerated concrete (use category E), according to Annex C1.
- For other base materials of the use categories A, B, C, D or E the characteristic resistance of the anchor may be determined by job site tests according to EOTA Technical Report TR 051 edition December 2016.

# **Temperature Range:**

0°C to +40°C (max. short term temperature +40°C and max. long term temperature +24°C)

# Design:

- The anchorages are designed under the responsibility of an engineer experienced in anchorages and masonry work with the partial safety factors  $\gamma_M = 2.0$  and  $\gamma_F = 1.5$ , 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 anchor is indicated on the design drawings.
- · Fasteners are only to be used for multiple fixings of thermal insulation composite systems

#### Installation:

- · Hole drilling by the drill modes according to Annex C1.
- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site.
- Installation temperature from 0°C to +40°C
- Exposure to UV due to solar radiation of the anchor not protected by rendering ≤ 6 weeks

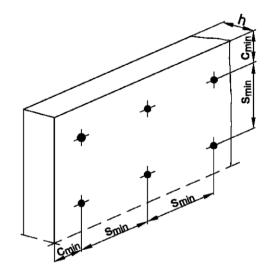
ejotherm S and ejotherm N	
Intended use	Annex B 1
Specifications	



Table B1: Installation parameters					
Anchor type		ejotherm N		ejotherm S	
		ABCD	E	ABCD	E
Drill hole diameter	$d_0 [mm] =$	8	8	8	8
Cutting diameter of drill bit	d <sub>cut</sub> [mm] ≤	8,45	8,45	8,45	8,45
Depth of drill hole to deepest point					
- deep mounting ≥	h₁ [mm]			50	70
- mounting on the surface ≥	h₁ [mm]	35	55	35	55
Effective anchorage depth	h <sub>ef</sub> [mm] ≥	25	45	25	45

Table B2: Anchor distances and dimensions of members				
Anchor type	ejotherm S / ejotherm N			
Minimum allowable spacing	s <sub>min</sub> ≥ [mm]	100		
Minimum allowable edge distance	c <sub>min</sub> ≥ [mm]	100		
Minimum thickness of member				
		100		
- deep mounting	h ≥ [mm]	40 (only skins of concrete)		
		100		
- mounting on the surface	h ≥ [mm]	40		
		(only skins of concrete)		

Scheme of distance and spacing



ejotherm S and ejotherm N	
Intended use Installations parameters, Edge distances and spacing	Annex B 2

Z62919.17

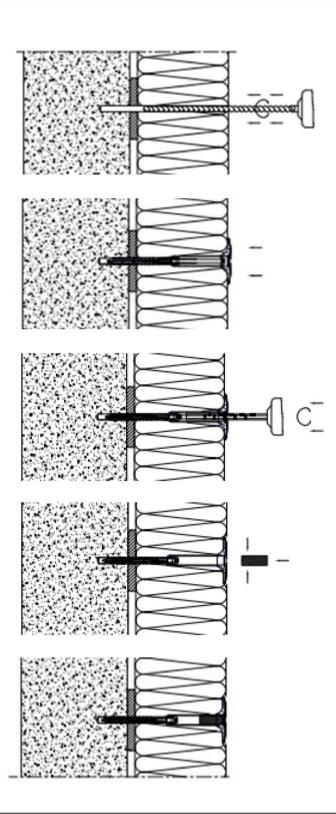
electronic copy of the eta by dibt: eta-16/0854

# Installation instructions: ejotherm S (type A) / flushed at the surface Drill the hole perpendicular to the substrate surface. Clean the drill hole 3x. Place the anchor into the drill hole. The bottom side of the plate must be flush with the ETICS. Drill the specific screw into the Installed condition of ejotherm S.

ejotherm S and ejotherm N	
Intended use Installation instructions ejotherm S (type A), flushed at the surface	Annex B 3



# Installation instructions: ejotherm S (type B) / flushed at the surface



Drill the hole perpendicular to the substrate surface. Clean the drill hole 3x.

Place the anchor into the drill hole. The bottom side of the plate must be flush with the ETICS.

