



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-06/0107 of 7 March 2024

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	StoTherm Vario 4
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	Sto SE & Co. KGaA Ehrenbachstraße 1 79780 Stühlingen DEUTSCHLAND
Manufacturing plant	Sto SE & Co. KGaA Ehrenbachstraße 1 79780 Stühlingen DEUTSCHLAND
This European Technical Assessment contains	30 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-06/0107 issued on 31 January 2022



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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 6.

The verifications and assessment methods on which this ETA is based lead to the assumption of a working life of the ETICS "StoTherm Vario 4" 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 normally 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.



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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) Euroclass 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) Euroclass 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	(see annex 3.1) Average [kg/m²] Average [kg/m²]		
Rendering system after 1 hour after 24 hours MW insulation product after 24 hours	Average [kg/m²] Average [kg/m²] maximum value 0.5 kg/m²		
Water-tightness of the ETICS: Hygrothermal behaviour on the test wall	Pass without defects		
Water-tightness of the ETICS: Freeze/thaw behaviour	As the water absorption of the base coat as well as the rendering system with all finishing coats except "StoSil" and "StoMiral EKP (Edelkratzputz)" is less than 0.5 kg/m ² after 24 hours. The ETICS with the finishing coats "StoSil" and "StoMiral EKP (Edelkratzputz)" has been assessed as freeze/thaw resistant according to the simulated method.		
Impact resistance	(see annex 3.2) Category		
Water vapour permeability - Rendering system	(see annex 3.3) s _d value [m]		
- EPS insulation product	μ = 20 - 70 Thickness of the insulation product 400 mm		



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3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance	
Bond strength between base coat and EPS-insulation product	(see annex 4.1) - Minimal value/average [kPa], - Minimal value/average [kPa],	
between adhesive and substrate	 (see annex 4.2) Thickness [mm] of the used adhesives Minimal value [kPa], rupture type: Initial state (dry conditions) Minimal value/average [kPa], rupture type: after 2 d immersion in water, 2 h drying Minimal value/average [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 [kPa], rupture type: after 2 d immersion in water, 2 h drying Minimal value/average [kPa], rupture type 	
Fixing strength (displacement test)	after 2 d immersion in water, 7 d drying Test not required therefore no limitation of ETICS length required.	
Wind load resistance of ETICS pull-through test of fixing static foam block test	$(see annex 4.4) - Rpanel [kN/fixing], - Rjoint [kN/fixing], - Plate diameter of anchor \geq 60 \text{ mm}res. \geq 90 \text{ mm}- plate stiffness \geq 0.3 \text{ kN/mm}^2- load resistance of the anchor plate \geq 1.0 \text{ kN}$	
Tensile strength perpendicular to the faces		
in dry conditions standard EPS	$\label{eq:states} \begin{array}{ll} \sigma_{mt} \geq 80 \; kPa & (bonded \; ETICS) \\ \sigma_{mt} \geq 100 \; kPa \; (mechanically fixed \; ETICS) \\ & \mbox{ with anchors and} \end{array}$	
elastified EPS	$ \begin{array}{l} \mbox{supplementary adhesive}) \\ \sigma_{mt} \geq 150 \ \mbox{kPa} & (bonded \ \mbox{ETICS with profiles}) \\ \sigma_{mt} \geq 80 \ \mbox{kPa} & (mechanically fixed \ \mbox{ETICS with} \\ \mbox{anchors and supplementary} \\ \mbox{adhesive}) \end{array} $	



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Essential characteristic	Performance
Shear strength of the ETICS	≥ 20 kPa
Shear modulus of the ETICS standard EPS elastified EPS	≥ 1.0 MPa ≥ 0.3 MPa
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) Minimal value/ average [kPa]; rupture type Minimal value/ average [kPa]; rupture type
Tensile strength of the glass fibre mesh in the as-delivered state	(see annex 4.7) Average [N/mm]
Residual tensile strength of the glass fibre mesh after aging	(see annex 4.7) Average [N/mm]
Relative residual tensile strength of the glass fibre mesh after aging	(see annex 4.7) Average [%]
Elongation of the glass fibre mesh in the as-delivered state	(see annex 4.7) Average [%]
Elongation of the glass fibre mesh after aging	(see annex 4.7) Average [%]

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)]	



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

In accordance with EAD 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
	ETICS in external wall subject to fire regulations	A1 ⁽¹⁾ , A2 ⁽¹⁾ , B ⁽¹⁾ , C ⁽¹⁾	1
"StoTherm		A1 $^{(2)}$, A2 $^{(2)}$, B $^{(2)}$, C $^{(2)}$, D, E, (A1 to E) $^{(3)}$, F	2+
Vario 4"	ETICS in external wall not subject to fire regulations	any	2+
(1) Droducts/matori	als for which a clearly identifiable stage	in the production process results in	an improvement of

(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 7 March 2024 by Deutsches Institut für Bautechnik

