



Technický a skúšobný ústav stavebný, n. o.
Building Testing and Research Institute
Studená 3
821 04 Bratislava
Slovak Republic
Phone: +421 2 49228101
E-mail: stemova@tsus.sk
Website: www.tsus.sk



European Technical Assessment

ETA 15/0460 – version 02
of 14/06/2021

General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: **Technický a skúšobný ústav stavebný, n. o.**

Trade name of the construction product

Baumit StarSystem EPS

Product family to which the construction product belongs

Product area code: 4
External Thermal Insulation Composite Systems with rendering on expanded polystyrene (EPS) for the use as external insulation to walls of buildings

Manufacturer

Baumit Beteteiligungen GmbH
Wopfing 156
A-2754 Waldegg
Austria
<http://www.baumit.at>

Manufacturing plant

Baumit Beteiligungen GmbH
Wopfing 156
A-2754 Waldegg
Austria

This European Technical Assessment contains

100 pages including 4 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 15/0460 – version 01, issued on 17/12/2015

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential Annex(es) referred to above). However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body – Technický a skúšobný ústav stavebný, n. o. (TSÚS). Any partial reproduction has to be identified as such.

Specific part

1 Technical description of the product

1.1 General

This product is an ETICS (External Thermal Insulation Composite System) with rendering – a kit comprising components which are factory-produced by the manufacturer or component suppliers. 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 boards to be bonded or 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 or more layers (site applied), one of which 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 ...) to treat details of ETICS (connections, apertures, corners, parapets, sills ...). 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 part of the kit.

1.2 Composition of the ETICS

Table 1 – Composition of the ETICS

	Components (see Annex 1 for further description, characteristics and performances of the components)	Coverage kg/m ²	Thickness mm
Insulation materials with associated methods of fixing	Bonded ETICS (partially or fully bonded) with supplementary anchors. According to ETA-holder's prescription the minimal bonded surface shall be at least 20 % (see Table 41 to 43). National application documents shall be taken into account. <ul style="list-style-type: none"> • Insulation products: Expanded polystyrene boards Baunit ProTherm (100)/Baunit Fassadendämmplatte EPS-F (100) Baunit ProTherm (120)/Baunit Fassadendämmplatte EPS-F (120) Baunit ProTherm (150)/Baunit Fassadendämmplatte EPS-F (150) Baunit StarTherm (100)/Baunit Fassadendämmplatte EPS-F plus (100) Baunit StarTherm (120)/Baunit Fassadendämmplatte EPS-F plus (120) Baunit StarTherm (150)/Baunit Fassadendämmplatte EPS-F plus (150) *Thermal insulation of thickness 301 mm until 420 mm is used only with anchors – types ejothem STR U/ejothem STR U 2G and Baunit StarTrack/Baunit KlebeAnker and BaunitKlebeAnker X1/ Baunit StarTrack X1	/	20 to 300 301-420*
	<ul style="list-style-type: none"> • Adhesives (type of cement –see page 10): 		
	<ul style="list-style-type: none"> - Baunit StarContact/Baunit KlebeSpachtel Preparation: mixing of 6 l to 7 l water/25 kg powder Composition: mineral powder, grey cement of types 4,5,6,7 base with silica sand and lime stone, dispersion powder, additives 	2,5 to 5,5 (powder)	
	<ul style="list-style-type: none"> - Baunit StarContact light/Baunit StarContact KBM-Fix/Baunit KlebeSpachtel KBM-Fix Preparation: mixing of 9 l to 10 l water/25 kg powder Composition: white cement of type 2, lime, mineral light aggregates, silicate sands, additives 	2,5 to 4,0 (powder)	
	<ul style="list-style-type: none"> - Baunit StarContact white/Baunit StarContact KBM/Baunit KlebeSpachtel KBM Preparation: mixing of 6 l water/25 kg powder Composition: mineral powder, white cement of types 1,2,3 base with silica sand and lime stone, dispersion powder, additives 	2,5 to 5,0 (powder)	
	<ul style="list-style-type: none"> - Baunit NivoFix/Baunit PaneloFix/Baunit WDVS-Kleber Preparation: mixing of 7 l to 8 l water/25 kg powder Composition: mineral powder, grey cement of types 4,5,6,7 base with silica sand and lime stone, dispersion powder, additives 	2,5 to 5,0 (powder)	
	<ul style="list-style-type: none"> - Baunit StarContact forte/Baunit DiskschichtKlebespachtel Preparation: mixing of 6 l to 8 l water/25 kg powder Composition: mineral powder, grey cement of type 4 base with silica sand and lime stone, dispersion powder, additives 	5,0 (powder)	
<ul style="list-style-type: none"> - Baunit SupraFix/Baunit SupraKleber Preparation: mixing of 4,5 l to 5,5 l water/25 kg powder Composition: mineral powder, grey cement of type 4 base 	2,5 to 5,0 (powder)		

	<p>with silica sand and lime stone, dispersion powder, additives</p> <p>Baunit StarContactSpeed/Baunit SpeedContact/Baunit SpeedKlebeSpachtel Preparation: mixing of 5,5 l to 6 l water/25 kg powder Composition: mineral powder, grey cement of type 4 base with silica sand and lime stone, dispersion powder, additives</p> <ul style="list-style-type: none"> • Supplementary anchors See Annex 2 for list of anchors including special anchor Baunit StarTrack/Baunit KlebeAnker and their product characteristics. 	<p>2,6 to 5,5 (powder)</p>	
--	--	--------------------------------	--

	<p>Mechanically fixed ETICS with anchors and supplementary adhesive (see Clause 2.2.8.3) for possible associations EPS/anchors). According to ETA-holder's prescription the minimal bonded surface shall be at least 20 % (see Table 41 to 43). National application documents shall be taken into account.</p> <ul style="list-style-type: none"> • Insulation products Expanded polystyrene boards Baumit ProTherm (100)/Baumit Fassadendämmplatte EPS-F (100) Baumit ProTherm (120)/Baumit Fassadendämmplatte EPS-F (120) Baumit ProTherm (150)/Baumit Fassadendämmplatte EPS-F (150) Baumit StarTherm (100)/Baumit Fassadendämmplatte EPS-F plus (100) Baumit StarTherm (120)/Baumit Fassadendämmplatte EPS-F plus (120) Baumit StarTherm (150)/Baumit Fassadendämmplatte EPS-F plus (150) <p>*Thermal insulation of thickness 301 mm until 420 mm is used only with anchors – types ejothem STR U/ejothem STR U 2G and Baumit StarTrack/Baumit KlebeAnker and Baumit KlebeAnker X1/Baumit StarTrack X1</p> <ul style="list-style-type: none"> • • Supplementary adhesives (type of cement – see page 10) <ul style="list-style-type: none"> - Baumit StarContact/Baumit KlebeSpachtel Preparation: mixing of 6 l to 7 l water/25 kg powder Composition: mineral powder, grey cement of types 4/5/6/7 base with silica sand and lime stone, dispersion powder, additives - Baumit StarContact light/Baumit StarContact KBM-Fix/Baumit KlebeSpachtel KBM-Fix Preparation: mixing of 9 l to 10 l water/25 kg powder Composition: white cement of type 2, lime, mineral light aggregates, silicate sands, additives - Baumit StarContact white/Baumit StarContact KBM/Baumit KlebeSpachtel KBM Preparation: mixing of 6 l water/25 kg powder Composition: mineral powder, white cement of types 1/2/3 base with silica sand and lime stone, dispersion powder, additives - Baumit NivoFix/Baumit PaneloFix/Baumit WDVS-Kleber Preparation: mixing of 7 l to 8 l water/25 kg powder Composition: mineral powder, grey cement of types 4/5/6/7 base with silica sand and lime stone, dispersion powder, additives - Baumit StarContact forte/Baumit DiskschichtKlebespachtel Preparation: mixing of 6 l to 8 l water/25 kg powder Composition: mineral powder, grey cement of type 4 base with silica sand and lime stone, dispersion powder, additives - Baumit SupraFix/Baumit SupraKleber Preparation: mixing of 4,5 l to 5,5 l water/25 kg powder Composition: mineral powder, grey cement of type 4 base with silica sand and lime stone, dispersion powder, additives - Baumit StarContactSpeed/Baumit SpeedContact/Baumit SpeedKlebeSpachtel Preparation: mixing of 5,5 l to 6 l water/25 kg powder Composition: mineral powder, grey cement of type 4 base 	<p>50 to 300 301 to 420*</p> <p>2,5 to 5,5 (powder)</p> <p>2,5 to 4,0 (powder)</p> <p>2,5 to 5,0 (powder)</p> <p>4,0 to 5,0 (powder)</p> <p>5,0 (powder)</p> <p>2,5 to 5,0 (powder)</p> <p>2,6 to 5,0 (powder)</p>	<p>/</p>
--	---	--	----------

	<p>with silica sand and lime stone, dispersion powder, additives</p> <ul style="list-style-type: none"> • Anchors See Annex 2 for list of anchors including special anchor Baunit StarTrack/Baunit KlebeAnker and their product characteristics. 		
<p>Base coats used onto insulation product of both EPS-EN 13163-TR100 and EPS-EN 13163-TR120 and EPS-EN 13163-TR150</p>	<ul style="list-style-type: none"> • Baunit StarContact/Baunit KlebeSpachtel Preparation: mixing of 6 l to 7 l water/25 kg powder Composition: mineral powder, grey cement of types 4,5,6,7 base with silica sand and lime stone, dispersion powder, additives Applicability: always with key coat 	4,0 to 5,0 (powder)	3,0 to 4,0
	<ul style="list-style-type: none"> • Baunit StarContact light/Baunit StarContact KBM-Fix/Baunit KlebeSpachtel KBM-Fix Preparation: mixing of 9 l to 10 l water/25 kg powder Composition: white cement of type 2, lime, mineral light aggregates, silicate sands, additives Applicability: always with key coat 	4,0 to 5,0 (powder)	3,0 to 4,0
	<ul style="list-style-type: none"> • Baunit StarContact white/Baunit StarContact KBM/ Baunit KlebeSpachtel KBM Preparation: mixing of 6 l water/25 kg powder Composition: mineral powder, white cement of types 1,2,3 base with silica sand and lime stone, dispersion powder, additives Applicability: optional with or without key coat 	4,0 to 5,0 (powder)	3,0 to 4,0
	<ul style="list-style-type: none"> • Baunit StarContactSpeed/Baunit SpeedContact/Baunit SpeedKlebeSpachtel Preparation: mixing of 5,5 l to 6 l water/25 kg powder Composition: mineral powder, grey cement of type 4 base with silica sand and lime stone, dispersion powder, additives Applicability: always with key coat 	4,0 to 5,0 (powder)	3,0 to 4,0
<p>Base coat used only onto insulation product of EPS-EN 13163-TR150</p>	<ul style="list-style-type: none"> • Baunit StarContact forte/Baunit DiskschichtKlebespachtel Preparation: mixing of 6 l to 8 l water/25 kg powder Composition: mineral powder, grey cement of type 4 base with silica sand and lime stone, dispersion powder, additives Applicability: always with key coat 	5,0 to 8,0 (powder)	5,0
	<ul style="list-style-type: none"> • Baunit EasyFlex/Baunit Spachtelmasse zementfrei/ Baunit Spachtelmasse zementfrei SPM58 Preparation: ready to use Composition: organic binders, fibres, sands, additives Applicability: optional with or without key coat 	3,0 to 3,5 (paste)	3,0 to 4,0
	<ul style="list-style-type: none"> • Baunit PowerFlex/Baunit FaserSpachtel/Baunit SilverFlex Preparation: ready to use Composition: organic binders, aramid fibres, sands, additives Applicability: optional with or without key coat 	3,0 to 3,5 (paste) 5,0 to 6,05 (paste)	3,0 to 4,0 5,0
<p>Glass fibre meshes</p>	<ul style="list-style-type: none"> • Standard glass fibre mesh: (glass fibres mesh with mesh size approx. 4 mm and 4 mm, mass per unit area: min. 145 g/m²): Baunit StarTex /Baunit Textilglasgitter/Baunit ProTex 	/	/
	<ul style="list-style-type: none"> • Standard glass fibre mesh: (glass fibres mesh with mesh size approx. 3,5 mm and 3,8 mm, mass per unit area: min. 160 g/m²): Baunit StarTex (160) 	/	/
<p>Key coats</p>	<ul style="list-style-type: none"> • Baunit UniPrimer/Baunit UniversalGrund ready to use pigmented liquid 	0,20 to 0,25	

	<ul style="list-style-type: none"> Baumit PremiumPrimer/Baumit Premium Primer DG27/ Baumit DecorGrundierung DG 27 ready to use pigmented liquid 	0,25	
Finishing coats	<ul style="list-style-type: none"> Ready to use pastes – silicate binder Baumit SilikatTop/Baumit SilikatPutz (particles size 1,5/2,0/3,0 mm), floated structure (particles size 2,0/3,0 mm), ribbed structure 	2,5 to 4,2	
	<ul style="list-style-type: none"> Ready to use pastes – silicate binder Baumit NanoporTop/Baumit NanoporPutz (particles size 1,5/2,0/3,0 mm), floated structure (particle size 2,0/3,0 mm), ribbed structure 	2,5 to 4,2	
	<ul style="list-style-type: none"> Ready to use pastes – silicone binder Baumit StarTop (particles size 1,5/2,0/3,0 mm), floated structure (particle size 2,0/3,0 mm), ribbed structure 	2,5 to 4,2	
	<ul style="list-style-type: none"> Ready to use pastes – silicone binder Baumit SilikonTop/Baumit SilikonPutz (particles size 1,5/2,0/3,0 mm), floated structure (particles size 2,0/3,0 mm), ribbed structure 	2,5 to 4,2	
	<ul style="list-style-type: none"> Ready to use pastes – silicone binder Baumit SiliporTop/Baumit SiliporPutz (particles size 1,5/2,0/3,0 mm), floated structure (particles size 2,0/3,0 mm), ribbed structure 	2,5 to 4,2	
	<ul style="list-style-type: none"> Ready to use pastes – acrylic binder Baumit GranoporTop/Baumit GranoporPutz (particles size 1,5/2,0/3,0 mm), floated structure (particles size 2,0/3,0 mm), ribbed structure 	2,5 to 4,1	
	<ul style="list-style-type: none"> Ready to use pastes – acrylic binder Baumit StyleTop/Baumit ArtlineTop/Baumit ArtlinePutz (particles size 1,5/2,0/3,0 mm), floated structure (particles size 2,0/3,0 mm), ribbed structure 	2,5 to 4,1	
	<ul style="list-style-type: none"> Ready to use pastes – acrylic binder Baumit PuraTop (particles size 1,5/2,0/3,0 mm), floated structure (particles size 2,0/3,0 mm), ribbed structure 	2,5 to 4,2	
	<ul style="list-style-type: none"> Powder product mixed with water – acrylic binder Baumit Fascina Special/Baumit Edelputz Spezial (particles size 1,0/2,0/3,0/4,0 mm), floated structure Preparation: mixing of 6,0 l to 7,5 l water/25 kg powder Composition: mineral powder, grey cement of type 7 base with silica sand, dispersion powder, additives 	2,2 to 5,5	
	<ul style="list-style-type: none"> Ready to use pastes – silicone and acrylic binder Baumit CreativTop (particles size 1,0 (Fine)/1,5 (Vario)/3,0 (Trend)/ 4,0 mm (Max)), modelling and floated structure 	2,9 to 6,2	
	<ul style="list-style-type: none"> Ready to use pastes – silicone and silicate binder Baumit StellaporTop (particles size 1,5/2,0/3,0 mm), floated structure (particles size 2,0/3,0 mm), ribbed structure 	2,5 to 4,2	
	<ul style="list-style-type: none"> Ready to use pastes – acrylic binder Baumit MosaikTop (particles size 2,0 mm), floated structure 	5,5	

	<ul style="list-style-type: none"> Ready to use pastes – acrylic binder Baumit MosakSuperfine (particles size 0,8 mm), floated structure 	2,7	
	<ul style="list-style-type: none"> Ready to use pastes – silicone and acrylic binder Baumit FineTop/Baumit SilikonFine/Baumit UniTopFine (particles size 1,0 mm), floated structure 	2,0	
	<ul style="list-style-type: none"> Ready to use pastes – silicone and acrylic binder Baumit NanoporFine/Baumit NanoporTop Fine (particles size 1,0 mm), floated structure 	2,0	
	<ul style="list-style-type: none"> Ready to use pastes – silicone binder Baumit StarTop Fine (particles size 1,0 mm), floated structure 	2,0	
	<ul style="list-style-type: none"> Ready to use pastes – acrylic binder Baumit PuraTop Fine (particles size 1,0 mm), floated structure 	2,0	
	<ul style="list-style-type: none"> Ready to use pastes – acrylic binder Baumit GranoporTop Fine/Baumit GranoporFine (particles size 1,0 mm), floated structure 	2,0	
Decorative coats/ plasters*	<ul style="list-style-type: none"> Ready to use pastes – silicone and acrylic binder Baumit CreativTop Silk / Baumit Creativ Top S-Fine (particles size 0,2 mm), floated structure 	1,8 to 4,0	0,5 to 2,0
	<ul style="list-style-type: none"> Ready to use pastes – silicone and acrylic binder Baumit CreativTop Pearl (particles size 0,5 mm), floated structure 	1,4	0,5 to 1,0
	<ul style="list-style-type: none"> Ready to use pastes – silicone binder Baumit FillTop/Baumit UniTop Fill (particles size 0,5 mm), floated structure 	1,4	0,5 to 1,0
	* To be used optionally with all types of finishing coats mentioned above.		
Decorative coats/paints**	<ul style="list-style-type: none"> Ready to use paint – silicate binder Baumit NanoporColor/Baumit NanoporFarbe 	0,5	
	<ul style="list-style-type: none"> Ready to use paint – silicone binder Baumit StarColor 	0,5	
	<ul style="list-style-type: none"> Ready to use paint – silicone binder Baumit SilikonColor/Baumit Silikon Farbe 	0,5	
	<ul style="list-style-type: none"> Ready to use paint – silicate binder Baumit SilikatColor/Baumit SilikatFarbe 	0,5	
	<ul style="list-style-type: none"> Ready to use paint – acrylic binder Baumit StyleColor/Baumit ArtlineFarbe 	0,5	
	<ul style="list-style-type: none"> Ready to use paint – acrylic binder Baumit PuraColor/Baumit ProColor 	0,5	
	<ul style="list-style-type: none"> Ready to use paint – acrylic binder Baumit ProColor 	0,5	
	<ul style="list-style-type: none"> Ready to use paint – acrylic binder Baumit GranoporColor/Baumit GranoporFarbe 	0,5	
	<ul style="list-style-type: none"> Ready to use paint – acrylic binder Baumit Metallic/Baumit Artline Metallic 	0,5	
	<ul style="list-style-type: none"> Ready to use paint – silicate binder Baumit Lasur/Baumit Artline Lasur 	0,5	

	<ul style="list-style-type: none"> • Ready to use paint – silicate binder Baumit Finish/Baumit Artline Finish 	0,5	
	<ul style="list-style-type: none"> • Ready to use paint – silicate binder Baumit Glitter/Baumit Artline Glitter 	0,5	
	** To be used optionally alone with all types of finishing coats mentioned above or with decorative plasters applying on finishing coats.		
Ancillary materials	Descriptions in accordance with 1.3.13 of EAD 040083-00-0404. Remain under the ETA-holder responsibilities.		

Cement types:

Cement Type 1	CEM I 52,5N white
Cement Type 2	CEM I 52,5R white
Cement Type 3	CEM I 42,5R white
Cement Type 4	CEM II/A-S 42,5R grey
Cement Type 5	CEM I 42,5R grey
Cement Type 6	CEM II/A-LL 42,5R grey
Cement Type 7	CEM I 52,5N grey

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

2.1 Intended use

This ETICS is intended for use as external insulation of buildings' walls. The walls are made of masonry (bricks, blocks, stones ...) or concrete (cast on site or as prefabricated panels). The characteristics of the walls shall be verified prior to use of the ETICS, especially regarding conditions for reaction to fire classifications and for fixing of the ETICS either by bonding or mechanically. The ETICS is designed to give the wall to which it is applied satisfactory thermal insulation.

The ETICS is made of non load-bearing construction elements. 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 effect of weathering.

The ETICS can be used on new or existing (retrofit) vertical walls. It can also be used on horizontal or inclined surfaces which are not exposed to precipitation.

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

The choice of the method of fixing depends on the characteristics of the substrate, which could need preparation and shall be done in accordance with the national instructions.

