



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-20/0337 of 26 March 2020

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family

to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

Deutsches Institut für Bautechnik

WDVS BATI-THERM MW

Product area code: 4

External Thermal Insulation Composite System with rendering on mineral wool intended for use on building walls

Bati-C S.A. 30, rue de l'industrie à Bertrange 8069 LUXEMBURG LUXEMBURG

17 pages including 4 annexes which form an integral part of this assessment

Annex 5 Control Plan contains confidential information and is not included in the European Technical Assessment when that assessment is publicly available

ETAG 004, edition 2000, amended 2013, used as EAD according to Article 66 Paragraph 3 of Regulation (EU) No 305/2011.



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Specific part

1 Technical description of the product

1.1 Definition of the kit

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 mineral wool (MW) to be bonded and if it necessary additional mechanically fixed onto a wall. The methods of fixing and the relevant components are specified in the table below.

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 is 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.

1.2 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 (see annex 1 for product characteristics) factory-prefabricated mineral wool (MW) product - MW lamella	_	≤ 200
	Adhesive Bati therm MMU (cement based powder requiring addition of about 25 % of water)	about 5.0 (powder)	-
	Mechanically fixed ETICS with profiles and supplementary adhesive:		
	 Insulation product (see annex 1 for product characteristics) factory-prefabricated mineral wool (MW) product MW panel, σ_{mt} ≥ 14 kPa 	_	60 to 200
	 Supplementary adhesive (equal to bonded ETICS) Profiles 		
	(see annex 3 for product characteristics) - "Halteleiste Alu" and - "Verbindungsleiste Alu" Aluminium (Al) – profiles		



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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	Anchors for profiles (see annex 2 for product characteristics) WS 8 L ejotherm SDK U SDF-K plus ejotherm NK U Anchors for insulation product if necessary (equal to mechanically fixed ETICS with anchors and supplementary adhesive, see below)		
	Mechanically fixed ETICS with anchors and supplementary adhesive: Insulation product (see annex 1 for product characteristics) factory-prefabricated mineral wool (MW) product MW panel MW lamella Supplementary adhesive (equal to bonded ETICS) Anchors for insulation product (see annex 2 for product characteristics) and anchors with ETA according to EAD330196-01-06041	_	60 bis 200
Base coat	Bati therm MMU identical with the equally named adhesives given above	about 7.0 (powder)	4.0 to 7.0
Glass fibre mesh	WDVS-Gewebe Grob (see annex 4 for product characteristics) Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 200 g/m² and mesh size of about 8 mm x 8 mm.	_	_
Key coat	Bati therm Quarzgrundierung Ready to use pigmented liquid with styrol-acrylat binder for the compatibility with the finishing coats – see below.	about 0.3 l/m²	-
Finishing coat	 Application without key coat: Thick layered cement based powder requiring addition of about 20 % of water (scraped render): Bati EME To use with key coat if applicable:* Thin layered cement based powder requiring addition of about (20 – 35) % of water: 	10.0 to 24.0	5.0 to 12.0

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

Z72934.19

¹ EAD330196-01-0604



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	Components National application documents shall be taken into account	Coverage [kg/m²]	Thickness [mm]	
Finishing coat	Bati EMM (particle size 1,5 – 2.0 – 3.0 – 4.0 and 5.0 mm)	2.5 to 5.0 (powder)	regulated by particle size	
	Ready to use paste – potassium silicate binder: Bati fini Silicate AV (particle size 1.0 – 1.5 – 2.0 – 3.0 and 4.0 mm)	2.5 to 4.0	regulated by particle size	
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.				

2. Specification of the intended use in accordance with the applicable European assessment Document (hereinafter called EAD)

2.1 Intended use

This ETICS is intended to be used as external insulation to the walls of buildings made of masonry (bricks, blocks, stones, ...) or concrete (cast on site or as prefabricated panels) with and without rendering. The characteristics of the walls shall be verified prior to use of the ETICS, especially regarding conditions for reaction to fire classification and for fixing of the ETICS either by bonding or mechanically. It shall be designed to give the wall to which it is applied satisfactory thermal insulation.

The ETICS is non load-bearing construction element. It does not contribute directly to the stability of the wall on which it is installed, but it can contribute to durability by providing enhanced protection from the effects of weathering.

The ETICS can be used on new or existing (retrofit) vertical walls.