Drill the specific screw into the anchor.

Put the EPS-cap into the anchor

Installed condition of ejotherm S.

# ejotherm S and ejotherm N

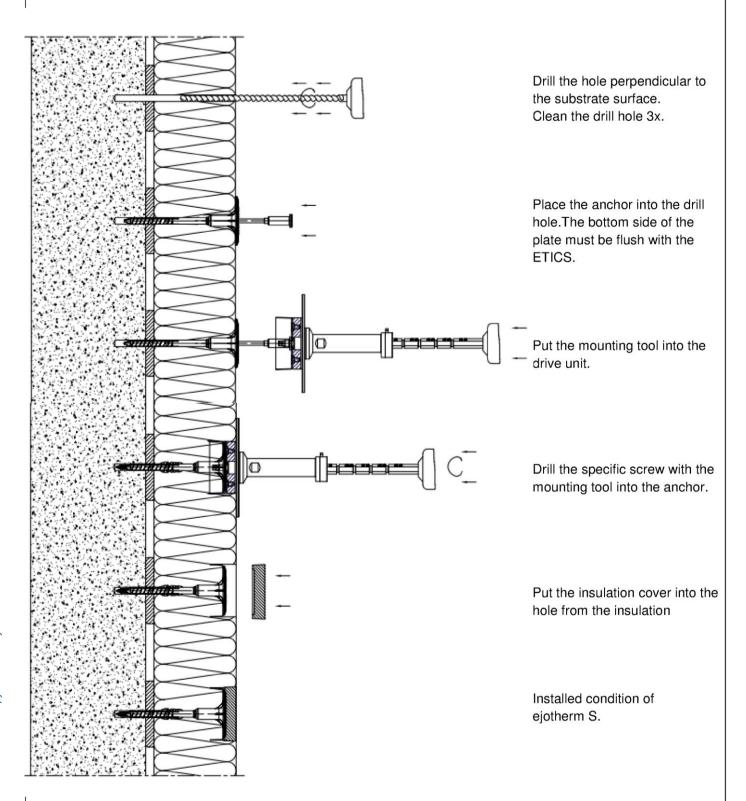
# Intended use

Installation instructions ejotherm S (type B), flushed at the surface

Annex B 4