The provisions made in this European Technical Assessment (ETA) are based on an assumed intended working life of at least 25 years, provided that the conditions laid down in Clauses 4.2, 5.1 and 5.2 for the packaging, transport, storage and installation as well as appropriate use, maintenance and repair are met. The indications given as to the working life cannot be interpreted as a guarantee given by the manufacturer or the Technical Assessment Body, but should only be regarded as a means for choosing the appropriate products in relation to the expected economically reasonable working life of the works.

The ETICS belong to Category S/W2, according to EOTA Technical Report No. 034.

2.2 Manufacturing

The European Technical Assessment is issued for the ETICS on the basis of agreed data/information, deposited with the Technical Assessment Body "Building Testing and Research Institute", which identified the ETICS that has been assessed and judged. Changes to the ETICS or production process, which could result in this deposited data/information being incorrect, shall be notified to the Technical Assessment Body Technický a skúšobný ústav stavebný, n. o. (TSÚS) before the changes are introduced. The Technical Assessment Body Technický a skúšobný ústav stavebný, n. o. will decide whether or not such changes affect the ETA and consequently the validity of the CE marking on the basis of the ETA and if so whether further assessment or alternations to the ETA, shall be necessary.

2.3 Design and installation

The installation instructions including special installation techniques and provisions for the qualifications 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.

2.4 Packaging, 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(s) to ensure that this information is made known to the concerned people.

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

Necessary repairs should be performed as soon as the need has been identified.

It is important to be able to carry out maintenance as far as possible using readily available products and equipment, without spoiling appearance. Only products which are compatible with the ETICS shall be used.

The information on use, maintenance and repair is given in the manufacturer's technical documentation. It is responsibility of the manufacturer(s) to ensure that these provisions are easily accessible to the concerned people.

3 Performance of the product and reference to the methods used for its assessment

3.0 The performances of the kit as described in this clause are valid provided that the components of the kit comply with Annexes 1 to 3.

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire (EAD 040083-00-0404 – Clause 2.2.1.1, EN 13501-1)

The reaction to fire was determined according to EAD 040083-0404, Clause 2.2.1.1. The product as defined under Clause 1.1 reached the following classification valid for configuration stated in Tables 2a to Table 5.

Table 2a – Classification of reaction to fire for ETICS

Configuration 1	Max. organic content	Flame retardant content	Euroclass according to EN 13501-1
<p>Adhesives: Baunit StarContact Baunit StarContact light Baunit StarContact white Baunit NivoFix Baunit StarContact forte Baunit SupraFix Baunit StarContact Speed Baunit Dispofix (tested)</p>			
<p>Tested EPS (EPS-EN 13163-TR100) tested thickness: 200 mm No limitation for thickness Color: white, $\lambda_D=0,034$ W/(m.k) reaction to fire: E density 25 kg/m³</p>			
<p>Base coats: Baunit StarContact Baunit StarContact light Baunit StarContact white Baunit StarContact forte Baunit StarContact Speed Baunit EasyFlex Baunit PowerFlex (tested)</p>	<p>Base coat: 13,7 % \pm 0,6 abs</p>	<p>EPS: no information</p>	
<p>Glass fibre mesh: Baunit StarTex (tested) mass per unit area: from 145 g/m² \pm 8 %</p>	<p>Finishing coat: (10,9 \pm 10) % rel.</p>	<p>Base coats (Baunit EasyFlex, Baunit PowerFlex): 10 %</p>	
<p>Key coats: Baunit UniPrimer Baunit PremiumPrimer (tested)</p>	<p>Decorative coat (plaster): (9,1 \pm 10) % rel.</p>	<p>Other base coats: 0 %</p>	
<p>Finishing coats: Baunit SilikatTop 1,5 Baunit NanoporTop 1,5 Baunit StarTop 1,5 Baunit PuraTop 1,5 Baunit SilikonTop 1,5 Baunit Silipor Top 1,5 Baunit GranoporTop 1,5 Baunit StyleTop 1,5 Baunit Fascina Special 1,0 Baunit CreativTop 1,0/1,5 Baunit StellaporTop 1,5 Baunit MosaikSuperfine Baunit FineTop Baunit NanoporFine Baunit StarTop Fine Baunit PuraTop Fine (tested) Baunit GranopoFine</p>	<p>Decorative coat (Paint): (98,3 \pm 10) % rel.</p>	<p>Finishing coat: 0 %</p>	
<p>Decorative coats/plasters: Baunit CreativTop Silk Baunit CreativTop Pearl Baunit FillTop</p>			

Decorative coats/paints: Baunit NanoporColor Baunit StarColor Baunit SilikonColor Baunit SilikatColor Baunit StyleColor Baunit PuraColor Baunit ProColor Baunit GranoporColor Baunit Metallic Baunit Lasur Baunit Finish Baunit Glitter			
---	--	--	--

Table 2b – Classification of reaction to fire for ETICS

Configuration 2	Max. organic content	Flame retardant content	Euroclass according to EN 13501-1
Adhesives: Baunit StarContact Baunit StarContact light Baunit StarContact white Baunit NivoFix Baunit StarContact forte Baunit SupraFix Baunit StarContact Speed			
Tested EPS (EPS-EN 13163-TR150) tested thickness: 200 mm No limitation for thickness Color: grey, $\lambda_D=0,031$ W/(m.k) reaction to fire: E density 15,7 kg/m ³			
Base coats: Baunit StarContact Baunit StarContact light Baunit StarContact white Baunit StarContact forte Baunit StarContact Speed Baunit EasyFlex Baunit PowerFlex	Base coat: 13,7 % ± 0,6 abs Finishing coat: (10,9 ± 10) % rel. Decorative coat (plaster): (9,1 ± 10) % rel.	EPS: no information Base coats (Baunit EasyFlex, Baunit PowerFlex): 10 % Other base coats: 0 %	B-s1, d0
Glass fibre mesh: Baunit StarTex Baunit StarTex (160) tested in configuration mass per unit area: from 145 g/m ² ± 8 % to 160 g/m ² ± 8%	Decorative coat (Paint): (98,3 ± 10) % rel.	Finishing coat: 0 %	
Key coats: Baunit UniPrimer Baunit PremiumPrimer			
Finishing coats: Baunit Fascina Special 4,0 mm Baunit CreativTop Max (4,0 mm grain size)			
Decorative coats/plasters: Baunit CreativTop Silk Baunit CreativTop Pearl Baunit FillTop			

Decorative coats/paints: Baunit NanoporColor Baunit StarColor Baunit SilikonColor Baunit SilikatColor Baunit StyleColor Baunit PuraColor Baunit ProColor Baunit GranoporColor Baunit Metallic Baunit Lasur Baunit Finish Baunit Glitter			
---	--	--	--

Table 2c – Classification of reaction to fire for ETICS

Configuration 3	Max. organic content	Flame retardant content	Euroclass according to EN 13501-1
Adhesives: Baunit StarContact (tested) Baunit StarContact KBM-Fix Baunit StarContact white Baunit NivoFix			
Tested EPS 70 (EPS-EN 13163-TR100) tested thickness: 200 mm No limitation for thickness reaction to fire: E density: 17,6 kg/m ³			
Base coats: Baunit StarContact Baunit StarContact KBM-Fix Baunit StarContact white Baunit PowerFlex (old name Baunit SilverFlex) (tested) Baunit EasyFlex	Base coat: 13,7 % ± 0,6 abs Finishing coat: (10,9 ± 10) %	Base coat: 0 % Finishing coat: 0 %	B-s1, d0
Glass fibre mesh: Baunit StarTex Baunit StarTex (160) tested in configuration mass per unit area: 145 g/m ² ± 8 % to 160 g/m ² ± 8%			
Key coats: Baunit UniversalGrund Baunit PremiumPrimer (tested)			

Finishing coats: Baunit SilikatTop Baunit NanoporTop Baunit StarTop Baunit PuraTop Baunit SilikonTop Baunit Silipor Top Baunit GranoporTop Baunit StyleTop (tested 1,5 mm and 3 mm) Baunit Fascina Special Baunit CreativTop Baunit StellaporTop Baunit MosaikTop Baunit MosaikSuperfine Baunit FineTop Baunit NanoporTop Fine Baunit StarTop Fine Baunit PuraTop Fine Baunit Granopor Fine			
--	--	--	--

Table 3 – Classification of reaction to fire for ETICS

Configuration 4	Max. organic content	Flame retardant content	Euroclass according to EN 13501-1
<p>Adhesives: Baunit StarContact Baunit StarContact light Baunit StarContact white Baunit NivoFix Baunit StarContact forte Baunit SupraFix (tested) Baunit StarContact Speed</p>			
<p>Tested EPS (EPS-EN 13163-TR150) tested thickness: 200 mm No limitation for thickness Color: grey, $\lambda_D=0,031$ W/(m.k) reaction to fire: E density 15,7 kg/m³</p>			
<p>Base coats: Baunit StarContact Baunit StarContact light Baunit StarContact white Baunit StarContact forte Baunit StarContact Speed Baunit EasyFlex Baunit PowerFlex (old name Baunit SilverFlex) (tested)</p>	<p>Base coat: 13,7 % \pm 0,6 abs</p>	<p>EPS: no information</p>	
<p>Glass fibre mesh: Baunit StarTex Baunit StarTex (160) tested in configuration mass per unit area: from 145 g/m² \pm 8 % to 160 g/m² \pm 8%</p>	<p>Finishing coat: (10,9 \pm 10) % rel. Decorative coat (plaster): (9,1 \pm 10) % rel. Decorative coat (Paint): (98,3 \pm 10) % rel.</p>	<p>Base coats (Baunit EasyFlex, Baunit Power Flex): 10 % Other base coats: 0 % Finishing coat: 0 %</p>	B-s2, d0
<p>Key coats: Baunit UniPrimer Baunit PremiumPrimer (tested)</p>			
<p>Finishing coats: Baunit SilikatTop Baunit NanoporTop Baunit StarTop Baunit PuraTop Baunit SilikonTop Baunit Silipor Top Baunit GranoporTop Baunit StyleTop (tested 1 mm and 4 mm) Baunit Fascina Special Baunit CreativTop Baunit StellaporTop Baunit MosaikTop Baunit MosaikSuprefine Baunit FineTop Baunit NanoporFine Baunit StarTop Fine Baunit PuraTop Fine Baunit GranopoFine</p>			

Decorative coats/plasters: Baunit CreativTop Silk Baunit CreativTop Pearl Baunit FillTop			
Decorative coats/paints: Baunit NanoporColor Baunit StarColor Baunit SilikonColor Baunit SilikatColor Baunit StyleColor Baunit PuraColor Baunit ProColor Baunit GranoporColor Baunit Metallic Baunit Lasur Baunit Finish Baunit Glitter (tested)			

Table 4 – Classification of reaction to fire for ETICS

Configuration 5	Max. organic content	Flame retardant content	Euroclass according to EN 13501-1
Adhesives: Baunit StarContact Baunit StarContact light Baunit StarContact white Baunit NivoFix Baunit StarContact forte Baunit SupraFix Baunit StarContact Speed Baunit Dispofix (tested)			
Tested EPS (EPS-EN 13163-TR100) tested thickness: 200 mm No limitation for thickness Color: white, $\lambda_D=0,034$ W/(m.k) reaction to fire: E density 25 kg/m ³	Base coat: 13,7 % \pm 0,6 abs Finishing coat: (10,9 \pm 10) % rel.	EPS: no information Base coats (Baunit EasyFlex, Baunit PowerFlex): 10 %	C-s1, d0
Base coats: Baunit StarContact Baunit StarContact light Baunit StarContact white Baunit StarContact forte Baunit StarContact Speed Baunit EasyFlex Baunit PowerFlex (tested)	Decorative coat (plaster): (9,1 \pm 10) % rel. Decorative coat (Paint): (98,3 \pm 10) % rel.	Other base coats: 0 % Finishing coat: 0 %	
Glass fibre mesh: Baunit StarTex (tested) mass per unit area: from 145 g/m ² \pm 8 %			
Key coats: Baunit UniPrimer Baunit PremiumPrimer (tested)			

Finishing coats: Baunit SilikatTop 2,0/3,0 Baunit NanoporTop 2,0/3,0 Baunit StarTop 2,0/3,0 Baunit PuraTop 2,0/3,0 (tested 3 mm) Baunit SilikonTop 2,0/3,0 Baunit Silipor Top 2,0/3,0 Baunit GranoporTop 2,0/3,0 Baunit StyleTop 2,0/3,0 Baunit Fascina Special 2,0/3,0 Baunit CreativTop 3,0 Baunit StellaporTop 2,0/3,0 Baunit MosaikTop			
Decorative coats/plasters: Baunit CreativTop Silk Baunit CreativTop Pearl Baunit FillTop			
Decorative coats/paints: Baunit NanoporColor Baunit StarColor Baunit SilikonColor Baunit SilikatColor Baunit StyleColor Baunit PuraColor Baunit ProColor Baunit GranoporColor Baunit Metallic Baunit Lasur Baunit Finish Baunit Glitter			

Table 5a – Classification of reaction to fire for ETICS

No test reports (NPA)

Configuration 6	Max. organic content	Flame retardant content	Euroclass according to EN 13501-1
Adhesives: Baunit StarContact Baunit StarContact light Baunit StarContact white Baunit NivoFix Baunit StarContact forte Baunit SupraFix Baunit StarContact Speed Baunit Dispofix EPS (EPS-EN 13163-TR100 and EPS-EN 13163-TR150) thickness: (50-200) mm Color: white, $\lambda_D=0,034$ W/(m.k) reaction to fire: E density 25 kg/m ³	Base coat: 13,7 % \pm 0,6 abs Finishing coat: 9,7 % rel. Decorative coat (plaster): (9,1 \pm 10) % rel. Decorative coat (Paint): (98,3 \pm 10) % rel.	EPS: no information Base coats (Baunit EasyFlex, Baunit PowerFlex): 10 % Other base coats: 0 % Finishing coat: 0 %	No performance assessed

Base coats: Baunit StarContact Baunit StarContact light Baunit StarContact white Baunit StarContact forte Baunit StarContact Speed Baunit EasyFlex Baunit PowerFlex			
Glass fibre mesh: Baunit StarTex mass per unit area: from 145 g/m ² ± 8 %			
Key coats: Baunit UniPrimer Baunit PremiumPrimer			
Finishing coats: Baunit Fascina Special 4,0 mm Baunit CreativTop Max 4,0 mm			
Decorative coats/plasters: Baunit CreativTop Silk Baunit CreativTop Pearl Baunit FillTop			
Decorative coats/paints: Baunit NanoporColor Baunit StarColor Baunit SilikonColor Baunit SilikatColor Baunit StyleColor Baunit PuraColor Baunit ProColor Baunit GranoporColor Baunit Metallic Baunit Lasur Baunit Finish Baunit Glitter			

Table 5b – Classification of reaction to fire for ETICS

Configuration 7	Max. organic content	Flame retardant content	Euroclass according to EN 13501-1
Adhesives: Baunit StarContact Baunit StarContact KBM-Fix Baunit StarContact white Baunit NivoFix Baunit StarContact Forte EPS (EN 13163-TR100 and EPS EN 13163-TR150) EPS from 50 mm to 200 mm Base coat: Baunit StarContact forte thickness 5 mm Key coats: Baunit UniPrimer Baunit PremiumPrimer	Base coat: 2,8 % ± 0,6 abs Finishing coat: (10,9 ± 10) %	Base coat: 0 % Finishing coat: 0 %	No performance assessed

Finishing coats: Baunit SilikatTop Baunit NanoporTop Baunit SilikonTop Baunit Silpor Top Baunit GranoporTop Baunit StyleTop Baunit StarTop Baunit PuraTop Baunit Fascina Special Baunit CreativTop Baunit Stellapor Top Baunit NanoporTop Fine Baunit StarTop Fine Baunit PuraTop Fine Baunit Granopor Fine Baunit FineTop			
--	--	--	--

For the SBI configuration this ETICS is mounted directly to a calcium silicate plasterboard substrate of reaction to fire classification A2-s1, d0 with a minimum density of $800 \text{ kg/m}^2 \pm 10 \text{ kg/m}^2$.

The installation of the ETICS was carried out by the manufacturer (holder of assessment) following the manufacturer's specifications (instruction sheet) using a single layer of the glass fibre mesh all over the test specimen (no overlapping glass fibre mesh).

The test specimens were prefabricated and did not include any joints. The panel edges were rendered except the upper and bottom edges.

Anchors were not included in the tested ETICS as they have no influence on the test result.

Please note that in some member states the classification on the basis of SBI test is not accepted. Additional tests might be required e.g. large scale tests to demonstrate compliance with a member state's fire regulation.

Further the edges of the ETICS always have to be protected against fire.

NOTE A European reference fire scenario has not been laid down for facades. In some Member States, the classification of ETICS according to EN 13501-1 might not be sufficient for the use in facades. An additional assessment of ETICS according to national provisions (e.g. on the basis of a large scale test) might be necessary to comply with Member State regulations, until the existing European classification system has been completed.

3.1.2 Reaction to fire of thermal insulation material (EAD 040083-00-0404 – Clause 2.2.1.2, EN 13501-1)

The reaction to fire of thermal insulations covered by ETA is class E.

3.1.3 Façade fire performance (EAD 040083-00-0404 – Clause 2.2.2, EN 13501-1)

No performance assessed.

3.2 Hygiene, health and environment (BWR 3)

3.2.1 Content, emission and/or release of dangerous substances – leachable substances (EAD 040083-00-0404 – Clause 2.2.4)

No performance assessed.

3.2.2 Water absorption of the base coat and the rendering system (EAD 004083-00-0404 – Clause 2.2.5.1)

Table 6 – Water absorption of base coats

		Water absorption in kg/m ² Mean value	
		After 1 hour	After 24 hours
Base coat	Baunit StarContact (3 mm)	0,040	0,322
	Baunit StarContact light (3 mm)	0,040	0,295
	Baunit StarContact white (3 mm) Baunit StarContact white (5 mm)	0,041(3 mm) 0,014 (5 mm)	0,289 (3 mm) 0,183 (5 mm)/
	Baunit StarContact forte (5 mm)	0,050	0,364
	Baunit StarContact Speed (3 mm)	0,046	0,308
	Baunit EasyFlex (3 mm)	0,052	0,340
	Baunit PowerFlex (3 mm)	0,055	0,327

Table 7 – Water absorption of rendering coats

Base coat Baumit StarContact (thickness 3 mm)		Water absorption in kg/m ² Mean value	
		After 1 hour	After 24 hours
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	0,065	0,439
	Baumit NanoporTop	0,066	0,441
	Baumit StarTop	0,068	0,370
	Baumit SilikonTop	0,050	0,308
	Baumit SiliporTop	0,055	0,324
	Baumit GranoporTop	0,061	0,312
	Baumit StyleTop	0,051	0,333
	Baumit PuraTop	0,059	0,300
	Baumit Fascina Special	0,090	0,43
	Baumit CreativTop	0,063	0,468
	Baumit StellaporTop	0,059	0,355
	Baumit MosaikTop	0,094	0,470
	Baumit Mosaik Superfine	0,094	0,470
	Baumit FineTop	0,055	0,391
	Baumit NanoporFine	0,068	0,453
	Baumit StarTop Fine	0,068	0,370
Baumit PuraTop Fine	0,059	0,300	
Baumit GranoporFine	0,063	0,338	

Table 8 – Water absorption of rendering coats

Base coat Baunit StarContact light (thickness 3 mm)		Water absorption in kg/m² Mean value	
		After 1 hour	After 24 hours
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baunit SilikatTop	0,065	0,434
	Baunit NanoporTop	0,061	0,430
	Baunit StarTop	0,060	0,356
	Baunit SilikonTop	0,053	0,319
	Baunit SiliporTop	0,051	0,334
	Baunit GranoporTop	0,060	0,311
	Baunit StyleTop	0,052	0,320
	Baunit PuraTop	0,075	0,205
	Baunit Fascina Special	0,099	0,473
	Baunit CreativTop	0,060	0,421
	Baunit StellaporTop	0,066	0,350
	Baunit MosaikTop	0,095	0,460
	Baunit Mosaik Superfine	0,095	0,460
	Baunit FineTop	0,057	0,420
	Baunit NanoporFine	0,070	0,467
	Baunit StarTop Fine	0,060	0,356
Baunit PuraTop Fine	0,075	0,205	
Baunit GranoporFine	0,063	0,347	