Anja Rogsch Head of Section *beglaubigt:* Keküllüoglu



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Annex 1

Composition of the ETICS

Components	Coverage	Thickness [mm]
	[9,]	[]
-		
	_	≤ 400
		≤ 400 ≤ 200
	_	≥ 200
- Sto-Baukleber (cement based powder requiring addition	3.0 to 7.5	-
- StoLevell Uni (cement based powder requiring addition	3.0 to 7.5	-
 StoLevell Duo (cement based powder requiring addition of 20 - 23 % of water) 	3.0 to 7.5 (powder)	_
 StoLevell Duo plus (cement based powder requiring addition of about 25 % of water) 	3.0 to 7.5 (powder)	_
 StoLevell Duo plus QS (cement based powder requiring addition of about 22 – 25 % of water) 	3.0 to 7.5 (powder)	-
 StoLevell Novo (cement based powder requiring addition of about 37 % of water) 	3.0 to 7.5 (powder)	_
 StoLevell FT (cement based powder requiring addition of about 28 % of water) 	3.0 to 7.5 (powder)	_
 StoColl Mineral HP (cement based powder requiring addition of 23 – 25 % of water) 	3.0 to 7.5 (powder)	-
 StoColl IP (cement based powder requiring addition of about 20 % of water) 	4.0 to 5.0 (powder)	-
 StoLevell SW plus (cement based powder requiring addition of 21 - 23 % of water) 	3.0 to 7.5 (powder)	-
 Sto-Dispersionskleber (organic based ready to use paste) 	1.0 to 1.5 (prepared)	-
 StoPrefa Coll (organic based ready to use paste) 	0.8 to 1.5 (prepared)	_
 StoLevell S 35 (organic based ready to use paste requiring addition of 30 % of cement) 	1.0 to 1.5 (prepared)	_
Mechanically fixed ETICS with profiles and supplementary adhesive:		
Insulation product		
factory-prefabricated expanded polystyrene (EPS)*		
 standard EPS 	-	60 to 200
Supplementary adhesive (equal to bonded ETICS)		
	 National application documents shall be taken into account Bonded ETICS: Insulation product factory-prefabricated expanded polystyrene (EPS)* standard-EPS elastified EPS Adhesives Sto-Baukleber (cement based powder requiring addition of 21 - 23 % of water) StoLevell Uni (cement based powder requiring addition of 24 - 26 % of water) StoLevell Duo (cement based powder requiring addition of 20 - 23 % of water) StoLevell Duo plus (cement based powder requiring addition of 20 - 23 % of water) StoLevell Duo plus (cement based powder requiring addition of about 25 % of water) StoLevell Duo plus (cement based powder requiring addition of about 27 % of water) StoLevell Novo (cement based powder requiring addition of about 27 % of water) StoLevell Novo (cement based powder requiring addition of about 28 % of water) StoLevell FT (cement based powder requiring addition of about 28 % of water) StoColl Mineral HP (cement based powder requiring addition of about 20 % of water) StoLevell SW plus (cement based powder requiring addition of about 20 % of water) StoLevell SW plus (cement based powder requiring addition of about 20 % of water) StoLevell SW plus (cement based powder requiring addition of about 20 % of water) StoLevell SW plus (cement based powder requiring addition of about 20 % of water) StoLevell SW plus (cement based powder requiring addition of about 20 % of water) StoLevell SW plus (cement based powder requiring addition of about 20 % of water) StoLevell SW plus (cement based powder requiring addition of about 20 % of water) StoLevell SW plus (cement based powder requiring addition of about 20 % of water) StoLevell SW plus (cement based powder requiring addition of about 20 % of water)	National application documents shall be taken into account [kg/m²] Bonded ETICS: Insulation product factory-prefabricated expanded polystyrene (EPS)* - - standard-EPS - - elastified EPS - - Stol-Baukleber (cement based powder requiring addition of 21 - 23 % of water) 3.0 to 7.5 (powder) - StoLevell Uni (cement based powder requiring addition of 20 - 23 % of water) 3.0 to 7.5 (powder) - StoLevell Duo (cement based powder requiring addition of about 25 % of water) 3.0 to 7.5 (powder) - StoLevell Duo plus (cement based powder requiring addition of about 22 - 25 % of water) 3.0 to 7.5 (powder) - StoLevell Novo (cement based powder requiring addition of about 37 % of water) 3.0 to 7.5 (powder) - StoLevell Novo (cement based powder requiring addition of about 22 - 25 % of water) 3.0 to 7.5 (powder) - StoClevell FT (cement based powder requiring addition of about 23 - 25 % of water) 3.0 to 7.5 (powder) - StoColl Mineral HP (cement based powder requiring addition of about 23 - 25 % of water) 4.0 to 5.0 (powder) - StoColl IP (cement based powder requiring addition of about 20 % of water) 4.0 to 5.0 (powder) - StoColl IP (cement based powder requiring addition of 21 - 23 % of water) 1.0 to 1.5 (powder) - StoPrefa Coll 0.8 to 1.5 (prepared)



