



SLOVENSKI STANDARD
oSIST prEN 17237:2022

01-marec-2022

Toplotnoizolacijski proizvodi za stavbe - Kontaktni fasadni toplotnoizolacijski sistemi z ometi (ETICS) - Značilnosti

Thermal insulation products for buildings - External thermal insulation composite kits with a rendering system (ETIC kits) - Characteristics

Wärmedämmstoffe für Gebäude - Außenseitige Wärmedämmverbundsysteme mit Putzoberfläche (WDVS) - Spezifikation

Produits isolants thermiques pour bâtiments - Kits d'isolation thermique extérieure par enduit sur isolant (kits ETIC) - Caractéristiques

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ICS:

91.100.60	Materiali za toplotno in zvočno izolacijo	Thermal and sound insulating materials
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 17237

January 2022

ICS 91.100.60

English Version

Thermal insulation products for buildings - External thermal insulation composite kits with a rendering system (ETIC kits) - Characteristics

Produits isolants thermiques pour bâtiments - Kits
d'isolation thermique extérieure par enduit sur isolant
(kits ETIC) - Caractéristiques

Wärmedämmstoffe für Gebäude - Außenseitige
Wärmedämmverbundsysteme mit Putzoberfläche
(WDVS) - Spezifikation

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 88.

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Contents	Page
European foreword	5
Introduction	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	11
3.1 Terms and definitions	11
3.2 Symbols and units.....	34
3.3 Abbreviated terms.....	37
4 Characteristics	38
4.1 Reaction to fire.....	38
4.2 Water absorption	38
4.3 Water tightness.....	39
4.4 Impact resistance.....	39
4.5 Water vapour permeability.....	40
4.6 Bond strength.....	40
4.6.1 Bond strength of adhesive to thermal insulation.....	40
4.6.2 Tensile strength perpendicular to the surface of thermal insulation	42
4.6.3 Bond strength of the reinforced base coat to the thermal insulation.....	43
4.6.4 Bond strength of the rendering system to the thermal insulation in the ETIC kit.....	44
4.7 Fixing strength.....	45
4.7.1 General.....	45
4.7.2 Pull-through resistance.....	45
4.7.3 Pull-off tensile resistance.....	46
4.7.4 Pull-off tensile-shear resistance.....	46
4.7.5 Reduction factor.....	47
4.7.6 Characteristic load resistance of a plate anchor	47
4.7.7 Characteristic plate stiffness of a plate anchor	47
4.7.8 Fixing strength of anchored rails	48
4.7.9 Fixing strength of collar anchor	48
4.8 Airborne sound insulation	49
4.8.1 General.....	49
4.8.2 Dynamic stiffness of thermal insulation.....	49
4.8.3 Airflow resistance of thermal insulation	49
4.8.4 Weight of rendering system.....	49
4.9 Thermal resistance	50
4.9.1 General.....	50
4.9.2 Thermal resistance of thermal insulation	50
4.9.3 Point thermal transmittance of anchor	50
4.9.4 Correction factor for <i>u</i> -value of profiles and rails	50
4.9.5 Correction factor for <i>u</i> -value of anchored metal mesh	51
5 Testing, assessment and sampling methods	51
5.1 General.....	51
5.1.1 Preparation.....	51
5.1.2 Determination.....	51