# Installation instructions: ejotherm S (type A) / countersunk into insulation

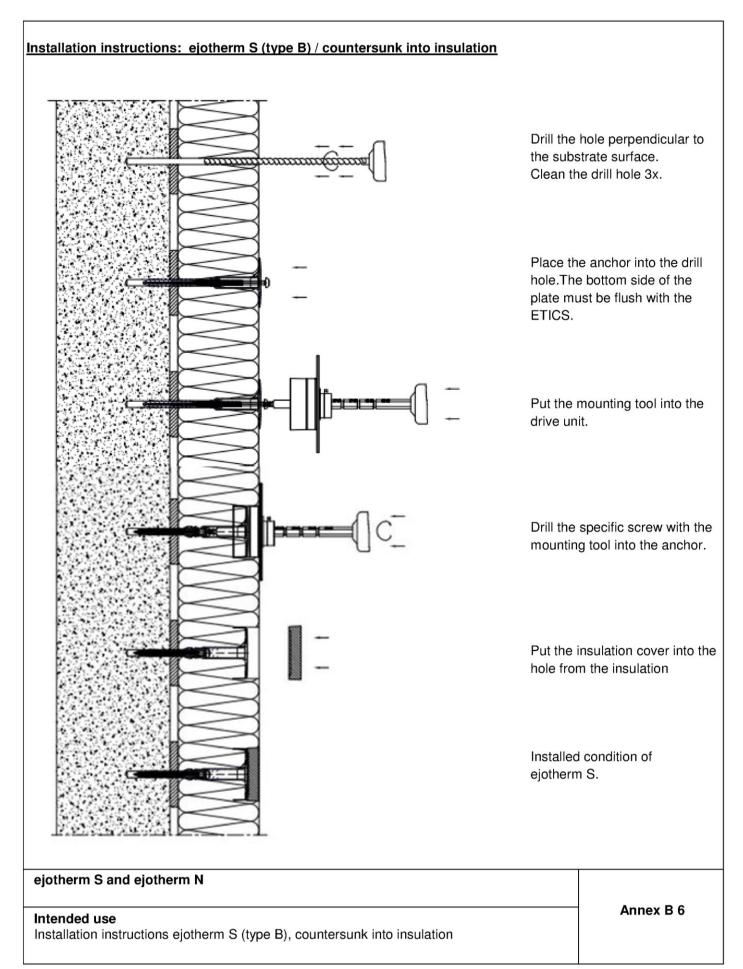


ejotherm S and ejotherm N

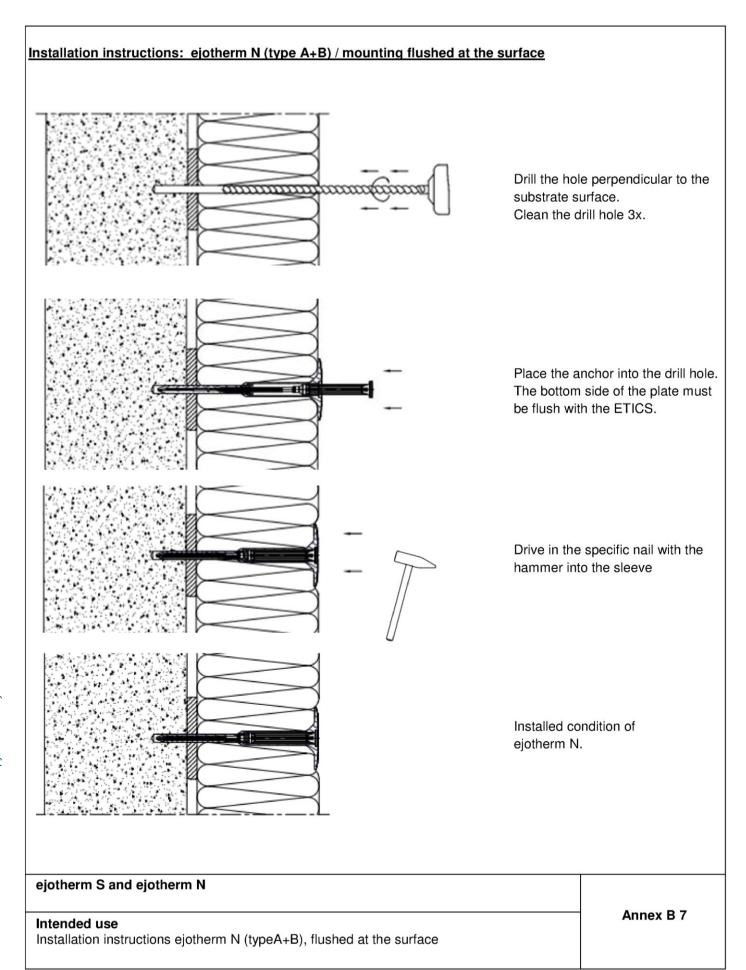
Intended use
Installation instructions ejotherm S (type A), countersunk into insulation

