Deutsches Institut für Bautechnik

Public-law institution jointly founded by the federal states and the Federation

European Technical Assessment Body for construction products

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European Technical Assessment ETA-10/0249 of 24 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	"INTRATHERM EPS"
Product family to which the construction product belongs	External Thermal Insulation Composite Systems (ETICS) with renderings to be applied as external thermal insulation on the walls of buildings
Manufacturer	Baustoff + Metall GmbH Gorskistrasse 5-7 1230 WIEN ÖSTERREICH
Manufacturing plant	Baustoff + Metall GmbH Gorskistrasse 5-7 1230 WIEN ÖSTERREICH
This European Technical Assessment contains	20 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	040083-00-0404
This version replaces	ETA-10/0249 issued on 23 March 2017

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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 additional 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 "INTRATHERM EPS" 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/m³]
Facade fire performance	no performance assessed

3.2 Hygiene, health and environment (BWR 3)

Essential characteristic	Performance	
Release of dangerous substances	no performance assessed	
Water absorption Base coat after 1 hour after 24 hours Rendering system after 1 hour after 24 hours EPS insulation after 24 hours	(see annex 3.1) Mean value [kg/m²] Mean value [kg/m²] Mean value [kg/m²] Mean value [kg/m²] Maximum value 0,5 kg/m²	
Water-tightness of the ETICS: Hygrothermal behaviour on the test wall	Passed without defects	
Water-tightness of the ETICS: freeze/thaw behaviour	The water absorption of the base coats as well as the rendering systems is less than 0.5 kg/m² after 24 hours for all configurations of the ETICS. The ETICS is so assessed as free/thaw resistant.	
Impact resistance	(see annex 3.2) Category	
Water vapour permeability - Rendering system	(see annex 3.3) s_d value [m]	
- EPS insulation	μ = 20 - 70	Thickness of the insulation product 400 [mm]

3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Bond strength between base coat and EPS insulation	(see annex 4.1) - Minimum value/Mean value [kPa], rupture type: Initial state (28 d immersion) - Minimum value/Mean value [kPa], rupture type: after hygrothermal cycles
between adhesive and substrate	(see annex 4.2) - Thickness [mm] of the used adhesives - Minimum value/Mean value [kPa], rupture type: Initial state (dry conditions) - Minimum value/Mean value [kPa], rupture type: after 2 d immersion in water, 2 h drying - Minimum value/Mean value [kPa], rupture type: after 2 d immersion in water, 7 d drying
between adhesive and EPS insulation	(see annex 4.3) - Thickness [mm] of the used adhesives - Minimum value [kPa], rupture type: Initial state (dry conditions) - Minimum value/Mean value [kPa], rupture type: after 2 d immersion in water, 2 h drying - Minimum value/Mean value [kPa], rupture type: after 2 d immersion in water, 7 d drying
Fixing strength (displacement test)	Test not required therefore no limitation of ETICS length required
Wind load resistance of ETICS pull-through test of fixing static foam block test	(see annex 4.4) - R_{panel} [N/fixing], - R_{joint} [N/fixing], - Plate diameter of anchor ≥ 60 mm, ≥ 90 mm - plate stiffness ≥ 0.3 kN/mm² - load resistance of the anchor plate ≥ 1.0 kN
dynamic wind uplift test	not applicable
Tensile strength perpendicular to the faces in dry conditions standard EPS elastified EPS	 $\sigma_{mt} \geq 80$ kPa (bonded ETICS) $\sigma_{mt} \geq 100$ kPa (bonded ETICS with anchors) $\sigma_{mt} \geq 150$ kPa (bonded ETICS with profiles) $\sigma_{mt} \geq 80$ kPa (bonded or bonded ETICS with anchors)
Shear modulus of the ETCS standard EPS elastified EPS	 $1.0 \leq G_m \leq 3.8$ [MPa] $0.3 \leq G_m \leq 1.0$ [MPa]
Pull-through resistance of fixings from profiles	≥ 0.5 kN

