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European Technical Assessment

ETA-09/0261
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

SCHWEPA-VWS-System 2

Product family
to which the construction product belongs

Product Area Code: 4

External Thermal Insulation Composite System with rendering for the use as external insulation of building walls

Manufacturer

Schwarzwälder Edelputzwerk GmbH
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DEUTSCHLAND

Manufacturing plant

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This European Technical Assessment contains

17 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

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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 "SCHWEPA-VWS-System 2" 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 ³]
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	(see annex 3.1) Mean value [kg/m ²] Mean value [kg/m ²]
Rendering system after 1 hour after 24 hours	 Mean value [kg/m ²] Mean value [kg/m ²]
EPS insulation after 24 hours	Maximum value 0.5 kg/m ²
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/m ² after 24 hours for all configurations of the ETICS. The ETICS is so assessed as freeze/thaw resistant.
Impact resistance	(see annex 3.2) Category
Water vapour permeability - Rendering system - EPS insulation	(see annex 3.3) s _d 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>Bond strength 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"> - Minimum value/Mean value [kPa], rupture type: Initial state (28 d immersion) - Minimum value/Mean value [kPa], rupture type: after hygrothermal cycles <p>(see annex 4.2)</p> <ul style="list-style-type: none"> - 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 <p>(see annex 4.3)</p> <ul style="list-style-type: none"> - 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
<p>Wind load resistance of ETICS 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"> - 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 <p>not applicable</p>
<p>Tensile strength perpendicular to the faces in dry conditions standard EPS</p> <p>elastified EPS</p>	<p>$\sigma_{\text{mt}} \geq 80$ kPa (bonded ETICS)</p> <p>$\sigma_{\text{mt}} \geq 100$ kPa (bonded ETICS with anchors)</p> <p>$\sigma_{\text{mt}} \geq 150$ kPa (bonded ETICS with profiles)</p> <p>$\sigma_{\text{mt}} \geq 80$ kPa (bonded or bonded ETICS with anchors)</p>
<p>Shear modulus of the ETCS standard EPS elastified EPS</p>	<p>$1.0 \leq G_m \leq 3.8$ MPa</p> <p>$0.3 \leq G_m \leq 1.0$ MPa</p>
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	(see annex 4.6) Minimum value/ Mean 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 [$(m^2 \cdot K)/W$]
thermal transmittance of ETICS	(see annex 5) Calculated value or measurement value U [$W/(m^2 \cdot K)$]

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
"SCHWEPA-VWS-System 2"	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:
Klette

Annex 1

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 factory-prefabricated expanded polystyrene (EPS) <ul style="list-style-type: none"> - standard EPS - elastified EPS • Adhesives <ul style="list-style-type: none"> - SCHWEPA Klebe- und Armierungsmörtel grau (cement based powder requiring addition of about 25 % of water) - SCHWEPA Klebe- und Armierungsmörtel weiß (cement based powder requiring addition of about 25 % of water) - SCHWEPA Klebe- und Armierungsmörtel MG II (cement based powder requiring addition of about 25 % of water) - SCHWEPA WDVS-Spachtel (organic based ready to use paste) 	 – – 4.0 to 6.0 4.0 to 6.0 4.0 to 6.0 3.0 to 4.0	 ≤ 400 ≤ 200 – – – –
	Mechanically fixed ETICS with profiles and supplementary adhesive: <ul style="list-style-type: none"> • Insulation product factory-prefabricated expanded polystyrene (EPS) <ul style="list-style-type: none"> - standard EPS • Supplementary adhesive (equal to bonded ETICS) • Profiles <ul style="list-style-type: none"> - "SCHWEPA Halteleisten PVC" and - "SCHWEPA Verbindungsleisten PVC" Polyvinyl chloride (PVC) profiles • Anchors for profiles <ul style="list-style-type: none"> - WS 8 L, WS 8 N - ejothem SDK U, ejothem NK U - SDF-K plus 	 –	 60 to 200
	Mechanically fixed ETICS with anchors and supplementary adhesive: <ul style="list-style-type: none"> • Insulation product factory-prefabricated expanded polystyrene (EPS) <ul style="list-style-type: none"> - standard EPS - elastified EPS • Supplementary adhesive (equal to bonded ETICS) • Anchors for insulation product all anchors with ETA according to EAD330196-00-0604¹ 	 – –	 60 to 400 60 to 200