5.1.3	Reporting.....	52
5.2	Reaction to fire	52
5.2.1	Determination for the product.....	52
5.2.2	Determination for the components	60
5.3	Water absorption.....	64
5.3.1	Preparation.....	64
5.3.2	Determination	64
5.3.3	Reporting.....	66
5.3.4	DiAp	66
5.4	Water tightness	67
5.4.1	Preparation.....	67
5.4.2	Determination	67
5.4.3	Reporting.....	68
5.4.4	DiAp	68
5.5	Impact resistance	72
5.5.1	Preparation.....	72
5.5.2	Determination	72
5.5.3	Reporting.....	72
5.5.4	DiAp	73
5.6	Water vapour permeability	73
5.6.1	Determination for the components	73
5.7	Bond strength.....	76
5.7.1	Bond strength of adhesive to thermal insulation	76
5.7.2	Tensile strength perpendicular to the surface of thermal insulation	77
5.7.3	Bond strength of the reinforced base coat to the thermal insulation	79
5.7.4	Bond strength of the rendering system to the thermal insulation in the ETIC kit.....	80
5.8	Fixing strength.....	81
5.8.1	Pull-through resistance.....	81
5.8.2	Pull-off tensile resistance	85
5.8.3	Pull-off tensile-shear resistance	88
5.8.4	Reduction factor.....	91
5.8.5	Characteristic load resistance of a plate anchor	92
5.8.6	Characteristic plate stiffness of a plate anchor F	92
5.8.7	Fixing strength of anchored rails.....	93
5.8.8	Fixing strength of collar anchor	94
5.9	Airborne sound insulation	95
5.9.1	Dynamic stiffness of thermal insulation	95
5.9.2	Airflow resistance of thermal insulation	95
5.9.3	Weight of rendering system.....	95
5.10	Thermal resistance	96
5.10.1	Thermal resistance of thermal insulation.....	96
5.10.2	Point thermal transmittance of anchor	97
5.10.3	Correction factor for u -value of profiles and rails	97
5.10.4	Correction factor for u -value of anchored metal mesh.....	97
6	Assessment and verification of constancy of performance – AVCP	98
6.1	General	98
6.2	Assessment of performance.....	98
6.2.1	General	98
6.2.2	Test samples, testing and assessment criteria.....	99
6.3	Verification of constancy of performance.....	99
6.3.1	Factory production control (FPC).....	99
6.3.2	Initial inspection of factory and of FPC.....	101

prEN 17237:2022 (E)

6.3.3	Continuous surveillance of FPC	102
Annex A (normative) Parameters related to the basic components and to the fixing methods of the ETIC kits with the methods of their verification and acceptance criteria		
A.1	Adhesives.....	103
A.2	Thermal insulation.....	104
A.3	Mechanical fixing device	106
A.4	Base coat	108
A.5	Reinforcement	108
A.6	Key coat	109
A.7	Finishing coat	109
A.8	Decorative coat.....	109
A.9	Fixing method.....	110
Annex B (normative) Calculation of $PCS_{ETIC\ kit}$ (formulae and example)		
B.1	General.....	115
B.2	Example	115
Annex C (normative) Characteristic load resistance and characteristic plate stiffness of plate anchors in the ETIC kit.....		
C.1	General.....	116
C.2	Sampling, test specimen, conditioning and testing.....	116
C.3	Calculation.....	117
Annex D (normative) Point thermal transmittance of mechanical fixing devices in the ETIC kit.....		
D.1	General.....	120
D.2	Assessment of the point thermal transmittance	120
D.3	Calculation.....	121
Annex E (normative) Test plan and conformity tables.....		
Annex F (normative) Table for particle distribution		
Annex G (normative) Calculations for pull-off resistance		
G.1	General.....	150
G.2	Test specimen showing plate anchors in middle area position only	150
G.3	Test specimen showing plate anchors in different anchor setting positions	151
G.4	Test specimen showing profiles and rails.....	155
G.5	Test specimen showing anchored metal mesh	155
Annex H (normative) Comparison of FPC results with reference values		
H.1	General.....	156
Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No. 305/2011.....		
Bibliography		
		169

European foreword

This document (prEN 17237:2022) has been prepared by Technical Committee CEN/TC 88 “Thermal insulating materials and products”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), see informative Annex ZA, which is an integral part of this document.

The assessment methods take into account a working life of the ETIC kit for the intended use of 50 years, if installed and maintained properly in the works.

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prEN 17237:2022 (E)

Introduction

This document has been created by CEN/TC88/WG18, supported by many experts from across Europe. As different stakeholders were involved, in particular regulators, testing institutes, manufacturers (= system holders) and component suppliers, the current enquiry version considers many aspects of later use. However, the communication and discussion between all stakeholders should go on during enquiry.

