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European Technical Assessment

**ETA-17/0335
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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

ECOROCK PLUS / ECOROCK DUAL

Product family to which the construction product belongs

Product area code: 4
External Thermal Insulation Composite Systems (ETICS) with renderings
FAST WALL SYSTEMS sp. z o.o.
Foluszowa 112
Zielona Góra
Poland

Manufacturer

Manufacturing plant(s)

FAST WALL SYSTEMS sp. z o.o.
Foluszowa 112
Zielona Góra
Poland

This European Technical Assessment contains

48 pages including 5 Annexes which form an integral part of this assessment.
Annex No. 6 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 Article 95(4) of Regulation (EU) 2024/3110, on the basis of

European Assessment Document (EAD)
040083-01-0404
External Thermal Insulation Composite Systems (ETICS) with renderings

This version replaces

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Specific Parts

1 Technical description of the product

The product is a kit of External Thermal Insulation Composite System with rendering system (hereinafter referred to as ETICS) to be applied on site onto external walls.

1.1 Composition of the product (kit)

Table 1

Use and variant	Component	Coverage [kg/m ²]	Thickness [mm]
Adhesive 1	ECOROCK 100 Powder requiring addition of water 0.22 l/kg Use as adhesive and supplementary adhesive For additional specifications see Annex No. 1	4 – 6 (dry powder)	5 – 20
Adhesive 2	ECOROCK 120 Powder requiring addition of water 0.20 l/kg Use as adhesive and supplementary adhesive For additional specifications see Annex No. 1	4 – 6 (dry powder)	5 – 20
Thermal insulation product 1	Mineral wool lamella (MW) by EN 13162 For additional specifications see Annex No. 2	N/A	40 – 320
Thermal insulation product 2	Mineral wool board (MW) by EN 13162 For additional specifications see Annex No. 2	N/A	40 – 320
Thermal insulation product 3	Expanded polystyrene (EPS) by EN 13163 For additional specifications see Annex No. 2	N/A	40 – 320
Mechanical fixing device 1	Plastic anchors made of virgin or non –virgin material for fixing of external thermal insulation composite systems with rendering For additional specifications see Annex No. 3	N/A	N/A
Base coat 1	ECOROCK 120 Powder requiring addition of water 0.20 l/kg For additional specifications see Annex No. 1	4 – 6 (dry powder)	3 – 5
Glass fibre mesh 1	Reinforced glass fibre mesh, one or two layers. Embedded in the base coat in addition to one layer of glass fibre mesh 1. For additional specifications see Annex No. 4	0.145 – 0.160 (per layer)	N/A
Key coat 1	ECOROCK 200 Use mandatorily with finishing coat(s) Apply in max. 1 layer For additional specifications see Annex No. 1	0.35 (liquid)	≤ 0.2 (per layer)
Key coat 2	ECOROCK 510 Use optionally with finishing coat ECOROCK 580 Apply in max. 1 layer For additional specifications see Annex No. 1	0.20 (liquid)	≤ 0.2 (per layer)
Finishing layer 1	ECOROCK 150 1.5 Render powder requiring addition of water 0.20 – 0.22 l/kg For additional specifications see Annex No. 1	2.2 – 3.8 (dry powder)	~ 1.5
Finishing layer 2	ECOROCK 150 2.0 Render powder requiring addition of water 0.20 – 0.22 l/kg For additional specifications see Annex No. 1	2.2 – 3.8 (dry powder)	~ 2.0
Finishing layer 3	ECOROCK 150 2.5 Render powder requiring addition of water 0.20 – 0.22 l/kg For additional specifications see Annex No. 1	2.2 – 3.8 (dry powder)	~ 2.5

Use and variant	Component	Coverage [kg/m ²]	Thickness [mm]
Finishing layer 4	ECOROCK 150 3.0 Render powder requiring addition of water 0.20 – 0.22 l/kg For additional specifications see Annex No. 1	2.2 – 3.8 (dry powder)	~ 3.0
Finishing layer 5	ECOROCK 160 2.0 Render powder requiring addition of water 0.20 – 0.22 l/kg For additional specifications see Annex No. 1	2.2 – 3.5 (dry powder)	~ 2.0
Finishing layer 6	ECOROCK 160 3.0 Render powder requiring addition of water 0.20 – 0.22 l/kg For additional specifications see Annex No. 1	2.2 – 3.8 (dry powder)	~ 3.0
Finishing layer 7	ECOROCK 170 Render powder requiring addition of water 0.20 – 0.22 l/kg For additional specifications see Annex No. 1	3.0 – 4.5 (dry powder)	2.0 - 3.0
Finishing layer 8	ECOROCK 341 1.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.0
Finishing layer 9	ECOROCK 341 1.5 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.5
Finishing layer 10	ECOROCK 341 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 11	ECOROCK 341 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 12	ECOROCK 342 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 13	ECOROCK 342 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 14	ECOROCK 371 1.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.0
Finishing layer 15	ECOROCK 371 1.5 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.5
Finishing layer 16	ECOROCK 371 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 17	ECOROCK 371 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 18	ECOROCK 372 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 19	ECOROCK 372 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 20	ECOROCK 311 1.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.0
Finishing layer 21	ECOROCK 311 1.5 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.5

