

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-06/0012
of 25 March 2016

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

weber.therm-Wärmedämm-Verbundsystem B 200/BM 400

Product family
to which the construction product belongs

Product area code: 4
External Thermal Insulation Composite System with
rendering on expanded polystyrene for the use as
external insulation of building walls

Manufacturer

Saint-Gobain Weber GmbH
Schanzenstraße 84
40549 Düsseldorf
DEUTSCHLAND

Manufacturing plant

Saint-Gobain Weber GmbH
Niederlassung Wülfrath
Meiersberger Straße
42489 Wülfrath
DEUTSCHLAND

This European Technical Assessment
contains

18 pages including 5 annexes which form an integral part
of this assessment

Annex 6 Control Plan contains confidential information
and is not included in the European Technical
Assessment when that assessment is publicly available

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

Guideline for European technical approval of "External
Thermal Insulation Composite Systems with Rendering",
ETAG 004, edition 2000, amended 2013,
used as European Assessment Document (EAD)
according to Article 66 Paragraph 3 of Regulation (EU)
No 305/2011.

This version replaces

ETA-06/0012 issued on 25 March 2011

**European Technical Assessment
ETA-06/0012**

Page 2 of 18 | 25 March 2016

English translation prepared by DIBt

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.

SPECIFIC PART

1 Technical description of the product

1.1 Definition of the kit

This product is an ETICS (External Thermal Insulation Composite System) with rendering - a kit comprising components which are factory-produced by the manufacturer or component suppliers. It's made up on site from these. The ETICS manufacturer is ultimately responsible for all components of the ETICS specified in this ETA.

The ETICS kit comprises a prefabricated insulation product of expanded polystyrene (EPS) to be bonded and if it necessary additional mechanically fixed onto a wall. The methods of fixing and the relevant components are specified in the table below. The insulation product is faced with a rendering system consisting of one or more layers (site applied), one of which contains reinforcement. The rendering is applied directly to the insulating panels, without any air gap or disconnecting layer.

The ETICS may include special fittings (e.g. base profiles, corner profiles ...) to treat details of ETICS (apertures, corners, parapets ...). Assessment and performance of these components is not addressed in this ETA, however the ETICS manufacturer is responsible for adequate compatibility and performance within the ETICS when the components are delivered as a part of the kit.

1.2 Composition of the ETICS

	Components National application documents shall be taken into account	Coverage [kg/m ²]	Thickness [mm]
Insulation material with associated method of fixing	Bonded ETICS: <ul style="list-style-type: none"> • Insulation product (see annex 1 for product characteristics) factory-prefabricated expanded polystyrene (EPS) <ul style="list-style-type: none"> – standard-EPS • Adhesives (minimum bonded surface 40 %) <ul style="list-style-type: none"> – weber.therm 303 (cement based powder requiring addition of about 25 % of water) – weber.therm 370 (cement based powder requiring addition of about 22 % of water) 	– } ca. 5.0	≤ 300 – –
	Mechanically fixed ETICS with profiles and supplementary adhesive: <ul style="list-style-type: none"> • Insulation product (see annex 1 for product characteristics) factory-prefabricated expanded polystyrene (EPS) <ul style="list-style-type: none"> - standard EPS • Supplementary adhesive (equal to bonded ETICS, minimum bonded surface 20 %) 	–	60 to 200