Essential characteristic	Performance
Render strip tensile test	(see annex 4.5) crack width w_{rk} [mm]
Bond strength after ageing finishing coat tested on the rig finishing coat not tested on the rig	(see annex 4.6) Minimum value/Mean value [kPa], rupture type Minimum value/Mean value [kPa], rupture type
Tensile strength of the glass fibre mesh in the as-delivered state	(see annex 4.7) Mean value [N/mm]
Residual tensile strength of the glass fibre mesh after aging	(see annex 4.7) Mean value [N/mm]
Relative residual tensile strength of the glass fibre mesh after aging	(see annex 4.7) Mean value [%]
Elongation of the glass fibre mesh in the as-delivered state	(see annex 4.7) Mean value [%]
Elongation of the glass fibre mesh after aging	(see annex 4.7) Mean 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 [(m² ·K)/W]
thermal transmittance of ETICS	(see annex 5) Calculated value or measurement value U [W/(m² ·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
"INTRATHERM EPS"	ETICS 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+
	ETICS in external wall not subject to fire regulations	any	2+

(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)

(2) Products/materials not covered by footnote (1)

(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)

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 24 November 2025 by Deutsches Institut für Bautechnik

Anja Rogsch
Head of Section

beglaubigt:
Klette

Annex 1

Composition of the ETICS

	Components National application documents shall be taken into account	**Coverage [kg/m²]**	**Thickness [mm]**
Insulation material with associated method of fixing	**Bonded ETICS:** • **Insulation product** factory-prefabricated expanded polystyrene (EPS) - standard EPS - elastified EPS • **Adhesives** - **INTRATHERM Klebe- und Armierungsmörtel grau** (cement based powder requiring addition of about 25 % of water) - **INTRATHERM Klebe- und Armierungsmörtel weiß** (cement based powder requiring addition of about 25 % of water) - **INTRATHERM Klebe- und Armierungsmörtel MG II** (cement based powder requiring addition of about 25 % of water) - **INTRATHERM WDVS-Spachtel** (organic based ready to use paste)	 – – 4.0 to 6.0 4.0 to 6.0 4.0 to 6.0 (prepared) 3.0 to 4.0 (prepared)	 ≤ 400 ≤ 200 – – – –
	Mechanically fixed ETICS with profiles and supplementary adhesive: • **Insulation product** factory-prefabricated expanded polystyrene (EPS) - standard EPS • **Supplementary adhesive** (equal to bonded ETICS) • **Profiles** - "INTRATHERM Halteleiste PVC" and - "INTRATHERM Verbindungsleiste PVC" Polyvinyl chloride (PVC) profiles • **Anchors for profiles** - WS 8 L, WS 8 N - ejotherm SDK U, ejotherm NK U - SDF-K plus	 – 	 60 to 200
	Mechanically fixed ETICS with anchors and supplementary adhesive: • **Insulation product** factory-prefabricated expanded polystyrene (EPS) - standard EPS - elastified EPS • **Supplementary adhesive** (equal to bonded ETICS) • **Anchors for insulation product** all anchors with ETA according to EAD 330196-01-0604[1]	 – – 	 60 to 400 60 to 200
Base coat	**INTRATHERM Klebe- und Armierungsmörtel grau** **INTRATHERM Klebe- und Armierungsmörtel weiß** Identical with the equally named adhesives given above.	4.5 to 7.5 4.5 to 7.5	3.0 to 5.0 3.0 to 5.0

[1] EAD 330196-01-0604 Plastic anchors made of virgin or non-virgin material for fixing of external insulation composite systems with rendering