Use and variant	Component	Coverage [kg/m ²]	Thickness [mm]
Finishing layer 22	ECOROCK 311 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 23	ECOROCK 311 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 24	ECOROCK 312 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 25	ECOROCK 312 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 26	ECOROCK 321 1.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.0
Finishing layer 27	ECOROCK 321 1.5 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.5
Finishing layer 28	ECOROCK 321 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 29	ECOROCK 321 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 30	ECOROCK 400 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.5
Finishing layer 31	ECOROCK 331 1.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.0
Finishing layer 32	ECOROCK 331 1.5 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.5
Finishing layer 33	ECOROCK 331 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 33	ECOROCK 331 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 34	ECOROCK 332 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 35	ECOROCK 332 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 36	ECOROCK 351 1.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.0
Finishing layer 37	ECOROCK 351 1.5 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.5
Finishing layer 38	ECOROCK 351 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 39	ECOROCK 351 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0

Use and variant	Component	Coverage [kg/m ²]	Thickness [mm]
Finishing layer 40	ECOROCK 352 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 41	ECOROCK 352 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 36	ECOROCK 361 1.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.0
Finishing layer 37	ECOROCK 361 1.5 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 1.5
Finishing layer 38	ECOROCK 361 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 39	ECOROCK 361 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 40	ECOROCK 362 2.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 2.0
Finishing layer 41	ECOROCK 362 3.0 Render ready-to-use paste For additional specifications see Annex No. 1	1.7 – 3.5 (dry powder)	~ 3.0
Finishing layer 41	ECOROCK 580 Render ready-to-use paste For additional specifications see Annex No. 1	0.5 – 0.9 (dry powder)	≤ 1
Decorative coat 1	ECOROCK 540 ready to use liquid, two layers, dilute the first layer with up to 5 % of volume with water To be used mandatorily with finishing coats ECOROCK 150, ECOROCK 160 and ECOROCK 170 For additional specifications see Annex No. 1	0.10 – 0.20 l/m ² per layer	< 0.2
Decorative coat 2	ECOROCK 550 ready to use liquid, two layers, dilute with up to 10 % of volume with water To be used mandatorily with finishing coats ECOROCK 150, ECOROCK 160 and ECOROCK 170 For additional specifications see Annex No. 1	0.10 – 0.20 l/m ² per layer	< 0.2
Decorative coat 3	ECOROCK 560 ready to use liquid, two layers, dilute the first layer with up to 10 % of volume with water To be used mandatorily with finishing coats ECOROCK 150, ECOROCK 160 and ECOROCK 170 For additional specifications see Annex No. 1	0.10 – 0.20 l/m ² per layer	< 0.2
Decorative coat 4	ECOROCK 530 ready to use liquid, two layers, dilute the first layer with up to 10 % of volume with water To be used mandatorily with finishing coats ECOROCK 150, ECOROCK 160 and ECOROCK 170 For additional specifications see Annex No. 1	0.10 – 0.20 l/m ² per layer	< 0.2
Decorative coat 5	ECOROCK 510 ready to use liquid, two layers, dilute the first layer with up to 10 % of volume with water To be used mandatorily with finishing coats ECOROCK 150, ECOROCK 160 and ECOROCK 170 For additional specifications see Annex No. 1	0.10 – 0.20 l/m ² per layer	< 0.2

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

Table 2

Component	Fixing methods of ETICS		
	Purely bonded ETICS	Bonded ETICS with supplementary mechanical fixing devices	Mechanically fixed ETICS with supplementary adhesive
Substrate	Masonry walls from units of burnt clay, concrete, calcium silicate, autoclaved aerated concrete or stone laid using mortar or adhesive or both. Concrete walls made of concrete, either cast in situ or prefabricated at the factory. Walls shall meet the maximum deviation of $\pm 5^\circ$ from verticality can be with or without rendering system.		
Adhesive	Adhesive 1 or Adhesive 2 Min. 40 % area covered by adhesive	Adhesive 1 or Adhesive 2 Min. 40 % area covered by adhesive	Adhesive 1 or Adhesive 2 Min. 20 % area covered by adhesive
Thermal insulation product	Thermal insulation product 1 or Thermal insulation product 3	Thermal insulation product 1 or Thermal insulation product 3	Thermal insulation product 1 or Thermal insulation product 2 or Thermal insulation product 3
Mechanical fixing devices	Not to be used	See Annex No. 3	See Annex No. 3

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

Any kit component may be produced by the kit manufacturer or purchased by the kit manufacturer on the market or from a specific supplier.

The ETICS may include ancillary components (e.g. corner beads) to treat construction details of ETICS.

It is assumed that the product is installed according to Manufacturer's Product Installation Instructions (MPII).

The ETICS are a non-load-bearing construction products and do not contribute directly to the stability of the walls on which they are installed.

The ETICS provides additional thermal insulation and protection from effect of weathering.