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	Components National application documents shall be taken into account	Coverage [kg/m²]	Thickness [mm]
Insulation material with associated method of fixing	 Profiles "Sto-Halteleiste PVC" "Sto-Verbindungsleiste PVC" Polyvinyl chloride (PVC) profiles Anchors for Profiles WS 8 L ejotherm SDK U 		
	 SDF-K plus ejotherm NK U 		
	Mechanically fixed ETICS with anchors and supplementary adhesive:		
	 Insulation product factory-prefabricated expanded polystyrene (EPS)* Standard EPS elastified EPS 	- -	60 to 400 60 to 200
	 Supplementary adhesives (equal to bonded ETICS) Anchors for insulation product all anchors with ETA according to EAD 330196-01-0604¹ 		
Base coat	StoLevell Duo StoLevell Duo Plus Identical with the equally named adhesives given above.	4.5 to 6.0 (powder)	3.0 to 5.0
Glass fibre mesh	Sto-Glasfasergewebe Alkali- and slide-resistant glass fibre mesh with mass per unit area of $165 \pm 15 \text{ g/m}^2$ and mesh size of about 6.0 mm x 6.0 mm	_	-
	Sto-Glasfasergewebe F Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 165 ± 15 g/m ² and mesh size of about 4.0 mm x 4.0 mm	-	_
	Sto-Panzergewebe (reinforced mesh implemented in addition to the mesh described above to improve the impact resistance) Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 450 g/m ² and mesh size of about 7.5 mm x 7.5 mm	_	_

1



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	Components	Coverage	Thickness
	National application documents shall be taken into account	[kg/m²]	[mm]
Key coat	StoPrep Miral	0.3 to 0.4 l/m ²	_
	Sto-Putzgrund		
	Sto-Putzgrund QS		-
	StoPrep Isol Q		
	Ready to use pigmented acrylic-resin dispersion liquids. StoPrep Miral with additional potassium silicate binder		
	For the compatibility with the finishing coats see below		
Finishing coat	To use with key coat "Sto-Putzgrund"/"StoPrep Isol Q", if applicable [⊷]		
	 Ready to use pastes - acrylic binder: 		
	Stolit K (particle size 1.0 to 6.0 mm)	1.8 to 6.0	1
	Stolit R (particle size 1.0 to 6.0 mm)	1.8 to 6.0	regulated
	Stolit Effect (particle size 3.0 mm)	3.5 to 5.5	∫by particle size
	Stolit MP (thin, middle or thick layer)	1.5 to 4.0	1.0 to 3.0
	Stolit Milano	1.5 to 2.5	1.0 to 2.0
	Stolit K (particle size 1.5 mm) + Stolit Milano	3.8 to 4.8	2.0 to 3.0
	StoMarlit K (Korngröße 1.5 to 3.5 mm)	2.3 to 4.3	regulated
	StoMarlit R (Korngröße 1.5 to 3.5 mm)	2.3 to 4.3	by particle
	Sto-Ispolit K (particle size 1.5 to 3.5 mm)	2.3 to 4.3	size
	Sto-Ispolit R (particle size 1.5 and 3.5 mm)	2.3 to 4.3	J
	Sto-Ispolit MP (thin, middle or thick layer)	2.3 to 4.0	1.5 to 3.0
	StoSuperlit (particle size 2.0 mm)	5.0 to 6.0	regulated ر
	StoLotusan K (particle size 1.0 and 3.0 mm)	1.8 to 4.3	∫by particle size
	StoLotusan MP (thin, middle or thick layer)	1.5 to 4.0	1.5 to 3.0
	 Ready to use paste – acrylic binder – associated with a decorative paint: 		
	StoNivellit +	3.0 to 3.5	1.5 to 2.0
	StoColor Silco	0.2 to 0.4 l/m ²	1.5 10 2.0



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	Components National application documents shall be taken into account	Coverage [kg/m²]	Thickness [mm]
Finishing coat	 Ready to use pastes – acrylic/siloxane binder: 		
	Sto-Silkolit K (particle size 1.5 to 3.5 mm)	2.3 to 4.3) regulated
	Sto-Silkolit R (particle size 1.5 to 3.5 mm)	2.3 to 4.3	∫by particle size
	Sto-Silkolit MP (thin, middle or thick layer)	2.3 to 4.0	1.5 to 3.0
	StoSilco K (particle size 1.0 to 3.0 mm)	1.8 to 4.3	regulated
	StoSilco R (particle size 1.0 to 3.0 mm)	1.8 to 4.3	}by particle size
	StoSilco MP (thin, middle or thick layer)	1.5 to 4.0	1.5 to 3.0
	StoSilco blue K (particle size 1.0 to 3.0 mm)	1.6 to 4.6	regulated by particle size
	StoSilco blue MP (thin, middle or thick layer)	1.5 to 4.0	1.0 to 3.0
	To use with key coat "Sto-Putzgrund QS"/ "StoPrep Isol Q", if applicable:*		
	 Ready to use pastes – acrylic binder 		
	(application between 0 °C and 15 °C):		
	Stolit QS K (particle size 1.0 to 3.0 mm)	1.8 to 4.3	regulated
	Stolit QS R (particle size 1.0 to 3.0 mm)	1.8 to 4.3	by particle
	Stolit QS MP (thin, middle or thick layer)	1.5 to 4.0	1.0 to 3.0
	 Ready to use paste – acrylic/siloxane binder (application between 0 °C and 15 °C): 		h
	StoSilco QS K (particle size 1.0 to 3.0 mm)	1.8 to 4.3	regulated
	StoSilco QS R (particle size 1.0 to 3.0 mm)	1.8 to 4.3	by particle size
	StoSilco QS MP (thin, middle or thick layer)	1.5 to 4.0	1.0 to 3.0
	To use with key coat "StoPrep Miral", if applicable: ^{∗∗}		
	StoSil K (particle size 1.0 to 3.0 mm)	2.2 to 4.3	regulated
	StoSil R (particle size 1.0 to 3.0 mm)	2.2 to 4.3	∫by particle size
	StoSil MP (thin, middle or thick layer)	1.5 to 4.0	1.0 to 3.0
	 Cement based powder requiring addition of about 25 % in weight of water: 		
	StoMiral K (particle size 1.0 to 6.0 mm)	1.6 to 5.2	regulated
	StoMiral R (particle size 1.0 to 6.0 mm)	1.6 to 5.2	∫ by particle size
	StoMiral MP (fine structure)	1.5 to 4.0	1.0 to 3.0
	 Cement based powder requiring addition of about 20 to 23 % in weight of water associated with a decorative paint: 		
	StoMiral Nivell F (fine structure)	3,0 bis 5,1	1,0 bis3,0



