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European Technical Assessment Body for construction products



European Technical Assessment

ETA-14/0130 of 31 October 2024

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	EJOT H3
Product family to which the construction product belongs	Plastic anchor for fixing of external thermal insulation composite systems with rendering
Manufacturer	EJOT SE & Co. KG Astenbergstraße 21 57319 Bad Berleburg GERMANY
Manufacturing plant	EJOT manufacturing plant 1, 2, 3, 4
This European Technical Assessment contains	12 pages including 3 annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	EAD 330196-01-0604 edition 10/2017
This version replaces	ETA-14/0130 issued on 17 June 2014



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Specific Part

1 Technical description of the product

The nailed-in anchor EJOT H3 consists of a plastic part made of virgin polyethylene and an accompanying specific nail of virgin polyamide, reinforced with glass fibres.

The anchor types EJOT H3 may in addition be combined with the insulation discs SBL 140 plus and VT 90.

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 verifications 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 load bearing capacity			
- Characteristic resistance under tension load	See Annex C 1		
- Minimum edge distance and spacing	See Annex B 2		
Displacements	See Annex C 2		
Plate stiffness	See Annex C 2		

3.2 Energy economy and heat retention (BWR 6)

ſ	Essential characteristic	Performance
	Point thermal transmittance	See Annex C 2

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+



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5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable European Assessment Document

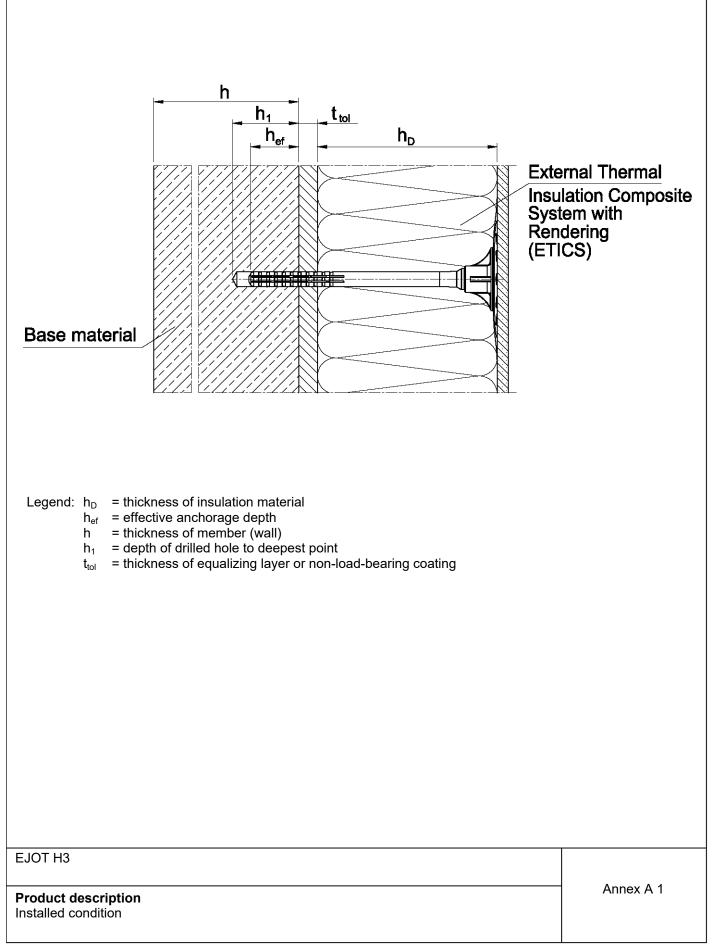
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 31 October 2024 by Deutsches Institut für Bautechnik