	Components National application documents shall be taken into account	Coverage [kg/m ²]	Thickness [mm]
Insulation material with associated method of fixing	<ul style="list-style-type: none"> • Profiles (see annex 3 for product characteristics) <ul style="list-style-type: none"> – PVC Halteleiste BM 400 – PVC Verbindungsleiste BM 400 Polyvinyl chloride (PVC) profiles 		
	<p>Anchors for profiles (see annex 2 for product characteristics)</p> <ul style="list-style-type: none"> – WS 8 L – WS 8 N – ejothem SDK U – SDF-K plus – ejothem NK U 		
	<p>Mechanically fixed ETICS with anchors and supplementary adhesive:</p> <ul style="list-style-type: none"> • Insulation product (see annex 1 for product characteristics) factory-prefabricated expanded polystyrene (EPS) • Supplementary adhesive (equal to bonded ETICS, minimum bonded surface 40 %) • Anchors for insulation product (see annex 2 for product characteristics) all anchors with ETA according to ETAG 014¹ with characteristics defined in annex 2 	–	60 to 300
Base coat	weber.therm 303 Identical with the equally named adhesive given above	ca. 4.0	3.0 to 5.0
Glass fibre mesh	Standard mesh: weber.therm 311 Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 160 g/m ² and mesh size of about 4.0 mm x 4.0 mm. (see annex 4 for product characteristics)	–	–
Key coat	weber.prim 403 Ready to use pigmented styrol-acrylat dispersion liquid	ca. 0.300 l/m ²	–

¹ ETAG 014 Plastic anchors for fixing of external thermal insulation composite systems with rendering

	Components National application documents shall be taken into account	Coverage [kg/m ²]	Thickness [mm]
Finishing coat	<p>To use with key coat if applicable:**</p> <ul style="list-style-type: none"> Thin layered cement based powder requiring addition of about 20 – 35 % of water: <ul style="list-style-type: none"> weber.star 222, 223 * (particle size 1,5 – 2 – 3 – 4 and 5 mm) weber.star 223 AquaBalance * (particle size 1,5 – 2 – 3 – 4 and 5 mm) weber.star 242, 244 * (particle size 1,5 – 2 – 3 – 4 and 5 mm) weber.star 261 Ready to use pastes – Styrolacrylat-binder: <ul style="list-style-type: none"> weber.pas 430, 431 * (particle size 1,5 – 2 – 3 and 4 mm) weber.pas 430 AquaBalance * (particle size 1,5 – 2 – 3 and 4 mm) weber.pas 431 AquaBalance * (particle size 1,5 – 2 – 3 and 4 mm) 	<p>2.0 to 5.0</p> <p>3.0 to 5.0</p> <p>2.5 to 4.0</p>	<p>Regulated by particle size</p> <p>3 to 5.0</p> <p>Regulated by particle size</p>
	<ul style="list-style-type: none"> Ready to use pastes – potassium silicate binder: <ul style="list-style-type: none"> weber.pas 460, 461 * (particle size 1 - 1,5 – 2 – 3 und 4 mm) weber.pas 460 AquaBalance * (particle size 1 - 1,5 – 2 – 3 und 4 mm) weber.pas 461 AquaBalance * (particle size 1 - 1,5 – 2 – 3 und 4 mm) Ready to use paste – silicate acrylic binder <ul style="list-style-type: none"> weber.pas 480, 481 * (particle size 1,5 – 2 – 3 und 4 mm) weber.pas 480 AquaBalance * (particle size 1,5 – 2 – 3 und 4 mm) weber.pas 481 AquaBalance * (particle size 1,5 – 2 – 3 und 4 mm) 	<p>2.5 to 4.0</p>	<p>Regulated by particle size</p>
Ancillary material	Remains the responsibility of the manufacturer.		
<p>* The Numbers indicate different structures of the finishing coats.</p> <p>** The instruction to the installer concerning the use of a key coat remains the responsibility of the ETA-holder.</p>			

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

2.1 Intended use

This ETICS is intended to be used as external insulation to the walls of buildings made of masonry (bricks, blocks, stones ...) or concrete (cast on site or as prefabricated panels) with and without rendering. The characteristics of the walls shall be verified prior to use of the ETICS, especially regarding conditions for reaction to fire classification and for fixing of the ETICS either by bonding or mechanically. It shall be designed to give the wall to which it is applied satisfactory thermal insulation.

The ETICS is non load-bearing construction element. It does not contribute directly to the stability of the wall on which it is installed, but it can contribute to durability by providing enhanced protection from the effects of weathering.

The ETICS can be used on new or existing (retrofit) vertical walls.