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	Components National application documents shall be taken into account	Coverage [kg/m²]	Thickness [mm]
Finishing coat	 Cement based powder requiring addition of about 30 % in weight of water associated with a decorative paint: 		
	Sto-Strukturputz K (particle size 2.0 and 3.0 mm)	2.5 to 2.9) regulated
	Sto-Strukturputz R (particle size 2.0 and 3.0 mm)	2.5 to 2.9	∫by particle size
	 Cement based powder requiring addition of about 24 to 32 % in weight of water: 		
	StoMiral EKP (Edelkratzputz) (particle size 2.0 to 4.0 mm)	24.0 bis 28.0	8.0 to 10.0***
	 Ready to use paste – acrylic binder – associated with synthetic briquettes: 		
	StoCleyer B or StoEcoshape embedded in Sto-Klebe und Fugenmörtel	5.0 to 9.0	4.7 to 7.0
Decorative	Ready to use paint:		
paint	StoColor Silco		
(optional)	StoColor Silco G		
	StoColor Lotusan		
	StoColor Lotusan G		
	StoColor Jumbosil	[l/ m²]	
	StoColor Maxicryl	0.2 to 0.4	
	StoColor Crylan	0.2 10 011	
	StoColor X-black		
	StoColor Solical		
	StoColor Solical G		
	StoColor Maxisil		
	StoColor Dryonic	[l/ m²]	
	StoColor Dryonic G	0.24 bis 0.3	
Ancillary material	Remains the responsibility of the manufacturer of ETICS.		
** The instruction to	cated, uncoated panels made of expanded polystyrene (EPS) to EN 13163 sha o the installer concerning the use of a key coat remains the responsibility of the kness of 10 to 25 mm is reduced to 8 to 10 mm by scraping.		



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Annex 2

Safety in case of fire (BWR 2)

2.1 Reaction to fire

Flame retardant **Euroclass according** Configurations Organic content content to EN 13501-1 no flame max. 1.9 % Base coat retardant Euroclass E Euroclass E EPS insulation material according to according to EN 13501-1 EN 13501-1 Profiles anchors _ _ Rendering system: Base coat with finishing coat and compatible key coat indicated in annex 1: Stolit K/R (particle size 1.0 to 6.0 mm) Stolit Effect/MP Stolit Milano Stolit K1.5 + Stolit Milano StoMarlit K/R max. 9.6 % min. 8.0 % StoLotusan K/MP StoNivellit + StoSilco Color StoSilco K/R/MP StoSilco blue K/MP B-s1,d0* Stolit QS K/MP StoSilco QS K/R/MP Sto-Ispolit K/R/MP max. 9.3 % no flame Sto-Silkolit K/R/MP retardant StoSil K/R/MP max. 6.0 % StoMiral K/R/MP StoMiral Nivell F associated with a decorative paint no flame max. 1.7 % retardant Sto-Strukturputz K/R associated with a decorative paint StoMiral EKP (Edelkratzputz) Sto-Klebe- und Fugenmörtel + max. 8.0 % min. 15.0% B - s2,d0StoCleyer B/ StoEcoshape max. 7.9 % min. 20.0 % StoSuperlit no performance assessed B - s2,d0: when using adhesive "Sto Dispersionskleber", "StoPrefa Coll " and "StoLevel S 35" or

density of EPS - insulation product > 25 - 30 kg/m³ or use of decorative paint with organic finishing coats

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

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

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Annex 3

Hygiene, health and environment (BWR 3)

3.1 Water absorption (capillarity test)

Base coat:

Base coat	Average water absorption [kg/m ²]	
	after 1 h	after 24 h
StoLevell Duo	0.09	0.37
StoLevell Duo Plus	0.03	0.13

