



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-18/0093 of 7 June 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

Deutsches Institut für Bautechnik

WEBER.THERM TA6

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

Saint-Gobain PPC Italia S.p.A. Via Ettore Romagnoli, 6 20146 MILANO ITALIEN

Saint-Gobain PPC Italia S.p.A.

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

EAD 330196-01-0604

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Specific Part

1 Technical description of the product

The WEBER.THERM TA6 consists of a plastic sleeve made of polypropylene (virgin material), a plate and an accompanying specific nail made of glass fibre reinforced polyamide (virgin material).

The anchor may in addition be combined with the slip-on-plate DT 90, DT 110 and DT 140.

The product description is 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

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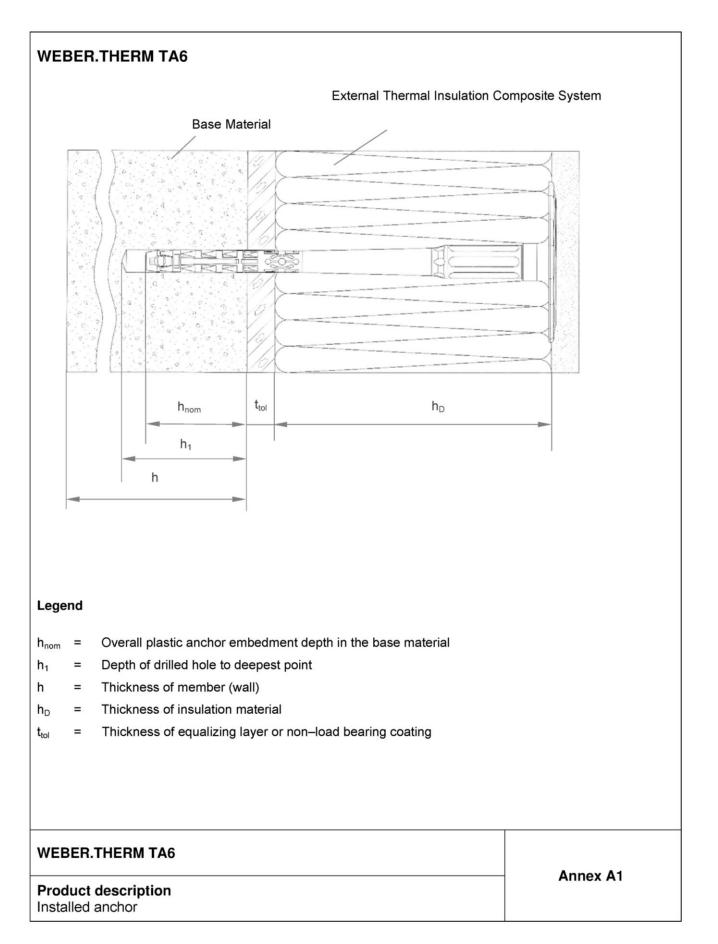
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 7 June 2018 by Deutsches Institut für Bautechnik