For that reason, the European Association for External Thermal Insulation Composite Systems (EAE) volunteered to constantly support the dialogue. Currently an FAQ list, online trainings and discussions are intended to support the enquiry. For latest information see <https://www.ea-etics.eu>.

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1 Scope

This document specifies the characteristics for external thermal insulation composite kits with a rendering system (ETIC kits) for external walls and/or external finishes of walls (including cladding).

In this document, ETIC kits are used on external walls, which are made either of masonry (bricks, blocks, stones, etc.) or concrete (cast on site or as prefabricated panels).

With regard to the components, this document covers ETIC kits with:

- a) adhesives, which are ready to use mortars, dry mixed mortars or PU adhesive foams, all specified in A.1;
- b) thermal insulations, which are made of one of the following materials: mineral wool (MW), expanded polystyrene (EPS), extruded polystyrene foam (XPS), rigid polyurethane foam (PU), phenolic foam (PF), cellular glass (CG), expanded cork (ICB) or wood fibre (WF), all specified in A.2;
- c) mechanical fixing devices, which are plate anchors, spiral anchors, profiles and rails with collar anchors or anchors for an anchored metal mesh, all specified in A.3;
- d) base coats, which are ready to use or dry mixed, all specified in A.4;
- e) reinforcements, which are glass fibre meshes or metal meshes, all specified in A.5;
- f) key coats, all specified in A.6;
- g) finishing coats, which are ready to use or dry mixed, all specified in A.7;
- h) decorative coats, all specified in A.8.

This document covers ETIC kits, which are fixed to the substrate either with adhesive or mechanical fixing devices or combination of both, clustered as the fixing methods (I to VIII), all defined in 3.1.3.1 to 3.1.3.8 and further specified in A.9.

This document specifies procedures for assessment and verification of constancy of performance (AVCP) of the ETIC kit characteristics.

This document does not cover:

- ETIC kits with the components and the fixing methods a) other those indicated above and b) not complying with the criteria for their parameters, further specified in Annex A;
- ETIC kits with other finishing layers than rendering systems, e.g. ceramic tiles, glass tiles, sand-lime-bricks, ceramic brick slips, natural and artificial stones;
- External insulation and finishing systems (EIFS), according to ISO 17738.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 755-2:2016, *Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 2: Mechanical properties*

EN 822:2013, *Thermal insulating products for building applications - Determination of length and width*

prEN 17237:2022 (E)

- EN 823:2013, *Thermal insulating products for building applications - Determination of thickness*
- EN 824:2013, *Thermal insulating products for building applications - Determination of squareness*
- EN 825:2013, *Thermal insulating products for building applications - Determination of flatness*
- EN 826:2013, *Thermal insulating products for building applications - Determination of compression behaviour*
- EN 998-1:2016, *Specification for mortar for masonry - Part 1: Rendering and plastering mortar*
- EN 1015-1:1998¹, *Methods of test for mortar for masonry - Part 1: Determination of particle size distribution (by sieve analysis)*
- EN 1015-6:1998², *Methods of test for mortar for masonry - Part 6: Determination of bulk density of fresh mortar*
- EN 1015-18:2002, *Methods of test for mortar for masonry - Part 18: Determination of water absorption coefficient due to capillary action of hardened mortar*
- EN 1015-19:1998³, *Methods of test for mortar for masonry - Part 19: Determination of water vapour permeability of hardened rendering and plastering mortars*
- EN 1062-1:2004, *Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Part 1: Classification*
- EN 1062-3:2008, *Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Part 3: Determination of liquid water permeability*
- EN 1542:1999, *Products and systems for the protection and repair of concrete structures - Test methods - Measurement of bond strength by pull-off*
- EN 1602:2013, *Thermal insulating products for building applications - Determination of the apparent density*
- EN 1604:2013, *Thermal insulating products for building applications - Determination of dimensional stability under specified temperature and humidity conditions*
- EN 1607:2013, *Thermal insulating products for building applications - Determination of tensile strength perpendicular to faces*
- EN 10088-2:2014, *Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes*
- EN 10204:2004, *Metallic products - Types of inspection documents*
- EN 10244-1:2009, *Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 1: General principles*
- EN 12090:2013, *Thermal insulating products for building applications - Determination of shear behaviour*

¹ As impacted by EN 1015-1:1998/A1:2006.

