Deutsches Institut für Bautechnik

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European Technical Assessment Body for construction products

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European Technical Assessment ETA-09/0284 of 19 November 2025

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General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	Knauf WARM-WAND System EPS/SM700
Product family to which the construction product belongs	Product area code:4 External Thermal Insulation Composite System with rendering on expanded polystyrene for use on building walls
Manufacturer	Knauf Gips KG Am Bahnhof 7 97346 Iphofen DEUTSCHLAND
Manufacturing plant	Knauf Gips KG Am Bahnhof 7 97346 Iphofen DEUTSCHLAND
This European Technical Assessment contains	19 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-09/0284 issued on 21 June 2018

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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 "Knauf WARM-WAND System EPS/SM700" 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]
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	
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) Average [kg/m²] Average [kg/m²] Average [kg/m²] Average [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 after 24 hours less than 0.5 kg/m² 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] (see annex 3)	
- 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) - Minimal value/average value [kPa], rupture type: Initial state (28 d immersion) - Minimal value/average value [kPa], rupture type: after hygrothermal cycles
between adhesive and substrate	(see annex 4.2) - Thickness [mm] of the used adhesives - Minimal value/average value [kPa], rupture type: Initial state (dry conditions) - Minimal value/average value [kPa], rupture type: after 2 d immersion in water, 2 h drying - Minimal value/average 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 - Minimal value [kPa], rupture type: Initial state (dry conditions) - Minimal value/average value [kPa], rupture type: after 2 d immersion in water, 2 h drying - Minimal value/average 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} [kN/fixing], - R_{joint} [kN/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
Shear strength of the ETICS	$20 \leq f_{\tau k} \leq 170$ [kPa]
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]

Essential characteristic	Performance
Pull-through resistance of fixings from profiles	≥ 0,5 kN
Render strip tensile test	(see annex 4.5) crack width w_{rk} [mm]
Bond strength after ageing finishing coat not tested on the rig	(see annex 4.6) Minimal value/average value[kPa], rupture type
Tensile strength of the glass fibre mesh in the as-delivered state	(see annex 4.7)
Residual tensile strength of the glass fibre mesh after aging	(see annex 4.7)
Relative residual tensile strength of the glass fibre mesh after aging	(see annex 4.7)
Elongation of the glass fibre mesh in the as-delivered state	(see annex 4.7)
Elongation of the glass fibre mesh after aging	(see annex 4.7)

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
"Knauf WARM-WAND System EPS/SM700"	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 19 November 2025 by Deutsches Institut für Bautechnik

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beglaubigt:
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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** - **SM700** (cement based powder requiring addition of about 25 % of water) - **SM700 Pro** (cement based powder requiring addition of about 25 % of water) - **Duo-Kleber** (cement based powder requiring addition of about 25 % of water) - **Sockel SM** (cement based powder requiring addition of about 25 % of water)	 – – 3.0 to 5.0 3.0 to 5.0 3.0 to 5.0 3.0 to 5.0	 ≤ 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** - "Knauf Halteleiste PVC" - "Knauf Verbindungsleiste PVC" Polyvinyl chloride (PVC) profiles • **Anchors for profiles** - WS 8 L - 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	**SM700** **SM700 Pro** Identical with the equally named adhesives given above.	7.0 to 14.0 7.0 to 14.0	5.0 to 10.0 5.0 to 10.0

[1] EAD330196-01-0604 Plastic anchors for fixing of external thermal insulation composite systems with rendering

	Components National application documents shall be taken into account	**Coverage [kg/m²]**	**Thickness [mm]**
Glass fibre mesh	**Armiergewebe 5x5 mm** Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 205 g/m² and mesh size of about 5.0 mm x 5.0 mm.	–	–
	Armiergewebe 4x4 mm 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.	–	–
Finishing coat	• Thick layered cement based powder requiring addition of about 25 – 30 % of water:		
	Mak 3	11.0 to 13.0	7.0 to 10.0
	• Thin layered cement based powder requiring addition of about 25 – 30 % of water:		
	Noblo (particle size 1.5 bis 2.0 and 3.0 mm)	2.3 to 3.7	1.5 to 3.0
	Noblo Filz 1.0 (particle size 1.0 mm)	1.6 to 8.0	1.0 to 5.0
	Noblo Filz 1.5 (particle size 1.5 mm)	2.2 to 7.5	1.5 to 5.0
	SP260 Pro (particle size 2.0 and 3.0)	3.2 to 5.0	2.0 to 3.0
	RP240 (particle size 2.0 and 3.0 mm)	3.1 to 5.0	2.0 to 5.0
	• Ready to use pastes – vinylic/siloxane binder:		
	Conni S (particle size 1.5 to 2.0 and 3.0 mm)	2.2 to 3.7	1.5 to 3.0
	• Ready to use pastes – styrene/acrylic binder:		
	Addi S (particle size 1.5 to 2.0 and 3.0 mm)	2.2 to 3.2	1.5 to 3.0
Ancillary material	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. 3.3 %	no flame retardant	
EPS-insulation product	Class E according to EN 13501-1	Class E according to EN 13501-1	
profiles	–	–	
anchors	–	–	
rendering system: Base coats with finishing coat indicated in clause 1.2:			
Mak 3	max. 2.7 %	no flame retardant	B - s1,d0
Noblo			
Noblo Filz 1.0			
Noblo Filz 1.5			
SP260 Pro			
RP240			
Conni S	max. 8.4 %	min. 2,0 %	B - s2,d0
Addi S			