¹ EAD330196-00-0604

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]
Base coat	SCHWEPA WDVS-Spachtel Ready to use paste (cement free) consisting of an acrylic/vinylic binder in watery dispersion. Identical with the equally named adhesives given above.	3.0 to 4.0	2.5 to 3.5
Glass fibre mesh	SCHWEPA Armierungsgewebe F 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.	–	–
Key coat	SCHWEPA ARU-200 Super Ready to use pigmented liquid – acrylic binder. For the compatibility with the finishing coats see below.	ca. 0,200 l/m ²	–
Finishing coat	To use with key coat "SCHWEPA ARU-200 Super" if applicable*: <ul style="list-style-type: none"> • Ready to use paste – acrylic/vinylic binder: SCHWEPA Kunstharzputz (particle size 1.5 – 2 – 3 and 4 mm) • Ready to use pastes – acrylic/vinylic/siloxane binder: SCHWEPA Silikonharzputz (particle size 1.5 – 2 and 3 mm) SCHWEPA Siloxanputz (particle size 1.5 – 2 and 3 mm) 	2.0 to 4.5 2.0 to 4.0 2.0 to 4.0	1.5 to 4.0 1.5 to 3.0 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

2.1 Safety in case of fire (BWR 2)

Reaction to fire

Configurations	Organic content	Flame retardant content	Class according to EN 13501-1
Base coat	max. 9.5 9.2 %	no flame retardant	
EPS insulation product	in quantity ensuring Class E according to EN 13501-1	in quantity ensuring Class E according to EN 13501-1	
Profile	-	-	
Anchors	-	-	
rendering system : Base coat with finishing coat and compatible key coat indicated in clause 1.2:			
SCHWEPA Kunstharzputz (>1.5 mm < d ≤ 4 mm) with SCHWEPA ARU-200 Super	max. 7.5 %	min. 4.0 %	B – s2,d0
SCHWEPA Silikonharzputz (>1.5 mm < d ≤ 3 mm) with SCHWEPA ARU-200 Super			
SCHWEPA Siloxanputz (>1.5 mm < d ≤ 3 mm) with SCHWEPA ARU-200 Super			
SCHWEPA Kunstharzputz (d = 1.5 mm) with SCHWEPA ARU-200 Super			B – s1,do
SCHWEPA Silikonharzputz (d = 1.5 mm) with SCHWEPA ARU-200 Super			
SCHWEPA Siloxanputz (d = 1.5 mm) with SCHWEPA ARU-200 Super			

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 ²]	
		after 1h	after 1h
SCHWEPA WDVS-Spachtel	3	0.01	0.08

Rendering system Base coats "SCHWEPA WDVS-Spachtel" with finishing coat and compatible key coat indicated hereafter	Thickness [mm]	Mean value water absorption [kg/m ²]	
		after 1h	after 1h
SCHWEPA Kunstharzputz with SCHWEPA ARU-200 Super	2	0.04	0.23
SCHWEPA Silikonharzputz with SCHWEPA ARU-200 Super	2	0.03	0.33
SCHWEPA Siloxanputz with SCHWEPA ARU-200 Super	2	0.06	0.35

3.2 Impact resistance

Rendering system Base coats "SCHWEPA WDVS-Spachtel" with finishing coat and compatible key coat indicated hereafter	Single-layered glass fibre mesh "SCHWEPA Armierungsgewebe F"
SCHWEPA Kunstharzputz with SCHWEPA ARU-200 Super	Category II
SCHWEPA Silikonharzputz with SCHWEPA ARU-200 Super	Category II
SCHWEPA Siloxanputz with SCHWEPA ARU-200 Super	Category II

3.3 Water vapour permeability

Rendering system Base coats "SCHWEPA WDVS-Spachtel" with finishing coat and compatible key coat indicated hereafter	Equivalent air thickness s_d (Result determined with a layer thickness of 3 mm for the base coat)
SCHWEPA Kunstharzputz with SCHWEPA ARU-200 Super	≤ 1.0 m (Test result obtained with particle size 2 mm: 0.6 m)
SCHWEPA Silikonharzputz with SCHWEPA ARU-200 Super	≤ 1.0 m (Test result obtained with particle size 2 mm: 0.6 m)
SCHWEPA Siloxanputz with SCHWEPA ARU-200 Super	≤ 1.0 m (Test result obtained with particle size 2 mm: 0.6 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 hygro-thermal cycles [kPa]	After freeze/thaw test
SCHWEPA WDVS-Spachtel	Mean value	insulation material	145	138	Test not required because freeze/thaw cycles not necessary
	Minimum value		127	120	

4.2 Bond strength between adhesive and substrate

Substrate: Concrete		Rupture type	Thick-ness [mm]	Konditionierung		
				Initial state [kPa]	2 d immersion in water and 2 h drying [kPa]	2 d immersion in water and 7 d drying [kPa]
SCHWEPA Klebe- und Armierungsmörtel grau	Mean value	in adhesive	5	530	599	646
	Minimum value			437	536	520
SCHWEPA Klebe- und Armierungsmörtel weiß	Mean value	in adhesive	5	575	433	1029
	Minimum value			479	357	764
SCHWEPA WDVS-Spachtel	Mean value	in adhesive	3	535	83	790
	Minimum value			474	71	606
SCHWEPA Klebe- und Armierungsmörtel MG II	Mean value	in adhesive	10	373	178	1062
	Minimum value			326	163	978

