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European Technical Assessment Body  
for construction products



## European Technical Assessment

ETA-06/0012  
of 19 November 2025

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  
Willstätterstraße 60  
40549 Düsseldorf

Manufacturing plant

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

This European Technical Assessment contains

16 pages including 6 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 040083-00-0404

This version replaces

ETA-06/0012 issued on 25 March 2016

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## Specific Part

### 1 Technical description of the product

This product is an External Thermal Insulation Composite System (ETICS) 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 additionally mechanically fixed onto a wall. The methods of fixing and the relevant components are specified in annex 1. The insulation product is faced with a rendering system consisting of one base coat and finishing coat (site applied), in which the base coat 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 ...) for connection to adjacent building elements (apertures, corners, parapets ...). Assessment and performance of these components are 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.

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

The performances in Section 3 can only be assumed if the ETICS is used in accordance with the specifications and under the boundary conditions specified in Annexes 2 to 5.

The verifications and assessment methods on which this 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.

For use, maintenance and repair, the finishing coat shall be maintained in order to fully preserve the ETICS performance. Maintenance includes at least:

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

Necessary repairs are to be carried out 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 known to the concerned people.

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

#### 3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire of the ETICS	(see annex 2) Class according to EN 13501-1
Reaction to fire of the EPS-insulation product – Apparent density of the EPS-insulation product according to EN 1602	(see annex 2) Class E according EN 13501-1 Value [kg/m <sup>3</sup> ]
Reaction to fire of the PU- foam adhesive	not applicable
Facade fire performance	no performance assessed
Propensity to undergo continuous smouldering of ETICS	not applicable

#### 3.2 Hygiene, health and environment (BWR 3)

Essential characteristic	Performance
<b>Release of dangerous substances</b>	no performance assessed
<b>Water absorption</b> Base coat after 1 hour after 24 hours	(see annex 3.1)  Mean value [kg/m <sup>2</sup> ] Mean value [kg/m <sup>2</sup> ]
<b>Rendering system</b> after 1 hour after 24 hours	  Mean value [kg/m <sup>2</sup> ] Mean value [kg/m <sup>2</sup> ]
EPS insulation after 24 hours	maximum value 0,5 kg/m <sup>2</sup>
<b>Water-tightness of the ETICS: Hygrothermal behaviour on the test wall</b>	Passed without defects
<b>Water-tightness of the ETICS: freeze/thaw behaviour</b>	The water absorption of the base coat as well as the rendering systems is less than 0.5 kg/m <sup>2</sup> after 24 hours for all configurations of the ETICS. The ETICS is so assessed as free/thaw resistant.
<b>Impact resistance</b>	no performance assessed
<b>Water vapour permeability</b> - Rendering system - EPS insulation	(see annex 3.2) s <sub>d</sub> value [m]  μ = 20 - 70 Thickness of the insulation product 400 [mm]