² As impacted by EN 1015-6:1998/A1:2006.

³ As impacted by EN 1015-19:1998/A1:2004.

- EN 12127:1997, *Textiles - Fabrics - Determination of mass per unit area using small samples*
- EN 12667:2001, *Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Products of high and medium thermal resistance*
- EN 12939:2000, *Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Thick products of high and medium thermal resistance*
- EN 13162:2012+A1:2015, *Thermal insulation products for buildings - Factory made mineral wool (MW) products - Specification*
- EN 13163:2012+A2:2016, *Thermal insulation products for buildings - Factory made expanded polystyrene (EPS) products - Specification*
- EN 13164:2012+A1:2015, *Thermal insulation products for buildings - Factory made extruded polystyrene foam (XPS) products - Specification*
- EN 13165:2012+A2:2016, *Thermal insulation products for buildings - Factory made rigid polyurethane foam (PU) products - Specification*
- EN 13166:2012+A2:2016, *Thermal insulation products for buildings - Factory made phenolic foam (PF) products - Specification*
- EN 13167:2012+A1:2015, *Thermal insulation products for buildings - Factory made cellular glass (CG) products - Specification*
- EN 13170:2012+A1:2015, *Thermal insulation products for buildings - Factory made products of expanded cork (ICB) - Specification*
- EN 13171:2012+A1:2015, *Thermal insulation products for buildings - Factory made wood fibre (WF) products - Specification*
- EN 13238:2010, *Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates*
- EN 13494:2019, *Thermal insulation products for building applications - Determination of the tensile bond strength of the adhesive and of the base coat to the thermal insulation material*
- EN 13495:2019, *Thermal insulation products for building applications - Determination of the pull-off resistance of external thermal insulation composite systems (ETICS) (foam block test)*
- EN 13496:2013, *Thermal insulation products for building applications - Determination of the mechanical properties of glass fibre meshes as reinforcement for External Thermal Insulation Composite Systems with renders (ETICS)*
- EN 13497:2018+A1:2021, *Thermal insulation products for building applications - Determination of the resistance to impact of external thermal insulation composite systems (ETICS)*
- EN 13501-1:2018, *Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*
- EN 13820:2003, *Thermal insulating materials for building applications - Determination of organic content*

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prEN 17237:2022 (E)

EN 13823:2020, *Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item*

EN 15715:2009, *Thermal insulation products - Instructions for mounting and fixing for reaction to fire testing - Factory made products*

EN 15824:2017, *Specifications for external renders and internal plasters based on organic binders*

EN 16382:2016, *Thermal insulation products for building applications - Determination of the pull-through resistance of plate anchors through thermal insulation products*

EN 16383:2016, *Thermal insulation products for building applications - Determination of the hygrothermal behaviour of external thermal insulation composite systems with renders (ETICS)*

EN 16733:2016, *Reaction to fire tests for building products - Determination of a building product's propensity to undergo continuous smouldering*

EN 17101:2018, *Thermal insulation products for buildings - Methods of identification and test methods for one-component PU adhesive foam for External Thermal Insulation Composite Systems (ETICS)*

EN 29052-1:1992, *Acoustics - Determination of dynamic stiffness - Part 1: Materials used under floating floors in dwellings*

EN ISO 180:2019, *Plastics - Determination of Izod impact strength (ISO 180:2019)*

EN ISO 307:2019, *Plastics - Polyamides - Determination of viscosity number (ISO 307:2019)*

EN ISO 898-1:2013, *Mechanical properties of fasteners made of carbon steel and alloy steel - Part 1: Bolts, screws and studs with specified property classes - Coarse thread and fine pitch thread (ISO 898-1:2013)*