Dr.-Ing. Lars Eckfeldt p. p. Head of Department *beglaubigt:* E. Aksünger







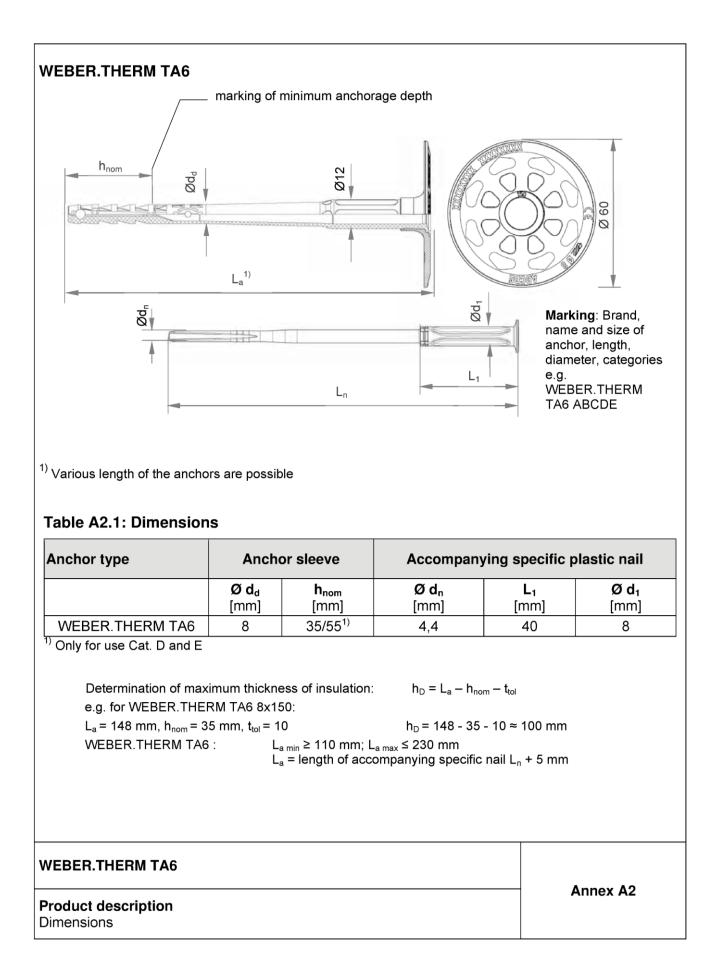




Table A3.1: Material					
Designation	Material				
Anchor sleeve	PP (virgin material), colour: grey				
Specific plastic nail	PA6 (virgin material) GF, colour: nature				
Slip-on plate	PA6 (virgin material), GF colour: grey, orange, red, green, yellow, blue				

Drawing of the slip-on plates

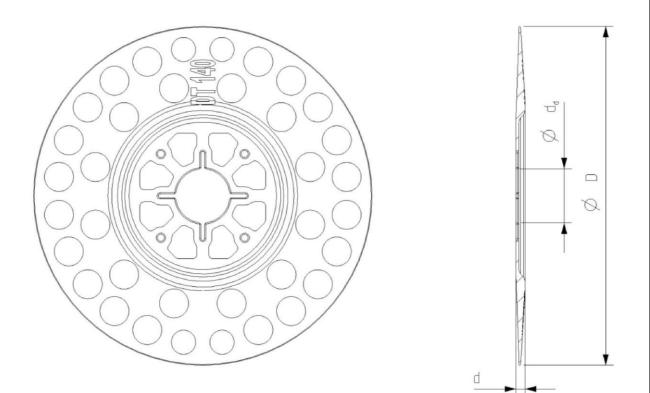


Table A3.2 Slip-on plates, diameters and material

Slip-on plate	Ø D [mm]	Ø d _d [mm]	d [mm]	Material
DT 90 / 110 / 140	90 / 110 / 140	22,5	3,9	PA 6 GF

WEBER.THERM TA6

Product description

Material Slip-on plates combined with WEBER.THERM TA6

Annex A3



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 and E the characteristic resistance of the anchor may be determined by job site tests acc. 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 $\gamma_F = 1,5$ in absence of 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 ETICS.

Installation:

- Drilling method according to Annex C1.
- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters on 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.

WEBER.THERM TA6

Intended use Specification Annex B1



Table B2.1: Installation parameters

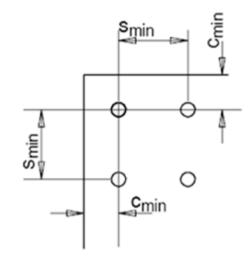
Anchor type				WEBER.THERM TA6
Drill hole diameter	d _o	=	[mm]	8
Cutting diameter of drill bit	d _{cut}	≤	[mm]	8,45
Depth of drilled hole to deepest point	h ₁	≥	[mm]	45/65 ¹⁾
Overall plastic anchor embedment depth in the base material	h _{nom}	≥	[mm]	35/55 ¹⁾
¹⁾ Only for use estegaria "D" and "E"				

Only for use categorie "D" and "E"

Table B2.2: Minimum distances and spacings

	WEBER.THERM TA6			
Minimum thickness of member	h	=	[mm]	100
Minimum spacing	S _{min}	=	[mm]	100
Minimum edge distance	C _{min}	=	[mm]	100