	Components National application documents shall be taken into account	**Coverage [kg/m²]**	**Thickness [mm]**
Glass fibre mesh	**Standard mesh: INTRATHERM Armierungsgewebe F** Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 160 g/m² and mesh size of about 4.0 mm x 4.0 mm	–	–
Key coat	**INTRATHERM Silikatverdünner** Ready to use pigmented liquid – silicate/acrilic binder	about 0.15 l/m²	–
	INTRATHERM Edelputz-Grundierung Ready to use pigmented liquid – acrilic binder For the compatibility with the finishing coats see below.	about 0.20 l/m²	–
Finishing coat	**To use with key coat "INTRATHERM Edelputz-Grundierung" if applicable:*** • Thick layered cement based powder requiring addition of about 22 % of water: **INTRATHERM Kratzputz Perfekt** (particle size 3 mm)	20.0 to 25.0	12.0 to 15.0
	• Thin layered cement based powder requiring addition of about 27 % of water: **INTRATHERM Münchner Rauhputz Super** (particle size 2 – 3 mm)	3.5 to 5.0	2.0 to 3.0
	INTRATHERM Scheibenputz (particle size 1.5 – 2 – 3 and 4 mm)	2.5 to 6.5	1.5 to 6.0
	INTRATHERM Marmorputz Premium (particle size 1 mm) (particle size 1.5 – 2 and 2,5 mm)	1.6 to 8.0 2.5 to 5.0	1.0 to 5.0 1.5 to 2.5
	• Thin layered cement based powder requiring addition of 36 to 40 % of water: **INTRATHERM Strukturalputz L** (Korngröße 1.5 – 2 bis 3 mm)	2.0 to 4.5	1.5 to 3.0
	• Ready to use paste – acrylic/vinylic binder: **INTRATHERM Kunstharzputz** (particle size 1.5 – 2 – 3 and 4 mm)	2.0 to 4.0	1.5 to 4.0
	• Ready to use paste – acrylic/vinylic/siloxane binder **INTRATHERM Silikonharzputz** (particle size 1.5 – 2 and 3 mm)	2.0 to 4.0	1.5 to 3.0
	INTRATHERM Siloxanputz (particle size 1.5 – 2 and 3 mm)	2.0 to 4.0	1.5 to 3.0
	To use with key coat "INTRATHERM Silikatverdünner" if applicable:* • Ready to use pastes – silicate/acrylic binder: **INTRATHERM Silikatputz** (particle size 1.5 – 2 and 3 mm)	2.0 to 3.8	1.5 to 3.0
Ancillary material	Remains the responsibility of the manufacturer.		

* The instruction to the installer concerning the use of a key coat remains the responsibility of the manufacturer.

Annex 2

Safety in case of fire (BWR 2)

2.1 Reaction to fire

Configurations	Organic content	Flame retardant content	Class according to EN 13501-1
Base coat	max. 2.1 %	no flame retardant	
EPS insulation product	In quanity ensuring Class E according to EN 13501-1	In quanity ensuring Class E according to EN 13501-1	
Profile	-	-	
Anchors	-	-	
rendering system: Base coat with finishing coat and compatible key coat indicated in annex 1:			
INTRATHERM Kratzputz Perfekt INTRATHERM Münchner Rauhputz Super INTRATHERM Scheibenputz INTRATHERM Marmorputz Premium INTRATHERM Strukturalputz L with INTRATHERM Edelputz-Grundierung	max. 1.2 %	no flame retardent	B - s1,do
INTRATHERM Kunstharzputz INTRATHERM Silikonharzputz INTRATHERM Siloxanputz with INTRATHERM Edelputz-Grundierung INTRATHERM Silikatputz with INTRATHERM Silikatverdünner	max. 7.5 %	min. 3 %	

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

$\rho_a \leq 30$ kg/m³

Annex 3

Hygiene, health and environment (BWR 3)

3.1 Water absorption

Base coat	Thickness [mm]	Mean value water absorption [kg/m²]	
		after 1 h	after 24 h
INTRATHERM Klebe- und Armierungsmörtel grau	5	0.02	0.19
INTRATHERM Klebe- und Armierungsmörtel weiß	5	0.01	0.14

Rendering system Base coats "INTRATHERM Klebe- und Armierungsmörtel grau" or "INTRATHERM Klebe- und Armierungsmörtel weiß" with finishing coat and key coat indicated hereafter	Thickness [mm]	Mean value water absorption [kg/m²]	
		after 1 h	after 24 h
INTRATHERM Kratzputz Perfekt with INTRATHERM Edelputz-Grundierung	10	0.07	0.21
INTRATHERM Münchner Rauhputz Super with INTRATHERM Edelputz-Grundierung	3	0.07	0.42
INTRATHERM Scheibenputz with INTRATHERM Edelputz-Grundierung	3	0.04	0.36
INTRATHERM Marmorputz Premium with INTRATHERM Edelputz-Grundierung	2.5	0.04	0.27
INTRATHERM Strukturalputz L with INTRATHERM Edelputz-Grundierung	3	0.06	0.44
INTRATHERM Kunstharzputz with INTRATHERM Edelputz-Grundierung	2	0.04	0.33
INTRATHERM Silikonharzputz with INTRATHERM Edelputz-Grundierung	2	0.01	0.17
INTRATHERM Siloxanputz with INTRATHERM Edelputz-Grundierung	2	0.05	0.34
INTRATHERM Silikatputz with INTRATHERM Silikatverdünner	2	0.02	0.30