EN ISO 1133-1:2011, *Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics - Part 1: Standard method (ISO 1133-1:2011)*

EN ISO 1133-2:2011, *Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics - Part 2: Method for materials sensitive to time-temperature history and/or moisture (ISO 1133-2:2011)*

EN ISO 21306-1:2019, *Plastics - Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 21306-1:2019)*

EN ISO 1182:2020, *Reaction to fire tests for products - Non-combustibility test (ISO 1182:2020)*

EN ISO 1183-1:2019, *Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method (ISO 1183-1:2019, Corrected version 2019-05)*

EN ISO 1716:2018, *Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value) (ISO 1716:2018)*

EN ISO 2811-1:2016, *Paints and varnishes - Determination of density - Part 1: Pycnometer method (ISO 2811-1:2016)*

EN ISO 3251:2019, *Paints, varnishes and plastics - Determination of non-volatile-matter content (ISO 3251:2019)*

- EN ISO 3451-1:2019, *Plastics - Determination of ash - Part 1: General methods (ISO 3451-1:2019)*
- EN ISO 6946:2017, *Building components and building elements - Thermal resistance and thermal transmittance - Calculation methods (ISO 6946:2017)*
- EN ISO 7783:2018, *Paints and varnishes - Determination of water-vapour transmission properties - Cup method (ISO 7783:2018)*
- EN ISO 9053-1:2018, *Acoustics - Determination of airflow resistance - Part 1: Static airflow method (ISO 9053-1:2018)*
- EN ISO 9229:2020, *Thermal insulation - Vocabulary (ISO 9229:2020)*
- EN ISO 10211:2017, *Thermal bridges in building construction - Heat flows and surface temperatures - Detailed calculations (ISO 10211:2017)*
- EN ISO 10456:2007⁴, *Building materials and products - Hygrothermal properties - Tabulated design values and procedures for determining declared and design thermal values (ISO 10456:2007)*
- EN ISO 11357-3:2018, *Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization (ISO 11357-3:2018)*
- EN ISO 11357-6:2018, *Plastics - Differential scanning calorimetry (DSC) - Part 6: Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT) (ISO 11357-6:2018)*
- EN ISO 11925-2:2020, *Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test (ISO 11925-2:2020)*
- EN ISO 12572:2016, *Hygrothermal performance of building materials and products - Determination of water vapour transmission properties - Cup method (ISO 12572:2016)*
- EN ISO 16535:2019, *Thermal insulating products for building applications - Determination of long-term water absorption by immersion (ISO 16535:2019)*
- EN ISO 29767:2019, *Thermal insulating products for building applications - Determination of short-term water absorption by partial immersion (ISO 29767:2019)*
- ISO 527-1:2019, *Plastics - Determination of tensile properties - Part 1: General principles*
- ISO 1887:2014, *Textile glass - Determination of combustible-matter content*
- ISO 12491:1997, *Statistical methods for quality control of building materials and components*

3 Terms and definitions

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 9229:2020 and the following apply.

⁴ As impacted by EN ISO 10456:2007/AC:2009.

prEN 17237:2022 (E)

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1.1 General**3.1.1.1****design External Thermal Insulation Composite System (design ETICS)**

set of ETIC kits comprising the same base coat and thermal insulation of the same material