The ETICS is not intended to ensure the air tightness of the building structure.

The choice of the method of fixing depends on the characteristics of the substrate, which could need preparation (see clause 7.2.1 of ETAG 004) and on the national instructions.

The verifications and assessment methods on which this European Technical Assessment (hereinafter called ETA) is based lead to the assumption of a working life of the ETICS "WDVS BATI-THERM MW" 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.

2.2 Manufacturing

The ETA is issued for the ETICS on the basis of agreed data/information, deposited with the DIBt, which identifies the ETICS that has been assessed and judged. Changes to the ETICS or the components or their production process, which could result in this deposited data/information being incorrect, should be notified to the DIBt before the changes are introduced. The DIBt will decide whether such changes affect the approval and consequently the validity of the CE marking on the basis of the approval and if so whether further assessment or alterations to the approval shall be necessary.



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2.3 Design and installation

The installation instructions including special installation techniques and provisions for the qualification of the personnel are given in the manufacturer's technical documentation.

Design, installation and execution of ETICS are to be in conformity with national documents. Such documents and the level of their implementation in Member States' legislation are different. Therefore, the assessment and declaration of performance are done taking into account general assumptions introduced in the chapters 7.1 and 7.2 of ETAG 004 used as EAD, which summarize how information introduced in the ETA and related documents is intended to be used in the construction process and gives advice to all parties interested when normative documents are missing.

2.4 Packing, transport and storage

The information on packaging, transport and storage 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.

2.5 Use, maintenance, 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 adapted and compatible with the ETICS (possibly after washing or ad hoc preparation).

Only products which are compatible with the ETICS shall be used.

Necessary repairs should be performed 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 Characteristics of products and methods of verification

3.0 General

The performances of the kit as described in this chapter are valid provided that the components of the kit comply with annexes 1 to 4.

3.1 Mechanical resistance and stability (BWR 1)

not relevant



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3.2 Safety in case of fire (BWR 2) Reaction to fire (ETAG 004 - clause 5.1.2)

Configuration	Organic content	Flame retardant content	Euroclass according to EN 13501-1:2007
Base coat	max. 2.3 %	no flame retardant	
Mineral wool-insulation product	in quantity ensuring Euroclass A1 according to EN 13501-1	no flame retardant	
profiles	-	-	
anchors	-	-	A2 – s1.d0
rendering system: Base coat w coat indicated in clause 1.2:	ith finishing coat and	compatible key	, -
Bati EME			
Bati EMM	max. 2.6 %	no flame retardent	
Bati fini Silicate AV	max. 6.9 %		

3.3 Hygiene, health and environment (BWR 3)

3.3.1 Water absorption (capillarity test) (ETAG 004 – clause 5.1.3.1)

Base coat	Water absorption after 1 h < 1.0 kg/m²	Water absorption after 24 h < 0.5 kg/m²	
Bati therm MMU	Х	Х	

Rendering system:		Water absorption after 24 hours	
		< 0.5 kg/m²	≥ 0.5 kg/m²
Base coat with finishing coat indicated in clause 1.2:	Bati EME	x	
	Bati EMM	х	
	Bati fini Silicate AV	х	

3.3.2 Hygrothermal behaviour (ETAG 004 – clause 5.1.3.2)

Hygrothermal cycles tests have not been performed for the ETICS.

3.3.3 Impact resistance (ETAG 004 – clause 5.1.3.3)

The impact resistance of all configurations of the ETICS is not assessed (no performance assessed).



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3.3.4 Water vapour permeability (ETAG 004 – clause 5.1.3.4)

Rendering system: Base coat with finishing coat and compatible key coat indicated in clause 1.2:	Equivalent air thickness s₀
Bati EME	≤ 1.0 m (Test result obtained with layer thickness 8 mm: 0.2 m)
Bati EMM	≤ 1.0 m (Test result obtained with particle size 5 mm: 0.2 m)
Bati fini Silicate AV	≤ 1,0 m (Test result obtained with particle size 4 mm: 0.3 m)

3.3.5 Release of dangerous substances (ETAG 004 – clause 5.1.3.5, EOTA TR 034)

Essential characteristic	Performance
Release of dangerous substances	no performance assessed