Table 9 – Water absorption of rendering coats

Base coat Baumit StarContact white (thickness 3 mm)		Water absorption in kg/m ² Mean value	
		After 1 hour	After 24 hours
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit SilikatTop	0,063	0,431
	Baumit NanoporTop	0,061	0,438
	Baumit StarTop	0,065	0,388
	Baumit SilikonTop	0,049	0,334
	Baumit SiliporTop	0,086	0,447
	Baumit GranoporTop	0,094	0,432
	Baumit StyleTop	0,052	0,330
	Baumit PuraTop	0,060	0,320
	Baumit Fascina Special	0,050	0,328
	Baumit CreativTop	0,063	0,279
	Baumit StellaporTop	0,088	0,463
	Baumit MosaikTop	0,060	0,411
	Baumit Mosaik Superfine	0,060	0,411
	Baumit FineTop	0,054	0,387
	Baumit NanoporFine	0,067	0,455
	Baumit StarTop Fine	0,065	0,388
Baumit PuraTop Fine	0,063	0,279	
Baumit GranoporFine	0,061	0,330	

Table 10 – Water absorption of rendering coats

Base coat Baumit StarContact forte (thickness 5 mm)		Water absorption in kg/m ² Mean value	
		After 1 hour	After 24 hours
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	0,060	0,402
	Baumit NanoporTop	0,060	0,409
	Baumit StarTop	0,070	0,358
	Baumit SilikonTop	0,049	0,330
	Baumit SiliporTop	0,051	0,333
	Baumit GranoporTop	0,052	0,348
	Baumit StyleTop	0,049	0,340
	Baumit PuraTop	0,072	0,290
	Baumit Fascina Special	0,087	0,429
	Baumit CreativTop	0,055	0,409
	Baumit StellaporTop	0,053	0,308
	Baumit MosaikTop	0,090	0,453
	Baumit Mosaik Superfine	0,090	0,453
	Baumit FineTop	0,052	0,368
	Baumit NanoporFine	0,060	0,467
	Baumit StarTop Fine	0,070	0,358
Baumit PuraTop Fine	0,072	0,290	
Baumit GranoporFine	0,053	0,401	

Table 11 – Water absorption of rendering coats

Base coat Baumit StarContact Speed (thickness 3 mm)		Water absorption in kg/m ² Mean value	
		After 1 hour	After 24 hours
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	0,068	0,424
	Baumit NanoporTop	0,064	0,409
	Baumit StarTop	0,064	0,329
	Baumit SilikonTop	0,055	0,327
	Baumit SiliporTop	0,054	0,321
	Baumit GranoporTop	0,057	0,308
	Baumit StyleTop	0,053	0,316
	Baumit PuraTop	0,071	0,197
	Baumit Fascina Special	0,100	0,460
	Baumit CreativTop	0,063	0,400
	Baumit StellaporTop	0,063	0,327
	Baumit MosaikTop	0,090	0,458
	Baumit Mosaik Superfine	0,090	0,458
	Baumit FineTop	0,053	0,390
	Baumit NanopoFine	0,065	0,438
	Baumit StarTop Fine	0,064	0,329
Baumit PuraTop Fine	0,071	0,197	
Baumit GranoporFine	0,060	0,329	

Table 12 – Water absorption of rendering coats

Base coat Baumit EasyFlex (thickness 3 mm)		Water absorption in kg/m ² Mean value	
		After 1 hour	After 24 hours
Rendering systems: base coat + finishing coats indicated hereafter.	Baumit SilikatTop	0,061	0,462
	Baumit NanoporTop	0,064	0,449
	Baumit StarTop	0,070	0,380
	Baumit SilikonTop	0,054	0,364
	Baumit SiliporTop	0,056	0,401
	Baumit GranoporTop	0,056 ²	0,378
	Baumit StyleTop	0,050	0,379
	Baumit PuraTop	0,081	0,297
	Baumit Fascina Special	0,092	0,472
	Baumit CreativTop	0,059	0,422
	Baumit StellaporTop	0,063	0,381
	Baumit MosaikTop	0,098	0,470
	Baumit Mosaik Superfine	0,098	0,470
	Baumit FineTop	0,060	0,411
	Baumit NanoporFine	0,069	0,470
	Baumit StarTop Fine	0,070	0,380
Baumit PuraTop Fine	0,081	0,297	
Baumit GranoporFine	0,058	0,380	

Table 13 – Water absorption of rendering coats

Base coat Baumit PowerFlex (thickness 3 mm)		Water absorption in kg/m ² Mean value	
		After 1 hour	After 24 hours
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit SilikatTop	0,060	0,451
	Baumit NanoporTop	0,064	0,453
	Baumit StarTop	0,067	0,371
	Baumit SilikonTop	0,075	0,266
	Baumit SiliporTop	0,052	0,359
	Baumit GranoporTop	0,055	0,397
	Baumit StyleTop	0,053	0,366
	Baumit PuraTop	0,053	0,360
	Baumit Fascina Special	0,091	0,466
	Baumit CreativTop	0,060	0,418
	Baumit StellaporTop	0,060	0,369
	Baumit MosaikTop	0,092	0,453
	Baumit Mosaik Superfine	0,092	0,453
	Baumit FineTop	0,058	0,400
	Baumit NanoporFine	0,064	0,429
	Baumit StarTop Fine	0,067	0,371
Baumit PuraTop Fine	0,075	0,266	
Baumit GranoporFine	0,058	0,365	

3.2.3 Water absorption of the thermal insulation product (EAD 040083-00-0404 – Clause 2.2.5.2)

The maximum value of water absorption of thermal insulation covered by ETA is 0,1 kg/m² after 24 hours.

3.2.4 Water-tightness of the ETICS: Hygrothermal behaviour (EAD 040083-00-0404 – Clause 2.2.6)

Hygrothermal cycles have been performed on a rig. None of the following defects occurred during the testing:

- blistering or peeling of any finishing coat;

- failure or cracking associated with joints between insulation product boards or profiles fitted with ETICS;
- detachment of render coat;
- cracking allowing water penetration to the insulation layer (normally not bigger than 0,2 mm).

The ETICS is so assessed resistant to hygrothermal cycles, it means ETICS passed the test without defects.

3.2.5 Water-tightness of the ETICS: Freeze-thaw behaviour (EAD 040083-00-0404 – Clause 2.2.7)

- The ETICS is freeze-thaw resistant as the water absorption of all reinforced base coats and rendering systems are less than 0,5 kg/m² after 24 hours. Test for freeze-thaw behaviour has not been required.

3.2.6 Impact resistance (EAD 040083-00-0404 – Clause 2.2.8)

Performance is stated by level expressed by Category I, II or III. The resistance to hard body impacts (3 Joules and 10 Joules) for rendering systems leads to the following use categories (see Tables 14 to 20). Tests have been performed on small samples.

Diameter of the impact is no performance assessed.

The presence of any micro cracks or cracks, at the impact point and at the circumference is no performance assessed.

Table 14 – Use categories for ETICS according to impact resistance

Baumit StarContact + EPS board (EN 13163-TR100)		Single standard mesh	Double standard mesh
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	Category II	Category I
	Baumit NanoporTop		
	Baumit StarTop		
	Baumit SilikonTop		
	Baumit SiliporTop		
	Baumit GranoporTop		
	Baumit StyleTop		
	Baumit PuraTop	Category III	Category II
	Baumit Fascina Special 1,0 mm	Category II	Category I
	Baumit Fascina Special 2,0 mm to 4,0 mm		
Baumit CreativTop			
Baumit StellaporTop			
	Baumit MosaikTop		

	Baunit Mosaik Superfine	Category III	Category II
	Baunit FineTop		
	Baunit NanoporFine		
	Baunit StarTop Fine		
	Baunit PuraTop Fine		
	Baunit GranoporFine		

Table 15 – Use categories for ETICS according to impact resistance

Baunit StarContact light + EPS board (EN 13163-TR100)		Single standard mesh	Double standard mesh
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baunit SilikatTop	Category II	Category I
	Baunit NanoporTop		
	Baunit StarTop		
	Baunit SilikonTop		
	Baunit SiliporTop		
	Baunit GranoporTop		
	Baunit StyleTop		
	Baunit PuraTop		
	Baunit Fascina Special 1,0 mm	Category III	Category II
	Baunit Fascina Special 2,0 mm to 4,0 mm	Category II	Category I
	Baunit CreativTop		
	Baunit StellaporTop		
	Baunit MosaikTop	Category III	Category II
	Baunit Mosaik Superfine		
	Baunit FineTop		
	Baunit NanoporFine		
	Baunit StarTop Fine		
Baunit PuraTop Fine			
Baunit GranoporFine			

Table 16 – Use categories for ETICS according to impact resistance

Baumit StarContact white + EPS board (EN 13163-TR100)		Single standard mesh	Double standard mesh
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit SilikatTop	Category II	Category I
	Baumit NanoporTop		
	Baumit StarTop		
	Baumit SilikonTop		
	Baumit SiliporTop		
	Baumit GranoporTop		
	Baumit StyleTop		
	Baumit PuraTop		
	Baumit Fascina Special 1,0 mm	Category III	Category II
	Baumit Fascina Special 2,0 mm to 4,0 mm	Category II	Category I
	Baumit CreativTop		
	Baumit StellaporTop		
	Baumit MosaikTop	Category III	Category II
	Baumit Mosaik Superfine		
	Baumit FineTop		
	Baumit NanoporFine		
Baumit StarTop Fine			
Baumit PuraTop Fine	Category III	Category II	
Baumit GranoporFine			

Table 17 – Use categories for ETICS according to impact resistance

Baumit StarContact forte (thickness 5 mm) + EPS board (EN 13163-TR100)	Single standard mesh		
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	Category I	
	Baumit NanoporTop		
	Baumit StarTop		
	Baumit SilikonTop		
	Baumit SiliporTop		
	Baumit GranoporTop		
	Baumit StyleTop		
	Baumit PuraTop		
	Baumit Fascina Special 1,0 mm	Category II	
	Baumit Fascina Special 2,0 mm to 4,0 mm	Category I	
	Baumit CreativTop		
	Baumit StellaporTop		
	Baumit MosaikTop		
	Baumit Mosaik Superfine	Category II	
	Baumit FineTop		
	Baumit NanoporFine		
	Baumit StarTop Fine		
Baumit PuraTop Fine			
Baumit GranoporFine			

Table 18 – Use categories for ETICS according to impact resistance

Baumit StarContact Speed (thickness 3 mm) + EPS board (EN 13163-TR100)	Single standard mesh	Double standard mesh			
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	Category II	Category I		
	Baumit NanoporTop				
	Baumit StarTop				
	Baumit SilikonTop				
	Baumit SiliporTop				
	Baumit GranoporTop				
	Baumit StyleTop				
	Baumit PuraTop				
	Baumit Fascina Special 1,0 mm			Category III	Category II
	Baumit Fascina Special 2,0 mm to 4,0 mm			Category II	Category I
Baumit CreativTop					
Baumit StellaporTop					
Baumit MosaikTop					
Baumit Mosaik Superfine	Category III	Category II			
Baumit FineTop					
Baumit NanoporFine					
Baumit StarTop Fine					
Baumit PuraTop Fine					
Baumit GranoporFine					

Table 19 – Use categories for ETICS according to impact resistance

Baumit EasyFlex (thickness 3 mm) + EPS board (EN 13163-TR100)	Single standard mesh	Double standard mesh	
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit SilikatTop	Category I	Category I
	Baumit NanoporTop		
	Baumit StarTop		
	Baumit SilikonTop		
	Baumit SiliporTop		
	Baumit GranoporTop		
	Baumit StyleTop		
	Baumit PuraTop		
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit Fascina Special 1,0 mm	Category II	Category I
	Baumit CreativTop		
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit Fascina Special 2,0 mm to 4,0 mm	Category I	Category I
	Baumit StellaporTop		
	Baumit MosaikTop		
	Baumit Mosaik Superfine		
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit FineTop	Category II	Category I
	Baumit NanoporFine		
	Baumit StarTop Fine		
	Baumit PuraTop Fine		
	Baumit GranoporFine		

Table 20 – Use categories for ETICS according to impact resistance

Baumit PowerFlex (thickness 3 mm) + EPS board (EN 13163-TR100)		Single standard mesh	Double standard mesh
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit SilikatTop	Category I	Category I
	Baumit NanoporTop		
	Baumit StarTop		
	Baumit SilikonTop		
	Baumit SiliporTop		
	Baumit GranoporTop		
	Baumit StyleTop		
	Baumit PuraTop	Category II	Category I
	Baumit Fascina Special 1,0 mm		
	Baumit CreativTop	Category I	Category I
	Baumit Fascina Special 2,0 mm to 4,0 mm		
	Baumit StellaporTop		
	Baumit MosaikTop	Category II	Category I
	Baumit Mosaik Superfine		
	Baumit FineTop		
	Baumit NanoporFine		
	Baumit StarTop Fine		
	Baumit PuraTop Fine		
Baumit GranoporFine			

3.2.7 Water vapour permeability (EAD 040083-00-0404 – Clause 2.2.9)

ETICS is resistant to water vapour diffusion of the rendering system ($s_d \leq 2,0$ m). The mean values s_d and thicknesses of rendering systems (THR) are stated for the specified rendering systems in below Tables.

Table 21 – Water vapour permeability of rendering systems

Baumit StarContact (thickness 3 mm)		Equivalent air thickness s_d (m)
Rendering systems: base coat + key coat according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,538), THR is 6 mm
	Baumit NanoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,23), THR is 6 mm
	Baumit StarTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm: 0,28), THR is 6 mm
	Baumit SilikonTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,59), THR is 6 mm
	Baumit SiliporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SiliporTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit GranoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporTop, floated structure, particles size 3,0 mm: 0,47), THR is 6 mm
	Baumit StyleTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit PuraTop	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit Fascina Special	$\leq 2,0$ (test results obtained with finishing coat Baumit Fascina special, floated structure, particles size 3,0 mm: 0,24), THR is 6 mm
	Baumit CreativTop	$\leq 2,0$ (test results obtained with finishing coat Baumit CreativTop Max, floated structure, particles size 4,0 mm: 0,38), THR is 7 mm
	Baumit StellaporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StellaporTop, floated structure, particles size 3,0 mm: 0,54), THR is 6 mm
Baumit MosaikTop	$\leq 2,0$ (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,44), THR is 5 mm	

	Baunit MosaikSuperfine	<p>≤ 2,0 (test results obtained with finishing coat Baunit MosaikTop 2, floated structure, particles size 2,0 mm: 0,44), THR is 5 mm</p>
	Baunit FineTop	<p>≤ 2,0 (test results obtained with finishing coat Baunit FineTop, floated structure, particles size 1,0 mm: 0,34), THR is 4 mm</p>
	Baunit NanoporFine	<p>≤ 2,0 (test results obtained with finishing coat Baunit NanoporFine, floated structure, particles size 1,0 mm: 0,24), THR is 4 mm</p>
	Baunit StarTop Fine	<p>≤ 2,0 (test results obtained with finishing coat Baunit StarTop, floated structure, particles size 3,0 mm: 0,28), THR is 6 mm</p>
	Baunit PuraTop Fine	<p>≤ 2,0 (test results obtained with finishing coat Baunit PuraTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm</p>
	Baunit GranoporFine	<p>≤ 2,0 (test results obtained with finishing coat Baunit GranoporFine, floated structure, particles size 1,0 mm: 0,35), THR is 4 mm</p>

Table 22 – Water vapour permeability of rendering systems

Baumit StarContact light (thickness 3 mm)		Equivalent air thickness s_d (m)
Rendering systems: base coat + key coat according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,53), THR is 6 mm
	Baumit NanoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,23), THR is 6 mm
	Baumit StarTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm: 0,28), THR is 6 mm
	Baumit SilikonTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,57), THR is 6 mm
	Baumit SiliporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SiliporTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit GranoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporTop, floated structure, particles size 3,0 mm: 0,46), THR is 6 mm
	Baumit StyleTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit PuraTop	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit Fascina Special	$\leq 2,0$ (test results obtained with finishing coat Baumit Fascina special, floated structure, particles size 3,0 mm: 0,24), THR is 6 mm
	Baumit CreativTop	$\leq 2,0$ (test results obtained with finishing coat Baumit CreativTop Max, floated structure, particles size 4,0 mm: 0,38), THR is 7 mm
	Baumit StellaporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StellaporTop, floated structure, particles size 3,0 mm: 0,54), THR is 6 mm
	Baumit MosaikTop	$\leq 2,0$ (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,44), THR is 5 mm
	Baumit MosaikSuperfine	$\leq 2,0$ (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,44), THR is 5 mm

	Baumit FineTop	$\leq 2,0$ (test results obtained with finishing coat Baumit FineTop, floated structure, particles size 1,0 mm: 0,34), THR is 4 mm
	Baumit NanoporFine	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporFine, floated structure, particles size 1,0 mm: 0,24), THR is 4 mm
	Baumit StarTop Fine	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm: 0,28), THR is 6 mm
	Baumit PuraTop Fine	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit GranoporFine	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporFine, floated structure, particles size 1,0 mm: 0,35), THR is 4 mm

Table 23 – Water vapour permeability of rendering systems

Baumit StarContact white (thickness 3 mm)	Equivalent air thickness s_d (m)	
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit SilikatTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,50), THR is 6 mm
	Baumit NanoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,20), THR is 6 mm
	Baumit StarTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm: 0,25), THR is 6 mm
	Baumit SilikonTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,55), THR is 6 mm
	Baumit SiliporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SiloporTop, floated structure, particles size 3,0 mm: 0,63), THR is 6 mm
	Baumit GranoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporTop, floated structure, particles size 3,0 mm: 0,43), THR is 6 mm
	Baumit StyleTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,63), THR is 6 mm
	Baumit PuraTop	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm

	Baumit Fascina Special	$\leq 2,0$ (test results obtained with finishing coat Baumit Fascina special, floated structure, particles size 3,0 mm: 0,21), THR is 6 mm
	Baumit CreativTop	$\leq 2,0$ (test results obtained with finishing coat Baumit CreativTop Max, floated structure, particles size 4,0 mm: 0,35), THR is 7 mm
	Baumit StellaporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StellaporTop, floated structure, particles size 3,0 mm: 0,50), THR is 6 mm
	Baumit MosaikTop	$\leq 2,0$ (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,41), THR is 5 mm
	Baumit MosaikSuperfine	$\leq 2,0$ (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,40), THR is 5 mm
	Baumit FineTop	$\leq 2,0$ (test results obtained with finishing coat Baumit FineTop, floated structure, particles size 1,0 mm: 0,31), THR is 4 mm
	Baumit NanoporFine	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporFine, floated structure, particles size 1,0 mm: 0,21), THR is 4 mm
	Baumit StarTop Fine	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm: 0,25), THR is 6 mm
	Baumit PuraTop Fine	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit GranoporFine	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporFine, floated structure, particles size 1,0 mm: 0,43), THR is 4 mm

Table 24 – Water vapour permeability of rendering systems

Baumit StarContact forte (thickness 5 mm)		Equivalent air thickness s_d (m)
Rendering systems: base coat + key coat according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,59), THR is 8 mm
	Baumit NanoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,28), THR is 8 mm

	Baumit StarTop	<p>≤ 2,0 (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm: 0,38), THR is 8 mm</p>
	Baumit SilikonTop	<p>≤ 2,0 (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,59), THR is 8 mm</p>
	Baumit SiliporTop	<p>≤ 2,0 (test results obtained with finishing coat Baumit SiliporTop, floated structure, particles size 3,0 mm: 0,68), THR is 8 mm</p>
	Baumit GranoporTop	<p>≤ 2,0 (test results obtained with finishing coat Baumit GranoporTop, floated structure, particles size 3,0 mm: 0,49), THR is 8 mm</p>
	Baumit StyleTop	<p>≤ 2,0 (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,69), THR is 8 mm</p>
	Baumit PuraTop	<p>≤ 2,0 (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,76), THR is 8 mm</p>
	Baumit Fascina Special	<p>≤ 2,0 (test results obtained with finishing coat Baumit Fascina special, floated structure, particles size 3,0 mm: 0,29), THR is 8 mm</p>
	Baumit CreativTop	<p>≤ 2,0 (test results obtained with finishing coat Baumit CreativTop Max, floated structure, particles size 4,0 mm: 0,43), THR is 9 mm</p>
	Baumit StellaporTop	<p>≤ 2,0 (test results obtained with finishing coat Baumit StellaporTop, floated structure, particles size 3,0 mm: 0,59), THR is 8 mm</p>
	Baumit MosaikTop	<p>≤ 2,0 (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,47), THR is 7 mm</p>
	Baumit MosaikSuperfine	<p>≤ 2,0 (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,47), THR is 7 mm</p>
	Baumit FineTop	<p>≤ 2,0 (test results obtained with finishing coat Baumit FineTop, floated structure, particles size 1,0 mm: 0,37), THR is 6 mm</p>
	Baumit NanoporFine	<p>≤ 2,0 (test results obtained with finishing coat Baumit NanoporFine, floated structure, particles size 1,0 mm: 0,29), THR is 6 mm</p>
	Baumit StarTop Fine	<p>≤ 2,0 (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm: 0,38), THR is 8 mm</p>