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
SM700	6 – 7	0.093	0.329
SM700 Pro	6 – 7	0.033	0.368

Rendering system Base coats "SM700" and "SM700 Pro" with finishing coat indicated hereafter	Thickness [mm]	Mean value water absorption [kg/m²]	
		after 1 h	after 24 h
Noblo	3	0.048	0.464
Noblo Filz 1.0	2	0.046	0.382
Noblo Filz 1.5	3	0.046	0.366
SP260 Pro	no performance assessed		
RP240	5	0.136	0.408
Mak 3	10	0.123	0.328
Conni S	3	0.018	0.291
Addi S	3	0.032	0.340

3.2 Impact resistance

Rendering system Base coats "SM700" and "SM700 Pro" with finishing coat indicated hereafter	Single standard mesh "Armiergewebe 5x5mm"
Noblo	Category II
Noblo Filz 1.0	no performance assessed
Noblo Filz 1.5	no performance assessed
SP260 Pro	Category II
RP240	Category II
Mak 3	Category II
Conni S	Category I
Addi S	Category II

3.3 Water vapour permeability

Rendering system Base coats "SM700" and "SM700 Pro" with finishing coat indicated hereafter	**Equivalent air thickness s_d** (Result determined with a layer thickness of 6-7 mm for the base coat)
Noblo	≤ 1.0 m (Test result obtained with particle size 3 mm: 0.1 m)
Noblo Filz 1.0	≤ 1.0 m (Test result obtained with a layer thickness 9 mm: 0.14 m)
Noblo Filz 1.5	≤ 1.0 m (Test result obtained with a layer thickness 10 mm: 0.09 m)
SP260 Pro	≤ 1.0 m (Test result obtained with particle size 5 mm: 0.1 m)
RP240	≤ 1.0 m (Test result obtained with particle size 5 mm: 0.1 m)
Mak 3	≤ 1.0 m (Test result obtained with thickness 12 mm: 0.3 m)
Conni S	≤ 1.0 m (Test result obtained with a layer thickness 3 mm: 0.21 m)
Addi S	≤ 1.0 m (Test result obtained with a layer thickness 3 mm: 0.20 m)

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 7 d immersion in water [kPa]	after freeze/thaw test
SM700	Mean value	insulation product	140	106	Test not required because freeze/thaw cycles not necessary
	Minimum value		118	75	
SM700 Pro	Mean value	insulation product	160	100	
	Minimum value		149	97	

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]
SM700	Mean value	in adhesive	540	230	420
	Minimum value		500	200	350
SM700 Pro	Mean value	in adhesive	1320	890	1340
	Minimum value		1243	817	1195
Duo-Kleber	Mean value	in adhesive	1615	1319	1634
	Minimum value		1431	1229	1476
Sockel SM	Mean value	in adhesive	2158	1663	2211
	Minimum value		2052	1478	2005

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]
SM700	Mean value	insulation product	140	80	80
	Minimum value		118	71	76*
SM700 Pro	Mean value	insulation product	160	60	100
	Minimum value		149	52	97
Duo-Kleber	Mean value	insulation product	187	no performance assessed	
	Minimum value		173		
Sockel SM	Mean value	insulation product	154	149	129
	Minimum value		143	135	108

* ≤ 80 kPa but failure in the insulation product

Minimal bonded surface

S [%] = 0.03 N/mm² x 100 / 0.08 N/mm²

S = 37.5 %

The calculated minimum bonded surface area is 40 % for bonded ETICS.