The ETICS is not intended to ensure the air tightness of the building structure.

The choice of the method of fixing depends on the characteristics of the substrate, which could need preparation (see clause 7.2.1 of ETAG 004) and on the national instructions.

The verifications and assessment methods on which this European Technical Assessment (hereinafter called ETA) is based lead to the assumption of a working life of the ETICS "weber.therm-Wärmedämm-Verbundsystem B 200/BM 400" of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer, but are to be regarded only as a means for choosing the right products in relation to the assumed economically reasonable working life of the works

2.2 Manufacturing

The ETA is issued for the ETICS on the basis of agreed data/information, deposited with the DIBt, which identifies the ETICS that has been assessed and judged. Changes to the ETICS or the components or their production process, which could result in this deposited data/information being incorrect, should be notified to the DIBt before the changes are introduced. The DIBt will decide whether or not such changes affect the approval and consequently the validity of the CE marking on the basis of the approval and if so whether further assessment or alterations to the approval shall be necessary.

2.3 Design and installation

The installation instructions including special installation techniques and provisions for the qualification of the personnel are given in the manufacturer's technical documentation.

Design, installation and execution of ETICS are to be in conformity with national documents. Such documents and the level of their implementation in Member States' legislation are different. Therefore, the assessment and declaration of performance are done taking into account general assumptions introduced in the chapters 7.1 and 7.2 of ETAG 004 used as EAD, which summarize how information introduced in the ETA and related documents is intended to be used in the construction process and gives advice to all parties interested when normative documents are missing.

2.4 Packing, transport and storage

The information on packaging, transport and storage is given in the manufacturer's technical documentation. It is the responsibility of the manufacturer to ensure that this information is made know to the concerned people.

English translation prepared by DIBt

2.5 Use, maintenance, repair

The finishing coat shall normally be maintained in order to fully preserve the ETICS performance. Maintenance includes at least:

- visual inspection of the ETICS
- the repairing of localised damaged areas due to accidents,
- the aspect maintenance with products adapted and compatible with the ETICS (possibly after washing or ad hoc preparation).

Only products which are compatible with the ETICS shall be used.

Necessary repairs should be performed as soon as the need has been identified.

The information on use, maintenance and repair is given in the manufacturer's technical documentation.

It is the responsibility of the manufacturer to ensure that this information is made know to the concerned people.

3 Characteristics of products and methods of verification

3.0 General

The performances of the kit as described in this chapter are valid provided that the components of the kit comply with Annexes 1 to 5.

3.1 Mechanical resistance and stability (BWR 1)

not relevant

3.2 Safety in case of fire (BWR 2)

Reaction to fire (ETAG 004 - clause 5.1.2)

Configurations	Organic content	Flame retardant content	Euroclass according to EN 13501-1
Base coat	max. 4,1 %	no flame retardant	
EPS	In quantity ensuring Euroclass E according to EN 13501-1	In quantity ensuring Euroclass E according to EN 13501-1	
Profile	-	-	
Anchors	-	-	
rendering system : Base coat with finishing coat and compatible key coat indicated in clause 1.2:			
weber.star 222, 223, 242, 244, 261 weber.star 223 AquaBalance	max. 2,6 %	no flame retardent	B – s1,d0
weber.pas 460, 461 weber.pas 460 AquaBalance weber.pas 461 AquaBalance	max. 6,9 %		

Configurations	Organic content	Flame retardant content	Euroclass according to EN 13501-1
weber.pas 430, 431 weber.pas 430 AquaBalance weber.pas 431 AquaBalance weber.pas 480, 481 weber.pas 480 AquaBalance weber.pas 481 AquaBalance	max. 8,7 %	no flame retardent	B – s2,d0

3.3 Hygiene, health and environment (BWR 3)

3.3.1 Water absorption (capillarity test) (ETAG 004 - clause 5.1.3.1)

Base coat:

- Water absorption after 1 hour < 1.0 kg/m²
- Water absorption after 24 hours < 0.5 kg/m²