	Baumit PuraTop Fine	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,76), THR is 8 mm
	Baumit GranoporFine	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporFine, floated structure, particles size 1,0 mm: 0,4), THR is 6 mm

Table 25 – Water vapour permeability of rendering systems

Baumit StarContact Speed (thickness 3 mm)	Equivalent air thickness s_d (m)	
Rendering systems: base coat + key coat according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,54), THR is 6 mm
	Baumit NanoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,23), THR is 6 mm
	Baumit StarTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm: 0,28), THR is 6 mm
	Baumit SilikonTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,58), THR is 6 mm
	Baumit SiliporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SiliporTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit GranoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporTop, floated structure, particles size 3,0 mm: 0,46), THR is 6 mm
	Baumit StyleTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit PuraTop	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit Fascina Special	$\leq 2,0$ (test results obtained with finishing coat Baumit Fascina special, floated structure, particles size 3,0 mm: 0,24), THR is 6 mm
	Baumit CreativTop	$\leq 2,0$ (test results obtained with finishing coat Baumit CreativTop Max, floated structure, particles size 4,0 mm: 0,38), THR is 7 mm
	Baumit StellaporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StellaporTop, floated structure, particles size 3,0 mm: 0,54), THR is 6 mm

	Baunit MosaikTop	$\leq 2,0$ (test results obtained with finishing coat Baunit MosaikTop 2, floated structure, particles size 2,0 mm: 0,44), THR is 5 mm
	Baunit MosaikSuperfine	$\leq 2,0$ (test results obtained with finishing coat Baunit MosaikTop 2, floated structure, particles size 2,0 mm: 0,44), THR is 5 mm
	Baunit FineTop	$\leq 2,0$ (test results obtained with finishing coat Baunit FineTop, floated structure, particles size 1,0 mm: 0,34), THR is 4 mm
	Baunit NanoporFine	$\leq 2,0$ (test results obtained with finishing coat Baunit NanoporFine, floated structure, particles size 1,0 mm: 0,24), THR is 4 mm
	Baunit StarTop Fine	$\leq 2,0$ (test results obtained with finishing coat Baunit StarTop, floated structure, particles size 3,0 mm: 0,28), THR is 6 mm
	Baunit PuraTop Fine	$\leq 2,0$ (test results obtained with finishing coat Baunit PuraTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baunit GranoporFine	$\leq 2,0$ (test results obtained with finishing coat Baunit GranoporFine, floated structure, particles size 1,0 mm: 0,35, THR is 4 mm

Table 26 – Water vapour permeability of rendering systems

Baunit EasyFlex (thickness 3 mm)	Equivalent air thickness s_d (m)	
Rendering systems: base coat + finishing coats indicated hereafter:	Baunit SilikatTop	$\leq 2,0$ (test results obtained with finishing coat Baunit SilikatTop, floated structure, particles size 3,0 mm: 0,80), THR is 6 mm
	Baunit NanoporTop	$\leq 2,0$ (test results obtained with finishing coat Baunit NanoporTop, floated structure, particles size 3,0 mm: 0,50), THR is 6 mm
	Baunit StarTop	$\leq 2,0$ (test results obtained with finishing coat Baunit StarTop, floated structure, particles size 3,0 mm: 0,29), THR is 6 mm
	Baunit SilikonTop	$\leq 2,0$ (test results obtained with finishing coat Baunit SilikonTop, floated structure, particles size 3,0 mm: 0,84), THR is 6 mm
	Baunit SiloporTop	$\leq 2,0$ (test results obtained with finishing coat Baunit SiloporTop, floated structure, particles size 3,0 mm: 0,92), THR is 6 mm
	Baunit GranoporTop	$\leq 2,0$ (test results obtained with finishing coat Baunit GranoporTop, floated structure, particles size 3,0 mm: 0,73), THR is 6 mm

	Baunit StyleTop	<p>≤ 2,0 (test results obtained with finishing coat Baunit StyleTop, floated structure, particles size 3,0 mm: 0,93), THR is 6 mm</p>
	Baunit PuraTop	<p>≤ 2,0 (test results obtained with finishing coat Baunit PuraTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm</p>
	Baunit Fascina Special	<p>≤ 2,0 (test results obtained with finishing coat Baunit Fascina special, floated structure, particles size 3,0 mm: 0,51), THR is 6 mm</p>
	Baunit CreativTop	<p>≤ 2,0 (test results obtained with finishing coat Baunit CreativTop Max, floated structure, particles size 4,0 mm: 0,65), THR is 7 mm</p>
	Baunit StellaporTop	<p>≤ 2,0 (test results obtained with finishing coat Baunit StellaporTop, floated structure, particles size 3,0 mm: 0,80), THR is 6 mm</p>
	Baunit MosaikTop	<p>≤ 2,0 (test results obtained with finishing coat Baunit MosaikTop 2, floated structure, particles size 2,0 mm: 0,70), THR is 5 mm</p>
	Baunit MosaikSuperfine	<p>≤ 2,0 (test results obtained with finishing coat Baunit MosaikTop 2, floated structure, particles size 2,0 mm: 0,70), THR is 5 mm</p>
	Baunit FineTop	<p>≤ 2,0 (test results obtained with finishing coat Baunit FineTop, floated structure, particles size 1,0 mm: 0,61), THR is 4 mm</p>
	Baunit NanoporFine	<p>≤ 2,0 (test results obtained with finishing coat Baunit NanoporFine, floated structure, particles size 1,0 mm: 0,51), THR is 4 mm</p>
	Baunit StarTop Fine	<p>≤ 2,0 (test results obtained with finishing coat Baunit StarTop, floated structure, particles size 3,0 mm: 0,29), THR is 6 mm</p>
	Baunit PuraTop Fine	<p>≤ 2,0 (test results obtained with finishing coat Baunit PuraTop, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm</p>
	Baunit GranoporFine	<p>≤ 2,0 (test results obtained with finishing coat Baunit GranoporFine, floated structure, particles size 1,0 mm: 0,73), THR is 4 mm</p>

Table 27 – Water vapour permeability of rendering systems

Baumit PowerFlex (thickness 3 mm)		Equivalent air thickness s_d (m)
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit SilikatTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,95), THR is 6 mm
	Baumit NanoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,65), THR is 6 mm
	Baumit StarTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm: 0,34), THR is 6 mm
	Baumit SilikonTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,10), THR is 6 mm
	Baumit SiloporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SiloporTop, floated structure, particles size 3,0 mm: 1,08), THR is 6 mm
	Baumit GranoporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporTop, floated structure, particles size 3,0 mm: 0,88), THR is 6 mm
	Baumit StyleTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 1,08), THR is 6 mm
	Baumit PuraTop	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,71), THR is 6 mm
	Baumit Fascina Special	$\leq 2,0$ (test results obtained with finishing coat Baumit Fascina special, floated structure, particles size 3,0 mm: 0,66), THR is 6 mm
	Baumit CreativTop	$\leq 2,0$ (test results obtained with finishing coat Baumit CreativTop Max, floated structure, particles size 4,0 mm: 0,80), THR is 7 mm
	Baumit StellaporTop	$\leq 2,0$ (test results obtained with finishing coat Baumit StellaporTop, floated structure, particles size 3,0 mm: 0,95), THR is 6 mm
	Baumit MosaikTop	$\leq 2,0$ (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,86), THR is 5 mm
	Baumit MosaikSuperfine	$\leq 2,0$ (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,86), THR is 5 mm

	Baumit FineTop	$\leq 2,0$ (test results obtained with finishing coat Baumit FineTop, floated structure, particles size 1,0 mm: 0,76), THR is 4 mm
	Baumit NanoporFine	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporFine, floated structure, particles size 1,0 mm: 0,66), THR is 4 mm
	Baumit StarTop Fine	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm: 0,34), THR is 6 mm
	Baumit PuraTop Fine	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,71), THR is 6 mm
	Baumit GranoporFine	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporFine, floated structure, particles size 1,0 mm: 0,77, THR is 4 mm

Table 28 – Water vapour permeability of rendering systems

Baumit StarContact (thickness 3 mm)	Equivalent air thickness s_d (m)	
Rendering systems: base coat + key coat according to Clause 1.1 + finishing coats + decorative coats indicated hereafter:	Baumit SilikatTop Baumit SilikatColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,60), THR is 6,4 mm
	Baumit SilikatTop Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,80), THR is 6,4 mm
	Baumit SilikatTop Baumit PuraColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,668), THR is 6,4 mm
	Baumit NanoporTop Baumit Nanopor Color	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,25), THR is 6,4 mm
	Baumit StarTop Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm, Baumit StarColor: 0,516), THR is 6,4 mm
	Baumit SilikonTop Baumit SilikonColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,64), THR is 6,4 mm
	Baumit SilikonTop K1,5 Baumit FineTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 1,5 mm: 0,74), THR is 4,7 mm

Baunit SiliporTop Baunit FillTop	≤ 2,0 (test results obtained with finishing coat Baunit SiliporTop, floated structure, particles size 3,0 mm: 0,91), THR is 6,7 mm
Baunit GranoporTop Baunit GranoporColor	≤ 2,0 (test results obtained with finishing coat Baunit GranoporTop, floated structure, particles size 3,0 mm: 0,53), THR is 6,4 mm
Baunit StyleTop Baunit StyleColor	≤ 2,0 (test results obtained with finishing coat Baunit StyleTop, floated structure, particles size 3,0 mm: 0,74), THR is 6,4 mm
Baunit StyleTop Baunit Metallic	≤ 2,0 (test results obtained with finishing coat Baunit StyleTop, floated structure, particles size 3,0 mm: 1,06), THR is 6,3 mm
Baunit StyleTop Baunit Finish	≤ 2,0 (test results obtained with finishing coat Baunit StyleTop, floated structure, particles size 3,0 mm: 0,67), THR is 6,3 mm
Baunit PuraTop Baunit PuraColor	≤ 2,0 (test results obtained with finishing coat Baunit PuraTop, floated structure, particles size 3,0 mm, Baunit PuraColor: 0,75), THR is 6,4 mm
Baunit StyleTop Baunit Finish Baunit Lasur	≤ 2,0 (test results obtained with finishing coat Baunit StyleTop, floated structure, particles size 3,0 mm: 1,06), THR is 6,5 mm
Baunit Fascina Special Baunit NanoporColor	≤ 2,0 (test results obtained with finishing coat Baunit Fascina special, floated structure, particles size 3,0 mm: 0,26), THR is 6,4mm
Baunit CreativTop Baunit SilikonColor	≤ 2,0 (test results obtained with finishing coat Baunit CreativTop Max, floated structure, particles size 4,0 mm: 0,45), THR is 7,4 mm
Baunit StellaporTop Baunit GranoporColor	≤ 2,0 (test results obtained with finishing coat Baunit StellaporTop, floated structure, particles size 3,0 mm: 0,60), THR is 6,4 mm
Baunit MosaikTop Baunit Glitter	≤ 2,0 (test results obtained with finishing coat Baunit MosaikTop 2, floated structure, particles size 2,0 mm: 0,83), THR is 6,0 mm
Baunit NanoporFine Baunit NanoporColor	≤ 2,0 (test results obtained with finishing coat Baunit NanoporFine, floated structure, particles size 1,0 mm: 0,26), THR is 4,4 mm
Baunit StarTop Fine Baunit StarColor	≤ 2,0 (test results obtained with finishing coat Baunit StarTop, floated structure, particles size 3,0 mm, Baunit StarColor: 0,516), THR is 6,4 mm

	<p>Baunit PuraTop Fine Baunit PuraColor</p>	<p>≤ 2,0 (test results obtained with finishing coat Baunit PuraTop, floated structure, particles size 3,0 mm, Baunit PuraColor: 0,75), THR is 6,4 mm</p>
	<p>Baunit GranoporFine Baunit GranoporColor</p>	<p>≤ 2,0 (test results obtained with finishing coat Baunit GranoporFine, floated structure, particles size 1,0 mm: 0,41), THR is 4,4 mm</p>

Table 29 – Water vapour permeability of rendering systems

Baumit StarContact light (thickness 3 mm)		Equivalent air thickness s_d (m)
Rendering systems: base coat + key coat according to Clause 1.1 + finishing coats + decorative coats indicated hereafter:	Baumit SilikatTop Baumit SilikatColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,64), THR is 6,4 mm
	Baumit SilikatTop Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,78), THR is 6,4 mm
	Baumit SilikatTop Baumit PuraColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,66), THR is 6,4 mm
	Baumit NanoporTop Baumit Nanopor Color	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,25), THR is 6,4 mm
	Baumit StarTop Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm, Baumit StarColor: 0,52), THR is 6,4 mm
	Baumit SilikonTop Baumit SilikonColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,64), THR is 6,4 mm
	Baumit SilikonTop K1,5 Baumit FineTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 1,5 mm: 0,74), THR is 4,7 mm
	Baumit SiliporTop Baumit FillTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SiliporTop, floated structure, particles size 3,0 mm: 0,90), THR is 6,7 mm
	Baumit GranoporTop Baumit GranoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporTop, floated structure, particles size 3,0 mm: 0,52), THR is 6,4 mm
	Baumit StyleTop Baumit StyleColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,74), THR is 6,4 mm
	Baumit StyleTop Baumit Metallic	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 1,05), THR is 6,3 mm
Baumit StyleTop Baumit Finish	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,67), THR is 6,3 mm	

	Baumit PuraTop Baumit PuraColor	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm, Baumit PuraColor: 0,75), THR is 6,4 mm
	Baumit StyleTop Baumit Finish Baumit Lasur	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 1,06), THR is 6,5 mm
	Baumit Fascina Special Baumit NanoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit Fascina special, floated structure, particles size 3,0 mm: 0,26), THR is 6,4mm
	Baumit CreativTop Baumit SilikonColor	$\leq 2,0$ (test results obtained with finishing coat Baumit CreativTop Max, floated structure, particles size 4,0 mm: 0,44), THR is 7,4 mm
	Baumit StellaporTop Baumit GranoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StellaporTop, floated structure, particles size 3,0 mm: 0,60), THR is 6,4mm
	Baumit MosaikTop Baumit Glitter	$\leq 2,0$ (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,83), THR is 6,0 mm
	Baumit NanoporFine Baumit NanoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporFine, floated structure, particles size 1,0 mm: 0,26), THR is 4,4 mm
	Baumit StarTopFine Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm, Baumit StarColor: 0,52), THR is 6,4 mm
	Baumit PuraTopFine Baumit PuraColor	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm, Baumit PuraColor: 0,75), THR is 6,4 mm
	Baumit GranoporFine Baumit GranoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporFine, floated structure, particles size 1,0 mm: 0,41), THR is 4,4 mm

Table 30 – Water vapour permeability of rendering systems

Baumit StarContact white (thickness 3 mm)	Equivalent air thickness s_d (m)	
Rendering systems: base coat + key coat according to Clause 1.1 + finishing coats + decorative coats indicated hereafter:	Baumit SilikatTop Baumit SilikatColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,61), THR is 6,4 mm
	Baumit SilikatTop Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,80), THR is 6,4 mm
	Baumit SilikatTop Baumit PuraColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,65), THR is 6,4 mm
	Baumit NanoporTop Baumit Nanopor Color	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,25), THR is 6,4 mm
	Baumit StarTop Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm, Baumit StarColor: 0,51), THR is 6,4 mm
	Baumit SilikonTop Baumit SilikonColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,64), THR is 6,4 mm
	Baumit SilikonTop K1,5 Baumit FineTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 1,5 mm: 0,74), THR is 4,7 mm
	Baumit SiliporTop Baumit FillTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SiliporTop, floated structure, particles size 3,0 mm: 0,91), THR is 6,7 mm
	Baumit GranoporTop Baumit GranoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporTop, floated structure, particles size 3,0 mm: 0,53), THR is 6,4 mm
	Baumit StyleTop Baumit StyleColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,74), THR is 6,4 mm
	Baumit StyleTop Baumit Metallic	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 1,06), THR is 6,3 mm
Baumit StyleTop Baumit Finish	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,67), THR is 6,3 mm	

	Baumit PuraTop Baumit PuraColor	≤ 2,0 (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm, Baumit PuraColor: 0,74), THR is 6,4 mm
	Baumit StyleTop Baumit Finish Baumit Lasur	≤ 2,0 (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 1,06), THR is 6,5 mm
	Baumit Fascina Special Baumit NanoporColor	≤ 2,0 (test results obtained with finishing coat Baumit Fascina special, floated structure, particles size 3,0 mm: 0,26), THR is 6,4mm
	Baumit CreativTop Baumit SilikonColor	≤ 2,0 (test results obtained with finishing coat Baumit CreativTop Max, floated structure, particles size 4,0 mm: 0,45), THR is 7,4 mm
	Baumit StellaporTop Baumit GranoporColor	≤ 2,0 (test results obtained with finishing coat Baumit StellaporTop, floated structure, particles size 3,0 mm: 0,60), THR is 6,4 mm
	Baumit MosaikTop Baumit Glitter	≤ 2,0 (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,83), THR is 6,0 mm
	Baumit StarTop Fine Baumit StarColor	≤ 2,0 (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm, Baumit StarColor: 0,51), THR is 6,4 mm
	Baumit PuraTop Fine Baumit PuraColor	≤ 2,0 (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm, Baumit PuraColor: 0,74), THR is 6,4 mm
	Baumit NanoporFine Baumit NanoporColor	≤ 2,0 (test results obtained with finishing coat Baumit NanoporFine, floated structure, particles size 1,0 mm: 0,26), THR is 4,4 mm
	Baumit GranoporFine Baumit GranoporColor	≤ 2,0 (test results obtained with finishing coat Baumit GranoporFine, floated structure, particles size 1,0 mm: 0,53), THR is 4,4 mm

Table 31 – Water vapour permeability of rendering systems

Baumit StarContact forte (thickness 5 mm)		Equivalent air thickness s_d (m)
Rendering systems: base coat + key coat according to Clause 1.1 + finishing coats + decorative coats indicated hereafter:	Baumit SilikatTop Baumit SilikatColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,85), THR is 8,4 mm
	Baumit SilikatTop Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,92), THR is 8,4 mm
	Baumit SilikatTop Baumit PuraColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,78), THR is 8,4 mm
	Baumit NanoporTop Baumit Nanopor Color	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,50), THR is 8,4 mm
	Baumit StarTop Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm, Baumit StarColor: 0,64), THR is 8,4 mm
	Baumit SilikonTop Baumit SilikonColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,89), THR is 8,4 mm
	Baumit SilikonTop K1,5 Baumit FineTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 1,5 mm: 0,99), THR is 7,7 mm
	Baumit SiliporTop Baumit FillTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SiliporTop, floated structure, particles size 3,0 mm: 1,15), THR is 8,7 mm
	Baumit GranoporTop Baumit GranoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporTop, floated structure, particles size 3,0 mm: 0,84), THR is 9,4 mm
	Baumit StyleTop Baumit StyleColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,95), THR is 8,4 mm
	Baumit StyleTop Baumit Metallic	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 1,30), THR is 8,3 mm
Baumit StyleTop Baumit Finish	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,92), THR is 8,3 mm	

	Baumit PuraTop Baumit PuraColor	≤ 2,0 (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm, Baumit PuraColor: 0,88), THR is 8,4 mm
	Baumit StyleTop Baumit Finish Baumit Lasur	≤ 2,0 (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 1,31), THR is 8,3 mm
	Baumit Fascina Special Baumit NanoporColor	≤ 2,0 (test results obtained with finishing coat Baumit Fascina special, floated structure, particles size 3,0 mm: 0,51), THR is 8,4 mm
	Baumit CreativTop Baumit SilikonColor	≤ 2,0 (test results obtained with finishing coat Baumit CreativTop Max, floated structure, particles size 4,0 mm: 0,69), THR is 9,4 mm
	Baumit StellaporTop Baumit GranoporColor	≤ 2,0 (test results obtained with finishing coat Baumit StellaporTop, floated structure, particles size 3,0 mm: 0,85), THR is 8,4 mm
	Baumit MosaikTop Baumit Glitter	≤ 2,0 (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 1.1), THR is 8,0 mm
	Baumit NanoporFine Baumit NanoporColor	≤ 2,0 (test results obtained with finishing coat Baumit NanoporFine, floated structure, particles size 1,0 mm: 0,47), THR is 6,3 mm
	Baumit StarTop Fine Baumit StarColor	≤ 2,0 (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm, Baumit StarColor: 0,64), THR is 8,4 mm
	Baumit PuraTop Fine Baumit PuraColor	≤ 2,0 (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm, Baumit PuraColor: 0,88), THR is 8,4 mm
	Baumit GranoporFine Baumit GranoporColor	≤ 2,0 (test results obtained with finishing coat Baumit GranoporFine, floated structure, particles size 1,0 mm: 0,66), THR is 6,3 mm