Dipl.-Ing. Beatrix Wittstock Head of Section *beglaubigt:* Ziegler

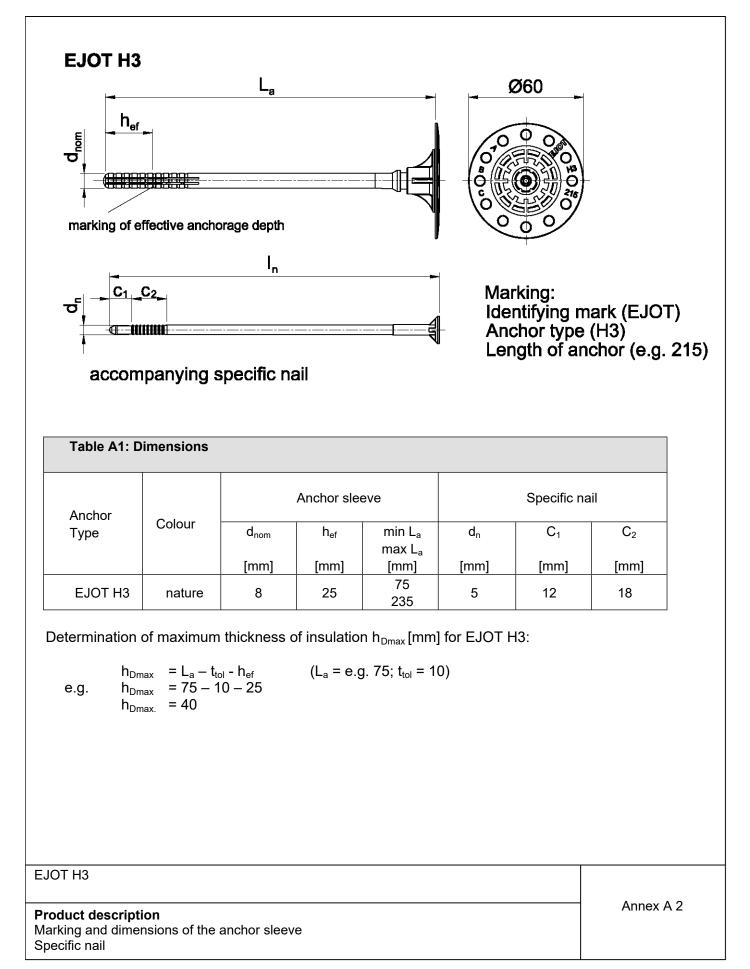
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Anchor sleeve Polyethylene (virgin material), PE-HD, colour: nature Specific nail Polyamide (virgin material), PA GF 50 Slip-on plate (SBL 140 plus, VT 90) Polyamide (virgin material) PA 6 or PA 6 GF 50 colour: nature SBL 140 plus Image: state s	Table A2: Materials		
Specific nail Polyamide (virgin material), PA GF 50 Slip-on plate (SBL 140 plus, VT 90) Polyamide (virgin material) PA 6 or PA 6 GF 50 colour: nature SBL 140 plus Image: Colour col	Name	Materials	
Slip-on plate (SBL 140 plus, VT 90) Polyamide (virgin material) PA 6 or PA 6 GF 50 colour: nature SBL 140 plus Image: SBL 140 plus Image:	Anchor sleeve	Polyethylene (virgin material), PE-HD, colour	: nature
(SBL 140 plus, VT 90) colour: nature SBL 140 plus Image: SBL 140 plus Image:	Specific nail	Polyamide (virgin material), PA GF 50	
VT 90 VT 90			50
		d d m v v v v v v v v v v v v v v v v v	20,0 2,0 90
JOT H3	JOT H3		

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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:

- Compacted normal weight concrete without fibres (base material group A) according to Annex C 1
- Solid masonry (base material group B), according to Annex C 1
- Hollow or perforated masonry (base material group C), according to Annex C 1
- For other base materials of the base material groups A, B or C 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)

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 \leq 6 weeks.

EJOT H3	
Intended use Specifications	Annex B 1

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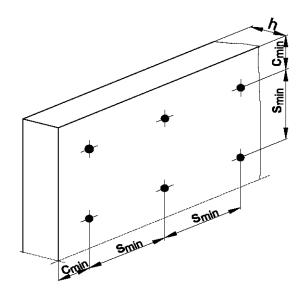
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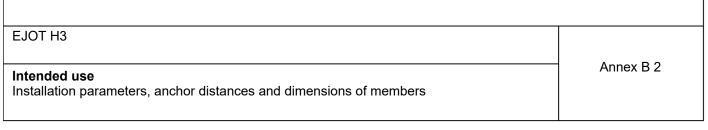


Table B1: Installation parameters			
Anchor type			EJOT H3
Drill hole diameter	d ₀ [mm]	=	8
Cutting diameter of drill bit	d _{cut} [mm]	≤	8,45
Depth of drilled hole to deepest point	h₁ [mm]	≥	35
Effective anchorage depth	h _{ef} [mm]	≥	25