### 3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
<p><b>Bond strength</b> between base coat and EPS insulation</p> <p>between adhesive and substrate</p> <p>between adhesive and EPS insulation</p>	<p>(see annex 4.1)</p> <ul style="list-style-type: none"> <li>- Minimum value/Mean value value [kPa]: Initial state (28 d immersion)</li> <li>- Minimum value/Mean value value [kPa]: after hygrothermal cycles</li> </ul> <p>(see annex 4.2)</p> <ul style="list-style-type: none"> <li>- Thickness [mm] of the used adhesives</li> <li>- Minimum value/Mean value value [kPa], rupture type: Initial state (dry conditions)</li> <li>- Minimum value/Mean value value [kPa], rupture type: after 2 d immersion in water, 2 h drying</li> <li>- Minimum value/Mean value value [kPa], rupture type: after 2 d immersion in water, 7 d drying</li> </ul> <p>(see annex 4.3)</p> <ul style="list-style-type: none"> <li>- Thickness [mm] of the used adhesives</li> <li>- Minimum value [kPa]: Initial state (dry conditions)</li> <li>- Minimum value/Mean value value [kPa]: after 2 d immersion in water, 2 h drying</li> <li>- Minimum value/Mean value value [kPa]: after 2 d immersion in water, 7 d drying</li> </ul>
<b>Fixing strength (displacement test)</b>	Test not required therefore no limitation of ETICS length required
<p><b>Wind load resistance of ETICS</b> pull-through test of fixing static foam block test</p> <p>dynamic wind uplift test</p>	<p>(see annex 4.4)</p> <ul style="list-style-type: none"> <li>- <math>R_{\text{panel}}</math> [N/fixing],</li> <li>- <math>R_{\text{joint}}</math> [N/fixing],</li> <li>- Plate diameter of anchor <math>\geq 60</math> mm, <math>\geq 90</math> mm</li> <li>- plate stiffness <math>\geq 0.3</math> kN/mm<sup>2</sup></li> <li>- load resistance of the anchor plate <math>\geq 1.0</math> kN</li> </ul> <p>not applicable</p>
<p><b>Tensile strength perpendicular to the faces</b> in dry conditions standard EPS</p> <p>elastified EPS</p>	<p><math>\sigma_{\text{mt}} \geq 80</math> kPa (bonded ETICS)</p> <p><math>\sigma_{\text{mt}} \geq 100</math> kPa (bonded ETICS with anchors)</p> <p><math>\sigma_{\text{mt}} \geq 150</math> kPa (bonded ETICS with profiles)</p> <p><math>\sigma_{\text{mt}} \geq 80</math> kPa</p>
<p><b>Shear modulus of the ETCS</b> standard EPS</p> <p>elastified EPS</p>	<p><math>1,0 \leq G_m \leq 3,8</math> [MPa]</p> <p><math>0,3 \leq G_m \leq 1,0</math> [MPa]</p>
<b>Pull-through resistance of fixings from profiles</b>	$\geq 500$ N

Essential characteristic	Performance
Render strip tensile test	(see annex 4.5) crack width $w_{rk}$ [mm]
Bond strength after ageing	no performance assessed
Tensile strength of the glass fibre mesh in the as-delivered state	(see annex 4.6) Mean value value [N/mm <sup>2</sup> ]
Residual tensile strength of the glass fibre mesh after aging	(see annex 4.6) Mean value value [N/mm <sup>2</sup> ]
Relative residual tensile strength of the glass fibre mesh after aging	(see annex 4.6) Mean value value [%]
Elongation of the glass fibre mesh in the as-delivered state	(see annex 4.6) Mean value value [%]
Elongation of the glass fibre mesh after aging	(see annex 4.6) Mean value value [%]

#### 3.4 Protection against noise (BWR 5)

Essential characteristic	Performance
Airborne sound insulation of ETICS	no performance assessed
Dynamic stiffness of the EPS insulation product	no performance assessed
Air flow resistance of the EPS insulation product	no performance assessed

#### 3.5 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal resistance of ETICS	(see annex 5) Calculated value or measurement value R [(m <sup>2</sup> · K)/W]
thermal transmittance of ETICS	(see annex 5) Calculated value or measurement value U [W/(m <sup>2</sup> · K)]

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

In accordance with EAD No. 040083-00-0404 the applicable European legal act is 97/556/EC changed by 2001/596/EC

The systems to be applied are:

Product	Intended use	Levels or classes (Reaction to fire)	Systems
"weber.therm- Wärmedämm- Verbundsystem B 200/BM 400"	ETICS in external wall subject to fire regulations	A1 <sup>(1)</sup> , A2 <sup>(1)</sup> , B <sup>(1)</sup> , C <sup>(1)</sup>	1
		A1 <sup>(2)</sup> , A2 <sup>(2)</sup> , B <sup>(2)</sup> , C <sup>(2)</sup> , D, E, (A1 to E) <sup>(3)</sup> , F	2+
	ETICS in external wall not subject to fire regulations	any	2+
<p><sup>(1)</sup> 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><sup>(2)</sup> Products/materials not covered by footnote (1)</p> <p><sup>(3)</sup> 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 European Assessment Document

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 19 November 2025 by Deutsches Institut für Bautechnik