The provisions made in this ETA are based on an assumed intended working life of at least 25 years, 50 years for ETICS with EPS and MW insulation products, provided that the ETICS are 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	Cl. 2.2.1	See cl. 3.1.1
Reaction to fire of the thermal insulation product	Cl. 2.2.1.1	No performance assessed (See Annex No. 2 for component characteristic)
Façade fire performance	Cl. 2.2.2	No performance assessed
Propensity to undergo continuous smouldering	Cl. 2.2.3	No performance assessed
Content, emission and/or release of dangerous substances	Cl. 2.2.4	No performance assessed
Water absorption of the base coat and the rendering system	Cl. 2.2.5.1	See cl. 3.2.1
Water absorption of the thermal insulation product	Cl. 2.2.5.2	No performance assessed (See Annex No. 2 for component characteristic)
Watertightness. Hygrothermal behaviour	Cl. 2.2.6	See cl. 3.2.2
Watertightness. Freeze – thaw resistance	Cl. 2.2.7	See cl. 3.2.3
Impact resistance	Cl. 2.2.8	See cl. 3.2.4
Water vapour permeability of the rendering system (equivalent air thickness)	Cl. 2.2.9.1	See cl. 3.2.5
Water vapour permeability of the thermal insulation product (water-vapour resistance factor)	Cl. 2.2.9.2	No performance assessed (See Annex No. 2 for component characteristic)
Bond strength between the base coat and the thermal insulation product	Cl. 2.2.10.1	See cl. 3.3.1
Bond strength between the adhesive and the substrate	Cl. 2.2.10.2	See cl. 3.3.2
Bond strength between the adhesive and the thermal insulation product	Cl. 2.2.10.3	See cl. 3.3.3
Fixing strength transverse displacement test	Cl. 2.2.11	No performance assessed
Wind load resistance. Pull-through resistance	Cl. 2.2.12.1	See cl. 3.3.4
Wind load resistance. Static foam block resistance	Cl. 2.2.12.2	No performance assessed
Wind load resistance. Dynamic wind uplift resistance	Cl. 2.2.12.3	No performance assessed
Tensile strength perpendicular to the faces of the thermal insulation product in dry conditions	Cl. 2.2.13.1	No performance assessed (See Annex No. 2 for component characteristic)
Tensile strength perpendicular to the faces of the thermal insulation product in wet conditions	Cl. 2.2.13.2	No performance assessed
Shear strength and shear modulus of elasticity of the thermal insulation product	Cl. 2.2.14	No performance assessed (See Annex No. 2 for component characteristic)
Render strip tensile test	Cl. 2.2.16	No performance assessed
Airborne sound insulation	Cl. 2.2.19	No performance assessed
Dynamic stiffness of the thermal insulation product	Cl. 2.2.19.1	No performance assessed (See Annex No. 2 for component characteristic)
Air flow resistance of the thermal insulation product	Cl. 2.2.19.2	No performance assessed

Essential characteristic	Assessment method (EAD clause)	Performance
Thermal resistance	Cl. 2.2.20	See cl. 3.4.1
Thermal conductivity and thermal resistance of the thermal insulation product	Cl. 2.2.20.1	No performance assessed (See Annex No. 2 for component characteristic)
Bond strength after ageing of finishing layers tested on the rig	Cl. 2.2.21.1	See cl. 3.5.1
Bond strength after ageing of finishing layers not tested on the rig	Cl. 2.2.21.2	See cl. 3.5.2
Tensile strength and elongation of the glass fibre mesh at initial state and after ageing in alkali conditions	EAD 040016-01-0404 Clause 2.2.7	No performance assessed (See Annex No. 4 for component characteristic)

Table 4 – Table 24 lay down assessments of essential characteristics of specific combinations of ETICS components.

Any combination of components not meeting the criteria of Table 4 – Table 24 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

Table 4

Reaction to fire of ETICS: A2-s1, d0	
Component	Assessed configuration of the components
Adhesive	ECOROCK 100 or ECOROCK 120
Thermal insulation product	Thermal insulation product 1 (MW) or Thermal insulation product 2 (MW) Max. apparent density (EN 1602): 164 kg/m ³
Anchors	In accordance with Table 1
Base coat	ECOROCK 120 Min. 3 mm
Reinforcement	Reinforcement 1 in max. two layers or provided reinforcement 1 has max. heat of combustion 1.49 MJ/m ²
Key coat	In accordance with Table 1
Render	In accordance with Table 1 ECOROCK 580 in max. thickness 0.6 mm
Key coat under decorative coat	In accordance with Table 1
Decorative coat	In accordance with Table 1

Table 5

Reaction to fire of ETICS: B-s1, d0	
Component	Assessed configuration of the components
Adhesive	ECOROCK 100 or ECOROCK 120
Thermal insulation product	Thermal insulation product 3 (EPS) Max. apparent density (EN 1602): 14.3 kg/m ³
Anchors	In accordance with Table 1
Base coat	ECOROCK 120 Min. 3.5 mm
Reinforcement	Reinforcement 1 in max. two layers or provided reinforcement 1 has max. heat of combustion 1.49 MJ/m ²
Key coat	In accordance with Table 1
Render	ECOROCK 170 ECOROCK 150 ECOROCK 160
Key coat under decorative coat	In accordance with Table 1
Decorative coat	In accordance with Table 1

Table 6

Reaction to fire of ETICS: B-s1, d0	
Component	Assessed configuration of the components
Adhesive	ECOROCK 100 or ECOROCK 120
Thermal insulation product	Thermal insulation product 3 (EPS) Max. apparent density (EN 1602): 14.3 kg/m ³
Anchors	In accordance with Table 1
Base coat	ECOROCK 120 Min. 3.5 mm
Reinforcement	Reinforcement 1 in max. two layers or provided reinforcement 1 has max. heat of combustion 1.49 MJ/m ²
Key coat	In accordance with Table 1
Render	In accordance with Table 1 With thickness ≤ 1.0 mm
Key coat under decorative coat	In accordance with Table 1
Decorative coat	In accordance with Table 1