• **Rendering system:**

		Water absorption after 24 h	
		< 0.5 kg/m ²	≥ 0.5 kg/m ²
Rendering systems: Base coat with finishing coat indicated in clause 1.2.	weber.star 222, 223, 242, 244, 261	x	
	weber.star 223 AquaBalance	x	
	weber.pas 430, 431	x	
	weber.pas 430 AquaBalance	x	
	weber.pas 431 AquaBalance	x	
	weber.pas 460, 461	x	
	weber.pas 460 AquaBalance	x	
	weber.pas 461 AquaBalance	x	
	weber.pas 480, 481	x	
	weber.pas 480 AquaBalance	x	
	weber.pas 481 AquaBalance	x	

3.3.2 Hygrothermal behaviour (ETAG 004 - clause 5.1.3.2)

Pass (without defects)

3.3.3 Impact resistance (ETAG004 – clause 5.1.3.3)

The impact resistance of the ETICS with finishing coats with lower thickness / particle size is not determined (npd).

3.3.4 Water vapour permeability (ETAG004 – clause 5.1.3.4)

Rendering system: Base coat with finishing coat and compatible key coat indicated in clause 1.2:	Equivalent air thickness s _d
weber.star 222, 223, 242, 244, 261 weber.star 223 AquaBalance	≤ 1.0 m (Test result obtained with "weber.star 220", particle size 5 mm: 0.2 m)

Rendering system: Base coat with finishing coat and compatible key coat indicated in clause 1.2:	Equivalent air thickness s_d
weber.pas 430, 431 weber.pas 430 AquaBalance weber.pas 431 AquaBalance	≤ 1.0 m (Test result obtained with "weber.pas 431", particle size 4 mm: 0.5 m)
weber.pas 460, 461 weber.pas 460 AquaBalance weber.pas 461 AquaBalance	≤ 1.0 m (Test result obtained with "weber.pas 461", particle size 4 mm: 0.3 m)
weber.pas 480, 481 weber.pas 480 AquaBalance weber.pas 481 AquaBalance	≤ 1.0 m (Test result obtained with "weber.pas 480", particle size 3 mm: 0.3 m)

3.3.5 Release of dangerous substances (ETAG 004 - clause 5.1.3.5, EOTA TR 034)

Essential characteristic	Performance
Release of dangerous substances	no performance assessed

3.4 Safety and accessibility in use (BWR 4)

3.4.1 Bond strength between base coat and insulation product (EPS) (ETAG 004 - clause 5.1.4.1.1)

Conditioning		
Initial state	After hygrothermal cycles	After freeze/thaw test
≥ 0.08 MPa	≥ 0.08 MPa	Test not required because freeze/thaw cycles not necessary

3.4.2 Bond strength between base coat and substrate resp. insulation product (EPS) (ETAG 004 - clause 5.1.4.1.2 and 5.1.4.1.3)

Adhesive	Substrate resp. insulation product	Conditioning		
		Initial state	2 d immersion in water and 2 h drying	2 d immersion in water and 7 d drying
weber.therm 303	Concrete	≥ 0.25 MPa	≥ 0.08 MPa	≥ 0.25 MPa
	EPS	≥ 0.08 MPa	≥ 0.03 MPa	≥ 0.08 MPa
weber.therm 370	Concrete	≥ 0.25 MPa	≥ 0.08 MPa	≥ 0.25 MPa
	EPS	≥ 0.08 MPa	≥ 0.03 MPa	≥ 0.08 MPa

Bonded surface:

For bonded ETICS the calculated minimal bonded surface area, according to ETAG 004, clause 6.1.4.1.3 is 40 %.

3.4.3 Bond strength after ageing (ETAG 004 - clause 5.1.7.1)

The rendering system (base coat with each finishing coat indicated in the Table in clause 1.2) has proved its bond strength after ageing by experience on site.