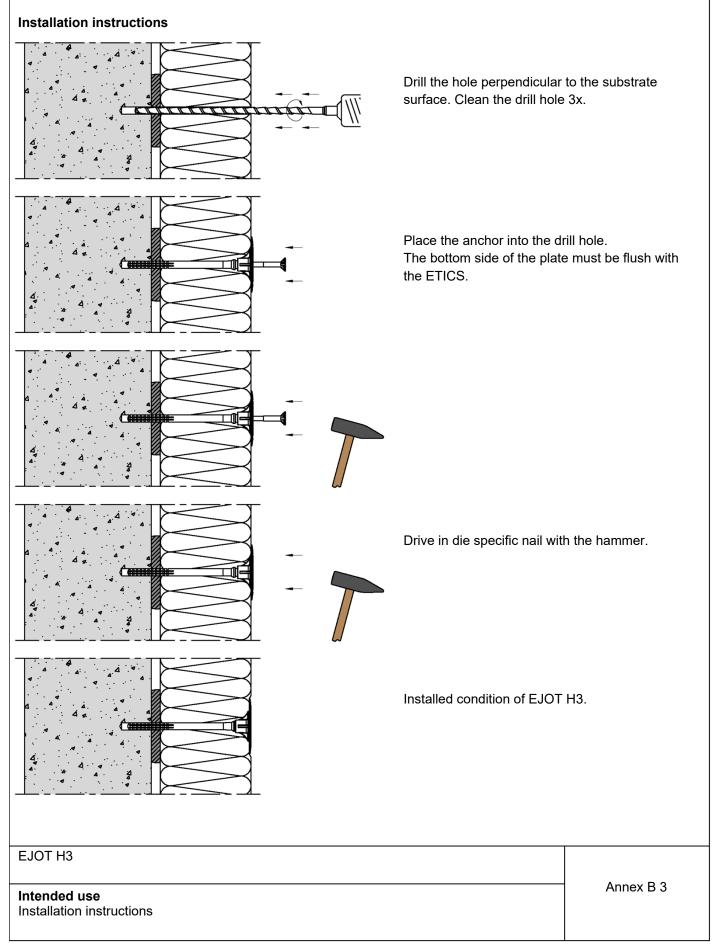
Table B2: Anchor distances and dimensions of mem	bers	
Anchor type		EJOT H3
Minimum spacing	s _{min} [mm] =	100
Minimum edge distance	c _{min} [mm] =	100
Thickness of member	h [mm] ≥	100

Scheme of distances and spacing









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Table C1: Characteristic resistance to tension loads N _{Rk} in concrete and masonry for a single anchor in kN					
Anchor type					EJOT H3
Base materials	Bulk density ρ [kg/dm³]	minimum compressive strength f _b [N/mm ²]	General remarks	Drill method	N _{Rk} [kN]
Concrete C12/15 – C50/60 as per EN 206:2013+A1:2016			Compacted normal weight concrete without fibres	hammer	0,6
Clay bricks, Mz as per EN 771-1:2011+A1:2015	≥ 1,8	12	Cross section reduced up to 15 % by perforation vertically to the resting area	hammer	0,6
Sand-lime solid bricks, KS as per EN 771-2:2011+A1:2015	≥ 1,8	12	Cross section reduced up to 15 % by perforation vertically to the resting area	hammer	0,6
Vertically perforated solid blocks, HLz as per EN 771-1:2011+A1:2015	≥ 0,8	12	Cross section reduced by more than 15% and less than 50% by perforation vertically to the resting area	rotary	0,5 ¹⁾
Vertically perforated solid blocks, HLz as per EN 771-1:2011+A1:2015	≥ 1,2	20	Cross section reduced by more than 15% and less than 50% by perforation vertically to the resting area	rotary	0,6 2)
Sand-lime perforated bricks, KSL as per EN 771-2:2011+A1:2015	≥ 1,6	12	Cross section reduced by more than 15 % by perforation vertically to the resting area	rotary	0,6 ³⁾

 The value applies only for outer web thickness ≥ 11 mm; otherwise the characteristic resistance shall be determined by job site pull-out tests.

²⁾ The value applies only for outer web thickness ≥ 14 mm; otherwise the characteristic resistance shall be determined by job site pull-out tests.

³⁾ The value applies only for outer web thickness ≥ 20 mm; otherwise the characteristic resistance shall be determined by job site pull-out tests.

EJOT	H3
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Performances Characteristic resistance Annex C 1

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		<u> </u>				R 025:2016		
anchor type	insulation thickness h _d [mm]		point thermal tra χ [W/K					
EJOT H3		40 -		0,000				
Table C3: Plate stiffness acco	rding E0	OTA Technie	cal Report TF	R 026:20	16-05	5		
anchor type		neter ichor plate	load res oft the an	sistance chor plat	nlate stittness			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	[n	nm]	[k	N]		[kN/mm]		
EJOT H3	(60	1,	25			0,6	
Table C4: Displacements								
Base materials		Bulk density ρ	Minin Compre stren f _b	essive igth	Tension load		Displacements $\Delta \delta_{N}$	
		[kg/dm³]	[N/m			[kN]	[kN/mm]	
Concrete C20/25 (EN 206:2013+A1:2016)						0,2	0,55	
Concrete C50/60 (EN 206:2013+A1:2016)						0,2	0,34	
Clay bricks, Mz (EN 771-1:2011+A1:2015)		≥ 1,8	12	2		0,2	0,31	
Sand-lime solid bricks, KS (EN 771-2:2011+A1:2015)		≥ 1,8	12	2		0,2	0,33	
Vertically perforated solid blocks (EN 771-1:2011+A1:2015)	s, HLz	≥ 0,8	12	2		0,16	0,25	
Vertically perforated solid blocks (EN 771-1:2011+A1:2015)	s, HLz	≥ 1,2	20)		0,2	0,27	
Sand-lime perforated bricks, KS (EN 771-2:2011+A1:2015)	L	≥ 1,6	12	2		0,2	0,24	

EJOT H3

Performances

Point thermal transmittance, plate stiffness and displacements

Annex C 2