Table 7

Reaction to fire of ETICS: C-s2, d0	
Component	Assessed configuration of the components
Adhesive	ECOROCK 100 or ECOROCK 120
Thermal insulation product	Thermal insulation product 3 (EPS) Max. apparent density (EN 1602): 14.3 kg/m ³
Anchors	In accordance with Table 1
Base coat	ECOROCK 120 Min. 3.5 mm
Reinforcement	Reinforcement 1 in max. two layers or provided reinforcement 1 has max. heat of combustion 1.49 MJ/m ²
Key coat	In accordance with Table 1
Render	In accordance with Table 1
Key coat under decorative coat	In accordance with Table 1
Decorative coat	In accordance with Table 1

3.2 Hygiene, health and the environment (BWR 3)

3.2.1 Water absorption of the base coat and the rendering system

Table 8

Assessed configuration of the components					W _{p, 1h} [kg/m ²]	W _{p, 24h} [kg/m ²]
Thermal insulation product	Base coat	Key coat	Finishing layer	Decorative coat		
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	N/A	N/A	N/A	0.1	0.5
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 150	ECOROCK 540	< 0.1	0.4
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 150	ECOROCK 550	< 0.1	0.2
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 150	ECOROCK 560	< 0.1	0.2
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 150	ECOROCK 530	< 0.1	0.2
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 150	ECOROCK 510	< 0.1	0.2
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 170	ECOROCK 540	< 0.1	0.1
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 170	ECOROCK 550	< 0.1	0.1
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 170	ECOROCK 560	< 0.1	0.1
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 170	ECOROCK 530	< 0.1	0.2
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 170	ECOROCK 510	< 0.1	0.1
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 510	ECOROCK 580	N/A	< 0.1	0.1
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 341	N/A	< 0.1	< 0.1
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 371	N/A	< 0.1	< 0.1
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 361	N/A	< 0.1	0.3

Assessed configuration of the components					W _{p, 1h} [kg/m ²]	W _{p, 24h} [kg/m ²]
Thermal insulation product	Base coat	Key coat	Finishing layer	Decorative coat		
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 312	N/A	< 0.1	0.7
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 400	N/A	< 0.1	0.9
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 332	N/A	< 0.1	0.8
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 352	N/A	< 0.1	0.8
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 311	N/A	< 0.1	0.4
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 351	N/A	< 0.1	0.2
Thermal insulation product 3	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 331	N/A	< 0.1	0.2

Table 9

Assessed configuration of the components					W _{p, 1h} [kg/m ²]	W _{p, 24h} [kg/m ²]
Thermal insulation product	Base coat	Key coat	Finishing layer	Decorative coat		
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	N/A	N/A	N/A	< 0.1	0.2
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 150 Thickness ≤ 2.5 mm	ECOROCK 540	< 0.1	0.3
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 150 Thickness ≤ 2.5 mm	ECOROCK 550	< 0.1	0.3
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 150 Thickness ≤ 2.5 mm	ECOROCK 560	< 0.1	0.3
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 150 Thickness ≤ 2.5 mm	ECOROCK 530	< 0.1	0.2

Assessed configuration of the components					W _{p, 1h} [kg/m ²]	W _{p, 24h} [kg/m ²]
Thermal insulation product	Base coat	Key coat	Finishing layer	Decorative coat		
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 150 Thickness ≤ 2.5 mm	ECOROCK 510	< 0.1	0.3
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 170	ECOROCK 540	< 0.1	0.3
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 170	ECOROCK 550	< 0.1	0.4
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 170	ECOROCK 560	< 0.1	0.2
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 170	ECOROCK 530	< 0.1	0.2
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 170	ECOROCK 510	0.2	0.3
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 510	ECOROCK 580	N/A	< 0.1	0.3
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 341	N/A	< 0.1	< 0.4
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 371	N/A	< 0.1	< 0.4
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 361	N/A	< 0.1	0.3
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 400	N/A	< 0.1	0.2
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 311	N/A	< 0.1	0.4
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 351	N/A	< 0.1	0.4
Thermal insulation product 1 or 2	ECOROCK 120 Thickness ≤ 5 mm	ECOROCK 200	ECOROCK 331	N/A	< 0.1	0.2

3.2.2 Watertightness. Hygrothermal behaviour

Table 10

ETICS is resistant to cycles of: HWC					
Assessed configuration of the components:					
Thermal insulation product	Base coat	Glass fibre mesh	Key coat	Finishing layer	Decorative coat
Thermal insulation product 3 with dimensional stability at least: DS(70,-)2	ECOROCK 120 Thickness 3 – 5 mm	Glass fibre mesh 1 With tensile strength after conditioning min. 20 N/mm And coverage ratio ≥ 34 %	ECOROCK 200	ECOROCK 170	ECOROCK 530
Thermal insulation product 3 with dimensional stability at least: DS(70,-)2	ECOROCK 120 Thickness 3 – 5 mm	Glass fibre mesh 1 With tensile strength after conditioning min. 20 N/mm And coverage ratio ≥ 34 %	ECOROCK 200	ECOROCK 341	N/A
Thermal insulation product 3 with dimensional stability at least: DS(70,-)2	ECOROCK 120 Thickness 3 – 5 mm	Glass fibre mesh 1 With tensile strength after conditioning min. 20 N/mm And coverage ratio ≥ 34 %	ECOROCK 200	ECOROCK 311	N/A
Thermal insulation product 3 with dimensional stability at least: DS(70,-)2	ECOROCK 120 Thickness 3 – 5 mm	Glass fibre mesh 1 With tensile strength after conditioning min. 20 N/mm And coverage ratio ≥ 34 %	ECOROCK 200	ECOROCK 331	N/A
Thermal insulation product 3 with dimensional stability at least: DS(70,-)2	ECOROCK 120 Thickness 3 – 5 mm	Glass fibre mesh 1 With tensile strength after conditioning min. 20 N/mm And coverage ratio ≥ 34 %	ECOROCK 200	ECOROCK 352	N/A