Dirk Brandenburger  
Abteilungsleiter

*beglaubigt:*  
Klette

## Annex 1

### Composition of the ETICS

	<b>Components</b> National application documents shall be taken into account	<b>Coverage</b> [kg/m <sup>2</sup> ]	<b>Thickness</b> [mm]
<b>Insulation material with associated method of fixing</b>	<b>Bonded ETICS:</b> <ul style="list-style-type: none"> <li>• <b>Insulation product</b> factory-prefabricated expanded polystyrene (EPS) <ul style="list-style-type: none"> <li>- standard EPS</li> <li>- elastified EPS</li> </ul> </li> <li>• <b>Adhesives</b> <ul style="list-style-type: none"> <li>- <b>weber.therm 303</b> (cement based powder requiring addition of about 20 % of water)</li> <li>- <b>weber.therm 370</b> (cement based powder requiring addition of about 20 % of water)</li> </ul> </li> </ul>	 – – 4.0 to 6.0 4.0 to 6.0	 ≤ 400 ≤ 300 – –
	<b>Mechanically fixed ETICS with profiles and supplementary adhesive:</b> <ul style="list-style-type: none"> <li>• <b>Insulation product</b> factory-prefabricated expanded polystyrene (EPS) <ul style="list-style-type: none"> <li>- standard EPS</li> </ul> </li> <li>• <b>Supplementary adhesive</b> (equal to bonded ETICS, Minimum bonded surface area is 20 %)</li> <li>• <b>Profiles</b> <ul style="list-style-type: none"> <li>- "PVC Halteleiste BM 400"</li> <li>- "PVC Verbindungsleiste BM 400"</li> </ul>                     Polyvinyl chloride (PVC) profiles </li> <li>• <b>Anchors for profiles</b> <ul style="list-style-type: none"> <li>- WS 8 L, WS 8 N</li> <li>- ejothem SDK U, ejothem NK U</li> <li>- SDF-K plus</li> </ul> </li> </ul>	–	60 to 200
	<b>Mechanically fixed ETICS with anchors and supplementary adhesive:</b> <ul style="list-style-type: none"> <li>• <b>Insulation product</b> factory-prefabricated expanded polystyrene (EPS) <ul style="list-style-type: none"> <li>- standard EPS</li> <li>- elastified EPS</li> </ul> </li> <li>• <b>Supplementary adhesive</b> (equal to bonded ETICS, Minimum bonded surface area is 40 %)</li> <li>• <b>Anchors for insulation product</b> all anchors with ETA according to EAD 330196-01-0604<sup>1</sup></li> </ul>	 – –	 60 to 400 60 to 300
<b>Base coat</b>	<b>weber.therm 303</b> (cement based powder requiring addition of about 25 % of water)	about 4.0	3.0 to 5.0
<b>Glass fibre mesh</b>	<b>weber.therm 311</b> Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 160 g/m <sup>2</sup> and mesh size of about 4.0 mm x 4.0 mm.	–	–