3.4 Safety and accessibility in use (BWR 4)

3.4.1 Bond strength between base coat and insulation product (MW) (ETAG 004 – clause 5.1.4.1.1)

	Conditioning			
Base coat	Initial state	After hygrothermal cycles	After freeze/thaw test	
Bati therm MMU	≥ 0.08 MPa	< 0,08 MPa but failure in the insulation product	Test not required because freeze/thaw cycles not necessary	

3.4.2 Bond strength between adhesive and substrate resp. insulation product (MW lamella) (ETAG 004 – clauses 5.1.4.1.2 and 5.1.4.1.3)

		Conditioning		
Adhesive	Substrate resp. insulation product	Initial state	2 d immersion in water and 2 h drying	2 d immersion in water and 7 d drying
Pati thorm MMI	Concrete	≥ 0.25 MPa	≥ 0.08 MPa	≥ 0.25 MPa
Bati therm MMU	MW lamella	≥ 0.08 MPa	≥ 0.03 MPa	≥ 0.08 MPa

Bonded surface:

With a bonded surface of 50 % the formula given in clause 6.1.4.1.3 of ETAG 004 is fulfilled and the use as bonded ETICS is possible.

3.4.3 Bond strength after ageing (ETAG 004 – clause 5.1.7.1):

Tests for bond strength after ageing have not been performed on the EOTA-wall.

3.4.4 Fixing strength (displacement test) (ETAG 004 – clause 5.1.4.2)

Test not required therefore no limitation of ETICS length required.



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3.4.5 Wind load resistance (ETAG 004 – clause 5.1.4.3)

The following failure loads only apply to the listed combination of component characteristics and the characteristics of the insulation product given in annex 1.

3.4.5.1 Safety in use of mechanically fixed ETICS using profiles

Failure loads - table 1

	Dimensions	625 mm x 800	mm
Characteristics of the	Thickness	≥ 60 mm	
MW panels	Tensile strength perpendicular to the faces	≥ 14 kPa	
Failure load [N/panel] (Static Foam Block Test)	Horizontal profiles with a vertical distance of 625 mm, fixed every 30 cm and vertical connection profiles No additional anchors in MW panel		1200 1250

Failure loads - table 2

	Dimensions	625 mm x 800 mm	
Characteristics of the	Thickness	≥ 60 m	nm
MW panels	Tensile strength perpendicular to the faces	≥ 14 kPa	
Failure load [N/panel] (Static Foam Block	Horizontal profiles with a vertical distance of 625 mm, fixed every 30 cm and vertical connection profiles Two additional anchors per MW panel,	Minimal: Average:	2200 2400
Test)	plate diameter ≥ 60 mm, mounted on the MW panel surface	Average.	2400

3.4.5.2 Safety in use of mechanically fixed ETICS using anchors

Failure loads - table 3

Apply to all anchors listed in the clause 1.2 mounted on the insulation panels surface					
Characteristics of the MW panels		Thickness		≥ 60 mm	
		Tensile strength perpendicular to the faces		≥ 14 kPa	
Plate diameter of a	nch	or		≥ Ø 60 m	ım
Failure load [N]	Anchors not placed at the panel joints (Static Foam Block Test)		R _{panel}	Minimal: Average:	650 740
(Sta		chors placed at the panel joints atic Foam Block Test)	Rjoint	Minimal: Average:	590 610
		chors not placed at the panel joints Il-through test, dry conditions)	R _{panel}	Minimal: Average:	640 690
	Anchors not placed at the panel joints (Pull-through test, wet conditions) - series 2* - series 3*		R _{panel}	Minimal: Average: Minimal: Average:	360 390 410 450
* according to ETAG 004, clause 5.2.4.1.2 test method (2)					



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Failure loads - table 4

Apply to all anchors listed in the clause 1.2 mounted on the insulation panels surface						
Characteristics of the MW panels		Thickness		≥ 80 mm		
		Tensile strength perpendicular to the faces		≥ 5.0 kPa		
Plate diameter	Plate diameter of anchor			≥ Ø 90 mm	≥ Ø 140 mm	
Failure load [N]		Anchors not placed at the panel joints (Static Foam Block Test)		Minimal: 480 Average: 490	Minimal: 56 Average: 69	
	Anchors placed at the panel joints (Static Foam Block Test) Anchors not placed at the panel joints (Pull-through test, dry conditions) Rpanel		Rjoint	Minimal: 380 Average: 390	Minimal: 44 Average: 54	
			R _{panel}	Minimal: 540 Average: 610	no performance assessed	
Anchors not placed at the panel joints (Pull-through test, wet conditions) R _{panel} - series 2*		Minimal: 400 Average: 460	no performance assessed			
* according to ETAG 004, clause 5.2.4.1.2 test method (2)						