Scheme of distance and spacing



Annex B2

WEBER.THERM TA6

Installation parameters

Minimum distances and spacings

Intended use



Installation instructions	
	1. Drill hole by corresponding drilling method.
	2. Insert anchor manually.
	3. Set anchor by hammer-blows.
	4. Correctly installed anchor.
WEBER.THERM TA6	
ntended use nstallation instruction	Annex B3



Table C1.1: Characteristic resistance N_{Rk} in [kN] to tension loads for single anchor							
Base material	Use cat. ¹⁾	Bulk density class p [kg/dm ³]	Min. compressive strength f _b [N/mm ²]	Remarks	Drill method 2)	Characteristic resistance N _{Rk} to tension loads [kN] WEBER.THERM	
		լ էնց/սու յ				TA6	
Concrete ≥ C12/15 - C50/60 EN 206-1:2011	A	-	-	-	н	0,5	
Solid Clay bricks e.g. acc. to EN 771-1:2011, Mz	В	≥ 2,0	12	Cross section reduced up to 15% by perforation vertically to the resting area	Н	0,6	
Calcium silicate solid bricks, e.g. acc. to EN 771-2:2011, KS	В	≥ 1,8	12	Cross section reduced up to 15% by perforation vertically to the resting area	Н	0,6	
Vertically perforated clay bricks e.g. acc. to EN 771-1:2011, HLz	с	≥ 1,0	12	Cross section reduced between 15% and 50% by perforation vertically to the resting area. Exterior web thickness ≥ 12 mm	R	0,4	
Hollow calcium silicate brick, acc. to EN 771-2:2011, KSL	с	≥ 1,4	12	Cross section reduced between 15% and 50% by perforation vertically to the resting area. Exterior web thickness ≥ 23 mm	Н	0,4	
Lightweight concrete hollow blocks e.g. acc. to EN 771-3:2011, Hbl	с	≥ 1,2	10	-	н	0,5	
Lightweight aggregate			4			0,3	
concrete, LAC e.g. acc. to EN 1520:2011, EN 771-3:2011	D	≥ 0,9	6	Minimum exterior web thickness t = 50 mm	Н	0,4	
Autoclaved aerated concrete blocks, e.g. AAC acc. to	E	≥ 0,5	4	_	R	0,3	
EN 771-4:2011		≥ 0,6	6			0,4	

1) See Annex B 1 2) R = Rotary drilling | H = Hammer drilling

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Performance Characteristic resistance Annex C1



Table C2.1 Point thermal transmittance acc. to EOTA Technical Report TR 025: 2016 – 05						
Anchor type	Point thermal transmittance χ [W/K]					
WEBER.THERM TA6	60 - 180	0,000				

Table C2.2: Plate stiffness acc. to EOTA Technical Report TR 026 : 2016 - 05

Anchor type	Max. size of the anchor plate	Load resistance of the anchor plate	Plate stiffness
	[mm]	[kN]	[kN/mm]
WEBER.THERM TA6	60	1,7	0,6

Table C2.3 Displacements

Base material		Tension load F _{Rd} [kN]	Displacements δ _m [mm]
Concrete ≥ C12/15 – C50/60 (EN 206-1:2000)		0,15	0,2
Clay brick (EN 771-1:2011), Mz 12		0,20	0,2
Calcium silicate solid bricks (EN 771-2 :2011),KS 12		0,20	0,3
Vertically perforated clay brick (EN 771-1:2011),Hlz 12		0,15	0,4
Hollow calcium silicate brick (EN 771-2:2011), KSL 12		0,15	0,2
Hollow brick lightweight concrete (EN 771-3:2011), Hbl 4		0,15	0,2
Lightweight aggregate concrete	LAC 4	0,10	0.2
(EN 1520:2011, EN 771-3:2011)	LAC 6	0,13	0,2
Autoclaved aerated concrete blocks acc. to	AAC 4	0,10	0,1
(EN 771-4:2011)	AAC 6	0,13	0,2

WEBER.THERM TA6

Performance

Point thermal transmittance | Plate stiffness Displacements Annex C2