English translation prepared by DIBt

3.4.4 Fixing strength (displacement test) (ETAG 004 - clause 5.1.4.2)

Test not required therefore no limitation of ETICS length required

3.4.5 Wind load resistance (ETAG 004 - clause 5.1.4.3)

The following failure loads only apply to the listed of component characteristics and the characteristics of the insulation product given in annex 1.

3.4.5.1 Safety in use of mechanically fixed ETICS using profiles

Characteristics of the EPS (standard EPS)	Dimensions	500 mm x 500 mm
	Thickness	≥ 60 mm
	Tensile strength perpendicular to the faces	≥ 150 kPa
Failure loads [N / panel] (Static Foam Block Test)	Horizontal profiles fixed every 30 cm and 49.4 cm long vertical connection profiles	Minimal: 950 Average: 1010

3.4.5.2 Safety in use of mechanically fixed ETICS using anchors

Apply to all anchors listed in the clause 1.2 mounted on the insulation panels surface				
Characteristics of the EPS (standard EPS)	Thickness		≥ 60 mm	
	Tensile strength perpendicular to the faces		≥ 100 kPa	
Plate diameter of anchor			Ø 60 mm	Ø 90 mm
Failure loads [N]	Anchors not placed at the panel joints (Static Foam Block Test)	R _{panel}	Minimal: 510 Average: 520	Minimal: 720 Average: 730
	Anchors placed at the panel joints (Pull-through test)	R _{joint}	Minimal: 400 Average: 430	Minimal: 430 Average: 470

The failure loads specified above for a plate diameter of anchor of 60 mm apply to the following anchors with deep mounting but only on the following conditions of installation:

Anchor	Thickness of the EPS [d]	Conditions of installation *
ejothem STR U, (ETA-04/0023)	100 mm > d ≥ 80 mm	– Maximum installation depth of the anchor plate: 15 mm (≅ thickness of insulation cover) – Maximum depth of die: 5 mm
	≥ 100 mm	– Maximum installation depth of the anchor plate: 15 mm (≅ thickness of insulation cover) – Maximum depth of die: 20 mm
* according to the appropriate ETA of anchor		

3.4.6 Render strip tensile test (ETAG 004 – clause 5.5.4.1)

The average value of crack width of the base coat reinforced with the glass fibre mesh "weber them 303" measured at a render strain value of 1% is about 0,07 mm.

English translation prepared by DIBt

3.5 Protection against noise (BWR 5)

NPD (no performance determined)

3.6 Energy economy and heat retention (BWR 6)

3.6.1 Thermal resistance

The nominal value of the additional thermal resistance R provided by the ETICS to the substrate wall is calculated in accordance with EN ISO 6946:2007 from the nominal value of the insulation product's thermal resistance R_D given accompanied to the CE marking and from the thermal resistance of the rendering system R_{render} which is about $0.02 (m^2 \cdot K)/W$.

$$R = R_D + R_{render}$$

The thermal bridges caused by anchors profiles increases the thermal transmittance U . This influence had to take into account according to EN ISO 6946:2007

$$U_c = U + \chi_p \cdot n$$

Where: U_c : corrected thermal transmittance [$W/(m^2 \cdot K)$]

n : number of anchors per m^2

χ_p : local influence of thermal bridge caused by an anchor. The values listed below can be taken into account if not specified in the anchor's ETA:

$\chi_p = 0.004 W/K$ for anchors with a stainless steel screw covered by plastic anchors and for anchors with an air gap at the head of the screw

$\chi_p = 0.002 W/K$ for anchors with a galvanized steel screw with the head covered by a plastic material

The thermal bridges caused by profiles are negligible.

3.7 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

English translation prepared by DIBt

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

According to the European Commission decision 97/556/EC amended by the European Commission decision 2001/596/EC, the assessment and verification of constancy of performance system (AVCP) applies suitable following table (see Annex V to Regulation (EU) No 305/2011).

