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European Technical Assessment

ETA-25/0139
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General Part

Technical Assessment Body issuing the European Technical Assessment: Technical and Test Institute for Construction Prague	
Trade name of the construction product	**ETICS quick-mix therm CP-EPS**
Product family to which the construction product belongs	Product area code: 4 External Thermal Insulation Composite Systems (ETICS) with Panels as Thermal Insulation Product and Discontinuous Claddings as Exterior Skin
Manufacturer	Sievert CZ k.s. Vinohradská 1112/82 618 00 Brno Czech Republic
Manufacturing plant(s)	See Annex No. 1
This European Technical Assessment contains	24 pages including 8 Annexes which form an integral part of this assessment. Annex No. 9 Control Plan contains confidential information and is not included in the European Technical Assessment when that assessment is publicly disseminated.
This European Technical Assessment is issued in accordance with regulation (EU) No. 305/2011 on the basis of	European Assessment Document (EAD) 040287-00-0404 Kits for External Thermal Insulation Composite System (ETICS) with Panels as Thermal Insulation Product and Discontinuous Claddings as Exterior Skin

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Specific Parts

1 Technical description of the product

1.1 Composition of the product (kit)

Table 1

Use and variant	Component	Coverage [kg/m²]	Thickness [mm]
Base adhesive 1	**quick-mix RKS** Powder requiring addition of water 0.24 l/kg	6.0 – 10.0 (dry powder)	4 – 40
Insulation panel 1	**EPS boards** Factory made expanded polystyrene (EPS) See Annex No. 3	N/A	40 – 300
Anchors	**Plastic anchors** Always fixed through the reinforcement (glass fibre mesh) See Annex No. 4	N/A	N/A
Base coat 1	**quick-mix RKS** Powder requiring addition of water 0.24 l/kg	5.0 – 7.0 (dry powder)	4 – 5
Reinforcement 1	**R 117 A101** Standard glass fibre mesh, two layers Embedded in the base coat See Annex No. 5	0.14 – 0.16	< 1
Reinforcement 2	**R 267 A101** Reinforced glass fibre mesh, one layer. Embedded in the base coat in addition to one layer of Reinforcement 1 See Annex No. 5	0.28 – 0.35	~ 1
Reinforcement 3	**125/1** Reinforced glass fibre mesh, one layer. Embedded in the base coat in addition to one layer of Reinforcement 1 See Annex No. 5	0.31 – 0.35	~ 1
Cladding adhesive 1	**quick-mix RKS** Powder requiring addition of water 0.24 l/kg	6.0 – 10.0 (dry powder)	6 – 8
Cladding element 1	**Clay brick slips** See Annex No. 6	See Annex No. 6	9 – 25
Cladding element 2	**Ceramic tiles** In accordance with EN 14411 See Annex No. 7	See Annex No. 7	9 – 25
Grout 1	**quick-mix FM** Powder requiring addition of water 0.10 – 0.13 l/kg Joint depth: 8 – 25 mm Joint width: 7 – 20 mm To be used with Cladding element 1 and 2	4.5 – 7.5 (dry powder)	8 – 25
Grout 2	**quick-mix FM-X** Powder requiring addition of water 0.17 l/kg Joint depth: 8 – 25 mm Joint width: 7 – 20 mm To be used with Cladding element 1 and 2	4.5 – 7.5 (dry powder)	8 – 25

Types of the ETICS can be distinguished, depending on the fixing method of thermal insulation:

Table 2

Component	**Type of ETICS**
	Bonded with supplementary anchors and with reinforced base coat
Base adhesive	**quick-mix RKS** with 100 % of the surface area covered by an adhesive
Insulation panel	Insulation panel 1
Reinforced base coat	Always present In accordance with Table 1
Anchors	See Annex No. 4 (always fixed through the reinforcement)

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

This product is an External Thermal Insulation Composite System (ETICS) with panels as thermal insulation product and discontinuous claddings as exterior skin. The product is a kit, comprising from number of components.