Failure loads - table 5

Apply to all anchors listed in clause 1.2 mounted on the insulation panels surface					
Characteristics of the MW lamella		Thickness	≥ 60 mm		
		Tensile strength perpendi	≥ 80 kPa		
Plate diameter of anchor			≥ Ø 140 mm		
Failure load [N]		s placed at the panel joints rough test, dry condition)	Minimal: 620 Average: 660		
		Anchors placed at the panel joints (Pull-through test, wet condition)		Minimal: 510 Average: 570	
	Anchors placed at the panel joints (Static Foam Block Test)			Minimal: 710	

The failure loads of tables 2 and 3 specified above only apply to the following anchors with deep mounting under the given conditions of installation:

Anchor	Thickness of the MW panel [d]	Conditions of installation *
ejotherm STR U ejotherm STR U 2G (ETA-04/0023)	100 mm > d ≥ 80 mm	Maximum installation depth of the anchor plate: 15 mm (≜ thickness of insulation cover) Maximum depth of die 5 mm.
		Maximum depth of die: 5 mm
	≥ 100 mm	 Maximum installation depth of the anchor plate: 15 mm (≜ thickness of insulation cover)
		- Maximum depth of die: 20 mm
TERMOZ 8 SV (ETA-06/0180)	≥ 80 mm	 Maximum installation depth of the anchor plate: 15 mm (≙ thickness of insulation cover)
* according to the app	propriate ETA of anchor	



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3.4.6 Render strip tensile test (ETAG 004 – clause 5.5.4.1)

The average value of crack width of the with the glass fibre mesh "WDVS-Gewebe Grob" reinforced base coats measured at a render strain value of 1 % is 0.007 mm.

3.5 Protection against noise (BWR 5)

For the protection against noise no performance was assessed for this product.

3.6 Energy economy and heat retention (BWR 6)

3.6.1 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 6946:2007 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 ($m^2 \cdot K$)/W.

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

The thermal bridges caused by mechanical fixing devices (anchors profiles) increase the thermal transmittance U. This influence had to take into account according to EN ISO 6946: 2007.

$U_c = U + \Delta U$	corrected thermal transmittance [W/(m²·K)]		
$\Delta U = \Delta U_{anchor} + \Delta U_{profile}$	correction term for mechanical fixing devices (anchors, profiles)		
$\Delta U_{anchor} = \chi_p \cdot n$	correction term for anchors		
where: n	number of anchors per m²		
Χр	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 technical approval		
$\chi_{p} = 0.004 \text{ W/K}$	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 with the head covered by plastic material, and for anchors with an air gap at the head of the screw		
$\Delta U_{profile} = \Psi \cdot I$	correction term for profiles; $\Delta U_{\text{profile}}$ is determined in accordance with EN ISO 10211:2007		
where: Ψ	length thermal transmittance value of the profile [W/($m \cdot K$)]		
1	length of profile per m² [m/m²]		



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

According to the European Commission decision 97/556/EC amended by the European Commission decision 2001/596/EC, the assessment and verification of constancy of performance system (AVCP) applies suitable following table (see Annex V to Regulation (EU) No 305/2011).

Product	Intended use Levels or classes (Reaction to fire)		Systems
"WDVS BATI- THERM MW"	ETICS in external wall	A1 (1), A2 (1), B (1), C (1)	1
	subject to fire regulations	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)

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable European Assessment Document (EAD)

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at Deutsches Institut für Bautechnik.

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Dirk Brandenburger	beglaubigt:
Head of Department	Windhorst

⁽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)



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Annexes:

Annex 1: Thermal insulation product characteristic

Annex 2: Anchors Annex 3: Profiles

Annex 4: Reinforcement



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Annex 1: Thermal insulation product characteristic

Factory-prefabricated panels and lamella made of mineral wool (MW) to EN 13162:2015 with the following designation code and the other properties having the description in the Table below shall be used, provided that the manufacturer and the trade name of the MW are deposited with the DIBt.