3.2 Impact resistance

Rendering system: Base coats "INTRATHERM Klebe- und Armierungsmörtel grau" or "INTRATHERM Klebe- und Armierungsmörtel weiß" with finishing coat and key coat indicated hereafter	**Single-layered glass fibre mesh "INTRATHERM Armierungsgewebe F"**
INTRATHERM Kratzputz Perfekt with INTRATHERM Edelputz-Grundierung	Category II
INTRATHERM Münchner Rauhputz Super with INTRATHERM Edelputz-Grundierung	Category II
INTRATHERM Scheibenputz with INTRATHERM Edelputz-Grundierung	Category II
INTRATHERM Marmorputz Premium with INTRATHERM Edelputz-Grundierung	Category II
INTRATHERM Strukturalputz L with INTRATHERM Edelputz-Grundierung	Category II
INTRATHERM Kunstharzputz with INTRATHERM Edelputz-Grundierung	Category II
INTRATHERM Silikonharzputz with INTRATHERM Edelputz-Grundierung	Category II
INTRATHERM Siloxanputz with INTRATHERM Edelputz-Grundierung	Category II
INTRATHERM Silikatputz with INTRATHERM Silikatverdünner	Category II

3.3 Water vapour permeability

Rendering system Base coats "INTRATHERM Klebe- und Armierungsmörtel grau" with finishing coat and key coat indicated hereafter	**Equivalent air thickness s_d** (Result determined with a layer thickness of 5 mm for the base coat)
INTRATHERM Kratzputz Perfekt with INTRATHERM Edelputz-Grundierung	≤ 1.0 m (Test result obtained with particle size 3 mm: 0.1 m)
INTRATHERM Münchner Rauhputz Super with INTRATHERM Edelputz-Grundierung	≤ 1.0 m (Test result obtained with particle size 3 mm: 0.1 m)
INTRATHERM Scheibenputz with INTRATHERM Edelputz-Grundierung	≤ 1.0 m (Test result obtained with particle size 3 mm: 0.1 m)
INTRATHERM Marmorputz Premium with INTRATHERM Edelputz-Grundierung	≤ 1.0 m (Test result obtained with particle size 2.5 mm: 0.1 m)
INTRATHERM Strukturalputz L with INTRATHERM Edelputz-Grundierung	≤ 1.0 m (Test result obtained with particle size 3 mm: 0.1 m)
INTRATHERM Kunstharzputz with INTRATHERM Edelputz-Grundierung	≤ 1.0 m (Test result obtained with particle size 2 mm: 0.4 m)
INTRATHERM Silikonharzputz with INTRATHERM Edelputz-Grundierung	≤ 1.0 m (Test result obtained with particle size 2 mm: 0.2 m)
INTRATHERM Siloxanputz with INTRATHERM Edelputz-Grundierung	≤ 1.0 m (Test result obtained with particle size 2 mm: 0.2 m)
INTRATHERM Silikatputz with INTRATHERM Silikatverdünner	≤ 1.0 m (Test result obtained with particle size 2 mm: 0.1 m)

Rendering system Base coats "INTRATHERM Klebe- und Armierungsmörtel weiß" with finishing coat and key coat indicated hereafter	**Equivalent air thickness s_d** (Result determined with a layer thickness of 5 mm for the base coat)
INTRATHERM Münchner Rauhputz Super with INTRATHERM Edelputz-Grundierung	≤ 1.0 m (Test result obtained with particle size 3 mm: 0.3 m)
INTRATHERM Siloxanputz with INTRATHERM Edelputz-Grundierung	≤ 1.0 m (Test result obtained with particle size 2 mm: 0.1 m)

No performance determined for all other combinations.