Annex B 5











Anchor type					ejotherm N	ejotherm S
Base materials	Bulk density P [kg/dm³]	minimum compressive strength f <sub>b</sub> [N/mm <sup>2</sup> ]	General remarks	Drill method	N <sub>Rk</sub>	N <sub>Rk</sub>
Concrete C12/15 EN 206-1:2000		[14/1111]		hammer	0,75	0,9
Concrete C20/25 – C50/60 EN 206-1:2000				hammer	1,2	1,5
Concrete C20/25 – C50/60 Thin members EN 206-1:2000 (thin members)			Thickness of the skin 100 mm > h ≥ 40 mm	hammer	1,2	1,5
Clay bricks, Mz e.g. according to EN 771-1:2011	≥ 1,8	36	Vertically perforation up to 15 %.	hammer	1,5	1,5
Sand-lime solid bricks, KS e.g. according to EN 771-2:2011	≥ 1,8	16	Vertically perforation up to 15 %.	hammer	1,5	1,5
Vertically perforated clay bricks, HLz e.g. according to EN 771-1:2011	≥ 1,4	16	Vertically perforation ≥ 15 % and ≤ 50 %. outer web thickness ≥ 14 mm	rotary	0,9 1)	1,5 1)
Sand-lime perforated bricks, KSL e.g. according to EN 771-2:2011	≥ 1,4	12	Vertically perforation ≥ 15 %. outer web thickness ≥ 20 mm	rotary	0,9 2)	1,5 <sup>2)</sup>
Lightweight concrete hollow blocks, Hbl e.g. according to EN 771-3:2011	≥ 0,9	4	Vertically perforation ≥ 15 %. outer web thickness ≥ 30 mm	rotary	0,6 3)	1,2 <sup>3)</sup>
Lightweight aggregate concrete LAC 8 – LAC 25 e.g. according to EN 771-3:2011	≥ 1,2	8		hammer	0,6	0,75
Autoclaved aerated concrete AAC4 – AAC 7 e.g. according to EN 771-4:2011	≥ 0,55	4		rotary	0,75	0,75

The value applies only for outer web thickness ≥ 14 mm; otherwise the characteristic resistance shall be determined by job site pull-out tests.

ejotherm S and ejotherm N	
Performances	Annex C 1
Characteristic resistance	

The value applies only for outer web thickness ≥ 20 mm; otherwise the characteristic resistance shall be determined by job site pull-out tests.

The value applies only for outer web thickness ≥ 30 mm; otherwise the characteristic resistance shall be determined by job site pull-out tests.

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Table C2: Point thermal transmittance according EOTA Technical Report TR 025:2016-05					
	insulation thickness	point thermal transmittance			
anchor type	h <sub>□</sub> [mm]	χ [W/K]			
ejotherm N (type A+B)	60 – 260	0,001			
ejotherm S (type A+B), countersunk	80 – 260	0,001			
ejotherm S (type A+B), flushed	80 – 260	0,002			

Table C3: Plate stiffness according EOTA Technical Report TR 026:2016-05					
anchor type	diameter of the anchor plate [mm]	load resistance of the anchor plate [kN]	plate stiffness [kN/mm]		
ejotherm N / ejotherm S (type A)	60	1,1	0,7		
ejotherm N / ejotherm S (type B)	60	2,7	0,8		

Table C4: Displacements					
Base materials	Bulk density p [kg/dm³]	Min. compressive strength f <sub>b</sub> [N/mm <sup>2</sup> ]	Tension Load N [kN] ejotherm N / S	Displacements δ <sub>(N)</sub> [mm]	
				ejotherm N	ejotherm S
Concrete C20/25 – C50/60 (EN 206-1:2000)			0,4 / 0,5	0,4	0,4
Clay bricks, Mz (EN 771-1:2011)	≥ 1,8	36	0,5 / 0,5	0,3	0,3
Sand-lime solid bricks, KS (EN 771-2:2011)	≥ 1,8	16	0,5 / 0,5	0,4	0,4
Vertically perforated clay bricks, HLz (EN 771-1:2011)	≥ 1,4	16	0,3 / 0,5	0,2	0,4
Sand-lime perforated bricks, KSL (EN 771-2:2011)	≥ 1,4	12	0,3 / 0,5	0,3	0,3
Lightweight concrete hollow blocks, Hbl (EN 771-3:2011)	≥ 0,9	4	0,2 / 0,4	0,2	0,2
Lightweight aggregate concrete, LAC 8 – LAC 25 (EN 771-3:2011)	≥ 1,2	8	0,2 / 0,25	0,2	0,2
Autoclaved aerated concrete, AAC 4 – AAC 7 (EN 771-4:2011)	≥ 0,55	4	0,25 / 0,25	0,3	0,3

ejotherm S and ejotherm N	
Performances Point thermal transmittance, plate stiffness and displacements for ejotherm N / ejotherm S	Annex C 2