Table 32 – Water vapour permeability of rendering systems

Baumit StarContactSpeed (thickness 3 mm)		Equivalent air thickness s_d (m)
Rendering systems: base coat + key coat according to Clause 1.1 + finishing coats + decorative coats indicated hereafter:	Baumit SilikatTop Baumit SilikatColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,61), THR is 6,4 mm
	Baumit SilikatTop Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,80), THR is 6,4 mm
	Baumit SilikatTop Baumit PuraColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikatTop, floated structure, particles size 3,0 mm: 0,65), THR is 6,4 mm
	Baumit NanoporTop Baumit Nanopor Color	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporTop, floated structure, particles size 3,0 mm: 0,25), THR is 6,4 mm
	Baumit StarTop Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm, Baumit StarColor: 0,54), THR is 6,4 mm
	Baumit SilikonTop Baumit SilikonColor	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 3,0 mm: 0,64), THR is 6,4 mm
	Baumit SilikonTop K1,5 Baumit FineTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SilikonTop, floated structure, particles size 1,5 mm: 0,74), THR is 4,7 mm
	Baumit SiliporTop Baumit FillTop	$\leq 2,0$ (test results obtained with finishing coat Baumit SiliporTop, floated structure, particles size 3,0 mm: 0,91), THR is 6,7 mm
	Baumit GranoporTop Baumit GranoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporTop, floated structure, particles size 3,0 mm: 0,53), THR is 6,4 mm
	Baumit StyleTop Baumit StyleColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,74), THR is 6,4 mm
	Baumit StyleTop Baumit Metallic	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 1,06), THR is 6,3 mm
	Baumit StyleTop Baumit Finish	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 0,67), THR is 6,3 mm
Baumit PuraTop Baumit PuraColor	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,78), THR is 6,4 mm	

	Baumit StyleTop Baumit Finish Baumit Lasur	$\leq 2,0$ (test results obtained with finishing coat Baumit StyleTop, floated structure, particles size 3,0 mm: 1,06), THR is 6,5 mm
	Baumit Fascina Special Baumit NanoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit Fascina special, floated structure, particles size 3,0 mm: 0,26), THR is 6,4 mm
	Baumit CreativTop Baumit SilikonColor	$\leq 2,0$ (test results obtained with finishing coat Baumit CreativTop Max, floated structure, particles size 4,0 mm: 0,45), THR is 7,4 mm
	Baumit StellaporTop Baumit GranoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StellaporTop, floated structure, particles size 3,0 mm: 0,60), THR is 6,4 mm
	Baumit MosaikTop Baumit Glitter	$\leq 2,0$ (test results obtained with finishing coat Baumit MosaikTop 2, floated structure, particles size 2,0 mm: 0,83), THR is 6,0 mm
	Baumit NanoporFine Baumit NanoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit NanoporFine, floated structure, particles size 1,0 mm: 0,26), THR is 4,4 mm
	Baumit StarTop Fine Baumit StarColor	$\leq 2,0$ (test results obtained with finishing coat Baumit StarTop, floated structure, particles size 3,0 mm, Baumit StarColor: 0,54), THR is 6,4 mm
	Baumit PuraTop Fine Baumit PuraColor	$\leq 2,0$ (test results obtained with finishing coat Baumit PuraTop, floated structure, particles size 3,0 mm: 0,78), THR is 6,4 mm
	Baumit GranoporFine Baumit GranoporColor	$\leq 2,0$ (test results obtained with finishing coat Baumit GranoporFine, floated structure, particles size 1,0 mm: 0,53), THR is 4,4 mm

3.2.8 Water vapour permeability of thermal insulation product (EAD 040083-00-0404 – Clause 2.2.9.2)

No performance assessed.

3.3 Safety and accessibility in use (BWR 4)

3.3.1 Bond strength between base coat and the thermal insulation product (EAD 040083-00-0404 – Clause 2.2.11.1)

- Base coat Baumit StarContact onto EPS (EN 13163 – TR100)

Table 33 – Bond strength of base coat onto insulation product

Conditionings		
Initial state	After the hygrothermal cycles (on the rig)	After the freeze/thaw cycles (on samples)
Min. 99 kPa Mean 102 kPa (≥ 80 kPa)	Min. value: no performance assessed Mean 70 kPa < 80 kPa*	Not relevant

* Failure occurred in insulation product.

- Base coat Baumit StarContact light onto EPS (EN 13163 – TR100)

Table 34 – Bond strength of base coat onto insulation product

Conditionings		
Initial state	After the hygrothermal cycles (on the rig)	After the freeze/thaw cycles (on samples)
Min. 98 kPa Mean 103 kPa ≥ 80 kPa	Min. value: no performance assessed Mean 84 kPa ≥ 80 kPa	Not relevant

- Base coat Baumit StarContact white (EN 13163 – TR100)

Table 35 – Bond strength of base coat onto insulation product

Conditionings		
Initial state	After the hygrothermal cycles (on the rig)	After the freeze/thaw cycles (on samples)
Min. 100 kPa Mean 105 kPa ≥ 80 kPa	Min. 108 kPa Mean 123 kPa ≥ 80 kPa	Not relevant

- Base coat Baumit StarContact forte (EN 13163 – TR100)

Table 36 – Bond strength of base coat onto insulation product

Conditionings		
Initial state (EN 13163 – TR100)	After the hygrothermal cycles (on the rig) (EN 13163 – TR150)	After the freeze/thaw cycles (on samples)
Min. 100 kPa Mean 104 kPa ≥ 80 kPa	Min. value: no performance assessed Mean 127 kPa ≥ 80 kPa	Not relevant

- Base coat Baumit StarContact Speed (EN 13163 – TR100)

Table 37 – Bond strength of base coat onto insulation product

Conditionings		
Initial state (EN 13163 – TR100)	After the hygrothermal cycles (on the rig) (EN 13163 – TR100)	After the freeze/thaw cycles (on samples)
Min. 99 kPa Mean 104 kPa ≥ 80 kPa	Min. 136 kPa Mean 149 kPa ≥ 80 kPa	Not relevant

- Base coat Baunit EasyFlex (EN 13163 – TR100 or TR150)

Table 38 – Bond strength of base coat onto insulation product

Conditionings		
Initial state (EN 13163 – TR100)	After the hygrothermal cycles (on the rig) (EN 13163 – TR150)	After the freeze/thaw cycles (on samples)
Min. 105 kPa Mean 108 kPa ≥ 80 kPa	Min. value: no performance assessed Mean 110 kPa ≥ 80 kPa	Not relevant

- Base coat Baunit PowerFlex (EN 13163 – TR100 or TR150)

Table 39 – Bond strength of base coat onto insulation product

Conditionings		
Initial state (EN 13163 – TR100)	After the hygrothermal cycles (on the rig) (EN 13163 – TR150)	After the freeze/thaw cycles (on samples)
Min. 101 kPa Mean 105 kPa ≥ 80 kPa	Min. value: no performance assessed Mean 110 kPa ≥ 80 kPa	Not relevant

3.3.2 Bond strength between adhesive and the substrate (EAD 040083-00-0404 – Clause 2.2.11.2)

Table 40 – Bond strength of adhesive onto substrate and EPS (EN 13163 – TR100 or TR120 or TR150)

Adhesives	Substrate and thermal insulation product	Conditionings		
		Initial state	48 h immersion in water + 2 h 23 °C/50% RH	48 h immersion in water + 7 days 23 °C/50% RH
Baumit StarContact (the tested thickness: (3-5) mm)	Concrete	Min. 1274 kPa Mean 1310 kPa ≥ 250 kPa	Min. 555 kPa Mean 606 kPa ≥ 80 kPa	Min. 1401 kPa Mean 1467 kPa ≥ 250 kPa
	Insulation product EPS –TR100	Min. 99 kPa Mean 102 kPa ≥ 80 kPa	Min. 80 kPa Mean 82 kPa ≥ 30 kPa	Min. 105 kPa Mean 109 kPa ≥ ≥ 80 kPa
	Insulation product EPS –TR150	Min. 151 kPa Mean 149 kPa ≥ ≥ 80 kPa	Min. 81 kPa Mean 84 kPa ≥ 30 kPa	Min. 148 kPa Mean 150 kPa ≥ 80 kPa
Baumit StarContact light (the tested thickness: (3-5) mm)	Concrete	Min. 1041 kPa Mean 1108 kPa ≥ 250 kPa	Min. 553 kPa Mean 601 kPa ≥ 80 kPa	Min. 1400 kPa Mean 1439 kPa ≥ 250 kPa
	Insulation product EPS –TR100	Min. 98 kPa Mean 103 kPa ≥ 80 kPa	Min. 80 kPa Mean 82 kPa ≥ 30 kPa	Min. 100 kPa Mean 102 kPa ≥ 80 kPa
	Insulation product EPS –TR150	Min. 144 kPa Mean 149 kPa ≥ 80 kPa	Min. 80 kPa Mean 84 kPa ≥ 80 kPa	Min. 151 kPa Mean 158 kPa ≥ 250 kPa
Baumit StarContact white (the tested thickness: (3-5) mm)	Concrete	Min. 1201 kPa Mean 1257 kPa ≥ 250 kPa	Min. 514 kPa Mean 614 kPa ≥ 80 kPa	Min. 1457 kPa Mean 1508 kPa ≥ 250 kPa
	Insulation product EPS –TR100	Min. 100 kPa Mean 105 kPa ≥ 80 kPa	Min. 75 kPa Mean 80 kPa ≥ 30 kPa	Min. 99 kPa Mean 102 kPa ≥ 80 kPa
	Insulation product EPS –TR150	Min. 154 kPa Mean 158 kPa ≥ 80 kPa	Min. 80 kPa Mean 83 kPa ≥ 80 kPa	Min. 151 kPa Mean 153 kPa ≥ 250 kPa
Baumit NivoFix (the tested thickness: (3-5) mm)	Concrete	Min. 1280 kPa Mean 1302 kPa ≥ 250 kPa	Min. 600 kPa Mean 638 kPa ≥ 80 kPa	Min. 1315 kPa Mean 1444 kPa ≥ 250 kPa
	Insulation product EPS –TR100	Min. 99 kPa Mean 102 kPa ≥ 80 kPa	Min. 77 kPa Mean 81 kPa ≥ 30 kPa	Min. 100 kPa Mean 102 kPa ≥ 80 kPa
	Insulation product EPS –TR150	Min. 150 kPa Mean 157 kPa ≥ 80 kPa	Min. 85 kPa Mean 86 kPa ≥ 80 kPa	Min. 149 kPa Mean 153 kPa ≥ 250 kPa

Baumit StarContact forte (the tested thickness: (3-5) mm)	Concrete	Min. 1247 kPa Mean 1300 kPa ≥ 0,25 MPa	Min. 600 kPa Mean 611 kPa ≥ 0,08 MPa	Min. 1429 kPa Mean 1487 kPa ≥ 0,25 MPa
	Insulation product EPS –TR100	Min. 100 kPa Mean 104 kPa ≥ 80kPa	Min. 81x kPa Mean 83 kPa ≥ 30 kPa	Min. 100 kPa Mean 103 kPa ≥ 80 kPa
	Insulation product EPS –TR150	Min. 151 kPa Mean 155 kPa ≥ 80 kPa	Min. 84 kPa Mean 86 kPa ≥ 80 kPa	Min. 147 kPa Mean 149 kPa ≥ 250 kPa
Baumit SupraFix (the tested thickness: (3-5) mm)	Concrete	Min. 1200 kPa Mean 1228 kPa ≥ 0,25 MPa	Min.592 kPa Mean 629 kPa ≥ 0,08 MPa	Min. 1379 kPa Mean 1489 kPa ≥ 0,25 MPa
	Insulation product EPS –TR100	Min. 102 kPa Mean 109 kPa ≥ 80 kPa	Min. 77 kPa Mean 80 kPa ≥ 30 kPa	Min. 103 kPa Mean 106 kPa ≥ 80 kPa
	Insulation product EPS –TR150	Min. 151 kPa Mean 155 kPa ≥ 80 kPa	Min. 82 kPa Mean 85 kPa ≥ 80 kPa	Min. 151 kPa Mean 157 kPa ≥ 250kPa
Baumit StarContact Speed (the tested thickness: (3-5) mm)	Concrete	Min. 1204 kPa Mean 1261 kPa ≥ 250 kPa	Min. 505 kPa Mean 655 kPa ≥ 80 kPa	Min. 1478 kPa Mean 1512 kPa ≥ 250 kPa
	Insulation product EPS –TR100	Min. 99 kPa Mean 104 kPa ≥ 80 kPa	Min. 78 kPa Mean 81 kPa ≥ 30kPa	Min. 99 kPa Mean 101 kPa ≥ 80kPa
	Insulation product EPS –TR150	Min. 150 kPa Mean 153 kPa ≥ 80 kPa	Min. 79 kPa Mean 83 kPa ≥ 80 kPa	Min. 157 kPa Mean 160 kPa ≥ 250 kPa
Baumit StarContact (the tested thickness: (3-5) mm)	Special anchor Baumit Klebeanker	Min. xx kPa Mean xx kPa ≥ 250 kPa	Min. xx kPa Mean xx kPa ≥ 80 kPa	Min. xx kPa Mean xx kPa ≥ 250 kPa
Failure occurred in the insulation product or in adhesive.				

3.3.3 Bond strength between adhesive and the thermal insulation product (EAD 040083-00-0404 – Clause 2.2.11.3)

See performances in above Table 40.

The minimum bonded surface S , which shall exceed 20 %, is calculated as follows:
 $S (\%) = [0,03 \times 100]/B$

where:

B is minimum failure resistance of the adhesive to the insulation product in dry conditions for all failure modes expressed in MPa;

0,03 MPa corresponds to the minimum requirements.

The ETICS shall be installed on the substrate with application of the adhesive on the following minimal surface (% of total) according to Tables 41, 42 and 43.

Table 41 – Minimum admissible bonded surface area for bonded ETICS

Tensile strength perpendicular to the faces of the insulation product (Baumit ProTherm (100) and Baumit StarTherm (100))	Minimum admissible bonded surface area for bonded ETICS
≥ 100 kPa (EPS-EN 13163-TR100)	40 %

Table 42 – Minimum admissible bonded surface area for bonded ETICS

Tensile strength perpendicular to the faces of the insulation products (Baumit ProTherm (120) and Baumit StarTherm (120))	Minimum admissible bonded surface area for bonded ETICS
≥ 120 kPa (EPS-EN 13163-TR120)	25 %

Table 43 – Minimum admissible bonded surface area for bonded ETICS

Tensile strength perpendicular to the faces of the insulation product (Baumit ProTherm (150) and Baumit StarTherm (150))	Minimum admissible bonded surface area for bonded ETICS
≥ 150 kPa (EPS-EN 13163-TR150)	20 %

3.3.4 Fixing strength (transverse displacement)

Test not relevant because the ETICS fulfills the following criteria (EAD 040083-00-0404 – Clause 2.2.12):

- The bonded area exceeds 20 % in case of mechanically fixed systems with supplementary adhesive.
- $E \times d = 10\,503 \text{ N/mm} < 50\,000 \text{ N/mm}$, where E is static modulus of elasticity of the base coat **Baumit StarContact** without glass fibre mesh and d is mean dried thickness of the base coat.
- $E \times d = 8\,457 \text{ N/mm} < 50\,000 \text{ N/mm}$, where E is static modulus of elasticity of the base coat **Baumit StarContact light** without glass fibre mesh and d is mean dried thickness of the base coat.
- $E \times d = 9\,666 \text{ N/mm} < 50\,000 \text{ N/mm}$, where E is static modulus of elasticity of the base coat **Baumit StarContact white** without glass fibre mesh and d is mean dried thickness of the base coat.
- $E \times d = 19\,395 \text{ N/mm} < 50\,000 \text{ N/mm}$, where E is dynamic modulus of elasticity of the base coat **Baumit StarContact Forte** without glass fibre mesh and d is mean dried thickness of the base coat.
- $E \times d = 933 \text{ N/mm} < 50\,000 \text{ N/mm}$, where E is static modulus of elasticity of the base coat **Baumit EasyFlex** without glass fibre mesh and d is mean dried thickness of the base coat.
- $E \times d = 1\,053 \text{ N/mm} < 50\,000 \text{ N/mm}$, where E is static modulus of elasticity of the base coat **Baumit PowerFlex** without glass fibre mesh and d is mean dried thickness of the base coat.

3.3.5 Wind load resistance (EAD 040083-00-0404 – Clause 2.2.13.1 and 2.2.13.2)

Safety in use of mechanically fixed ETICS using anchors

The following values only apply for the combination (anchor's trade name)/ (EPS board's characteristics) mentioned in the first lines of each table.

Table 51 – Failure loads of combination of anchors described in below table and insulation product – EPS-EN 13163-TR100

Anchors for which the following failure loads apply	Trade name	Hilti insulation anchor SD-FV 8 Hilti ETICS-ANCHOR D-FV Hilti ETICS-ANCHOR D-FV T Hilti Dämmstoffelement XI-FV Hilti SX-FV Koelner TFIX-8M Koelner TFIX 8S Koelner TFIX 8ST IsoFux NDS8Z IsoFux NDS90Z IsoFux NDM90Z IsoFux NDM8Z IsoFux Rocket	
	Plate diameter (mm)	≥ 60	
Characteristic of the insulation product panels for which the following failure loads apply	Thickness (mm)	≥ 60	
	Tensile strength perpendicular to the face (kPa)	≥ 100	
Failure loads (N)	Anchors not placed at the panel joint (pull – through test)	R_{panel} :	Minimum: 450 Average: 510
	Load/displacement graph: No performance assessed.		
	Anchors placed at the panel joint (static foam block test)	R_{joint} :	Minimum: 337,5 Average: 383
	Load/displacement graph: No performance assessed.		

Table 52 – Failure loads of combination of anchors described in below table and insulation product – EPS-EN 13163-TR100

Anchors for which the following failure loads apply	Trade name	Hilti D8-FV	
	Plate diameter (mm)	≥ 60	
Characteristic of the insulation product panels for which the following failure loads apply	Thickness (mm)	≥ 100	
	Tensile strength perpendicular to the face (kPa)	≥ 100	
Failure loads (N)	Anchors not placed at the panel joint (pull – through test)	R_{panel} :	Minimum: 510 Average: 540
	Load/displacement graph: No performance assessed.		
	Anchors placed at the panel joint (static foam block test)	R_{joint} :	Minimum: 430 Average: 470
	Load/displacement graph: No performance assessed.		

Table 53 – Failure loads of combination of anchors described in below table and insulation product – EPS-EN 13163-TR100

Anchors for which the following failure loads apply	Trade name	fischer TERMOZ 8U fischer TERMOZ 8 N fischer Termoz CN 8 fischer Termoz 8 NZ fischer Termoz 8 SV fischer Termoz 8 UZ fischer Termoz PN 8 KEW InsuFix TSD-V KEW InsuFix TSBD 8 KEW TSD 8
	Plate diameter (mm)	≥ 60
Characteristic of the insulation product panels for which the following failure loads apply	Thickness (mm)	≥ 60
	Tensile strength perpendicular to the face (kPa)	≥ 100
Failure loads (N)	Anchors not placed at the panel joint (pull – through test) x	R_{panel} : Minimum: 560 Average: 571
Failure loads (N)	Anchors placed at the panel joint (static foam block test)	R_{joint} : Minimum: 493 Average: 503

Table 54 – Failure loads of combination of anchors described in below table and insulation product – EPS-EN 13163-TR100

Anchors for which the following failure loads apply	Trade name		Bravoll PTH-KZ 60/8-La Bravoll PTH-KZL 60/8-La Bravoll PTH 60/8-La Bravoll PTH-L 60/8-La Bravoll PTH-S 60/8 Bravoll PTH-SX Bravoll PTX Bravoll PTH-EX ejotherm STR U ejotherm STR U 2G ejotherm NT U ejotherm NK U Hilti SX-FV Koelner TFIX 8S Koelner TFIX 8ST KEW TSD-V
	Plate diameter (mm)		≥ 60
Characteristic of the insulation product panels for which the following failure loads apply	Thickness (mm)		≥ 50
	Tensile strength perpendicular to the face (kPa)		≥ 100
Failure loads (N)	Anchors not placed at the panel joint (pull – through test)	R_{panel} :	Minimum: 502 Average: 514
	Load/displacement graph: No performance assessed.		
	Anchors placed at the panel joint (static foam block test)	R_{joint} :	Minimum: 322 Average: 359
	Load/displacement graph: No performance assessed.		