Annex 4

Safety and accessibility in use (BWR 4)

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

		Rupture type	Conditioning		
			Initial state [kPa]	After hygro-thermal cycles [kPa]	After freeze/thaw test
INTRATHERM Klebe- und Armierungsmörtel grau	Mean value	insulation material	153	148	Test not required because freeze/thaw cycles not necessary
	Minimum value		148	120	
INTRATHERM Klebe- und Armierungsmörtel weiß	Mean value	insulation material	137	no performance assessed	
	Minimum value		127		

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]	2 d immersion in water and 7 d drying [kPa]
INTRATHERM Klebe- und Armierungsmörtel grau	Mean value	in adhesive	530	599	646
	Minimum value		437	536	520
INTRATHERM Klebe- und Armierungsmörtel weiß	Mean value	in adhesive	575	433	1029
	Minimum value		479	357	764
INTRATHERM WDVS-Spachtel	Mean value	in adhesive	535	83	790
	Minimum value		474	71	606
INTRATHERM Klebe- und Armierungsmörtel MG II	Mean value	in adhesive	373	178	1062
	Minimum value		326	163	978

4.3 Bond strength between adhesive and insulation (EPS)

		Rupture type	Conditioning		
			Initial state [kPa]	2 d immersion in water and 2 h drying [kPa]	2 d immersion in water and 7 d drying [kPa]
INTRATHERM Klebe- und Armierungsmörtel grau	Mean value	insulation material	153	72	128
	Minimum value		148	58	117
INTRATHERM Klebe- und Armierungsmörtel weiß	Mean value	insulation material	137	88	100
	Minimum value		127	71	87
INTRATHERM WDVS-Spachtel	Mean value	insulation material	145	58	128
	Minimum value		127	36	112
INTRATHERM Klebe- und Armierungsmörtel MG II	Mean value	insulation material	118	79	159
	Minimum value		102	71	153

Bonded surface:

S [%] = 0.03 N/mm² x 100 / 0.08 N/mm²

S = 37.5 %

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

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
	Tensile strength perpendicular to the faces	**≥ 150 kPa**
	Shear modulus	≥ 1.0 N/mm²
Failure loads [N / panel] (Static Foam Block Test)	Horizontal profiles fixed every 30 cm and 49.4 cm long vertical connection profiles	Minimal: 950 Mean value: 1010

4.4.2 Safety in use of mechanically fixed ETICS using anchors

Apply to all anchors listed in the annex 1 mounted on the insulation panels surface				
Characteristics of the EPS **(standard EPS)**	Thickness		≥ 60 mm	
	Tensile strength perpendicular to the faces		**≥ 100 kPa**	
	Shear modulus		≥ 1.0 N/mm²	
Plate diameter of anchor			∅ 60 mm	∅ 90 mm
Failure loads [N]	Anchors not placed at the panel joints (Static Foam Block Test)	R_{panel}	Minimal: 510 Mean value: 520	Minimal: 720 Mean value: 730
	Anchors placed at the panel joints (Pull-through test)	R_{joint}	Minimal: 400 Mean value: 430	Minimal: 430 Mean value: 470

Apply to all anchors listed in the annex 1 mounted on the insulation panels surface			
Characteristics of the EPS **(elastified EPS)**	Thickness		≥ 60 mm
	Tensile strength perpendicular to the faces		**≥ 80 kPa**
	Shear modulus		≥ 0.3 N/mm²
Plate diameter of anchor			∅ 60 mm
Failure loads [N]	Anchors not placed at the panel joints (Static Foam Block Test)	R_{panel}	Minimal: 350 Mean value:360
	Anchors placed at the panel joints (Pull-through test)	R_{joint}	Minimal: 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, ejotherm STR U 2G (ETA-04/0023)	≥ 80 mm (for standard and elastified EPS)	– Maximum installation depth of the anchor plate: 15 mm (≙ thickness of insulation cover) – Incision depth: 20 mm
	≥ 100 mm (for standard and elastified EPS)	– Maximum installation depth of the anchor plate: 15 mm (≙ thickness of insulation cover) – Incision depth: 35 mm
TERMOZ 8 SV (ETA-06/0180)	≥ 80 mm (for standard EPS only)	– Maximum installation depth of the anchor plate: 15 mm (≙ thickness of insulation cover)
* according to the appropriate ETA of anchor		

4.5 Render strip tensile test

The Mean 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 "INTRATHERM Klebe- und Armierungsmörtel grau" with glass fibre mesh indicated hereafter	**Mean value of crack width $w_{m(1\%)}$**
"INTRATHERM Armierungsgewebe F"	0.18 mm

For the base coat "INTRATHERM Klebe- und Armierungsmörtel weiß" was no performance assessed.