The ETICS may include special fittings (e.g. base profiles, corner profiles ...) to treat details of ETICS (connections, apertures, corners, parapets, sills ...). Special fittings are not listed nor assessed in this ETA.

The ETICS is installed in accordance with Manufacturer´s installation instructions.

The ETICS may be used on new or existing (retrofit) vertical building walls. The walls can be made of masonry (bricks, blocks, stones, etc.) or concrete (cast on site or as prefabricated panels).

The provisions made in this ETA are based on an assumed intended working life of at least 25 years, provided that the ETICS installed and maintained properly. The indications given as to the working life of the construction product cannot be interpreted as a guarantee, but are regarded as means for expressing the expected economically reasonable working life of the product.

Concerning product packaging, transport, storage, maintenance, replacement and repair it is the responsibility of the manufacturer to undertake the appropriate measures and to advice his clients on the transport, storage, maintenance, replacement and repair of the product as he considers necessary.

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

Table 3

Essential characteristic	Assessment method (EAD clause)	Performance
Reaction to fire	Čl. 2.2.1	See cl. 3.1.1
Façade fire performance	Čl. 2.2.2	No performance assessed
Water absorption by capillarity	Čl. 2.2.3	See cl. 3.2.1
Water vapour permeability (resistance to water vapour diffusion)	Čl. 2.2.4	See cl. 3.2.2
Accelerated ageing behaviour: hygrothermal behaviour	Čl. 2.2.5.1	See cl. 3.2.3.1
Accelerated ageing behaviour: freeze-thaw behaviour	Čl. 2.2.5.2	No performance assessed
Accelerated ageing behaviour: test with combined hygrothermal and freeze-thaw cycles	Čl. 2.2.5.3	No performance assessed
Wind load resistance	Čl. 2.2.6	Not relevant
Impact resistance	Čl. 2.2.7	No performance assessed
Bond strength	Čl. 2.2.8	See cl. 3.3.1
Tensile strength of the thermal insulation panel	Čl. 2.2.9	No performance assessed (See Annex No. 3 for component characteristic)
Shear strength and shear modulus	Čl. 2.2.10	No performance assessed (See Annex No. 3 for component characteristic)
Dead load behaviour	Čl. 2.2.11	See cl. 3.3.2
Pull-through resistance	Čl. 2.2.12	Not applicable
Pull-out resistance (foam block test)	Čl. 2.2.13	No performance assessed
Improvement of airborne sound insulation	Čl. 2.2.14	No performance assessed
Thermal conductivity and thermal resistance	Čl. 2.2.15	See Annex No. 2

Table 4 – Table 15 lay down assessments of essential characteristics of specific combinations of ETICS components.

Any combination of components not meeting the criteria of Table 4 – Table 15 is assessed as "No performance assessed" in regard to the relevant essential characteristic.

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire of ETICS

Table 4

Reaction to fire of ETICS: B-s1, d0	
Component	**ETICS configuration**
Base adhesive	In accordance with Table 1
Insulation panel	In accordance with Table 1 **Max. apparent density (EN 1602): 19.75 kg/m^3**
Anchors	In accordance with Table 1
Base coat	In accordance with Table 1
Reinforcement	In accordance with Table 1
Cladding adhesive	In accordance with Table 1
Cladding element	In accordance with Table 1 **Min. thickness: 9 mm** **Reaction to fire class: A1**
Grout	In accordance with Table 1

3.2 Hygiene, health and the environment (BWR 3)

3.2.1 Water absorption by capillarity

Table 5

Water absorption of components	
ETICS configuration requirements:	**Value**
quick-mix RKS	**0.04** [kg/(m²min$^{0.5}$)] by EN 1015-18
quick-mix FM	**0.7** [g] after 30 minutes **1.3** [g] after 240 minutes by EN 13888-2
quick-mix FM-X	**2.1** [g] after 30 minutes **4.3** [g] after 240 minutes by EN 13888-2
Cladding element 1 (clay brick slips)	**23.48** % by EN ISO 10545-3
Cladding element 2 (ceramic tiles)	**5.91** % by EN ISO 10545-3