Table 55 – Failure loads of combination of anchors described in below table and insulation product – EPS-EN 13163-TR100

Anchors for which the following failure loads apply	Trade name		SPIT ISO ejot H1 eco ejot H3 ejotherm NTK U fischer TERMOZ 8 N fischer Termoz 8 NZ fischer TERMOZ KS 8 fischer Termoz CN 8 hilti fixing element XI-FV KOELNER KI-10N KOELNER KI-10NS KI-10, KI-10PA KI-10M KOELNER TFIX-8M KOELNER TFIX-8P
	Plate diameter (mm)		≥ 50
Characteristic of the insulation product panels for which the following failure loads apply	Thickness (mm)		≥ 50
	Tensile strength perpendicular to the face (kPa)		≥ 100

Failure loads (N)	Anchors not placed at the panel joint (pull – through test)	R_{panel} :	Minimum: 407 Average: 421
	Load/displacement graph: No performance assessed.		
	Anchors placed at the panel joint (pull – through test)	R_{joint} :	Minimum: 363 Average: 373
	Load/displacement graph: No performance assessed.		

Table 56 – Failure loads of combination of anchors described in below table and insulation product – EPS (5.1.4.3 ETAG 004)

Anchors for which the following failure loads apply	Trade name	Baumit KlebeAnker/ Baumit StarTrack + KlebeAnker X1
	Plate diameter (mm)	≥ 108
Characteristic of the insulation product panels for which the following failure loads apply	Thickness (mm)	≥ 60
	Tensile strength perpendicular to the face (kPa)	≥ 120
Failure loads (N)	Anchors not placed at the panel joint (pull through test)	R_{panel} : Minimum: 697 Average: 699

The wind load resistance of the ETICS R_d is calculated as follows:

$$R_d = [R_{\text{panel}} \times n_{\text{panel}} + R_{\text{joint}} \times n_{\text{joint}}] / \gamma$$

where

n_{panel} is number (per m^2) of anchors not placed at the panel joint;

n_{joint} is number (per m^2) of anchors placed at the panel joint;

γ is national safety factor

3.3.6 Wind load resistance – dynamic wind uplift test (EAD 040083-00-0404 – Clause 2.2.13.3)

No performance assessed.

3.3.7 Tensile test perpendicular to the faces of the thermal insulation

The minimal/mean value of tensile strength to the faces of the thermal insulation product in dry condition is 141/148 kPa. Tested thickness of thermal insulation is 100 mm.

Tensile strength of perpendicular to the faces of the thermal insulation in wet condition is not relevant.

3.3.8 Shear strength and shear modulus of elasticity test of ETICS (2.2.15 EAD 040083-00-0404)

The minimal/mean value of shear strength of the thermal insulation product is 48/50 kPa.

The minimal/mean value of shear modulus is 1 100/ 1 200 kPa.

Tested thickness of thermal insulation is 100 mm.

3.3.9 Render strip tensile test (2.2.17 EAD 040083-00-0404)

No performance assessed.

The mean value of the crack width of the base coats with the glass fibres mesh Baunit StarTex (4 mm × 4 mm) and **Baunit StarTex (160)** have not been tested (No performance assessed).

3.3.10 Bond strength after ageing (2.2.10 EAD 040083-00-0404)

**Table 57 – Bond strength of rendering systems after ageing
(2.2.20.2 EAD 040083-00-0404)**

Baunit StarContact		Individual values in kPa Minimal value in kPa	Mean value in kPa
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baunit SilikatTop	Individual values: no performance assessed Minimal value: 82	88 (≥ 80) thickness 4,5 mm
	Baunit NanoporTop	Individual values: no performance assessed Minimal value: 87	89 (≥ 80) thickness 4,5 mm
	Baunit StarTop	Individual values: no performance assessed Minimal value: 98	101 (≥ 80) thickness 4,5 mm
	Baunit SilikonTop	Individual values: no performance assessed Minimal value: 99	93 (≥ 80) thickness 4,5 mm
	Baunit SiliporTop	Individual values: no performance assessed Minimal value: 86	90 (≥ 80) thickness 4,5 mm
	Baunit GranoporTop	Individual values: no performance assessed Minimal value: 88	91 (≥ 80) thickness 4,5 mm
	Baunit StyleTop	Individual values: no performance assessed Minimal value: 88	92 (≥ 80) thickness 4,5 mm
	Baunit PuraTop	Individual values: no performance assessed Minimal value: 97	98 (≥ 80) thickness 4,5 mm
	Baunit Fascina Special	Individual values: no performance assessed Minimal value: 90	92 (≥ 80) thickness 4,5 mm

Baunit CreativTop	Individual values: no performance assessed Minimal value: 86	88 (≥ 80) thickness 4,5 mm
Baunit StellaporTop	Individual values: no performance assessed Minimal value: 87	80 (≥ 80) thickness 4,5 mm
Baunit MosaikTop	Individual values: no performance assessed Minimal value: 86	91 (≥ 80) thickness 4,5 mm
Baunit MosaikSuperFine	Individual values: no performance assessed Minimal value: 86	91 (≥ 80) thickness 4,5 mm
Baunit FineTop	Individual values: no performance assessed Minimal value: 88	91 (≥ 80) thickness 4,5 mm
Baunit NanoporFine	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 4,5 mm
Baunit StarTop Fine	Individual values: no performance assessed Minimal value: 103	104 (≥ 80) thickness 4,2 mm
Baunit PuraTop Fine	Individual values: no performance assessed Minimal value: 97	99 (≥ 80) thickness 4,2 mm
Baunit GranoporFine	Individual values: no performance assessed Minimal value: 91	94 (≥ 80) thickness 4,5 mm
Failure occurred in the insulation product in all cases.		

**Table 58 – Bond strength of rendering systems after ageing
(2.2.20.2 EAD 040083-00-0404)**

Baunit StarContact light		Individual values in kPa Minimal value in kPa	Mean value in kPa
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baunit SilikatTop	Individual values: no performance assessed Minimal value: 80	90 (≥ 80) thickness 4,5 mm
	Baunit NanoporTop	Individual values: no performance assessed Minimal value: 89	91 (≥ 80) thickness 4,5 mm
	Baunit StarTop	Individual values: no performance assessed Minimal value: 98	100 (≥ 80) thickness 4,5 mm
	Baunit SilikonTop	Individual values: no performance assessed Minimal value: 92	97 (≥ 80) thickness 4,5 mm

Baunit SiliporTop	Individual values: no performance assessed Minimal value: 87	89 (≥ 80) thickness 4,5 mm
Baunit GranoporTop	Individual values: no performance assessed Minimal value: 88	91 (≥ 80) thickness 4,5 mm
Baunit StyleTop	Individual values: no performance assessed Minimal value: 91	94 (≥ 80) thickness 4,5 mm
Baunit PuraTop	Individual values: no performance assessed Minimal value: 92	96 (≥ 80) thickness 4,5 mm
Baunit Fascina Special	Individual values: no performance assessed Minimal value: 87	90 (≥ 80) thickness 4,5 mm
Baunit CreativTop	Individual values: no performance assessed Minimal value: 86	88 (≥ 80) thickness 4,0 mm
Baunit StellaporTop	Individual values: no performance assessed Minimal value: 88	93 (≥ 80) thickness 3,8 mm
Baunit MosaikTop	Individual values: no performance assessed Minimal value: 85	90 (≥ 80) thickness 3,8 mm
Baunit MosaikSuperFine	Individual values: no performance assessed Minimal value: 85	90 (≥ 80) thickness 3,8 mm
Baunit FineTop	Individual values: no performance assessed Minimal value: 88	91 (≥ 80) thickness 4,0 mm
Baunit NanoporFine	Individual values: no performance assessed Minimal value: 90	92 (≥ 80) thickness 4,0 mm
Baunit StarTop Fine	Individual values: no performance assessed Minimal value: 100	103 (≥ 80) thickness 4,2 mm
Baunit PuraTop Fine	Individual values: no performance assessed Minimal value: 97	98 (≥ 80) thickness 4,2 mm

Baunit GranoporFine	Individual values: no performance assessed Minimal value: 89	91 (≥ 80) thickness 4,0 mm
Failure occurred in the insulation product in all cases.		

**Table 59 – Bond strength of rendering systems after ageing
(2.2.20.2 EAD 040083-00-0404)**

Baunit StarContact white		Individual values in kPa Minimal value in kPa	Mean value in kPa
	Baunit SilikatTop	Individual values: no performance assessed Minimal value: 81	89 (≥ 80) thickness 4,5 mm
	Baunit NanoporTop	Individual values: no performance assessed Minimal value: 90	92 (≥ 80) thickness 4,5 mm
	Baunit NanoporTop*	Individual values: no performance assessed Minimal value: 136	141 (≥ 80) thickness 6,2 mm
	Baunit StarTop	Individual values: no performance assessed Minimal value: 98	99 (≥ 80) thickness 4,5 mm
	Baunit SilikonTop	Individual values: no performance assessed Minimal value: 93	96 (≥ 80) thickness 4,5 mm
	Baunit SiliporTop	Individual values: no performance assessed Minimal value: 90	91 (≥ 80) thickness 4,5 mm
	Baunit GranoporTop	Individual values: no performance assessed Minimal value: 88	91 (≥ 80) thickness 4,5 mm
	Baunit StyleTop	Individual values: no performance assessed Minimal value: 90	94 (≥ 80) thickness 4,5 mm
	Baunit PuraTop	Individual values: no performance assessed Minimal value: 89	91 (≥ 80) thickness 4,5 mm
	Baunit Fascina Special	Individual values: no performance assessed Minimal value: 94	96 (≥ 80) thickness 4,0 mm

Baunit CreativTop	Individual values: no performance assessed Minimal value: 87	89 (≥ 80) thickness 4,0 mm
Baunit StellaporTop	Individual values: no performance assessed Minimal value: 86	89 (≥ 80) thickness 4,5 mm
Baunit StellaporTop*	Individual values: no performance assessed Minimal value: 136	152 (≥ 80) thickness 4,5 mm
Baunit MosaikTop	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 4,5 mm
Baunit MosaikSuperFine	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 4,5 mm
Baunit FineTop	Individual values: no performance assessed Minimal value: 90	94 (≥ 80) thickness 4,0 mm
Baunit NanoporFine	Individual values: no performance assessed Minimal value: 90	94 (≥ 80) thickness 4,0 mm
Baunit NanoporFine*	Individual values: no performance assessed Minimal value: 128	152 (≥ 80) thickness 3,8 mm
Baunit StarTop Fine	Individual values: no performance assessed Minimal value: 97	100 (≥ 80) thickness 4,2 mm
Baunit PuraTop Fine	Individual values: no performance assessed Minimal value: 97	99 (≥ 80) thickness 4,2 mm
Baunit GranoporFine	Individual values: no performance assessed Minimal value: 90	95 (≥ 80) thickness 4,0 mm
*Tested according 2.2.20.1 EAD 040083-00-0404.		

**Table 60 – Bond strength of rendering systems after ageing
(2.2.20.2 EAD 040083-00-0404)**

Baumit StarContact forte		Individual values in kPa Minimal value in kPa	Mean value in kPa
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baumit SilikatTop	Individual values: no performance assessed Minimal value: 88	91 (≥ 80) thickness 6,5 mm
	Baumit NanoporTop	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 6,5 mm
	Baumit StarTop	Individual values: no performance assessed Minimal value: 95	99 (≥ 80) thickness 6,5 mm
	Baumit SilikonTop	Individual values: no performance assessed Minimal value: 94	97 (≥ 80) thickness 6,5 mm
	Baumit SiliporTop	Individual values: no performance assessed Minimal value: 83	89 (≥ 80) thickness 6,5 mm
	Baumit GranoporTop	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 6,5 mm
	Baumit StyleTop	Individual values: no performance assessed Minimal value: 86	90 (≥ 80) thickness 6,5 mm
	Baumit PuraTop	Individual values: no performance assessed Minimal value: 92	96 (≥ 80) thickness 6,5 mm
	Baumit Fascina Special	Individual values: no performance assessed Minimal value: 85	93 (≥ 80) thickness 6,0 mm
	Baumit CreativTop	Individual values: no performance assessed Minimal value: 88	90 (≥ 80) thickness 6,0 mm
	Baumit StellaporTop	Individual values: no performance assessed Minimal value: 86	91 (≥ 80) thickness 6,5 mm
	Baumit MosaikTop	Individual values: no performance assessed Minimal value: 88	94 (≥ 80) thickness 6,8 mm

	Baunit MosaikSuperFine	Individual values: no performance assessed Minimal value: 88	94 (≥ 80) thickness 6,8 mm
	Baunit FineTop	Individual values: no performance assessed Minimal value: 86	89 (≥ 80) thickness 6,0 mm
	Baunit NanoporFine	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 6,0 mm
	Baunit StarTop Fine	Individual values: no performance assessed Minimal value: 99	101 (≥ 80) thickness 6,2 mm
	Baunit PuraTop Fine	Individual values: no performance assessed Minimal value: 100	102 (≥ 80) thickness 6,2 mm
	Baunit GranoporFine	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 6,0 mm

**Table 61 – Bond strength of rendering systems after ageing
(2.2.20.1 and 2.2.20.2 EAD 040083-00-0404)**

Baunit StarContact Speed		Individual values in kPa Minimal value in kPa	Mean value in kPa
Rendering systems: base coat + key coats according to Clause 1.1 + finishing coats indicated hereafter:	Baunit SilikatTop*	Individual values: no performance assessed Minimal value: 85	88 (≥ 80) thickness 4,5 mm
	Baunit NanoporTop	Individual values: no performance assessed Minimal value: 91	93 (≥ 80) thickness 4,5 mm
	Baunit StarTop	Individual values: no performance assessed Minimal value: 90	95 (≥ 80) thickness 4,5 mm
	Baunit SilikonTop	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 4,5 mm
	Baunit SiliporTop	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 4,5 mm

Baunit GranoporTop	Individual values: no performance assessed Minimal value: 86	90 (≥ 80) thickness 4,5 mm
Baunit StyleTop	Individual values: no performance assessed Minimal value: 91	95 (≥ 80) thickness 4,5 mm
Baunit PuraTop	Individual values: no performance assessed Minimal value: 94	98 (≥ 80) thickness 4,5 mm
Baunit Fascina Special	Individual values: no performance assessed Minimal value: 90	94 (≥ 80) thickness 4,0 mm
Baunit CreativTop*	Individual values: no performance assessed Minimal value: 85	90 (≥ 80) thickness 4,0 mm
Baunit StellaporTop	Individual values: no performance assessed Minimal value: 88	92 (≥ 80) thickness 4,5 mm
Baunit MosaikTop	Individual values: no performance assessed Minimal value: 90	92 (≥ 80) thickness 3,8 mm
Baunit MosaikSuperFine*	Individual values: no performance assessed Minimal value: 90	92 (≥ 80) thickness 3,8 mm
Baunit FineTop	Individual values: no performance assessed Minimal value: 85	90 (≥ 80) thickness 4,0 mm
Baunit NanoporFine*	Individual values: no performance assessed Minimal value: 85	93 (≥ 80) thickness 4,0 mm
Baunit StarTop Fine	Individual values: no performance assessed Minimal value: 98	99 (≥ 80) thickness 4,2 mm
Baunit PuraTop Fine	Individual values: no performance assessed Minimal value: 94	96 (≥ 80) thickness 4,2 mm
Baunit GranoporFine	Individual values: no performance assessed Minimal value: 88	92 (≥ 80) thickness 4,0 mm

* Tested according to 2.2.20.1 and 2.2.20.2 EAD 040083-00-0404.

**Table 62 – Bond strength of rendering systems after ageing
(2.2.20.2 EAD 040083-00-0404)**

Baumit EasyFlex		Individual values in kPa Minimal value in kPa	Mean value in kPa
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit SilikatTop	Individual values: no performance assessed Minimal value: 90	94 (≥ 80) thickness 4,5 mm
	Baumit NanoporTop	Individual values: no performance assessed Minimal value: 90	97 (≥ 80) thickness 4,5 mm
	Baumit StarTop	Individual values: no performance assessed Minimal value: 87	92 (≥ 80) thickness 4,5 mm
	Baumit SilikonTop	Individual values: no performance assessed Minimal value: 93	97 (≥ 80) thickness 4,5 mm
	Baumit SiliporTop	Individual values: no performance assessed Minimal value: 90	92 (≥ 80) thickness 4,5 mm
	Baumit GranoporTop	Individual values: no performance assessed Minimal value: 88	90 (≥ 80) thickness 4,5 mm
	Baumit StyleTop	Individual values: no performance assessed Minimal value: 91	93 (≥ 80) thickness 4,5 mm
	Baumit PuraTop	Individual values: no performance assessed Minimal value: 93	99 (≥ 80) thickness 4,5 mm
	Baumit Fascina Special	Individual values: no performance assessed Minimal value: 86	90 (≥ 80) thickness 4,0 mm
	Baumit CreativTop	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 4,0 mm
	Baumit StellaporTop	Individual values: no performance assessed Minimal value: 91	94 (≥ 80) thickness 4,5 mm
	Baumit MosaikTop	Individual values: no performance assessed Minimal value: 91	93 (≥ 80) thickness 3,8 mm

Baunit MosaikSuperFine	Individual values: no performance assessed Minimal value: 91	93 (≥ 80) thickness 3,8 mm
Baunit FineTop	Individual values: no performance assessed Minimal value: 89	92 (≥ 80) thickness 4,0 mm
Baunit NanoporFine	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 4,0 mm
Baunit StarTop Fine	Individual values: no performance assessed Minimal value: 97	99 (≥ 80) thickness 4,2 mm
Baunit PuraTop Fine	Individual values: no performance assessed Minimal value: 98	100 (≥ 80) thickness 4,2 mm
Baunit GranoporFine	Individual values: no performance assessed Minimal value: 90	95 (≥ 80) thickness 4,0 mm

**Table 63 – Bond strength of rendering systems after ageing
(2.2.20.2 EAD 040083-00-0404)**

Baumit PowerFlex		Individual values in kPa Minimal value in kPa	Mean value in kPa
Rendering systems: base coat + finishing coats indicated hereafter:	Baumit SilikatTop	Individual values: no performance assessed Minimal value: 91	93 (≥ 80) thickness 4,5 mm
	Baumit NanoporTop	Individual values: no performance assessed Minimal value: 95	98 (≥ 80) thickness 4,5 mm
	Baumit StarTop	Individual values: no performance assessed Minimal value: 87	94 (≥ 80) thickness 4,5 mm
	Baumit SilikonTop	Individual values: no performance assessed Minimal value: 91	96 (≥ 80) thickness 4,5 mm
	Baumit SilporTop	Individual values: no performance assessed Minimal value: 94	96 (≥ 80) thickness 4,5 mm
	Baumit GranoporTop	Individual values: no performance assessed Minimal value: 87	91 (≥ 80) thickness 4,5 mm
	Baumit StyleTop	Individual values: no performance assessed Minimal value: 90	93 (≥ 80) thickness 4,5 mm
	Baumit PuraTop	Individual values: no performance assessed Minimal value: 95	98 (≥ 80) thickness 4,5 mm
	Baumit Fascina Special	Individual values: no performance assessed Minimal value: 85	92 (≥ 80) thickness 4,0 mm
	Baumit CreativTop	Individual values: no performance assessed Minimal value: 90	92 (≥ 80) thickness 4,0 mm
	Baumit StellaporTop	Individual values: no performance assessed Minimal value: 85	92 (≥ 80) thickness 4,5 mm
	Baumit MosaikTop	Individual values: no performance assessed Minimal value: 90	94 (≥ 80) thickness 3,8 mm

	Baunit MosaikSuperFine	Individual values: no performance assessed Minimal value: 90	94 (≥ 80) thickness 3,8 mm
	Baunit FineTop	Individual values: no performance assessed Minimal value: 87	91 (≥ 80) thickness 4,0 mm
	Baunit NanoporFine	Individual values: no performance assessed Minimal value: 90	95 (≥ 80) thickness 4,0 mm
	Baunit StarTop Fine	Individual values: no performance assessed Minimal value: 95	97 (≥ 80) thickness 4,2 mm
	Baunit PuraTop Fine	Individual values: no performance assessed Minimal value: 95	96 (≥ 80) thickness 4,2 mm
	Baunit GranoporFine	Individual values: no performance assessed Minimal value: 91	96 (≥ 80) thickness 4,0 mm