4.3 Bond strength between adhesive and insulation (EPS)

		Rupture type	Thick-ness [mm]	Konditionierung		
				Initial state [kPa]	2 d immersion in water and 2 h drying [kPa]	2 d immersion in water and 7 d drying [kPa]
SCHWEPA Klebe- und Armierungsmörtel grau	Mean value	insulation material	5	153	72	128
	Minimum value			148	58	117
SCHWEPA Klebe- und Armierungsmörtel weiß	Mean value	insulation material	5	137	88	100
	Minimum value			127	71	87
SCHWEPA WDVS-Spachtel	Mean value	insulation material	3	145	58	128
	Minimum value			127	36	112
SCHWEPA Klebe- und Armierungsmörtel MG II	Mean value	insulation material	10	118	79	159
	Minimum value			102	71	153

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 value 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/mm ²
Failure loads [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 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/mm ²	
Plate diameter of anchor			∅ 60 mm	∅ 90 mm
Failure loads [N]	Anchors not placed at the panel joints (Static Foam Block Test)	R _{panel}	Minimum: 510 Mean value: 520	Minimum: 720 Mean value: 730
	Anchors placed at the panel joints (Pull-through test)	R _{joint}	Minimum: 400 Mean value: 430	Minimum: 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/mm ²	
Plate diameter of anchor			∅ 60 mm	
Failure loads [N]	Anchors not placed at the panel joints (Static Foam Block Test)	R _{panel}	Minimum: 350 Mean value: 360	
	Anchors placed at the panel joints (Pull-through test)	R _{joint}	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 *
ejothem STR U, ejothem STR U 2G (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
TERMOZ 8 SV (ETA-06/0180)	≥ 80 mm (for standard EPS only)	– Maximum installation depth of the anchor plate: 15 mm (\triangleq thickness of insulation cover)

* according to the appropriate ETA of anchor

4.5 Render strip tensile test

No cracks occurred during the render strip tensile test of the base coat "SCHWEPA WDVS-Spachtel" reinforced with the glass fibre mesh "SCHWEPA Armierungsgewebe F" at a render strain value of 1 %.

4.6 Bond strength after ageing

Rendering system Base coats "SCHWEPA WDVS-Spachtel" with finishing coat and compatible key coat indicated hereafter		Rupture Type	after hygrothermal cycles [kPa]
SCHWEPA Kunstharzputz with SCHWEPA ARU-200 Super	Mean value	insulation material	148
	Minimum value		120
SCHWEPA Silikonharzputz with SCHWEPA ARU-200 Super	Mean value	insulation material	148
	Minimum value		130
SCHWEPA Siloxanputz with SCHWEPA ARU-200 Super	Mean value	insulation material	152
	Minimum value		120

4.7 Reinforcement (glass fibre mesh)

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

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

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 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:
$\chi_p = 0.004 \text{ W/K}$	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.

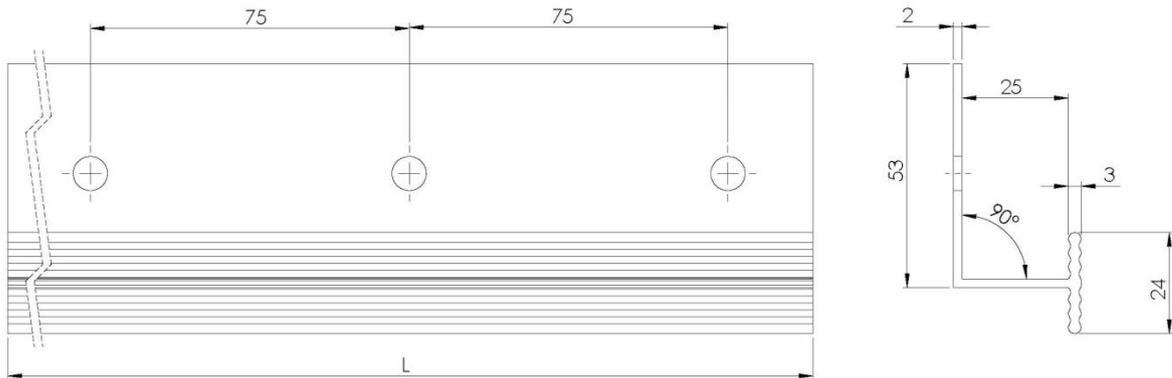
Annex 6

Profiles

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

The Pull-through resistance of fixings from profiles is $\geq 0,5$ kN.

Horizontal profile – "SCHWEPA Halteleiste PVC" (dimensions in millimetre)



Vertical connection profile – "SCHWEPA Verbindungsleiste PVC" (dimensions in millimetre)