Table 11

ETICS is resistant to cycles of: HWC					
Assessed configuration of the components:					
Thermal insulation product	Base coat	Glass fibre mesh	Key coat	Finishing layer	Decorative coat
Thermal insulation product 1 or 2 with dimensional stability at least: DS(70,90)	ECOROCK 120 Thickness 3 – 5 mm	Glass fibre mesh 1 With tensile strength after conditioning min. 20 N/mm And coverage ratio ≥ 34 %	ECOROCK 200	ECOROCK 170	ECOROCK 530
Thermal insulation product 1 or 2 with dimensional stability at least: DS(70,90)	ECOROCK 120 Thickness 3 – 5 mm	Glass fibre mesh 1 With tensile strength after conditioning min. 20 N/mm And coverage ratio ≥ 34 %	ECOROCK 200	ECOROCK 311	N/A
Thermal insulation product 1 or 2 with dimensional stability at least: DS(70,90)	ECOROCK 120 Thickness 3 – 5 mm	Glass fibre mesh 1 With tensile strength after conditioning min. 20 N/mm And coverage ratio ≥ 34 %	ECOROCK 200	ECOROCK 341	N/A
Thermal insulation product 1 or 2 with dimensional stability at least: DS(70,90)	ECOROCK 120 Thickness 3 – 5 mm	Glass fibre mesh 1 With tensile strength after conditioning min. 20 N/mm And coverage ratio ≥ 34 %	ECOROCK 200	ECOROCK 361	N/A

3.2.3 Watertightness. Freeze – thaw resistance

Table 12

Assessed configuration of the components					Assessment
Thermal insulation product	Base coat	Key coat	Finishing layer	Decorative coat	
Thermal insulation product 3	ECOROCK 120 Thickness 3 mm	ECOROCK 200	ECOROCK 312 Thickness ≤ 3 mm	N/A	ETICS is freeze-thaw resistant
Thermal insulation product 3	ECOROCK 120 Thickness 3 mm	ECOROCK 200	ECOROCK 400 Thickness ≤ 1.5 mm	N/A	ETICS is freeze-thaw resistant
Thermal insulation product 3	ECOROCK 120 Thickness 3 mm	ECOROCK 200	ECOROCK 332 Thickness ≤ 3.0 mm	N/A	ETICS is freeze-thaw resistant
Thermal insulation product 3	ECOROCK 120 Thickness 3 mm	ECOROCK 200	ECOROCK 352 Thickness ≤ 3.0 mm	N/A	ETICS is freeze-thaw resistant
All combinations of components of 3.2.1 with results of $W_{p, 24h} < 0.5 \text{ kg/m}^2$.					ETICS is freeze-thaw resistant

3.2.4 Impact resistance

Level achieved for a certain impact energy can also be considered for any lower energy.

Table 13

Assessed configuration of the components						Level
Thermal insulation product	Base coat	Glass fibre mesh	Key coat	Finishing layer	Decorative coat	
Thermal insulation product 3	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 311	N/A	D_{3,HWC}
Thermal insulation product 3	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 321	N/A	D_{3,HWC}
Thermal insulation product 3	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 351	N/A	D_{3,HWC}
Thermal insulation product 3	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 341	N/A	D_{3,HWC}
Thermal insulation product 3	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 361	N/A	D_{3,w}
Thermal insulation product 3	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 331	N/A	D_{3,w}
Thermal insulation product 3	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 351	N/A	D_{3,w}
Thermal insulation product 3	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 400	N/A	D_{3,w}
Thermal insulation product 3	ECOROCK 120	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 150 Thickness ≥ 2 mm	N/A	A_{10,w}
Thermal insulation product 3	ECOROCK 120	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 580	N/A	A_{3,w} D_{10,w}
Thermal insulation product 3	ECOROCK 120	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 361	N/A	A_{10,w}
Thermal insulation product 3	ECOROCK 120	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 331	N/A	A_{10,w}
Thermal insulation product 3	ECOROCK 120	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 400 Thickness ≥ 1.5 mm	N/A	A_{10,w}
Thermal insulation product 3	ECOROCK 120	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 341	N/A	A_{10,w}

Assessed configuration of the components						Level
Thermal insulation product	Base coat	Glass fibre mesh	Key coat	Finishing layer	Decorative coat	
Thermal insulation product 3	ECOROCK 120	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 371	N/A	A_{10,w}
Thermal insulation product 3	ECOROCK 120	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 311 Thickness ≥ 2.0 mm	N/A	A_{10,w}
Thermal insulation product 3	ECOROCK 120	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 351 Thickness ≥ 2.0 mm	N/A	A_{10,w}

Table 14

Assessed configuration of the components						Level
Thermal insulation product	Base coat	Glass fibre mesh	Key coat	Finishing layer	Decorative coat	
Thermal insulation product 2	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 170 Thickness ≥ 1 mm	ECOROCK 530	A_{3,HWC}
Thermal insulation product 2	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 311	N/A	A_{3,HWC}
Thermal insulation product 2	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 341	N/A	D_{3,HWC}
Thermal insulation product 2	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 361	N/A	D_{3,HWC}