Product	Intended use	Levels or classes (Reaction to fire)	Systems
"weber.therm-Wärmedämm-Verbundsystem B 200/BM 400"	in external wall subject to fire regulations	A1 ⁽¹⁾ , A2 ⁽¹⁾ , B ⁽¹⁾ , C ⁽¹⁾	1
		A1 ⁽²⁾ , A2 ⁽²⁾ , B ⁽²⁾ , C ⁽²⁾ , D, E, (A1 to E) ⁽³⁾ , F	2+
	in external wall not subject to fire regulations	any	2+
<p>⁽¹⁾ Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material)</p> <p>⁽²⁾ Products/materials not covered by footnote (1)</p> <p>⁽³⁾ Products/materials that do not require to be tested for reaction to fire (e.g. products/materials of Classes A1 according to Commission Decision 96/603/EC)</p>			

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 at Deutsches Institut für Bautechnik.

Issued in Berlin on 25 March 2016 by Deutsches Institut für Bautechnik

Dirk Brandenburger
Head of Department

beglaubigt:
Windhorst

Annexes:

- Annex 1: Thermal insulation product characteristic
- Annex 2: Profiles
- Annex 3: Anchors
- Annex 4: Reinforcement
- Annex 5: Corresponding trade names

Annex 1: Thermal insulation product characteristic

Factory-prefabricated, uncoated panels made of expanded polystyrene (EPS) to EN 13163:2015 shall be used, having the description and characteristics defined in the Table below.

Description and characteristics	For bonded ETICS	For mechanically fixed ETICS	
		with anchors and supplementary adhesive	with profiles and supplementary adhesive***
Reaction to fire; EN 13501-1:2007	Class E*		
Thermal resistance [(m ² ·K)/W]	Defined in the CE marking in reference to EN 13163:2015		
Tolerances			
Length; EN 822:1994	± 0.6 % or ± 3 mm whichever gives the greatest numerical tolerance (class L1 or class L2)		
Width [mm]; EN 822:1994	± 2 (class W2)		
Thickness [mm]; EN 823:1994	± 1 (class T2)		
Squareness [mm/m]; EN 824:1994	± 2 (class S2)		
Flatness [mm/m]; EN 825:1994	5 (class P4)		
Dimensional stability under			
- laboratory conditions [%]; EN 1603:1996	± 0.2 (class DS(N)2)		
- specified temperature and humidity conditions [%]; EN 1604:1996	2 (level DS(70,-)2 or level DS(70,-)1)		
Water absorption (long term partial immersion) [kg/m ²]; EN 12087:1997	W _{ip} ≤ 0.5		
Water vapour diffusion resistance factor; EN 12086:1997	μ = 20 – 78		
Tensile strength perpendicular to the faces in dry conditions** [kPa]; EN 1607:1996 - standard EPS	σ _{mt} ≥ 80	σ _{mt} ≥ 100	σ _{mt} ≥ 150
Bending strength** [kPa]; EN 12089:1997	σ _b ≥ 50		
Apparent density [kg/m ³]; EN 1602:1996	ρ _a ≤ 30		
Shear strength** [kPa]; EN 12090:1997	20 ≤ f _{tk} ≤ 170		
Shear modulus [MPa]; EN 12090:1997 - standard EPS	1.0 ≤ G _m ≤ 3.8		
Testing of characteristics see EN 13163:2015.			
* See the conditions of clause 3.2 for the EPS.			
** Minimal value of all single values			
*** Thermal insulation materials for mechanically fixed ETICS with profiles must circumferentially at the edges, 24 mm from the inner surface, get an approx. 3 mm wide and 13 to 18 mm deep groove cut-in at the factory.			

Annex 2: Anchors

All anchors with ETA according to ETAG 014¹ with characteristics having the description below shall be used in the mechanically fixed ETICS:

- plate diameter of anchor ≥ 60 mm resp. ≥ 90 mm
- plate stiffness ≥ 0.3 kN/mm
- load resistance of the anchor plate ≥ 1.0 kN

These characteristics and the characteristic tension resistance of the anchors shall be taken from the corresponding ETA.

The anchors listed in the Table in clause 1.2 with reference to the respective ETA shall be used in the mechanically fixed ETICS with profiles for fixing the horizontal profiles.