4.6 Bond strength after ageing

Rendering system Base coats "INTRATHERM Klebe- und Armierungsmörtel grau" with finishing coat indicated hereafter		**Rupture Type**	**after hygro-thermal cycles [kPa]**	**7 d immersion in water and 7 d drying [kPa]**
INTRATHERM Münchner Rauhputz Super with INTRATHERM Edelputz-Grundierung	Mean value	insulation material		112
	Minimum value			76
INTRATHERM Scheibenputz with INTRATHERM Edelputz-Grundierung	Mean value	insulation material	148	
	Minimum value		130	
INTRATHERM Marmorputz Premium with INTRATHERM Edelputz-Grundierung	Mean value	insulation material		103
	Minimum value			92
INTRATHERM Strukturalputz L with INTRATHERM Edelputz-Grundierung	Mean value	insulation material	146	
	Minimum value		130	
INTRATHERM Kratzputz Perfekt with INTRATHERM Edelputz-Grundierung	Mean value	insulation material	156	
	Minimum value		130	
INTRATHERM Silikonharzputz with INTRATHERM Edelputz-Grundierung	Mean value	insulation material		142
	Minimum value			122
INTRATHERM Siloxanputz with INTRATHERM Edelputz-Grundierung	Mean value	no performance assessed		
	Minimum value			
INTRATHERM Kunstharzputz with INTRATHERM Edelputz-Grundierung	Mean value	insulation material		129
	Minimum value			107
INTRATHERM Silikatputz with INTRATHERM Silikatverdünner	Mean value	insulation material	144	
	Minimum value		120	

4.7 Reinforcement (glass fibre mesh)

"INTRATHERM Armierungsgewebe F"	**Mean value warp**	**Mean value weft**
Tensile strength in as-delivered state	≥ 48 N/mm	≥ 50 N/mm
Residual tensile strength after aging	≥ 33 N/mm	≥ 38 N/mm
Relative residual tensile strength after aging	≥ 50 %	≥ 50 %
Elongation in as-delivered state	3.9 %	4.0 %
Elongation after aging	2.9 %	3.0 %

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 (m² ·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 [W/(m² ·K)]
	n:	number of anchors per m²
	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:
	χ_p = 0.004 W/K	for anchors with a galvanized steel screw with the head covered by a plastic material
	χ_p = 0.002 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.

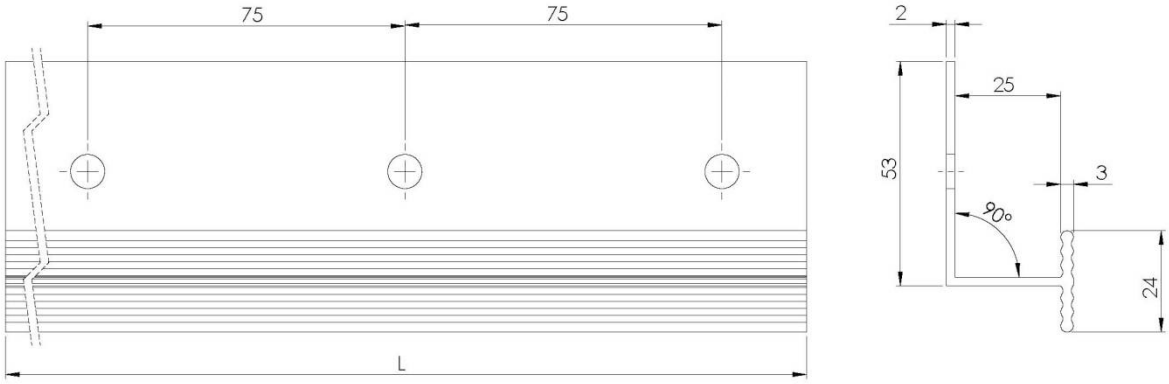
Annex 6

Profiles

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

The Pull-through resistance of fixings from profiles is ≥ 0.5 kN.

Horizontal profile – "INTRATHERM Halteleiste PVC" (dimensions in millimetres)



Vertical connection profile – "INTRATHERM Verbindungsleiste PVC"
(dimensions in millimetres)