Rendering system: **Rendering system:** Average water absorption [kg/m²] Base coat "StoLevell Duo" with finishing after 1 h after 24 h coat indicated hereafter Stolit K/R/Effect/MP 0.05 0.04 Stolit Milano 0.10 0.01 Stolit K1.5 + Stolit Milano 0.02 0.08 StoMarlit K/R 0.09 0.02 Sto-Ispolit K/R/MP 0.04 0.24 StoLotusan K/MP 0.01 0.09 Sto-Klebe- und Fugenmörtel + 0.05 0.24 StoCleyer B/ StoEcoshape StoSuperlit 0.05 0.25 StoNivellit + StoSilco Color 0.04 0.24 Sto-Silkolit K/R/MP 0.36 0.05 StoSilco K/R/MP 0.04 0.23 StoSilco blue K/MP 0.03 0.21 Stolit QS K/R/MP 0.04 0.24 StoSilco QS K/R/MP 0.05 0.24 StoSil K/R/MP 0.18 0.72 StoMiral K/R/MP 0.03 0.30 StoMiral Nivell F, 0.04 0.43 associated with a decorative paint Sto-Strukturputz K/R 0.05 0.44 associated with a decorative paint StoMiral EKP (Edelkratzputz) 0.04 0.89



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Rendering system:	Average water absorption [kg/m ²]			
Base coat "StoLevell Duo Plus" with finishing coat indicated hereafter	after 1 h	after 24 h		
Stolit K/R/Effect/MP/	0.02	0.14		
Stolit Milano	0.01	0.06		
Stolit K1.5 + Stolit Milano	0.01	0.07		
StoMarlit K/R	0.02	0.14		
Sto-Ispolit K/R/MP	0.04	0.24		
StoLotusan K/MP	0.01	0.11		
Sto-Klebe- und Fugenmörtel + StoCleyer B or StoEcoshape	0.06	0.33		
StoSuperlit	0.07	0.31		
StoNivellit + StoSilco Color	0.04	0.21		
Sto-Silkolit K/R/MP	0.05	0.36		
StoSilco K/R/MP	0.02	0.20		
StoSilco blue K/MP	0.02	0.14		
Stolit QS K/R/MP	0.01	0.16		
StoSilco QS K/R/MP	0.01	0.16		
StoSil K/R/MP	0.09	0.77		
StoMiral K/R/MP	0.03	0.17		
StoMiral Nivell F, associated with a decorative paint	0.02	0.16		
Sto-Strukturputz K/R associated with a decorative paint	0.13	0.33		
StoMiral EKP (Edelkratzputz)	0.21	0.74		



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3.2 Impact resistance

Standard mesh: "Sto-Glasfasergewebe" oder "Sto-Glasfasergewebe F"

Rendering system: Base coat "StoLevell Duo" or "StoLevell Duo Plus" with finishing coats indicated hereafter:	Standard mesh [Category]	Standard mesh + Sto-Panzergewebe [Category]	
Stolit K/R/Effect/MP	П	Ι	
Stolit Milano	II		
Stolit K1.5 + Stolit Milano	П		
Sto-Ispolit K/R/MP	=		
StoMarlit K/R	II	1	
StoLotusan K/MP	II	1	
Sto-Klebe- und Fugenmörtel + StoCleyer B or StoEcoshape	I		
StoSuperlit	II	I	
StoNivellit + StoColor Silco	III	II	
Sto-Silkolit K/R/MP	II		
StoSilco K/R/MP	II	Ι	
StoSilco blue K/MP	II	no performance assessed	
Stolit QS K/R/MP			
StoSilco QS K/R/MP		I	
StoSil K/R/MP			
StoMiral K/R/MP	II	II	
StoMiral Nivell F associated with a decorative paint			
Sto-Strukturputz K/R associated with a decorative paint	II		
StoMiral EKP (Edelkratzputz)	z) I		



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3.3 Water vapour permeability ETICS

Rendering system: Base coat "StoLevell Duo" or "StoLevell Duo Plus" with finishing coat indicated hereafter (evaluated without decorative coating or key coat unless otherwise noted)	Equivalent air thickness s_d (Test results obtained with a layer thickness of the base coat of 6 mm)
Stolit Milano	\leq 1.0 m (Test result obtained with d = 1 mm: 0.5 m)
Stolit K1.5 + Stolit Milano	\leq 1.0 m (Test result obtained with d = 2.5 mm: 0.8 m)
StoMarlit K/R	\leq 1.0 m (Test result obtained with d = 2.5 mm: 0.41 m)
StoLotusan K/MP	\leq 1.0 m (Test result obtained with StoLotusan K2: 0.11 m)
StoSuperlit	≤ 1.0 m (Test result obtained with "Farbsand" (special colour coated grain) K2: 0.4 m) (Test result obtained with "Silmer" (natural coloured grain) K2: 0.3m)
StoNivellit + StoColor Silco	\leq 1.0 m (Test result obtained with d = 1 mm: 0.4 m)
Sto-Silkolit K/R/MP	\leq 1.0 m (Test result obtained with d = 2.5 mm: 0.21 m)
StoSilco blue K/MP	\leq 1.0 m (Test result obtained with StoSilco blue K2: 017 m)
StoMiral Nivell F associated with decorative paint	≤ 1.0 m (Test result obtained with d = 2 mm and a double coat of paint "StoSilco Color": 0.2 m) (Test result obtained with d = 2 mm and a double coat of paint "StoColor Jumbosil": 0.2 m)
Sto-Strukturputz K/R associated with decorative paint	≤ 1.0 m (Test result obtained with Sto-Strukturputz K3 and a double coat of paint "StoSilco Color": 0.2 m) (Test result obtained with Sto-Strukturputz K3 and a double coat of paint "StoColor Jumbosil": 0.3 m)
StoMiral EKP (Edelkratzputz)	\leq 1.0 m (Test result obtained with d = 11 mm: 0.4 m)