Table 6

Water absorption by capillarity					
ETICS configuration requirements:			**After 3 minutes [kg/m²] (reference value)**	**After 1 h [kg/m²]**	**After 24 h [kg/m²]**
Base coat	**Skin**				
	Cladding adhesive Cladding element	**Grout**			
quick-mix FM	None	None	0.00	**0.01**	**0.13**
	quick-mix RKS + **Cladding element 1** clay brick slips (Annex No. 6)	In accordance with Table 1	4.35	**0.58**	**1.21**
	quick-mix RKS + **Cladding element 2** ceramic tiles (Annex No. 7)	In accordance with Table 1	0.25	**0.17**	**0.73**

3.2.2 Water vapour permeability

Water vapour diffusion resistance Z_{ETICS} depends on particular components chosen and is calculated as follows:

$$Z_{ETICS} = Z_{skin} + Z_{cladd-adhesive} + Z_{base_coat} + Z_{insulation} + Z_{base-adhesive}$$

Table 7

Water vapour permeability (resistance to water vapour diffusion)				
ETICS composition	Max. value of Z [$m^2 \cdot s \cdot Pa/kg$]		Max. value of S_d [m]	
	Minimal thickness of the claddings	Maximal thickness of the claddings	Minimal thickness of the claddings	Maximal thickness of the claddings
ETICS with cladding element 1 (clay brick slips)	1.16×10^{11}	1.22×10^{11}	23.1	24.3
ETICS with cladding element 2 (ceramic tiles)	1.20×10^{11}	1.36×10^{11}	24.0	27.1

Table 8

Water vapour permeability (resistance to water vapour diffusion)				
Component of ETICS	Z [$m^2 \cdot s \cdot Pa/kg$]		S_d [m]	
	Minimal thickness	Maximal thickness	Minimal thickness	Maximal thickness
Base adhesive ($Z_{base_adhesive}$)	5.00×10^{8}	5.00×10^{9}	0.10	1.00
Thermal insulation panel ($Z_{insulation}$)	1.40×10^{10}	1.05×10^{11}	2.80	21.00
Reinforced base coat (Z_{base_coat})	1.06×10^{9}	1.33×10^{9}	0.21	0.27
Cladding adhesive ($Z_{cladding_adhesive}$)	7.50×10^{8}	1.00×10^{9}	0.15	0.20
Cladding element 1 - clay brick slips ($Z_{cladding}$)	4.50×10^{9}	1.25×10^{10}	0.90	2.50
Cladding element 2 - ceramic tiles ($Z_{cladding}$)	4.50×10^{11}	1.25×10^{12}	90.00	250.00
Grout (Z_{grout})	7.60×10^{8}	2.38×10^{9}	0.15	0.48

3.2.3 Accelerated ageing behaviour

3.2.3.1 Hygrothermal behaviour

The ETICS passed the test without defects.

Table 9

Hygrothermal behaviour				
ETICS configuration requirements:		Bond strength		
Base coat	Cladding adhesive Cladding element Grout	Mean value without ageing [kPa]	Mean value of after ageing [kPa]	Ratio between mean values [-]
quick-mix RKS	quick-mix RKS + Cladding element 1 – clay brick slips (Annex No. 6, dimensions: 215 × 65 mm) + Grout in accordance with Table 1	115	138	1 / 1.20
	quick-mix RKS + Cladding element 2 – ceramic tiles (Annex No. 7, dimensions: 240 × 71 mm) + Grout in accordance with Table 1	127	134	1 / 1.06

3.3 Safety and accessibility in use (BWR 4)

3.3.1 Bond strength

Table 10

Connection 1 Between the external layers (exterior skin and reinforced base coat) and the insulation panel					
ETICS configuration requirements:		**Conditioning before the test**	**Rupture type**	**Bond strength [kPa]**	
Base coat	**Exterior skin**			**Min.**	**Mean**
quick-mix RKS	None	Dry conditions	100 % in the insulation product	**126**	**142**
		2 days in water + 2 hours drying		**132**	**139**
		2 days in water + 7 days drying		**102**	**110**
		After hygrothermal cycles		**122**	**138**
		After freeze-thaw cycles	No performance assessed		