Table 15

Assessed configuration of the components						Level
Thermal insulation product	Base coat	Glass fibre mesh	Key coat	Finishing layer	Decorative coat	
Thermal insulation product 1	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 150 Thickness ≥ 1.5 mm	ECOROCK 540	D_{3,w}
Thermal insulation product 1	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 150 Thickness ≥ 1.5 mm	ECOROCK 560	D_{3,w}
Thermal insulation product 1	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 170 Thickness ≥ 2.0 mm	ECOROCK 540	A_{3,w} D_{10,w}
Thermal insulation product 1	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 170 Thickness ≥ 2.0 mm	ECOROCK 560	A_{3,w} D_{10,w}
Thermal insulation product 1	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 580	N/A	D_{3,w}
Thermal insulation product 1	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 311	N/A	D_{3,w}
Thermal insulation product 1	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 400	N/A	D_{3,w}
Thermal insulation product 1	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 341	N/A	D_{3,w}
Thermal insulation product 1	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 351	N/A	D_{3,w}
Thermal insulation product 1	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 361	N/A	D_{3,w}
Thermal insulation product 1	ECOROCK 120 Thickness ≥ 5 mm	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 150	ECOROCK 540	A_{3,w} D_{10,w}
Thermal insulation product 1	ECOROCK 120 Thickness ≥ 5 mm	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 150	ECOROCK 560	A_{3,w} D_{10,w}
Thermal insulation product 1	ECOROCK 120 Thickness ≥ 5 mm	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 170	ECOROCK 540	A_{3,w} D_{10,w}

Assessed configuration of the components						Level
Thermal insulation product	Base coat	Glass fibre mesh	Key coat	Finishing layer	Decorative coat	
Thermal insulation product 1	ECOROCK 120 Thickness ≥ 5 mm	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 170	ECOROCK 560	A_{3,w} D_{10,w}
Thermal insulation product 1	ECOROCK 120 Thickness ≥ 5 mm	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 580	N/A	A_{3,w} D_{10,w}
Thermal insulation product 1	ECOROCK 120 Thickness ≥ 5 mm	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 311	N/A	A_{3,w} D_{10,w}
Thermal insulation product 1	ECOROCK 120 Thickness ≥ 5 mm	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 400	N/A	A_{10,w}
Thermal insulation product 1	ECOROCK 120 Thickness ≥ 5 mm	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 341	N/A	A_{3,w} D_{10,w}
Thermal insulation product 1	ECOROCK 120 Thickness ≥ 5 mm	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 351	N/A	A_{3,w} D_{10,w}
Thermal insulation product 1	ECOROCK 120 Thickness ≥ 5 mm	2 × Glass fibre mesh 1	ECOROCK 200	ECOROCK 361	N/A	A_{3,w} D_{10,w}
Thermal insulation product 2	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 150	ECOROCK 530	D_{3,w}
Thermal insulation product 2	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 351	N/A	D_{3,w}
Thermal insulation product 2	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 400 Thickness ≥ 1.5 mm	N/A	A_{3,w} D_{10,w}
Thermal insulation product 2	ECOROCK 120	Glass fibre mesh 1	ECOROCK 200	ECOROCK 580	N/A	D_{3,w}

3.2.5 Water vapour permeability of the rendering system (equivalent air thickness)

Table 16

Assessed configuration of the components				S _d [m]
Base coat	Key coat	Finishing layer	Decorative coat	
ECOROCK 120	ECOROCK 200	ECOROCK 150	ECOROCK 560	0.7
ECOROCK 120	ECOROCK 200	ECOROCK 170	ECOROCK 560	0.7
ECOROCK 120	ECOROCK 200	ECOROCK 580	ECOROCK 560	0.7
ECOROCK 120	ECOROCK 200	ECOROCK 341	N/A	0.8
ECOROCK 120	ECOROCK 200	ECOROCK 361	N/A	0.7
ECOROCK 120	ECOROCK 200	ECOROCK 311	N/A	0.4
ECOROCK 120	ECOROCK 200	ECOROCK 351	N/A	0.4
ECOROCK 120	ECOROCK 200	ECOROCK 331	N/A	0.4
ECOROCK 120	ECOROCK 200	ECOROCK 400	N/A	0.5

3.3 Safety and accessibility in use (BWR 4)

Marks to express failure modes:

Marked as: Description:

- A** failure in the substrate
- A/A1** failure in borderline between the substrate and the key coat on the substrate
- A1** failure in the key coat on the substrate
- A1/B** failure in borderline between key coat on the substrate and the adhesive
- A/B** failure in borderline between the substrate and the adhesive
- B** failure in the adhesive
- B/C** failure in borderline between the adhesive and the insulation product
- C** failure in the insulation product
- C/C1** failure in borderline between the insulation product and surface of the insulation product
- C1** failure in the surface of the insulation product
- C/D** failure in borderline between the insulation product and the base coat
- D** failure in the base coat
- D/E** failure in borderline between the base coat and finishing layer
- E** failure in the finishing coat

3.3.1 Bond strength between the base coat and the thermal insulation product

Table 17

Assessed configuration of the components									
Thermal insulation product	Base coat	F _{B-I} , min, dry [kPa]	F _{B-I} , mean, dry [kPa]	F _{B-I} , min, HWC [kPa]	F _{B-I} , mean, HWC [kPa]	F _{B-I} , min, HWCFT [kPa]	F _{B-I} , mean, HWCFT [kPa]	F _{B-I} , min, F-T [kPa]	F _{B-I} , mean, F-T [kPa]
Thermal insulation product 1 TR ≥ 80 kPa	ECOROCK 120	69	73 C	NPA	NPA	NPA	NPA	NPA	NPA
Thermal insulation product 2 TR ≥ 5 kPa	ECOROCK 120	4	5 C	3	4 C	NPA	NPA	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	80	80 C	80	80 C	NPA	NPA	NPA	NPA