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≤ 1.5 m (Test result obtained with Stolit K3 mm: 0.49 m)* (Test result obtained with Stolit K1.5 mm: 0.52 m)* (Test result obtained with Stolit K1.5 mm: 1.09 m)*;*** (Test result obtained with Stolit MP 3 mm: 1.14 m)* (Test result obtained with Stolit K 6 mm: 0.60 m)* (Test result obtained with Stolit K 6 mm: 0.53 m) ≤ 1.0 m (Test result obtained with Sto-Ispolit K 3.5 mm: 0.64 m)* ≤ 1.0 m (Test result obtained with StoSilco MP 3 mm: 0.42 m)* ≤ 1.0 m
(Test result obtained with Sto-Ispolit K 3.5 mm: 0.64 m) [*] \leq 1.0 m (Test result obtained with StoSilco MP 3 mm: 0.42 m) [*]
(Test result obtained with StoSilco MP 3 mm: 0.42 m)*
≤ 1.0 m
(Test result obtained with Stolit QS K3 mm: 0.59 m)*
\leq 1.0 m (Test result obtained with StoSilco QS MP 3 mm: 0.60 m) [*]
\leq 1,0 m (Test result obtained with StoSil K3 mm: 0.24 m)** (Test result obtained with StoSil MP 3 mm: 0.28 m)**
\leq 1,0 m (Test result obtained with StoMiral MP 3 mm: 0.14 m) ^{**} (Test result obtained with StoMiral K6: 0.17 m) ^{**}
≤ 1,0 m (Test result obtained with Sto-Klebe- und Fugenmörtel + StoCleyer B: 0.64 m)****
≤ 1.5 m (Test result obtained with Sto-Klebe- und Fugenmörtel + StoEcoshape: 1.13 m)****

*** with decorative paint "StoColor Dryonic M"

**** Test results obtained with a layer thickness of the base coat of 4 mm



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Rendering system: Base coat "StoLevell Duo Plus" with finishing coat indicated hereafter (evaluated without decorative coating or key coat unless otherwise noted)	Equivalent air thickness sd (Test results obtained with a layer thickness of the base coat of 5 mm)
Stolit K/R/Effect/MP	$\leq 1.5 \text{ m}$ (Test result obtained with Stolit K3 mm: 0.55 m)* (Test result obtained with Stolit K1.5 mm: 0.56 m)* (Test result obtained with Stolit K1.5 mm: 1.15 m)*;*** (Test result obtained with Stolit MP 3 mm: 1.00 m)* (Test result obtained with Stolit K 6 mm: 0.62 m)* (Test result obtained with Stolit K 6 mm: 0.56 m)
Sto-Ispolit K/R/MP	\leq 1,0 m (Test result obtained with Sto-Ispolit K 3.5 mm: 0.56 m) [*]
StoSilco K/R/MP	\leq 1,0 m (Test result obtained with StoSilco MP 3 mm: 0.41 m) [*]
Stolit QS K/R/MP	\leq 1,0 m (Test result obtained with Stolit QS K3 mm: 0.57 m) [*]
StoSilco QS K/R/MP	\leq 1,0 m (Test result obtained with StoSilco QS MP 3 mm: 0.53 m) [*]
StoSil K/R/MP	\leq 1,0 m (Test result obtained with StoSil K3 mm: 0.21 m) ^{**} (Test result obtained with StoSil MP 3 mm: 0.29 m) ^{**}
StoMiral K/R/MP	\leq 1,0 m (Test result obtained with StoMiral MP 3 mm: 0.16 m) ^{**} (Test result obtained with StoMiral K6: 0.18 m) ^{**}
Sto-Klebe- und Fugenmörtel + StoCleyer B	≤ 1,0 m (Test result obtained with Sto-Klebe- und Fugenmörtel + StoCleyer B: 0.63 m)****
Sto-Klebe- und Fugenmörtel + StoEcoshape	≤ 1,0 m (Test result obtained with Sto-Klebe- und Fugenmörtel + StoEcoshape: 0.99 m)****

*** with decorative paint "StoColor Dryonic M"

**** Test results obtained with a layer thickness of the base coat of 4 mm



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Annex 4

Safety and accessibility in use (BWR 4)

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

		Conditioning			
		Initial state [kPa]	After hygrothermal cycles [kPa]	After freeze/thaw test	
StoLevell Duo	Average	90	95	Test not required	
Stolevell Duo	Minimal value	90	78	because	
StoLevell Duo Plus	Average	116	124	freeze/thaw cycles	
Stolevell Duo Plus	Minimal value	93	88	not necessary	



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4.2 Bond strength between adhesive and substrate