Table 11

Connection 1 Between the external layers (exterior skin and reinforced base coat) and the insulation panel					
ETICS configuration requirements:		**Conditioning before the test**	**Rupture type**	**Bond strength [kPa]**	
Base coat	**Exterior skin**			**Min.**	**Mean**
quick-mix RKS	quick-mix RKS + Cladding element 1 (clay brick slips) + Grout 1 - 2	Dry conditions	100 % in the insulation product	**98**	**115**
		2 days in water + 2 hours drying	56 % in the insulation product 44 % in between the insulation product and the base coat	**106**	**138**
		2 days in water + 7 days drying	100 % in the insulation product	**101**	**109**
		After hygrothermal cycles	100 % in the insulation product	**129**	**138**
		After freeze-thaw cycles	No performance assessed		

Table 12

Connection 1 Between the external layers (exterior skin and reinforced base coat) and the insulation panel					
ETICS configuration requirements:		**Conditioning before the test**	**Rupture type**	**Bond strength [kPa]**	
Base coat	**Exterior skin**			**Min.**	**Mean**
quick-mix RKS	quick-mix RKS + Cladding element 2 (ceramic tiles) + Grout 1 - 2	Dry conditions	100 % in the insulation product	**116**	**127**
		2 days in water + 2 hours drying		**107**	**115**
		2 days in water + 7 days drying		**112**	**120**
		After hygrothermal cycles		**124**	**134**
		After freeze-thaw cycles	No performance assessed		

Table 13

Connection 2 Between the insulation panel and the base adhesive				
ETICS configuration requirements:	**Conditioning before the test**	**Rupture type**	**Bond strength [kPa]**	
Base adhesive			**Min.**	**Mean**
quick-mix RKS	Dry conditions	100 % in the insulation product	**110**	**120**
	2 days in water + 2 hours drying		**110**	**110**
	2 days in water + 7 days drying		**110**	**110**

Table 14

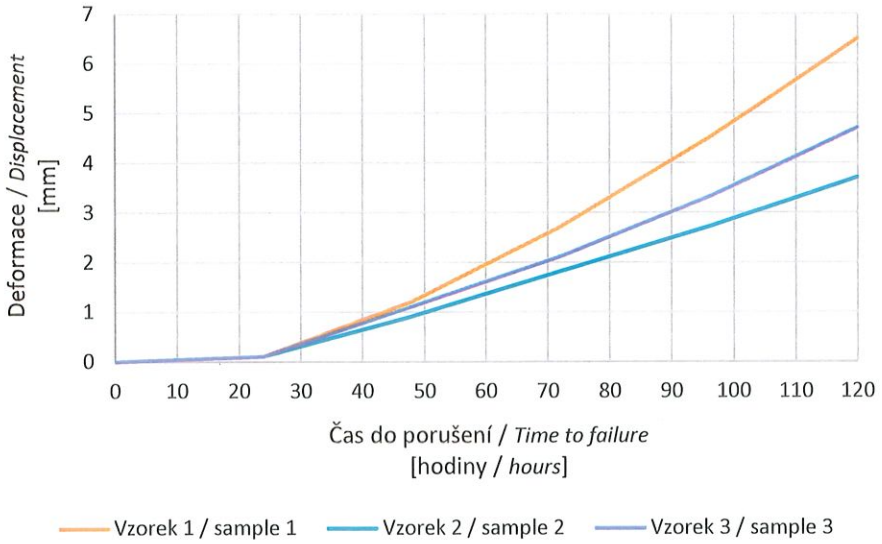
Connection 3 Between the base adhesive and the substrate				
ETICS configuration requirements:	**Conditioning before the test**	**Rupture type**	**Bond strength [kPa]**	
Base adhesive			**Min.**	**Mean**
quick-mix RKS	Dry conditions	100 % in the adhesive	**820**	**870**
	2 days in water + 2 hours drying		**200**	**210**
	2 days in water + 7 days drying		**1360**	**1480**