MW - EN 13162 - T5 - DS(T+) - WS - WL(P) - MU1

Description and characteristics	MW panel***	MW lamella			
Reaction to fire; EN 13501-1:2007	Class A1				
Gross heat of combustion [MJ/kg]; EN ISO 1716:2010	PCS ≤ 1,4				
Thermal resistance [(m²·K)/W]	Defined in the CE marking in reference to EN 13162:2015				
Tensile strength perpendicular to the faces [kPa]; EN 1607:2013 - in dry conditions*	$\sigma_{mt} \geq 14$	$\sigma_{mt} \geq 5$	$\sigma_{mt} \geq 80$		
- in wet conditions** Average value - series 2 - series 3	≥ 33 % of average value in dry conditions ≥ 50 % of average value in dry conditions				
Compressive strength* [kPa]; EN 826:2013	$\sigma_m \geq 40$	$\sigma_m \geq 4$	$\sigma_m \geq 40$		
Apparent density [kg/m³]; EN 1602:2013	120 ≤ ρ _a ≤ 150	$100 \le \rho_a \le 150$	$80 \le \rho_a \le 150$		
Shear strength* [kPa]; EN 12090:2013	$20 \leq f_{\tau k} \leq 100$	$6 \le f_{\tau k} \le 100$	$20 \le f_{\tau k} \le 100$		
Shear modulus [MPa]; EN 12090:2013	$1.0 \leq G_m \leq 2.0$	$0.3 \leq G_{\text{m}} \leq 2.0$	$1.0 \leq G_{\text{m}} \leq 2.0$		

^{*} Minimal value of all single values

according to ETAG 004, clause 5.2.4.1.2 test method (2).

^{***} Thermal insulation materials for mechanically fixed ETICS with profiles must circumferentially at the edges, 24 mm from the inner surface, get an approx. 3 mm wide and 13 to 18 mm deep groove cut-in at the factory.



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Annex 2: Anchors

All anchors with ETA according to EAD330196-01-0604¹ with characteristics having the description below shall be used in the mechanically fixed ETICS:

- plate diameter of anchor ≥ 60 mm resp. ≥ 90 mm or ≥ 140 mm
- plate stiffness ≥ 0.3 kN/mm
- load resistance of the anchor plate ≥ 1.0 kN

These characteristics and the characteristic tension resistance of the anchors shall be taken from the corresponding ETA.

The anchors listed in the Table in clause 1.2 with reference to the respective ETA shall be used in the mechanically fixed ETICS with profiles for fixing the horizontal profiles.

Trade name	ETA-number
WS 8 L	ETA-02/0019
ejotherm SDK U	ETA-04/0023
SDF-K plus	ETA-04/0064
ejotherm NK U	ETA-05/0009



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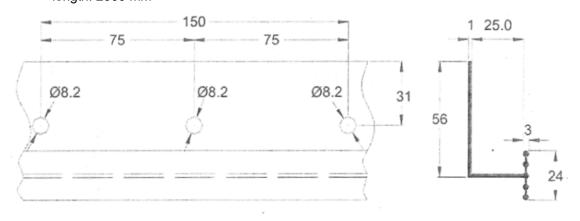
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Annex 3: Profiles

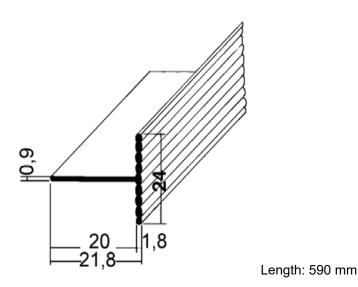
Aluminium (Al) profiles, EN AW-6060 T66 to EN 755-2: are to be used in the mechanically fixed ETICS with profiles.

The Pull-through resistance of fixings from profiles is ≥ 500 N.

Horizontal profile – "Halteleiste Alu" (dimensions in millimetres) length: 2000 mm



Vertical connection profile - "Verbindungsleiste Alu" (dimensions in millimetres)





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Annex 4: Reinforcement (glass fibre mesh) Characteristics (alkali resistance): Pass

	Description	Residual strength after ageing [N/mm]		Relative residual strength after ageing, of the strength in the as-delivered state [%]	
		Warp	Weft	Warp	Weft
WDVS-Gewebe Grob	Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 200 g/m² and mesh size of about 8 mm x 8 mm.	≥ 25	≥ 30	≥ 60	≥ 50

8.04.04-35/19 Z72934.19