Substrate: concrete		Rupture	Conditioning			
		type	Initial state [kPa]	2 d immersion in water and 2 hrs. drying [kPa]	2 d immersion in water and 7 d drying [kPa]	
Sto-Baukleber	Average	In	2197	1110	3332	
(5 mm)	Minimal value	adhesive	2158	989	3105	
StoLevell Uni	Average	In	1793	637	2560	
(5 mm)	Minimal value	adhesive	1586	467	2489	
StoLevell Duo	Average	In	1175	524	1874	
(5 mm)	Minimal value	adhesive	983	456	1660	
StoLevell Duo	Average	In	1230	583	2020	
plus (5 mm)	Minimal value	adhesive	1166	501	1893	
StoLevell Duo	Average	In	1264	523	2001	
plus QS (5 mm)	Minimal value	adhesive	961	341	1691	
StoLevell Novo	Average	In adhesive	793	405	1059	
(5 mm)	Minimal value		733	327	947	
StoLevell FT	Average	In	1233	369	1157	
(5 mm)	Minimal value	adhesive	784	299	1026	
StoColl Mineral	Average	In	2080	184	1790	
HP (5 mm)	Minimal value	adhesive	1927	173	1732	
StoColl IP	Average	In	1565	975	1830	
(3 – 5 mm)	Minimal value	adhesive	1407	577	1738	
StoLevell SW	Average	In	131	141	211	
plus (3 – 5 mm)	Minimal value	adhesive	78	119	177	
Sto-	Average		1525	1480	1043	
Dispersions- kleber (3 – 5 mm)	Minimal value	*	1364	1349	870	
StoPrefa Coll	Average	In	1220	120	1310	
(3 – 5 mm)	Minimal value	adhesive	1213	107	1203	
StoLevell S 35	Average	In	1997	682	2917	
(3 – 5 mm)	Minimal value	adhesive	1852	651	2442	
* Initial state: 100 % in adhesive						

Initial state: 100 % in adhesive

2 d immersion in water and 2 h drying: 45 % in substrate; 55 % in adhesive

2 d immersion in water and 7 d drying: 5 % in substrate; 95 % in adhesive



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		Rupture	Conditioning		
		type	Initial state [kPa]	2 d immersion in water and 2 hrs. drying [kPa]	2 d immersion in water and 7 d drying [kPa]
Sto-Baukleber	Average	in in sulation	112	109	126
(5 mm)	Minimal value	insulation product	96	105	119
StoLevell Uni	Average	in	121	99	122
(5 mm)	Minimal value	insulation product	112	81	112
StoLevell Duo	Average	in	106	83	120
(5 mm)	Minimal value	insulation product	92	73	118
StoLevell Duo	Average	in	109	74	101
plus (5 mm)	Minimal value	insulation product	99	58	81
StoLevell Duo	Average	in	85	50	81
plus QS (5 mm)	Minimal value	insulation product	74	45	67
StoLevell Novo	Average	in insulation product	115	74	108
(5 mm)	Minimal value		107	58	92
StoLevell FT	Average	in	103	89	120
(5 mm)	Minimal value	insulation product	84	84	113
StoColl Mineral	Average	in	100	90	90
HP (3 – 5 mm)	Minimal value	insulation product	88	87	80
StoColl IP	Average	*	145	95	145
(3 – 5 mm)	Minimal value		138	90	141
StoLevell SW	Average	in insulation	96	102	99
plus (3 – 5 mm)	Minimal value	product	82	89	93
Sto-Dispersions-	Average	in in substitut	148	183	160
kleber (3 – 5 mm)	Minimal value	insulation product	124	168	128
StoPrefa Coll	Average	in	120	120	130
(3 – 5 mm)	Minimal value	insulation product	112	109	120
StoLevell S 35	Average	in	158	147	171
(3 – 5 mm)	Minimal value	insulation product	127	136	149
2 d immersion in v	vater and 2 h drying: vater and 2 h drying:	ct : 95 % in adhesi		ation product	1

4.3 Bond strength between adhesive and insulation product (EPS)



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Minimal bonded surface:

S [%] = 0,03 N/mm² x 100 / 0,08 N/mm² S = 37,5 % The minimal surface bonded area S of bonded ETICS is 40 %.



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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

	Dimensions	500 mm x 500 mm	
Characteristics	Thickness	≥ 60 mm	
of the EPS (standard EPS)	Tensile strength perpendicular to the ≥ 150 kPa		
	Shear modulus	≥ 1.0 N/mm²	
	Horizontal profiles fixed every 30 cm and	Minimal: 0.095	
(Static Foam Block Test)	49.4 cm long vertical connection profiles	Average: 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	Thickness Tensile strength perpendicular to the faces Shear modulus		≥ 60	mm	
of the EPS (standard			≥ 100) kPa	
EPS)			≥ 1.0 ľ	N/mm²	
Plate diameter of anchor			Ø 60 mm	Ø 90 mm	
plate stiffness			≥ 0.3 kN/mm		
load resistance of the anchor plate			≥ 1.0 kN		
Failure loads	Anchors not placed at the panel joints (Static Foam Block Test)	R _{panel}	Minimal: 0.51 Average: 0.52	Minimal: 0.72 Average: 0.73	
[kN]	Anchors placed at the panel joints (Pull-through test)	Rjoint	Minimal: 0.40 Average: 0.43	Minimal: 0.43 Average: 0.47	