3.3.2 Dead load behaviour

Table 15

Dead load of bonded ETICS with supplementary mechanical fixing devices Specimen size: 200 × 200 mm					
ETICS configuration requirements:			Reference load [N]	Maximum dead load [N]	Maximum displacement [mm]
Base coat	Exterior skin	Insulation product			
In accordance with Table 1	In accordance with Table 1 Cladding element with the following parameters: max. 1580 kg/m³ max. 25 mm thick	In accordance with Table 1 Min. TR 114 kPa Min. CS 76 kPa Min. SS 41 kPa	216	**216**	**5.0**

Deflection curve:



Tested composition (specimen size: 200 × 200 mm):

Base adhesive:	quick-mix RKS
Instulation panel:	EPS TR100, 300 mm
Base coat:	quick-mix RKS
Reinforcement:	2 × R 117 A101
Cladding adhesive:	quick-mix RKS
Cladding element:	Clay brick slips 25 mm
Grout:	quick-mix FM-X

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

According to the Decision 97/556/EC as amended by Decision 2001/596/EC of the European Commission the systems of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table apply.

Table 16

Product	Intended uses	Class(es) (reaction to fire)	Systems of assessment and verification of constancy of performance
External thermal insulation composite system/kits with rendering (ETICS)	in external wall subject to fire regulations	**A**(1) – **B**(1) – **C**(1)	**1**
		A(2) – **B**(2) – **C**(2) **A** (without testing) **D – E – F**	**2+**
	in external wall not subject to fire regulations	any	**2+**

(1) Materials for which the reaction to fire performance is susceptible to change during the production process
(2) Materials for which the reaction to fire performance is not susceptible to change during the production process

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD: 040287-01-0404

The manufacturer and the Technical and Test Institute for Construction Prague have agreed on a Control Plan which is deposited at the Technical and Test Institute for Construction Prague and it accompanies the ETA. The Control Plan specifies the type and frequency of checks/tests conducted on raw materials, manufactured and subcontracted components.

The manufacturer has defined special techniques of installation that shall always be followed.

Installation shall be done by qualified personnel trained in the special installation techniques defined by the manufacturer.

Notified body has to carry out the initial inspection of the manufacturing plant and of factory production control. Notified body also carries out continuous surveillance, assessment and evaluation of factory production control at least once per year.

Issued in Prague on 17/03/2025

by

Ing. Jiří Studnička, Ph.D.

Head of the Technical Assessment Body (TAB)





Annexes:

Annex No. 1	List of manufacturing plants
Annex No. 2	Thermal conductivity and thermal resistance
Annex No. 3	Insulation panel – expanded polystyrene (EPS)
Annex No. 4	Mechanical fixing device – anchors
Annex No. 5	Reinforcement – glass fibre mesh
Annex No. 6	Cladding – clay brick slips
Annex No. 7	Cladding – ceramic tiles
Annex No. 8	Alternative trade names of the components as defined by the manufacturer

Annex No. 1 List of manufacturing plants

1. Sievert CZ k.s.
   Vinohradská 1112/82
   618 00 Brno
   Czech Republic

2. Sievert CZ k.s.
   Ledčice 150
   277 08 Ledčice
   Czech Republic

3. Sievert SK s.r.o.
   Mostová 3476
   932 01 Veľký Meder
   Slovak Republic

Annex No. 2 Thermal conductivity and thermal resistance

$$U_c = U + \Delta U \; [W/m^2 \cdot K]$$

U_c is corrected thermal transmittance of the entire wall, including thermal bridges.

U is thermal transmittance of the entire wall, including ETICS, without thermal bridges.