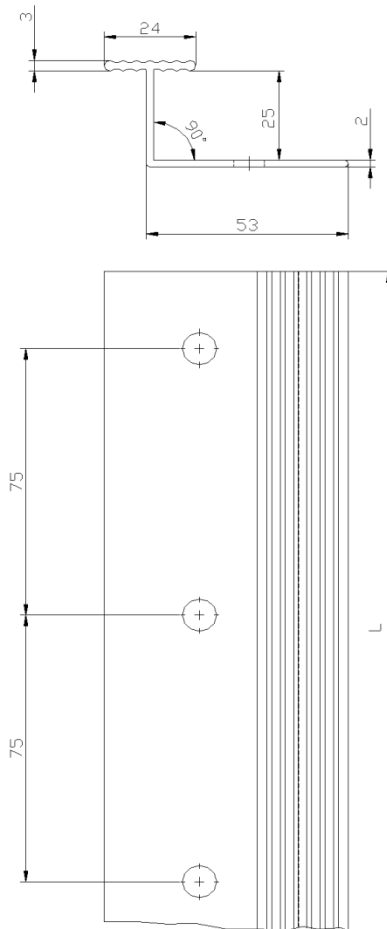
Trade name	ETA-number
WS 8 L	ETA-02/0019
WS 8 N	ETA-03/0019
ejotherm SDK U	ETA-04/0023
SDF-K plus	ETA-04/0064
ejotherm NK U	ETA-05/0009

Annex 3: Profiles

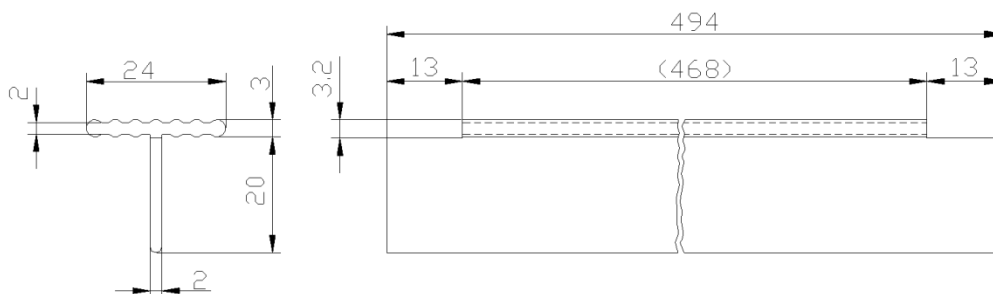
Polyvinyl chloride (PVC) profiles, PVC-U, EGL, 082-05-T33 to EN ISO 1163-1:1999 are to be used in the mechanically fixed ETICS with profiles.

The Pull-through resistance of fixings from profiles is ≥ 500 N.

Horizontal profil – "PVC Halteleiste BM 400" (dimensions in millimetres)



Vertical connection profil "PVC Verbindungsleiste BM 400" (dimensions in millimetres)



Annex 4: Reinforcement (glass fibre mesh)

Characteristics (alkali resistance): Pass

	Description	Absolute strength after ageing (N/mm)	Relative residual strength after ageing in % of the strength in the as delivered state
"weber.therm 311"	Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 160 g/m ² and mesh size of about 4.0 mm x 4.0 mm	≥ 20	≥ 50

Annex 5: Corresponding trade names

Components	Trade names acc. to the Table in clause 1.2	Further trade names
Adhesives	weber.therm 303	weber.therm family KS
Base coat	weber.therm 303	weber.therm family KS
Glass fibre mesh	weber.therm 311	weber.therm Textilglasgittergewebe
Key coat	weber.prim 403	weber Putzgrund
Finishing coats	weber.star 223	weber.min freestyle RP
	weber.pas 430,431	weber Kunstharzputz
	weber.pas 460,461	weber Silikatputz weber extraClean
	weber.pas 461	weber decofino weber modelfino
	weber.pas 480,481	weber Silikonharzputz