3.3.2 Bond strength between the adhesive and the substrate

Table 18

Assessed configuration of the components							
Substrate	Adhesive	F _{A-S} , min, dry [kPa]	F _{A-S} , mean, dry [kPa]	F _{A-S} , min, 2D, 2H [kPa]	F _{A-S} , mean, 2D, 2H [kPa]	F _{A-S} , min, 2D, 7D [kPa]	F _{A-S} , mean, 2D, 7D [kPa]
Concrete	ECOROCK 100	540	630 B	540	610 B	1180	1330 B
Concrete	ECOROCK 120	230	300 B	260	350 B	1200	1280 B

3.3.3 Bond strength between the adhesive and the thermal insulation product

Table 19

Assessed configuration of the components							
Thermal insulation product	Adhesive	F _{A-I} , min, dry [kPa]	F _{A-I} , mean, dry [kPa]	F _{A-I} , min, 2D, 2H [kPa]	F _{A-I} , mean, 2D, 2H [kPa]	F _{A-I} , min, 2D, 7D [kPa]	F _{A-I} , mean, 2D, 7D [kPa]
Thermal insulation product 1 TR ≥ 80 kPa	ECOROCK 100	80	80 C	70	72 C	80	80 C
Thermal insulation product 2 TR ≥ 5 kPa	ECOROCK 100	4	4 C	NPA	NPA	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 100	96	99 C	88	93 C	80	93 C
Thermal insulation product 1 TR ≥ 80 kPa	ECOROCK 120	64	66 C	45	51 C	58	61 C
Thermal insulation product 2 TR ≥ 5 kPa	ECOROCK 120	5	5 C	5	5 C	5	5 C
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	100	100 C	100	100 C	100	100 C

3.3.4 Wind load resistance. Pull-through resistance

Table 20

Assessed configuration of the components			F _{5%} , panel, 5 mm, dry [kN]	F _{5%} , joint, 5 mm, dry [kN]	F _{5%} , panel, 10 mm, dry [kN]	F _{5%} , joint, 10 mm, dry [kN]	F _{5%} , panel, 5 mm, wet [kN]	F _{5%} , joint, 5 mm, wet [kN]	F _{5%} , panel, 10 mm, wet [kN]	F _{5%} , joint, 10 mm, wet [kN]	Graph
Thermal insulation product	Mechanical fixing device	Setting position									
Thermal insulation product 2 (MW panels)	Mechanical fixing device 1	Flush installation or Countersunk installation									See Figure 1 Figure 2 Figure 3 Figure 4
Thickness ≥ 50 mm	Plate diameter ≥ 60 mm	with min. 50 mm of uninterrupted layer of insulation product.	0.180	0.156	0.181	0.108	0.070	0.043	0.048	0.075	
TR ≥ 14 kPa	Plate stiffness ≥ 0.6 kN/mm										
CS ≥ 21 kPa	Load resistance ≥ 1.25 kN										

Table 21

Assessed configuration of the components			F _{5%} , panel, 5 mm, dry [kN]	F _{5%} , joint, 5 mm, dry [kN]	F _{5%} , panel, 10 mm, dry [kN]	F _{5%} , joint, 10 mm, dry [kN]	Graph
Thermal insulation product	Mechanical fixing device	Setting position					
Thermal insulation product 3 (EPS)	Mechanical fixing device 1	Flush installation or Countersunk installation					See Figure 5 Figure 6
Thickness ≥ 50 mm	Plate diameter ≥ 60 mm	with min. 50 mm of uninterrupted layer of insulation product.	0.291	0.157	0.442	0.390	
TR ≥ 115 kPa	Plate stiffness ≥ 0.6 kN/mm						
CS ≥ 95 kPa	Load resistance ≥ 1.25 kN						

3.4 Energy economy and heat retention (BWR 6)

3.4.1 Thermal resistance

Table 22

Thermal resistance and thermal transmittance of ETICS (R_{ETICS})	
Thermal resistance	$[(m^2 \cdot K)/W]$
R_{ETICS}	To be calculated based on data for the specific thickness and thermal conductivity of the thermal insulation product, using this equation: $R_{ETICS} = R_{adhesive} + R_{insulation} + R_{render} [m^2 \cdot K/W]$ Where: $R_{insulation}$ = insulation thickness / thermal conductivity coefficient declared or measured $[m^2 \cdot K/W]$ $R_{render} = 0.02 [m^2 \cdot K/W]$ $R_{adhesive} = 0.02 [m^2 \cdot K/W]$, only applies if adhesive is present in the composition Example of calculation considering the effect of adhesive and rendering with the lowest allowed thickness of 15 mm and highest allowed thermal conductivity of the insulation product $0.065 W/m \cdot K$, with no effect of thermal bridges caused by mechanical fixing devices: $R_{ETICS} = 0.02 + 0.015/0.065 + 0.02 = 0.27 [m^2 \cdot K/W]$
Point thermal transmittance χ	To be determined as follows: 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 at least 15 mm plastic material, or with a minimum 15 mm air gap at the head of the screw/nail. $0.004 [W/K]$ For anchors with a galvanized carbon steel screw/nail with the head covered by at least 15 mm plastic material or a minimum 15 mm air gap at the head of the screw /nail. $0.008 [W/K]$ For all other anchors (the worst case).
Max. number of plastic anchors per m^2	≤ 16