ΔU is correction term of the thermal transmittance for mechanical fixing devices.

$$U = \frac{1}{R_{si} + R_{substrate} + R_{ETICS} + R_{se}} \; [W/m^2 \cdot K]$$

R_{ETICS} is thermal resistance of the ETICS calculated as follows by addition of thermal resistance of the different layers as described in EN ISO 6946 and EN ISO 10456:

$$R_{ETICS} = R_{skin} + R_{cladd_adhesive} + R_{base_coat} + R_{insulation} + R_{base_adhesive} \; [(m^2 \cdot K)/W]$$

Where: R_{skin} is calculated as:

$$R_{skin} = R_{cladding} \cdot P_{cladding} + R_{grout} \cdot P_{joint} \; [(m^2 \cdot K)/W]$$

Where: $R_{cladding}$ is given either by tabulated values according to EN ISO 10456 or according to relevant harmonized standard [m²·K/W].
$P_{cladding}$ is percentage surface of cladding element [%].
R_{joint} is obtained either from tabulated values according to EN ISO 10456 or EN 1745, or from measured values according to EN 12939, EN 12667 or EN 12664, or when relevant according to the harmonized standard [m²·K/W].
P_{joint} is percentage surface of joints [%].

$R_{cladd_adhesive}$ and R_{base_coat} and $R_{base_adhesive}$ are obtained either from tabulated values according to EN ISO 10456 or EN 1745, or from measured values according to EN 12939, EN 12667 or EN 12664, or when relevant according to the harmonized standard [m²·K/W].
$R_{insulation}$ is insulation thickness / thermal conductivity coefficient [m²·K/W] given in according to the relevant harmonized standard

$R_{substrate}$ is thermal resistance of the substrate wall [m²·K/W].

R_{se} is external surface thermal resistance [m²·K/W].

R_{si} is internal surface thermal resistance [m²·K/W].

$$\Delta U = \chi_P \times n_{fix} \; [m^2 \cdot K/W]$$

Where: χ_P is point thermal transmittance value of the anchor [W/K]. Specified by the ETA for anchors or as follows:

0.002 [W/K]	For anchors with a plastic screw/nail, stainless steel screw/nail with the head covered by plastic material, and for anchors with an air gap at the head of the screw/nail.
0.004 [W/K]	For anchors with a galvanized steel screw/nail with the head covered by a plastic material.
0.008 [W/K]	For all other anchors (the worst case).

n is number of anchors per m². In case n is more than 16, the U_c calculation does not apply.

The influence of thermal bridges can also be calculated as described in EN ISO 10211. If there are more than 16 pcs of anchors per m² the declared χ_P shall not be used. The EN ISO 10211 calculation shall be used in such case.

Annex No. 3 Insulation panel – expanded polystyrene (EPS)

Factory made expanded polystyrene (EPS)	
Generic type	
Requirements:	
Harmonized technical specification:	EN 13163
Apparent density (EN 1602 or EN ISO 29470):	≤ 19.75 kg/m³
Content of graphite:	Allowed
Composite insulation product:	No
Multi-layered insulation product	No
Facing:	No
Coating:	No
Max. thermal conductivity coefficient λ_D:	max. 0.065 W/(m·K)
Length:	L(2)
Width:	W(2)
Thickness:	T(2)
Squareness in the direction of length and width:	S(5)
Flatness:	P(5)
Dimensional stability:	DS(70,–)1 DS(N)2
Reaction to fire of thermal insulation material:	E
Water vapour permeability of thermal insulation product (water-vapour resistance factor) μ:	20 – 70 [-]
Tensile test perpendicular to the faces of the thermal insulation product – in dry conditions:	min. 100 kPa
Shear strength:	min. 20 kPa
Shear modulus:	min. 1000 kPa

Annex No. 4 Mechanical fixing device – anchors

Plastic anchors for fixing external thermal insulation composite systems with cladding elements	
Generic type	
Requirements:	
Harmonized technical specification:	ETAG 014 or EAD 330196-00-0604 or EAD 330196-01-0604 or superseding harmonized technical specification
Setting:	to be screwed-in or nailed-in and to be installed through the glass fiber mesh
Diameter of the anchor plate:	min. 60 mm
Load resistance of the anchor plate:	min. 1.4 kN
Plate stiffness:	min. 0.6 kN/mm
Material of the nail	metal