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 load [kN / panel] (Static Foam Block Test)	Horizontal profiles fixed every 30 cm and 49.4 cm long vertical connection profiles	Minimum: 0.095 Mean value: 0.101

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	
	Tensile strength perpendicular to the faces		**≥ 100 kPa**	
	Shear modulus		≥ 1.0 N/mm²	
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 [kN/anchor]	Anchors not placed at the panel joints (Static Foam Block Test)	R_{panel}	Minimum: 0.51 Mean value: 0.52	Minimum: 0.72 Mean value: 0.73
	Anchors placed at the panel joints (Pull-through test)	R_{joint}	Minimum: 0.40 Mean value: 0.43	Minimum: 0.43 Mean value: 0.47

Apply to all anchors listed in annex 1 mounted on the insulation panels surface			
Characteristics of the EPS **(elastified EPS)**	Thickness		≥ 80 mm
	Tensile strength perpendicular to the faces		**≥ 80 kPa**
	Shear modulus		≥ 0.4 N/mm²
Plate diameter of anchor			∅ 60 mm
plate stiffness			≥ 0.3 kN/mm
load resistance of the anchor plate			≥ 1.0 kN
Failure load [kN/anchor]	Anchors not placed at the panel joints (Static Foam Block Test)	R_{panel}	Minimum: 0.45 Mean value: 0.47
	Anchors placed at the panel joints (Pull-through test)	R_{joint}	Minimum: 0.31 Mean value: 0.32

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 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
fischer TermoZ CS II 8, fischer TermoZ CS II 8 DT 110 V (ETA-14/0372)	≥ 80 mm (for standard and elastified EPS)	– Maximum installation depth of the anchor plate: 15 mm (≙ thickness of insulation cover) – Incision depth: 20 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 "SM700" with glass fibre mesh indicated hereafter	**Mean value value of crack width $w_{m(1\%)}$**
"Armiergewebe 5 x 5 mm"	0,1 mm

For all other combinations no performance assessed for the width of cracks.

4.6 Bond strength after ageing

Rendering system Base coats "SM700" and "SM700 Pro" with finishing coat indicated hereafter		**Rupture type**	**After hygrothermal cycles [kPa]**	**7 d immersion in water and 7 d drying [kPa]**
Noblo	Mean value	insulation product		112
	Minimum value			107
Noblo Filz 1.0	Mean value	insulation product		110
	Minimum value			103
Noblo Filz 1.5	Mean value	insulation product		118
	Minimum value			107
SP260	Mean value	insulation product		111
	Minimum value			106
RP240	Mean value	insulation product	120	109
	Minimum value		100	102
Conni S	Mean value	insulation product	120	152
	Minimum value		100	149
Addi S	Mean value	insulation product	110	154
	Minimum value		80	141
Mak 3	Mean value	insulation product	no performance assessed	
	Minimum value			

4.7 Reinforcement (glass fibre mesh)

"Armiergewebe 4x4 mm"	**Mean value warp**	**Mean value weft**
Tensile strength in as-delivered state	≥ 43 N/mm	≥ 45 N/mm
Residual tensile strength after aging	≥ 26 N/mm	≥ 29 N/mm
Relative residual tensile strength after aging	≥ 50 %	≥ 50 %
Elongation in as-delivered state	3.6 %	3.9 %
Elongation after aging	2.3 %	2.3 %

"Armiergewebe 5x5 mm"	**Mean value warp**	**Mean value weft**
Tensile strength in as-delivered state	≥ 52 N/mm	≥ 49 N/mm
Residual tensile strength after aging	≥ 31 N/mm	≥ 32 N/mm
Relative residual tensile strength after aging	≥ 50 **%**	≥ 50 **%**
Elongation in as-delivered state	4.1 %	3.8 %
Elongation after aging	2.3 %	2.3 %

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.

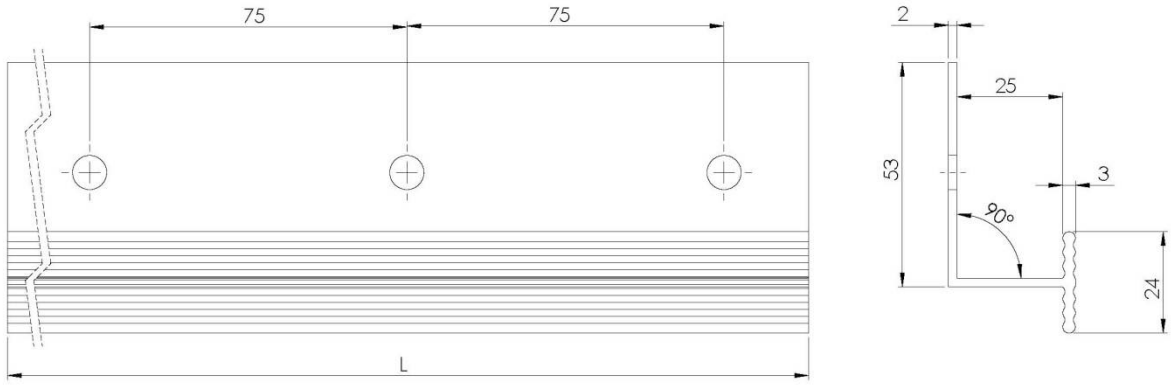
Annex 6

Profiles

Polyvinyl chloride (PVC) profiles, PVC-U, EGL, 082-05-T33 to EN ISO 1163-1:1999 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 – "Halteleiste PVC" (dimensions in millimetres)



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