<sup>1</sup> EAD330196-01-0604

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

	<b>Components</b> National application documents shall be taken into account	<b>Coverage</b> [kg/m <sup>2</sup> ]	<b>Thickness</b> [mm]
<b>Key coat</b>	<b>weber.prim 403 standard</b> Ready to use pigmented styrol-acrylat dispersion liquid	ca. 0,3 l/m <sup>2</sup>	–
<b>Finishing coat</b>	<ul style="list-style-type: none"> <li>• Thin layered cement based powder requiring addition of about 20-35 % of water: <ul style="list-style-type: none"> <li><b>weber.star 222, 223*</b> (particle size 1.5 – 2 – 3 – 4 and 5 mm)</li> <li><b>weber.star 223 AquaBalance</b> (particle size 1.5 – 2 – 3 – 4 and 5 mm)</li> <li><b>weber.star 242, 243*</b> (particle size 1.5 – 2 – 3 – 4 and 5 mm)</li> <li><b>weber.star 261</b></li> </ul> </li> <li>• Ready to use pastes – Styrolacrylat-binder: <ul style="list-style-type: none"> <li><b>weber.pas 430, 431*</b> (particle size 1.5 – 2 – 3 and 4 mm)</li> <li><b>weber.pas 430 AquaBalance</b> (particle size 1.5 – 2 – 3 and 4 mm)</li> <li><b>weber.pas 431 AquaBalance</b> (particle size 1.5 – 2 – 3 and 4 mm)</li> </ul> </li> <li>• Ready to use pastes – <u>potassium silicate</u> binder: <ul style="list-style-type: none"> <li><b>weber.pas 460, 461*</b> (particle size 1 – 1.5 – 2 – 3 and 4 mm)</li> <li><b>weber.pas 460 AquaBalance</b> (particle size 1 – 1.5 – 2 – 3 and 4 mm)</li> <li><b>weber.pas 461 AquaBalance</b> (particle size 1 – 1.5 – 2 – 3 and 4 mm)</li> </ul> </li> <li>• Ready to use paste – <u>silicon resin</u> binder <ul style="list-style-type: none"> <li><b>weber.pas 480, 481*</b> (particle size 1.5 – 2 – 3 and 4 mm)</li> <li><b>weber.pas 480 AquaBalance</b> (particle size 1.5 – 2 – 3 and 4 mm)</li> <li><b>weber.pas 481 AquaBalance</b> (particle size 1.5 – 2 – 3 and 4 mm)</li> </ul> </li> </ul>	 2.5 to 5.0 2.5 to 5.0 2.5 to 5.0 3.0 to 5.0 2.5 to 4.0 2.5 to 4.0	 1.5 to 5.0 1.5 to 5.0 1.5 to 5.0 3.0 to 5.0 1.5 to 4.0 1.5 to 4.0 1.5 to 4.0 1.0 to 4.0 1.0 to 4.0 1.0 to 4.0 1.5 to 4.0 1.5 to 4.0 1.5 to 4.0
<b>Ancillary material</b>	Remains the responsibility of the manufacturer.		
* The Numbers indicate different structures of the finishing coats.			
** The instruction to the installer concerning the use of a key coat remains the responsibility of the ETA-holder.			

## Annex 2

### Safety in case of fire (BWR 2)

#### 2.1 Reaction to fire

Configurations	Organic content	Flame retardant content	Euroclass according to EN 13501-1
Base coat	max. 4.1 %	no flame retardant	
EPS	In quantity ensuring Class E according to EN 13501-1	In quantity ensuring Class E according to EN 13501-1	
Profile	-	-	
Anchors	-	-	
<b>Rendering system</b> Base coat with finishing coat and compatible key coat indicated in annex 1:			
weber.star 222, 223, 242, 244, 261 weber.star 223 AquaBalance	max. 2.6 %	no flame retardant	B - s1,d0
weber.pas 460, 461 weber.pas 460 AquaBalance weber.pas 461 AquaBalance	max. 6.9 %		
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 retardant	B - s2,d0

#### 2.2 Apparent density of the EPS-insulation product according to EN 1602

$$\rho_a \leq 30 \text{ kg/m}^3$$

### Annex 3

#### Hygiene, health and environment (BWR 3)

##### 3.1 Water absorption

Base coat	Thickness [mm]	Mean value water absorption [kg/m <sup>2</sup> ]	
		after 1 h	after 24 h
weber.therm 303	3	0.03	0.19

Rendering system Base coat "weber.therm 303" without key coat and with finishing coat indicated hereafter	Thickness [mm]	Mean value water absorption [kg/m <sup>2</sup> ]	
		after 1 h	after 24 h
weber.star 222, 223, 242, 244, 261	3	0.09	0.46
weber.star 223 AquaBalance	3	0.09	0.45
weber.pas 430, 431	3	0.03	0.45
weber.pas 430 AquaBalance	3	0.03	0.45
weber.pas 431 AquaBalance	3	0.03	0.45
weber.pas 460, 461	3	0.07	0.30
weber.pas 460 AquaBalance	3	0.07	0.30
weber.pas 461 AquaBalance	3	0.07	0.30
weber.pas 480, 481	3	0.07	0.28
weber.pas 480 AquaBalance	3	0.07	0.28
weber.pas 481 AquaBalance	3	0.07	0.28