Annex No. 5 Reinforcement – glass fibre mesh

Standard glass fibre mesh	
Specific type R 117 A101	
Requirements:	
Harmonized technical specification:	040016-00-0404 or 040016-01-0404 or superseding harmonized technical specification
Mass per unit area	0.15 to 0.18 kg/m^2
Heat of combustion:	Max. 7.81 MJ/kg or 1.13 MJ/m^2
Residual tensile strength retained after alkaline conditioning:	in warp direction: min. 20 N/mm in weft direction: min. 20 N/mm
Residual tensile strength after alkaline ageing	in warp direction: min. 50 % in weft direction: min. 50 %
Mesh opening:	in warp direction: 3.5 to 4.5 mm in weft direction: 4.0 to 5.0 mm

Reinforced glass fibre mesh	
Specific type R 267 A101	
Requirements:	
Harmonized technical specification:	040016-00-0404 or 040016-01-0404 or superseding harmonized technical specification
Mass per unit area	0.314 ± 5 % kg/m^2
Heat of combustion:	Max. 6.02 MJ/kg or 3.26 MJ/m^2
Residual tensile strength retained after alkaline conditioning:	in warp direction: min. 20 N/mm in weft direction: min. 20 N/mm
Residual tensile strength after alkaline ageing	in warp direction: min. 50 % in weft direction: min. 50 %
Mesh opening:	in warp direction: 7.4 to 8.4 mm in weft direction: 6.0 to 7.0 mm

Reinforced glass fibre mesh	
Specific type **125/1**	
Requirements:	
Harmonized technical specification:	040016-00-0404 or 040016-01-0404 or superseding harmonized technical specification
Mass per unit area	0.330 ± 5 % kg/m^2
Heat of combustion:	Max. 9.70 MJ/kg or 3.26 MJ/m^2
Residual tensile strength retained after alkaline conditioning:	in warp direction: min. 20 N/mm in weft direction: min. 20 N/mm
Residual tensile strength after alkaline ageing	in warp direction: min. 50 % in weft direction: min. 50 %
Mesh opening:	in warp direction: 7.6 to 8.6 mm in weft direction: 14.3 to 15.3 mm

Annex No. 6 Cladding – clay brick slips

Requirements on clay brick slips	
Area weight:	≤ 40 kg/m² (by EN ISO 10545-3 calculated from m_1 for m²)
Water absorption (24 hours):	E_v ≤ 25.8 % (EN ISO 10545-3)
Thickness range:	9 – 25 mm (by EN ISO 10545-2)
Length:	≤ 240 mm (by EN 772-16)
Width:	≤ 115 mm (by EN 772-16)
Surface area:	≤ 0.028 m²
Frost resistance:	Without defects after 100 cycles (by EN ISO 10545-12)
Reaction to fire:	A1 (by 96/603/EC as amended) or max. heat of combustion by EN ISO 1716 must comply with the fire classification requirements
Water vapour diffusion resistance factor:	μ = 100 (by EN 1745)

Annex No. 7 Cladding – ceramic tiles

Requirements on extruded and dry-pressed tiles by EN 14411	
Area weight:	≤ 40 kg/m^2 (by EN ISO 10545-3 calculated from m_1 for m^2)
Water absorption	E_v ≤ 6.5 % (EN ISO 10545-3)
Thickness range:	9 - 25 mm (by EN ISO 10545-2)
Length:	≤ 440 mm (by EN ISO 10545-2)
Width:	≤ 71 mm (by EN ISO 10545-2)
Surface area:	≤ 0.032 m^2
Frost resistance:	Without defects (by EN ISO 10545-12)
Reaction to fire:	A1 (by 96/603/EC as amended) or max. heat of combustion by EN ISO 1716 must comply with the fire classification requirements
Water vapour diffusion resistance factor:	μ = 10 000 (by EN ISO 10456)

Annex No. 8 Alternative trade names of the components as defined by the manufacturer

Trade name	Alternative trade name of the component
quick-mix RKS	quick-mix F-RKS