Apply to all anchors listed in 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	Plate diameter of anchor		Ø 60 mm	
plate stiffness		≥ 0.3 kN/mm		
load resistance of the anchor plate		≥ 1.0 kN		
Failure load [kN]	Anchors not placed at the panel joints (Static Foam Block Test)	R _{panel}	Minimal: 0.35 Average: 0.36	
	Anchors placed at the panel joints (Pull-through test)	Rjoint	Minimal: 0.30 Average: 0.31	



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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 panel [t]	Conditions of installation*	
ejotherm STR U, ejotherm STR U 2G (ETA-04/0023)	t ≥ 80 mm (for standard and elastified EPS)	 Maximum installation depth of the anchor plate: 15 mm (≙ thickness of insulation cover) Incision depth: 20 mm 	
	t ≥ 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)	$t \ge 80 \text{ mm}$ (for standard EPS only)	 Maximum installation depth of the anchor plate: 15 mm (≙ thickness of insulation cover) 	
* according to the appropriate ETA of anchor			



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4.5 Bond strength after aging

Finishing coat with base coat indicated hereafter		7 d immersion in water and 7 d drying [kPa] with base coat "StoLevell Duo Plus"	7 d immersion in water and 7 d drying [kPa] with base coat "StoLevell Duo"
Stolit K/R/Effect/MP	Average	156	120
	Minimal value	131	102
Stolit Milano	Average	148	115
	Minimal value	140	104
Stolit K1.5 + Stolit	Average	100	120
Milano	Minimal value	88	102
StoMarlit K/R	Average	128	115
	Minimal value	105	104
Sta Japalit K/D/MD	Average	121	121
Sto-Ispolit K/R/MP	Minimal value	117	117
Sto Suparlit	Average	158	125
StoSuperlit	Minimal value	138	96
StoLotusan K/MP	Average	158	125
StoLotusan K/MP	Minimal value	149	118
StoNivellit	Average	150	115
Stonivenit	Minimal value	127	103



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Finishing coat with base coat indicated hereafter		7 d immersion in water and 7 d drying [kPa] with base coat "StoLevell Duo Plus"	7 d immersion in water and 7 d drying [kPa] with base coat "StoLevell Duo"
Sto-Klebe- und Fugenmörtel mit	Average	83	120
StoCleyer B or StoEcoshape	Minimal value	67	96
StoSilkolit K/R/MP	Average	119	119
	Minimal value	107	107
StaSilaa K/D/MD	Average	143	125
StoSilco K/R/MP	Minimal value	133	106
StoSilco blue K/MP	Average	110	110
	Minimal value	107	100
Stolit QS K/R/MP	Average	150	115
	Minimal value	147	109
StoSilco QS K/R/MP	Average	150	102
	Minimal value	136	99
StoSil K/R/MP	Average	153	120
	Minimal value	134	96
StoMiral K/R/MP	Average	129	110
	Minimal value	115	95
StoMiral Nivell F	Average	138	115
	Minimal value	101	89
Sta Strukturguta K/D	Average	133	120
Sto-Strukturputz K/R	Minimal value	95	103
StoMiral EKP	Average	140	115
(Edelkratzputz)	Minimal value	98	87



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4.6 Render strip tensile test

The average value of crack width of the base coats reinforced with the different glass fibre meshes measured at a render strain value of 1.0% is:

Base coat	Glass fibre mesh	Average value of crack width w $_{m (1\%)}$
StoLevell Duo	Sto-Glasfasergewebe	
StoLevell Duo	Sto-Glasfasergewebe F	no performance assessed
StoLevell Duo Plus	Sto-Glasfasergewebe	0.12 mm
Stolevell Duo Flus	Sto-Glasfasergewebe F	0.12 mm

4.7 Reinforcement (glass fibre mesh)

Sto-Glasfasergewebe	Average warp	Average weft
Tensile strength in as-delivered state	2154 N / 50 mm	2883 N / 50 mm
Residual tensile strength after aging	1274 N / 50 mm	1807 N / 50 mm
Relative residual tensile strength after aging	59.1 %	62.7 %
Elongation in as-delivered state	3.7 %	3.8 %
Elongation after aging	1.8 %	2.1 %

Sto-Glasfasergewebe F	Average warp	Average weft
Tensile strength in as-delivered state	2236 N / 50 mm	2434 N / 50 mm
Residual tensile strength after aging	1494 N / 50 mm	1523 N / 50 mm
Relative residual tensile strength after aging	66.8 %	68.1 %
Elongation in as-delivered state	3.9 %	4.2 %
Elongation after aging	2.7 %	2.6 %



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Annex 5

Energy economy and heat retention (BWR 6)

5.1 Thermal resistance und thermal transmittance

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) 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)]
--------	------------------	---------------------------------	--------------

- number of anchors per m² n:
- local influence of thermal bridge caused by an anchor. The values χp: 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



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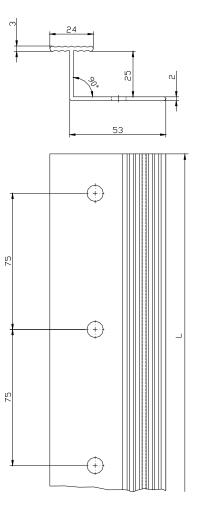
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Annex 6

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 ≥ 500 N.

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



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