##### 3.2 Water vapour permeability

Rendering system Base coat "weber.therm 303" without key coat and with finishing coat indicated hereafter	Equivalent air thickness $s_d$
weber.star 222, 223, 242, 244, 261 weber.star 223 AquaBalance	$\leq 1.0$ m (Test result obtained with "weber.star 222", particle size 5 mm: 0.2 m)
weber.pas 430, 431 weber.pas 430 AquaBalance weber.pas 431 AquaBalance	$\leq 1.0$ 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	$\leq 1.0$ 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	$\leq 1.0$ m (Test result obtained with "weber.pas 480", particle size 3 mm: 0.3 m)

## Annex 4

### Safety and accessibility in use (BWR 4)

#### 4.1 Bond strength between base coat and insulation product (EPS)

		Conditioning		
		Initial state [kPa]	2 d immersion in water and 2 h drying [kPa]	After freeze/thaw test
weber.therm 303	Mean value	124	122	Test not required because freeze/thaw cycles not necessary
	Minimum Value	113	106	

#### 4.2 Bond strength between adhesive and substrate

Substrate: Concrete		Rupture type	Conditioning		
			Initial state [kPa]	2 d immersion in water and 2 h drying [kPa]	7 d immersion in water and 7 d drying [kPa]
weber.therm 303	Mean value	in adhesive	1080	550	no performance assessed
	Minimum Value		890	490	
weber.therm 370	Mean value	in adhesive	1300	550	no performance assessed
	Minimum Value		1200	400	

#### 4.3 Bond strength between adhesive and insulation (EPS)

		Conditioning		
		Initial state [kPa]	2 d immersion in water and 2 h drying [kPa]	2 d immersion in water and 7 d drying [kPa]
weber.therm 303	Mean value	100	no performance assessed	
	Minimum Value	80		
weber.therm 370	Mean value	80	no performance assessed	
	Minimum Value	80		

#### Bonded surface

$$S [\%] = 0.03 \text{ N/mm}^2 \times 100 / 0.08 \text{ N/mm}^2$$

$$S = 37.5 \%$$

For bonded ETICS the calculated Minimum bonded surface area is 40 %.

English translation prepared by DIBt

#### 4.4 Wind load resistance

The following failure loads only apply to the listed combination of component characteristics and the characteristics of the insulation product.

##### 4.4.1 Safety in use of mechanically fixed ETICS using profiles

Characteristics of the EPS (standard EPS)	Dimensions	500 mm x 500 mm
	Thickness	≥ 60 mm
	<b>Tensile strength perpendicular to the faces</b>	<b>≥ 150 kPa</b>
	Shear modulus	≥ 1.0 N/mm <sup>2</sup>
Failure load [N / panel] (Static Foam Block Test)	Horizontal profiles fixed every 30 cm and 49.4 cm long vertical connection profiles	Minimum: 950 Mean value: 1010

##### 4.4.2 Safety in use of mechanically fixed ETICS using anchors

Apply to all anchors listed in annex 1 mounted on the insulation panels surface				
Characteristics of the EPS (standard EPS)	Thickness	≥ 60 mm		
	<b>Tensile strength perpendicular to the faces</b>	<b>≥ 100 kPa</b>		
	Shear modulus	≥ 1.0 N/mm <sup>2</sup>		
Plate diameter of anchor		∅ 60 mm	∅ 90 mm	
plate stiffness		≥ 0.3 kN/mm		
load resistance of the anchor plate		≥ 1.0 kN		
Failure load [N/anchor]	Anchors not placed at the panel joints (Static Foam Block Test)	R <sub>panel</sub>	Minimum: 510 Mean value: 520	Minimum: 720 Mean value: 730
	Anchors placed at the panel joints (Pull-through test)	R <sub>joint</sub>	Minimum: 400 Mean value: 430	Minimum: 430 Mean value: 470

Apply to all anchors listed in annex 1 mounted on the insulation panels surface				
Characteristics of the EPS (elastified EPS)	Thickness	≥ 60 mm		
	<b>Tensile strength perpendicular to the faces</b>	<b>≥ 80 kPa</b>		
	Shear modulus	≥ 0.3 N/mm <sup>2</sup>		
Plate diameter of anchor		∅ 60 mm		
plate stiffness		≥ 0.3 kN/mm		
load resistance of the anchor plate		≥ 1.0 kN		
Failure load [N/anchor]	Anchors not placed at the panel joints (Static Foam Block Test)	R <sub>panel</sub>	Minimum: 350 Mean value: 360	
	Anchors placed at the panel joints (Pull-through test)	R <sub>joint</sub>	Minimum: 300 Mean value: 310	