3.3.10 Tensile strength and elongation of the glass fibre mesh in the as-delivered state and after ageing (2.2.21.1 and 2.2.21.2 EAD 040083-00-0404)

Table 64 – Tensile strength and elongation of the glass fibre mesh

Mesh type (Trade name + ETA No.)	Characteristic	Warp direction	Weft direction
03-43 (ETA 18/0857)	Mean value of tensile strength in the as delivered state	48,7 N/mm	44,9 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	26,1 N/mm	26 N/mm
	Mean value of elongation in the as delivered state	4,3 %	4,4 %
	Mean value of elongation after ageing	2,4 %	2,4 %
	Residual strength after ageing (≥ 50 %)	53,6 %	57,9 %
03-08 (ETA 18/0857)	Mean value of tensile strength in the as delivered state	55,4 N/mm	65,7 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	28,3 N/mm	46,1 N/mm
	Mean value of elongation in the as delivered state	3,7 %	4,0 %
	Mean value of elongation after ageing	1,9 %	2,8 %
	Residual strength after ageing (≥ 50 %)	51,1 %	70,2 %
SSA-1363- 145	Mean value of tensile strength	49 N/mm	50 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	25 N/mm	29 N/mm

	Mean value of elongation in the as delivered state	3,8 %	3,7 %
	Mean value of elongation after ageing	2,1 %	2,3 %
	Residual strength after ageing (≥ 50 %)	51 %	58 %
SSA-1363-160	Mean value of tensile strength	43 N/mm	45 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	26 N/mm	29 N/mm
	Mean value of elongation in the as delivered state	3,6 %	3,9 %
	Mean value of elongation after ageing	2,3 %	2,3 %
	Residual strength after ageing (≥ 50 %)	60,5 N/mm	64,4 N/mm
Primafas 145 (ETA 18/0168)	Mean value of tensile strength	36 N/mm	52 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	20 N/mm	36 N/mm
	Mean value of elongation in the as delivered state	3,5 %	4,2 %
	Mean value of elongation after ageing	1,8 %	2,7 %
	Residual strength after ageing (≥ 50 %)	55,6 N/mm	69,2 N/mm
Primafas 160 (ETA 18/0168)	Mean value of tensile strength	39 N/mm	51 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	24 N/mm	31 N/mm
	Mean value of elongation in the as delivered state	3,5 %	4,5 %
	Mean value of elongation after ageing	2,1 %	2,5 %
	Residual strength after ageing (≥ 50 %)	61,5 N/mm	60,8 N/mm
R 116 A101 (ETA 13/0392)	Mean value of tensile strength in the as delivered state	46 N/mm	45 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	31 N/mm	30 N/mm
	Mean value of elongation in the as delivered state	3,8 %	4,1 %
	Mean value of elongation after ageing	2,6 %	2,7 %
	Residual strength after ageing (≥ 50 %)	67,4 %	66,7 %
R 117 A101 (ETA 13/0392)	Mean value of tensile strength in the as delivered state	45 N/mm	47 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	23 N/mm	28 N/mm
	Mean value of elongation in the as delivered state	3,7 %	4,2 %
	Mean value of elongation after ageing	2,1 %	2,4 %
	Residual strength after ageing (≥ 50 %)	51,1 %	59,6 %
R 131 A101 (ETA 13/0392)	Mean value of tensile strength	48 N/mm	50 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	33 N/mm	38 N/mm
	Mean value of elongation in the as delivered state	3,9 %	4,0 %
	Mean value of elongation after ageing	2,9 %	3,0 %
	Residual strength after ageing (≥ 50 %)	68,8 %	76,0 %

41-112 / ES-L (ETA 17/0731)	Mean value of tensile strength	35,6 N/mm	51,5 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	21,7 N/mm	37,7 N/mm
	Mean value of elongation in the as delivered state	2,57 %	3,10 %
	Mean value of elongation after ageing	1,57 %	2,45 %
	Residual strength after ageing (≥ 50 %)	61 %	73,2 %
117S (ETA 16/0546)	Mean value of tensile strength	35,0 N/mm	50,0 N/mm
	Mean value of tensile strength after ageing (≥ 20 N/mm)	20,0 N/mm	29,0 N/mm
	Mean value of elongation in the as delivered state	3,7 %	4,0 %
	Mean value of elongation after ageing	2,2 %	2,4 %
	Residual strength after ageing (≥ 50 %)	57 %	58 %

3.4 Protection against noise (BWR 5)

3.4.1 Airborne sound insulation of ETICS (2.2.22.1 EAD 040083-00-0404)

No performance assessed.

3.4.2 Dynamic stiffness of the thermal insulation product (2.2.22.2 EAD 040083-00-0404)

No performance assessed.

3.4.3 Air flow resistance of the thermal insulation product (2.2.22.3 EAD 040083-00-0404)

No performance assessed.

3.5 Energy economy and heat retention (BWR 6)

3.5.1 Thermal resistance and thermal transmittance of ETICS (2.2.23 EAD 040083-00-0404)

The thermal transmittance of the substrate wall covered by the ETICS is **calculated** in accordance with the standard EN ISO 6946:

$$U_c = U + \chi_p \cdot n$$

- where $\chi_p \cdot n$ has only to be taken into account if it is greater than 0,04 W/(m².K);
- U_c global (corrected) thermal transmittance of the covered wall (W/(m².K));
- n number of anchors (through insulation product) 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:
- = 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 ($\chi_p \cdot n$ negligible for $n < 20$);
 - = 0,004 W/K for anchors with a galvanized steel screw with the head covered by a plastic material ($\chi_p \cdot n$ negligible for $n < 10$);
 - = negligible for anchors with plastic nails (reinforced or not with glass fibres ...);
- U thermal transmittance of the current part of the covered wall (excluding thermal bridges) (W/ (m².K)) determined as follows:

$$U_c = \frac{1}{R_i + R_{render} + R_{substrate} + R_{se} + R_{si}}$$

- where R_i thermal resistance of the insulation product (according to declaration in reference to EN 13163) in (m².K)/W;
- R_{render} thermal resistance of the render (about 0,02 in (m².K)/W or determined by test according to EN 12667 or EN 12664);
- $R_{substrate}$ thermal resistance of the substrate of the building (concrete, brick ...) in (m².K)/W;
- R_{se} external superficial thermal resistance in (m².K)/W;
- R_{si} internal superficial thermal resistance in (m².K)/W.

Thermal resistance of ETICS ($R_{ETICS} = R_i + R_{render}$) is $\geq 1,0$ (m².K)/W.

The value of thermal resistance of each insulation product shall be given in the manufacturer's documentation along with the possible range of thicknesses. In addition, the point thermal conductivity of anchors shall be given when anchors are used in the ETICS.

**3.5.2 Thermal resistance of the thermal insulation product
(2.2.23.1 EAD 040083-00-0404)**

The range value of thermal resistance of thermal insulation product is from 0,031 (m².K)/W to 0,038 (m².K)/W (comes from Declaration of performance issued for thermal insulations).

4 Assessment and verification of constancy of performance (hereinafter 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 AVCP systems (further described in Annex V to Regulation (EU) No. 305/2011) 1 and 2+ apply.

Table 65 – Assessment and verification of constancy of performance system

Product(s)	Intended use(s)	Level(s) or class(es) (Reaction to fire)	System(s)
External thermal insulation composite systems/kits (ETICS) with rendering	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+
	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 EAD

In order to help the Notified Body to make an evaluation of conformity, the Technical Assessment Body issuing the ETA shall supply the information detailed below. This information together with the requirements given in EC Guidance Paper B will generally form the basis on which the factory production control (FPC) is assessed by the Notified Body.

This information shall initially be prepared or collected by the Technical Assessment Body and shall be agreed with the manufacturer. The following gives guidance on the type of information required:

1) The ETA

Where confidentiality of information is required, this ETA makes reference to the manufacturer's technical documentation which contains such information.

2) Basic manufacturing process

The basic manufacturing process is described in sufficient detail to support the proposed FPC methods.

The different components of ETICS are generally manufactured using conventional techniques. Any critical process or treatment of the components which affects performance are highlighted in the manufacturer's documentation.

3) Product and materials specifications

The manufacturer's documentation includes:

- detailed drawings (possibly including manufacturing tolerances);
- incoming (raw) materials specifications and declarations;
- references to European and/or international standards;
- technical data sheets.

4) Control Plan (as a part of FPC)

The manufacturer and the Technický a skúšobný ústav stavebný, n. o. have agreed a Control Plan which is deposited with the Technický a skúšobný ústav stavebný, n. o. in documentation which accompanies the ETA. The Control Plan specifies the type and frequency of checks/tests conducted during production and on the final product. This includes the checks conducted during manufacture on properties that cannot be inspected at a later stage and for checks on the final product.

Products not manufactured by the ETICS manufacturer shall also be tested according to the Control Plan. It must be demonstrated to the Notified Body that the FPC system contains elements securing that the ETICS manufacturer takes products conforming to the Control Plan from his supplier(s).

Where materials/components are not manufactured and tested by the supplier in accordance with agreed methods, then where appropriate they shall be subject to suitable checks/tests by the ETICS manufacturer before acceptance.

In cases where the provisions of the European Technical Assessment and its Control Plan are no longer fulfilled, the Notified Body shall withdraw the certificate and inform Technický a skúšobný ústav stavebný, n. o. without delay.

Technický a skúšobný ústav stavebný, n. o.
Building Testing and Research Institute
Studená 3, 821 04 Bratislava, Slovak Republic

On behalf of the Technický a skúšobný ústav stavebný, n. o.

Bratislava, 14 June 2021



prof. Ing. Zuzana Sternová, PhD.
Head of Technical Assessment Body

Annexes

Annex 1 – Insulation product characteristics

Annex 2 – Description and characteristics of the anchors

Annex 3 – Description and characteristics of the reinforcement

Annex 4 – Correspondence between trade names used for components Baumit StarSystem EPS

Annex 1 – Insulation product characteristics

Table 67 – Characteristics of the insulation product(s)

Description and characteristics	EPS panel “Baumit ProTherm (100)” <i>white color</i>	
	for bonded ETICS	for mechanically fixed ETICS with anchors
Reaction to fire / STN EN 13501-1	Euroclass E (thickness from 20 to 420 mm, density from 13,5 to 25 kg/m ³)	
Thermal resistance ((m ² .K)/W)	Defined in the CE marking in reference to EN 13163 "Thermal insulation products for buildings – Factory made products of expanded polystyrene" $\lambda_{ins}: < 0,038 \text{ W/(m}\cdot\text{K)}$ (declared value)	
Thickness (mm) / EN 823	EPS - EN 13163 – T1	
Length (mm) / EN 822	EPS - EN 13163 – L2 EPS - EN 13163 – L3	
Width (mm) / EN 822	EPS - EN 13163 – W2	
Squareness (mm) / EN 824	EPS - EN 13163 – S2 EPS - EN 13163 – S5	
Flatness (mm) / EN 825	EPS - EN 13163 – P5 EPS - EN 13163 – P10	
Surface condition	Cut surface (homogeneous and without "skin")	
Dimensional stability under	specified temperature and humidity / EN 1604	EPS - EN 13163 – DS(70,-)1 EPS - EN 13163 – DS(70,-)2
	laboratory condition / EN 1603	EPS - EN 13163 – DS(N)2
Bending strength according to EN 12089	EPS - EN 13163 – BS115	
Compressive stress or compressive strength (kPa) / EN 826	EPS - EN 13163 – CS(10)70	
Tensile strength perpendicular to the faces in dry conditions / EN 1607	$\geq 100 \text{ kPa}$ and $< 150 \text{ kPa}$, EPS - EN 13163 – TR100	
Short term water absorption by partial immersion / EN 1609	$< 0,5 \text{ kg/m}^2$	
Water vapour diffusion resistance factor (μ) / EN 12086	≥ 20 ≤ 60	
Shear strength (N/mm ²) / EN 12090	$\geq 0,02 \text{ MPa}$	–
Shear modulus (N/mm ²) / EN 12090	$\geq 1,0 \text{ MPa}$	–

Table 68 – Characteristics of the insulation product(s)

Description and characteristics		EPS panel "Baumit StarTherm (100)" <i>grey color</i>	
		for bonded ETICS	for mechanically fixed ETICS with anchors
Reaction to fire / STN EN 13501-1		Euroclass E (thickness from 20 to 420 mm, density from 13,5 to 25 kg/m ³)	
Thermal resistance ((m ² .K)/W)		Defined in the CE marking in reference to EN 13163 "Thermal insulation products for buildings – Factory made products of expanded polystyrene" $\lambda_{ins}: < 0,031 \text{ W/(m}\cdot\text{K)}$ (declared value)	
Thickness (mm) / EN 823		EPS - EN 13163 – T1	
Length (mm) / EN 822		EPS - EN 13163 – L2 EPS - EN 13163 – L3	
Width (mm) / EN 822		EPS - EN 13163 – W2	
Squareness (mm) / EN 824		EPS - EN 13163 – S2 EPS - EN 13163 – S5	
Flatness (mm) / EN 825		EPS - EN 13163 – P5 EPS - EN 13163 – P10	
Surface condition		Cut surface (homogeneous and without "skin")	
Dimensional stability under	specified temperature and humidity / EN 1604	EPS - EN 13163 – DS(70,-)1 EPS - EN 13163 – DS(70,-)2	
	laboratory condition / EN 1603	EPS - EN 13163 – DS(N)2	
Bending strength according to EN 12089		EPS - EN 13163 – BS115	
Compressive stress or compressive strength (kPa) / EN 826		EPS - EN 13163 – CS(10)70	
Tensile strength perpendicular to the faces in dry conditions / EN 1607		$\geq 100 \text{ kPa}$ and $< 150 \text{ kPa}$, EPS - EN 13163 – TR100	
Short term water absorption by partial immersion / EN 1609		$< 0,5 \text{ kg/m}^2$	
Water vapour diffusion resistance factor (μ) / EN 12086		≥ 20 ≤ 60	
Shear strength (N/mm ²) / EN 12090		$\geq 0,02 \text{ MPa}$	–
Shear modulus (N/mm ²) / EN 12090		$\geq 1,0 \text{ MPa}$	–

Table 69 – Characteristics of the insulation product(s)

Description and characteristics		EPS panel "Baumit ProTherm (120)" <i>white color</i>	
		for bonded ETICS	for mechanically fixed ETICS with anchors
Reaction to fire / STN EN 13501-1		Euroclass E (thickness from 20 to 420 mm, density from 13,5 to 25 kg/m ³)	
Thermal resistance ((m ² .K)/W)		Defined in the CE marking in reference to EN 13163 "Thermal insulation products for buildings – Factory made products of expanded polystyrene" $\lambda_{ins}: < 0,038 \text{ W/(m}\cdot\text{K)}$ (declared value)	
Thickness (mm) / EN 823		EPS - EN 13163 – T1 EPS - EN 13163 – T2	
Length (mm) / EN 822		EPS - EN 13163 – L2 EPS - EN 13163 – L3	
Width (mm) / EN 822		EPS - EN 13163 – W2	
Squareness (mm) / EN 824		EPS - EN 13163 – S2 EPS - EN 13163 – S5	
Flatness (mm) / EN 825		EPS - EN 13163 – P5 EPS - EN 13163 – P10	
Surface condition		Cut surface (homogeneous and without "skin")	
Dimensional stability under	specified temperature and humidity / EN 1604	EPS - EN 13163 – DS(70,-)1 EPS - EN 13163 – DS(70,-)2	
	laboratory condition / EN 1603	EPS - EN 13163 – DS(N)2	
Bending strength according to EN 12089		EPS - EN 13163 – BS115	
Compressive stress or compressive strength (kPa) / EN 826		EPS - EN 13163 – CS(10)70	
Tensile strength perpendicular to the faces in dry conditions / EN 1607		$\geq 120 \text{ kPa}$ and $< 150 \text{ kPa}$, EPS - EN 13163 – TR120	
Short term water absorption by partial immersion / EN 1609		$< 0,5 \text{ kg/m}^2$	
Water vapour diffusion resistance factor (μ) / EN 12086		≥ 20 ≤ 60	
Shear strength (N/mm ²) / EN 12090		$\geq 0,02 \text{ MPa}$	–
Shear modulus (N/mm ²) / EN 12090		$\geq 1,0 \text{ MPa}$	–

Table 70 – Characteristics of the insulation product(s)

Description and characteristics		EPS panel “Baumit ProTherm (120)” <i>grey color</i>	
		for bonded ETICS	for mechanically fixed ETICS with anchors
Reaction to fire / STN EN 13501-1		Euroclass E (thickness from 20 to 420 mm, density from 13,5 to 25 kg/m ³)	
Thermal resistance ((m ² .K)/W)		Defined in the CE marking in reference to EN 13163 "Thermal insulation products for buildings – Factory made products of expanded polystyrene" $\lambda_{ins}: < 0,031 \text{ W/(m}\cdot\text{K)}$ (declared value)	
Thickness (mm) / EN 823		EPS - EN 13163 – T1 EPS - EN 13163 – T2	
Length (mm) / EN 822		EPS - EN 13163 – L2 EPS - EN 13163 – L3	
Width (mm) / EN 822		EPS - EN 13163 – W2	
Squareness (mm) / EN 824		EPS - EN 13163 – S2 EPS - EN 13163 – S5	
Flatness (mm) / EN 825		EPS - EN 13163 – P5 EPS - EN 13163 – P10	
Surface condition		Cut surface (homogeneous and without "skin")	
Dimensional stability under	specified temperature and humidity / EN 1604	EPS - EN 13163 – DS(70,-)1 EPS - EN 13163 – DS(70,-)2	
	laboratory condition / EN 1603	EPS - EN 13163 – DS(N)2	
Bending strength according to EN 12089		EPS - EN 13163 – BS115	
Compressive stress or compressive strength (kPa) / EN 826		EPS - EN 13163 – CS(10)70	
Tensile strength perpendicular to the faces in dry conditions / EN 1607		$\geq 120 \text{ kPa}$ and $< 150 \text{ kPa}$, EPS - EN 13163 – TR120	
Short term water absorption by partial immersion / EN 1609		$< 0,5 \text{ kg/m}^2$	
Water vapour diffusion resistance factor (μ) / EN 12086		≥ 20 ≤ 60	
Shear strength (N/mm ²) / EN 12090		$\geq 0,02 \text{ MPa}$	–
Shear modulus (N/mm ²) / EN 12090		$\geq 1,0 \text{ MPa}$	–

Table 71 – Characteristics of the insulation product(s)

Description and characteristics		EPS panel "Baumit ProTherm (150)" <i>white color</i>	
		for bonded ETICS	for mechanically fixed ETICS with anchors
Reaction to fire / STN EN 13501-1		Euroclass E (thickness from 20 to 420 mm, density from 13,5 to 25 kg/m ³)	
Thermal resistance ((m ² .K)/W)		Defined in the CE marking in reference to EN 13163 "Thermal insulation products for buildings – Factory made products of expanded polystyrene" λ_{ins} : < 0,038 W/(m·K) (declared value)	
Thickness (mm) / EN 823		EPS - EN 13163 – T1	
Length (mm) / EN 822		EPS - EN 13163 – L2 EPS - EN 13163 – L3	
Width (mm) / EN 822		EPS - EN 13163 – W2	
Squareness (mm) / EN 824		EPS - EN 13163 – S2 EPS - EN 13163 – S5	
Flatness (mm) / EN 825		EPS - EN 13163 – P5 EPS - EN 13163 – P10	
Surface condition		Cut surface (homogeneous and without "skin")	
Dimensional stability under	specified temperature and humidity / EN 1604	EPS - EN 13163 – DS(70,-)1 EPS - EN 13163 – DS(70,-)2	
	laboratory condition / EN 1603	EPS - EN 13163 – DS(N)2	
Bending strength according to EN 12089		EPS - EN 13163 – BS115	
Compressive stress or compressive strength (kPa) / EN 826		EPS - EN 13163 – CS(10)70	
Tensile strength perpendicular to the faces in dry conditions / EN 1607		≥ 150 kPa and < 200 kPa, EPS - EN 13163 – TR150	
Short term water absorption by partial immersion / EN 1609		< 0,5 kg/m ²	
Water vapour diffusion resistance factor (μ) / EN 12086		≥ 20 ≤ 60	
Shear strength (N/mm ²) / EN 12090		≥ 0,02 MPa	–
Shear modulus (N/mm ²) / EN 12090		≥ 1,0 MPa	–