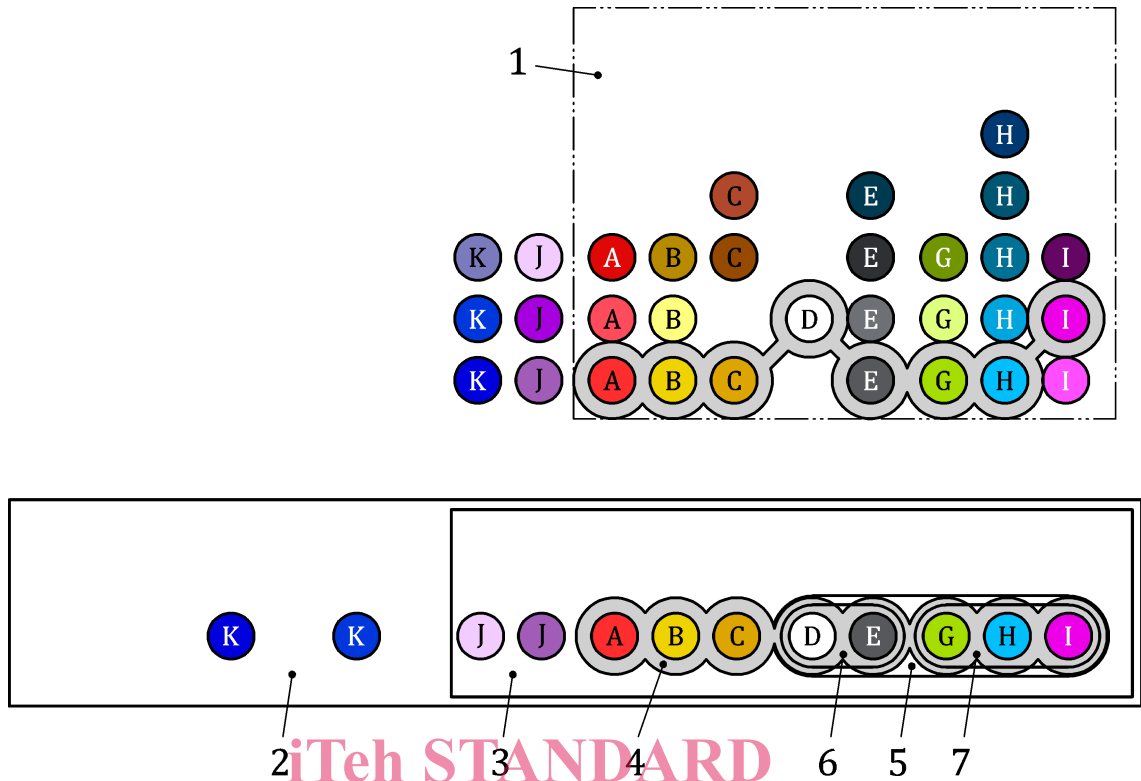
Note 1 to entry: A design ETICS is defined by the description of every ETIC kit comprised and usually marketed under one trade name.

Note 2 to entry: Figure 1 shows an example and the relationship between an assembled ETIC kit and construction works. Box 1 contains all components used for the whole set of ETIC kits of a design ETICS. The ETIC kit components of one of these ETIC kits are outlined in grey. This specific ETIC kit is mechanically fixed on adhesive bed with plate anchors, also illustrated in Figure 4. It comprises eight components. Box 2 indicates construction works, box 3 the assembled ETIC kit with the use of additional ancillary products, box 4 the ETIC kit components, box 5 the components of the rendering system of the ETIC kit, box 6 the components of the reinforced basecoat of the ETIC kit and box 7 the components of the finishing layer of the ETIC kit.

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Key

- | | | | |
|---|--|---|---|
| 1 | design ETICS (Box 1) | A | adhesives |
| 2 | construction works (Box 2) | B | thermal insulation of the same material |
| 3 | assembled ETIC kit with the use of additional ancillary products (Box 3) | C | mechanical fixing devices |
| 4 | ETIC kit components, outlined in grey | D | base coat |
| 5 | rendering system of ETIC kit (Box 5) | E | reinforcements |
| 6 | reinforced base coat of ETIC kit (Box 6) | G | key coats |
| 7 | finishing layer of ETIC kit (Box 7) | H | finishing coats |
| | | I | decorative coats |
| | | J | ancillary products |
| | | K | other construction products |

Same characters indicate components of the same group. Different shades mean different components of the same group.

Figure 1 — Relationship between an assembled ETIC kit and construction works

3.1.1.2

rendering system

reinforced base coat with finishing layer

3.1.1.3

reinforced base coat

base coat with embedded reinforcement

3.1.1.4

finishing layer

finishing coat with a key coat (optional) and/or a decorative coat (optional)