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	Conditions of installation*
ejotherm STR U (ETA-04/0023)	≥ 80 mm (for standard and elastified EPS)	– Maximum installation depth of the anchor plate: 15 mm ( $\triangleq$ thickness of insulation cover) – Incision depth: 20 mm
	≥ 100 mm (for standard and elastified EPS)	– Maximum installation depth of the anchor plate: 15 mm ( $\triangleq$ thickness of insulation cover) – Incision depth: 35 mm
* according to the appropriate ETA of anchor		

#### 4.5 Render strip tensile test

The Mean value value of crack width of the base coat reinforced with the glass fibre meshes measured at a render strain value of 1 % is:

Base coat	Glass fibre mesh	Mean value value of crack width $w_{m(1\%)}$
weber.therm 303	weber.therm 311	0.06 mm

#### 4.6 Reinforcement (glass fibre mesh)

"weber.therm 311"	Mean value warp	Mean value weft
Tensile strength in as-delivered state	44 N/mm	45 N/mm
Residual tensile strength after aging	22 N/mm	28 N/mm
Relative residual tensile strength after aging	≥ 50 %	≥ 50 %
Elongation in as-delivered state	3.9 %	3.5 %
Elongation after aging	2.0 %	2.1 %

## Annex 5

### Energy economy and heat retention (BWR 6)

#### 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 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  $0.02 \text{ (m}^2 \cdot \text{K)/W}$ .

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

The thermal bridges caused by mechanical fixing (anchors, profiles) increases the thermal transmittance  $U$ . This influence had to take into account according to EN ISO 6946.

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

Where:	$U_c$ :	corrected thermal transmittance [ $\text{W}/(\text{m}^2 \cdot \text{K})$ ]
	$n$ :	number of anchors per $\text{m}^2$
	$\chi_p$ :	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:
	$\chi_p = 0.004 \text{ W/K}$	for anchors with a galvanized steel screw with the head covered by a plastic material
	$\chi_p = 0.002 \text{ W/K}$	for anchors with a stainless steel screw covered by plastic anchors and for anchors with an air gap at the head of the screw

The thermal bridges caused by profiles are negligible.

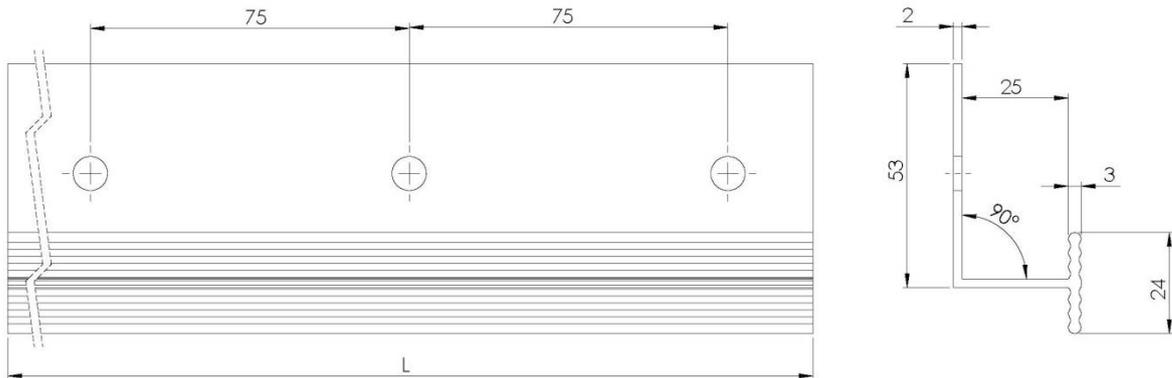
## Annex 6

### 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  $\geq 500$  N.

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



#### Vertical connection profile – "PVC Verbindungsleiste BM 400" (dimensions in millimetres)