Table 72 – Characteristics of the insulation product(s)

Description and characteristics		EPS panel “Baumit StarTherm (150)” <i>grey color</i>	
		for bonded ETICS	for mechanically fixed ETICS with anchors
Reaction to fire / STN EN 13501-1		Euroclass E (thickness from 20 to 420 mm, density from 13,5 to 25 kg/m ³)	
Thermal resistance ((m ² .K)/W)		Defined in the CE marking in reference to EN 13163 "Thermal insulation products for buildings – Factory made products of expanded polystyrene" $\lambda_{ins}: < 0,031 \text{ W/(m}\cdot\text{K)}$ (declared value)	
Thickness (mm) / EN 823		EPS - EN 13163 – 1	
Length (mm) / EN 822		EPS - EN 13163 – L2 EPS - EN 13163 – L3	
Width (mm) / EN 822		EPS - EN 13163 – W2	
Squareness (mm) / EN 824		EPS - EN 13163 – S2 EPS - EN 13163 – S5	
Flatness (mm) / EN 825		EPS - EN 13163 – P5 EPS - EN 13163 – P10	
Surface condition		Cut surface (homogeneous and without "skin")	
Dimensional stability under	specified temperature and humidity / EN 1604	EPS - EN 13163 – DS(70,-)1 EPS - EN 13163 – DS(70,-)2	
	laboratory condition / EN 1603	EPS - EN 13163 – DS(N)2	
Bending strength according to EN 12089		EPS - EN 13163 – BS115	
Compressive stress or compressive strength (kPa) / EN 826		EPS - EN 13163 – CS(10)70	
Tensile strength perpendicular to the faces in dry conditions / EN 1607		$\geq 150 \text{ kPa}$ and $< 200 \text{ kPa}$, EPS - EN 13163 – TR150	
Short term water absorption by partial immersion / EN 1609		$< 0,5 \text{ kg/m}^2$	
Water vapour diffusion resistance factor (μ) / EN 12086		≥ 20 ≤ 60	
Shear strength (N/mm ²) / EN 12090		$\geq 0,02 \text{ MPa}$	–
Shear modulus (N/mm ²) / EN 12090		$\geq 1,0 \text{ MPa}$	–

Annex 2 – Description and characteristics of anchors

Table 73 – References to ETAs for anchors used in ETICS

Trade name	Description Plate stiffness/Load resistance of the anchor plate	Plate diameter mm	Characteristic resistance in substrate stated in
Baumit SDX 8	Nailed in plastic anchor with nail made from polyamide 0,6 kN/mm/1,6 kN Use of category: A, B, C, D, E	60/65	ETA-14/0399
Baumit S SchraubDübel/Baumit N SchlagDübel	Screwed-in plastic anchor with galvanized or stainless steel screw (Baumit S) and nailed-in plastic anchor with galvanized steel overmolded with polyamide (Baumit N) 1,5 kN/mm/2,7 kN Use category (Baumit S): A, B, C, D, E Use category (Baumit N): A, B, C, D, E	60	ETA-17/0078
Bravoll PTH-KZ 60/8/Bravoll PTH 60/8	Nailed-in plastic anchor with (polyamide – PTH) (steel – PTH-KZ) nail and plastic head 0,4 kN/mm/1,8 kN Use of category (Bravoll PTH 60/8): A, B Use of category (Bravoll PTH-KZ 60/8): A, B, C, D	60	ETA-05/0055
EJOT ejothem NTK U	Nailed-in plastic anchor with polyamide nail and plastic head 0,5 kN/mm/1,4 kN Use of category: A, B, C	60	ETA-07/0026
Ejot H1 eco	Nailed-in plastic anchor with steel nail 0,6 kN/mm/1,4 kN Use of category: A, B, C	60	ETA-11/0192
Ejot H4 eco	Nailed-in plastic anchor with polyamide nail 0,6 kN/mm/1,4 kN Use of category: A, B, C, D, E	60	ETA-11/0192
EJOT H3	Nailed-in plastic anchor with polyamide nail 0,6 kN/mm/1,25 kN Use of category: A, B, C	60	ETA-14/0130
Ejothem STR U Ejothem STR U 2G	Screwed-in plastic anchor with steel screw and plastic head 0,6 kN/mm/2,08 kN Use of category: A, B, C, D, E	60	ETA-04/0023
ejothem NT U ejothem NK U	Nailed-in plastic anchor with steel nail 0,6 kN/mm/2,43 kN Use of category: A, B, C	60	ETA-05/0009
Fischer Termoz 8 U/fischer TERMOZ 8 N/ fischer Termoz 8 NZ/fischer Termoz 8 UZ	Nailed-in plastic anchor with steel nail 0,5 kN/mm/1,34 kN Use of category: A, B, C (for Fischer Termoz 8 N) Use of category: A, B, C, D (for Fischer Termoz 8 NZ) Screwed-in plastic anchor with steel	60	ETA-03/0019

	screw and plastic head 0,5 kN/mm/2,45 kN Use of category: A, B, C, E (valid for Fischer Termoz 8 U) Use of category: A, B, C, D (valid for Fischer Termoz 8 UZ)		
Fischer Termoz CN 8	Nailed-in polypropylene anchor 0,4 kN/mm/1,6 kN Use of category: A, B, C, D	60	ETA-09/0394
Fischer Termoz PN8	Nailed-in plastic anchor with polyamide nail 0,4 kN/mm/1,6 kN Use of category: A, B, C	60	ETA-09/0171
Hilti SD-FV 8 with doublehead HDT-FV90	Nailed-in plastic anchor with polyamide nail 0,3 kN/mm/1,55 kN Use of category: A, B, C	60	ETA-03/0028
Hilti ETICS-Anchor D-FV Hilti ETICS-Anchor D-FV T	Screwed-in plastic anchor with steel screw 0,8 kN/mm/1,93 kN Use of category: A, B, C, D, E	60	ETA-05/0039
Hilti fixing element XI-FV	plastic part made of polyethylene 0,4 kN/mm/1,6 kN	60	ETA-03/0004
Hilti D8-FV (used only with thermal insulation bigger than 100 mm)	Screwed-in plastic anchor with screw of galvanised steel 0,63 kN/mm/3,16 kN Use of category: A, B, C, D, E Used for thickness of EPS from 100 mm	60	ETA-07/0288
Hilti SX-FV	Fixing element from polyethylene with sleeve from stainless steel 0,7 kN/mm/1,73 kN Use of category: A, B, C	60	ETA-03/0005
Hilti SDX 8	Nailed in plastic anchor with nail made from polyamide 0,6 kN/mm/1,6 kN Use of category: A, B, C, D, E	60/65	ETA-14/0399
Hilti SDK-FV 8	Nailed in plastic anchor with nail made from polyamide 0,5 kN/mm/1,48kN Use of category: A, B, C	60	ETA-07/0302
IsoFux Rocket	Screwed-in plastic anchor with steel screw 1,1 kN/mm/2,5 kN Use of category: A, B, C, E	60	ETA-12/0093
KOELNER TFIX-8M	Nailed-in anchor with nail of galvanised steel 1,0 kN/mm/1,75 kN Use of category: A, B, C	60	ETA-07/0336
KOELNER TFIX 8S KOELNER TFIX 8ST	Screwed-in anchor with screw of galvanised steel 0,6 kN/mm/2,04 kN Use of category: A, B, C, D (for KOELNER TFIX 8S) Use of category: A, B, C, D, E (for KOELNER TFIX 8ST)	60	ETA-11/0144
KOELNER TFIX-8P	Nailed-in plastic anchor with nail of galvanised steel 0,3 kN/mm/1,38 kN Use of category: A, B, C, D, E	60	ETA-13/0845

KOELNER KI-10N KOELNER KI-10NS	Nailed-in plastic anchor with steel nail 0,5 kN/mm/1,23 kN Use of category: B, C, D, E (for KOELNER KI-10N) Use of category: A, B, C, D, E (for KOELNER KI-10NS)	60	ETA-07/0221
KI-10, KI-10PA KI-10M	Nailed-in plastic anchor with polypropylene nail 0,5 kN/mm/2,1 kN (for KI-10, KI-10PA) 0,4 kN/mm/2,6 kN (for KI-10M) Use of category: A, B, C, D, E	60	ETA-07/0291
Hilti HTH Used only with EPS equal or bigger than 100 mm	Screwed-in anchor with polypropylene helix and special screw of galvanized steel Use category: A, B, C, D, E	75	ETA-15/0464
Hilti HTR-P	Screwed-in plastic anchor with screw of polyamide 0,6 kN/mm/1,4 kN Use category: A, B, C, D, E	60	ETA-16/0116
Fischer Termoz 8 N Fischer Termoz 8 NZ	Nailed-in plastic anchor with steel nail 0,5 kN/mm/1,34 kN Use of category: A, B, C (for Fischer Termoz 8 N) Use of category: A, B, C, D (for Fischer Termoz 8 NZ)	60	ETA-03/0019
Fischer Termoz CN 8	Nailed-in polypropylene anchor 0,4 kN/mm/1,6 kN Use of category: A, B, C, D	60	ETA-09/0394
Fischer Termoz 8 SV	Screwed-in anchor with screw of galvanized steel 1,1 kN/mm/2,13 kN Use of category: A, B, C, D, E	60	ETA-06/0180
Fischer Termoz 8 U Fischer Termoz 8 UZ	Screwed-in plastic anchor with steel screw and plastic head 0,5 kN/mm/2,45 kN Use of category: A, B, C, E (valid for Fischer Termoz 8 U) Use of category: A, B, C, D (valid for Fischer Termoz 8 U)	60	ETA-02/0019
Fischer Termoz PN8	Nailed-in plastic anchor with polyamide nail 0,4 kN/mm/1,6 kN Use of category: A, B, C	60	ETA-09/0171
KEW IsuFix TSD-V	Nailed in anchor with galvanized steel nail 1,24 kN/mm/1,75 kN Use of category: A, B, C	60	ETA-08/0315
KEW IsuFix TSBD	Nailed in anchor with galvanized steel nail 1,6 kN/mm/2,22 kN Use of category: A, B, C, D	60	ETA-08/0314
KEW TSD 8	Nailed in anchor with galvanized steel nail 0,6 kN/mm/1,6 kN Use of category: A, B, C, D	60	ETA-04/0030
Bravoll PTH-KZ Bravoll PTH-KZL Bravoll PTH Bravoll PTH-L	Nailed-in plastic anchor with polyamide (PTH-KZ) (steel – PTH-KZ) nail and plastic head 0,4 kN/mm/1,8 kN Use of category (Bravoll PTH 60/8): A, B	60	ETA-05/0055

	Use of category (Bravoll PTH-KZ 60/8): A, B, C, D		
Bravoll PTH-S	Screwed-in plastic anchor with steel screw 0,9 kN/mm/2,6 kN Use of category: A, B, C, D, E	60	ETA-08/0267
Bravoll PTH SX	Screwed-in plastic anchor with plastic screw 0,5 kN/mm/1,8 kN Use of category: A, B, C, D, E	60	ETA-10/0028
Bravoll PTH X Bravoll PTH-EX	Nailed-in plastic anchor with polyamide (PTH X) or steel screw (PTH-EX) 0,6 kN/mm/1,5 kN Use of category: A, B, C, D	60	ETA-13/0951
IsoFux NDS8Z IsoFux NDS90Z IsoFux NDM90Z IsoFux NDM8Z	Nailed-in plastic anchor with steel screw 0,9 kN/mm/2,2 kN Use of category: A, B, C	60	ETA-07/0129
IsoFux Rocket	Screwed-in plastic anchor with steel screw 1,1 kN/mm/2,5 kN Use of category: A, B, C, E	60	ETA-12/0093
SPIT ISO	Nailed in plastic anchor with plastic nail 0,3 kN/mm/1,0 kN Use of category: A, B, C	50 to 60	90 ETA-04/0076
Baumit KlebeAnker/Baumit StarTrack/KlebeAnker JJ A8+ (This anchor is for load transmission of the adhesives Baumit StarContact and Baumit StarContact white into the substrate and is used only with EPS-TR120)	Use of category: A, B, C, E	108	ETA-06/0015
KlebeAnker X1 (This anchor is for load transmission of the adhesives Baumit StarContact and Baumit StarContact white into the substrate and is used only with EPS-TR120)	Fixing element consists of a plastic made of a high density polyethylene and a powder activated fastening tool displacement 0,5 mm under tension load 0,2 kN Use of category: A	108	ETA-19/0439 (EAD 330965-01-0601)
In ETICS "Baumit StarSystem EPS" can be used also other types of anchors as stated in Table 73, after adding them to the control plan of manufacturer of ETICS on previous agreement between Technický a skúšobný ústav stavebný, n. o. (TSÚS) and Baumit Beteteiligungen GmbH. These additional anchors will be added to listed anchors in Table 73 of ETA in the next coming version.			

Annex 3 – Description and characteristics of the reinforcement

Table 74 – Description and characteristics of the reinforcement

Baunit StarTex/Baunit Textilglasgitter/Baunit ProTex		
03/43	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(5,5 x 4,0) mm 145 g/m ² 4,16 MJ/kg
SSA-1363-145	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(5,7x4,2) mm 151 g/m ² 6,44 MJ/kg
Primafas 145	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(6,1x5,0) mm 153 g/m ² 9,14 MJ/kg
R 116 A101	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(4,8x5,8) mm 147 g/m ² 6,64 MJ/kg
R 117 A101	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(4,7x5,8) mm 152 g/m ² 6,64 MJ/kg
41-112 – ES-L	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(5,1x6,1) mm 150 g/m ² 8,0 MJ/kg
117S	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(4,6x5,2) mm 149 g/m ² 7,32 MJ/kg
Baunit StarTex (160)		
03/08	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(7,0x6,5) mm 197 g/m ² 7,28 MJ/kg
SSA-1363-160	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(5,1x4,2) mm 165 g/m ² 6,41 MJ/kg
Primafas 160	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(4,1x4,9) mm 159 g/m ² 7,62 MJ/kg

R 131 A101	Mesh size (average value) Mass per unit area (average value) Heat combustion (average value)	(4,0x4,6) mm 167 g/m ² 5,80 MJ/kg
------------	--	--

Annex 4 – Correspondence between trade names used for components

Adhesives	Baumit StarContact		Baumit KlebeSpachtel	
	Baumit Starcontact light	Baumit StarContact KBM-Fix		Baumit KlebeSpachtel KBM-Fix
	Baumit StarContact white	Baumit StarContact KBM		Baumit KlebeSpachtel KBM
	Baumit NivoFix	Baumit PaneloFix		Baumit WDVS-Kleber
	Baumit StarContact forte		Baumit DickschichtKlebespachtel	
	Baumit SupraFix		Baumit SupraKleber	
	Baumit StarContact Speed	Baumit SpeedContact		Baumit SpeedKlebeSpachtel
Insulation boards	Baumit ProTherm (100)		Baumit Fassadendämmplatte EPS-F (100)	
	Baumit StarTherm (100)		Baumit Fassadendämmplatte EPS-F plus (100)	
	Baumit ProTherm (120)		Baumit Fassadendämmplatte EPS-F (120)	
	Baumit StarTherm (120)		Baumit Fassadendämmplatte EPS-F plus (120)	
	Baumit ProTherm (150)		Baumit Fassadendämmplatte EPS-F (150)	
	Baumit StarTherm (150)		Baumit Fassadendämmplatte EPS-F plus (150)	
Special anchor	Baumit KlebeAnker		Baumit StarTrack	
Base coats	Baumit StarContact		Baumit KlebeSpachtel	
	Baumit Starcontact light	Baumit StarContact KBM-Fix		Baumit KlebeSpachtel KBM-Fix
	Baumit StarContact white	Baumit StarContact KBM		Baumit KlebeSpachtel KBM
	Baumit StarContact forte		Baumit DickschichtKlebespachtel	
	Baumit StarContact Speed	Baumit SpeedContact		Baumit SpeedKlebeSpachtel
	Baumit EasyFlex	Baumit Spachtelmasse zementfrei		Baumit Spachtelmasse zementfrei SPM58
	Baumit PowerFlex	Baumit FaserSpachtel		Baumit SilverFlex

Glass fibre meshes	Baumit StarTex	Baumit Textilglasgitter	Baumit ProTex	
	Baumit StarTex (160)			
Key coats	Baumit UniPrimer		Baumit UniversalGrund	
	Baumit PremiumPrimer	Baumit PremiumPrimer DG 27	Baumit DecorGrundierung DG 27	
Finishing coats	Baumit GranoporTop		Baumit GranoporPutz	
	Baumit SilikonTop		Baumit SilikonPutz	
	Baumit CreativTop			
	Baumit StyleTop	Baumit ArtlineTop	Baumit ArtlinePutz	
	Baumit StarTop			
	Baumit PuraTop			
	Baumit NanoporTop		Baumit NanoporPutz	
	Baumit SilikatTop		Baumit SilikatPutz	
	Baumit SiliporTop		Baumit SiliporPutz	
	Baumit Fascina Special	Baumit Classico Special	Baumit Edelputz Spezial	Baumit ScheibenPutz SEP
	Baumit StellaporTop			
	Baumit MosaikTop			
	Baumit Mosaik Superfine			
	Baumit FineTop	BaumitSilikonFine	Baumit UniTop Fine	
	Baumit NanoporFine		Baumit NanoporTop Fine	
	Baumit StarTop Fine			
	Baumit PuraTop Fine			
	Baumit GranoporTop Fine			
	Baumit CreativTop Silk		Baumit CreativTop S-Fine	

Decorative coat/plaster	Baumit FillTop	Baumit UniTop Fill
	Baumit CreativTop Pearl	

Decorative coat/paint	Baunit NanoporColor	Baunit NanoporFarbe
	Baunit StarColor	
	Baunit SilikonColor	Baunit SilikonFarbe
	Baunit SilikatColor	Baunit SilikatFarbe
	Baunit StyleColor	Baunit ArtlineFarbe
	Baunit PuraColor	Baunit ProColor
	Baunit GranoporColor	Baunit GranoporFarbe
	Baunit Metallic	Baunit Artline Metallic
	Baunit Lasur	Baunit Artline Lasur
	Baunit Finish	Baunit Artline Finish
	Baunit Glitter	Baunit Artline Glitter

Combination of finishing coats and decorative coats

	Baumit NanoporColor	Baumit StarColor	Baumit SilikonColor	Baumit SilikatColor	Baumit PuraColor	Baumit GranoporColor	Baumit StyleColor
Baumit NanoporTop	x	x			x		
Baumit StarTop	x	x			x		
Baumit StyleTop	x	x	x		x	x	x
Baumit PuraTop	x	x	x		x	x	x
Baumit SilikonTop	x	x	x		x	x	x
Baumit SilikatTop	x	x	x	x	x		x
Baumit SiliporTop	x	x	x		x	x	x
Baumit StellaporTop	x	x	x		x	x	x
Baumit GranoporTop	x	x	x	x	x	x	x
Baumit CreativTop	x	x	x		x	x	x
Baumit FineTop	x	x	x		x	x	x
Baumit NanoporFine	x	x			x		
Baumit StarTop Fine	x	x		x			
Baumit PuraTop Fine	x	x	x		x	x	x
Baumit GranoporFine	x	x	x	x	x	x	x

Combination of finishing coats and decorative coats

	Baumit Metallic	Baumit Lasur	Baumit Glitter	Baumit Finish	Baumit CreativTop Smooth	Baumit CreativTop Pearl	Baumit FillTop
Baumit NanoporTop	x	x	x	x	x	x	x
Baumit StarTop	x	x	x	x	x	x	x
Baumit StyleTop	x	x	x	x	x	x	x
Baumit PuraTop	x	x	x	x	x	x	x
Baumit SilikonTop	x	x	x	x	x	x	x
Baumit SilikatTop	x	x	x	x	x	x	x
Baumit SiliporTop	x	x	x	x	x	x	x
Baumit StellaporTop	x	x	x	x	x	x	x
Baumit GranoporTop	x	x	x	x	x	x	x
Baumit CreativTop	x	x	x	x	x	x	x
Baumit FineTop	x	x	x	x	x	x	x
Baumit NanoporFine	x	x	x	x	x	x	x
Baumit StarTop Fine	x	x	x	x	x	x	x
Baumit PuraTop Fine	x	x	x	x	x	x	x
Baumit GranoporFine	x	x	x	x	x	x	x
Baumit MosaikTop				x			
Baumit MosaikSuperFine				x			