3.5 Aspects of durability

3.5.1 Bond strength after ageing of finishing layers tested on the rig

Table 23

Assessed configuration of the components								
Thermal insulation product	Base coat	Key coat	Finishing layer	Decorative coat	F _{render, min, HWC} [kPa]	F _{render, mean, HWC} [kPa]	F _{render, min, HWCFT} [kPa]	F _{render, mean, HWCFT} [kPa]
Thermal insulation product 2 TR ≥ 5 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 170	In accordance with Table 1	4	4 C	NPA	NPA
Thermal insulation product 2 TR ≥ 5 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 311	In accordance with Table 1	4	4 C	NPA	NPA
Thermal insulation product 2 TR ≥ 5 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 341	In accordance with Table 1	4	5 C	NPA	NPA
Thermal insulation product 2 TR ≥ 5 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 361	In accordance with Table 1	5	5 C	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 170	In accordance with Table 1	100	100 C	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 341	In accordance with Table 1	100	100 C	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 311	In accordance with Table 1	85	94 C	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 331	In accordance with Table 1	100	100 C	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 352	In accordance with Table 1	90	97 C	NPA	NPA

3.5.2 Bond strength after ageing of finishing layers NOT tested on the rig

Table 24

Assessed configuration of the components								
Thermal insulation product	Base coat	Key coat	Finishing layer	Decorative coat	F _{render, min, aged} [kPa]	F _{render, mean, aged} [kPa]	F _{render, min, F-T} [kPa]	F _{render, mean, F-T} [kPa]
Thermal insulation product 2 TR ≥ 5 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 170	In accordance with Table 1	4	4 C	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 170	In accordance with Table 1	100	100 C	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 361	In accordance with Table 1	83	91 C	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 580	In accordance with Table 1	81	92 C	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 400	In accordance with Table 1	75	80 C	NPA	NPA
Thermal insulation product 3 TR ≥ 100 kPa	ECOROCK 120	ECOROCK 200	ECOROCK 160	In accordance with Table 1	99	100 C	NPA	NPA

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

The applicable AVCP system is 2+ for any use except for uses subject to regulations on reaction to fire. For uses subject to regulations on reaction to fire the applicable AVCP systems regarding reaction to fire are 1 or 2+ depending on the conditions defined hereafter.

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 25

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: 040083-01-0404

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 carries out the initial inspection of the manufacturing plant and 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 22/04/2026

by

Ing. Jiří Studnička, Ph.D.

Head of the Technical Assessment Body (TAB)

Annexes:

Annex No. 1	Description of adhesive(s), base coat(s), key coat(s), decorative coat(s)
Annex No. 2	Description of thermal insulation product(s)
Annex No. 3	Description of mechanical fixing device(s)
Annex No. 4	Description of glass fibre mesh(es)
Annex No. 5	Figures: graphs
Annex No. 6	Alternative trade names

Annex No. 1 Description of adhesive(s), base coat(s), key coat(s), decorative coat(s)

Table 26

Component	Chemical nature	Max. grain size (tested) [mm]	Density as delivered (tested) [kg/m ³]	Ash content (tested) [%]	Heat of combustion (tested) [MJ/kg]	Tack free time Cutting time (tested) [s]
ECOROCK 100	Powder to be mixed with water with prevalent binder based on: CEM I	N/A	1378	99.7 (450 °C)	N/A	N/A
ECOROCK 120	Powder to be mixed with water with prevalent binder based on: CEM I	N/A	1481	98 (450 °C)	N/A	N/A
ECOROCK 200	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	N/A	1651	90.3 (450 °C)	N/A	N/A
ECOROCK 510	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	N/A	1505	83.7 (450 °C)	N/A	N/A
ECOROCK 150 1.5	Powder to be mixed with water with prevalent binder based on: CEM I	1.5	N/A	98.2 (450 °C)	N/A	N/A
ECOROCK 150 2.0	Powder to be mixed with water with prevalent binder based on: CEM I	2.0	1603	98.5 (450 °C)	N/A	N/A
ECOROCK 150 2.5	Powder to be mixed with water with prevalent binder based on: CEM I	2.5	1616	98.8 (450 °C)	N/A	N/A
ECOROCK 150 3.0	Powder to be mixed with water with prevalent binder based on: CEM I	3.0	1577	98.8 (450 °C)	N/A	N/A
ECOROCK 160 2.0	Powder to be mixed with water with prevalent binder based on: CEM I	3.0	1649	99.1 (450 °C)	N/A	N/A

Component	Chemical nature	Max. grain size (tested) [mm]	Density as delivered (tested) [kg/m ³]	Ash content (tested) [%]	Heat of combustion (tested) [MJ/kg]	Tack free time Cutting time (tested) [s]
ECOROCK 170	Powder to be mixed with water with prevalent binder based on: CEM I	N/A	N/A	N/A	N/A	N/A
ECOROCK 341 1.0	Ready to use paste with prevalent binder based on: Silicate	1.0	1902	92.4 (450 °C)	N/A	N/A
ECOROCK 341 1.5	Ready to use paste with prevalent binder based on: Silicate	1.5	1920	92.6 (450 °C)	N/A	N/A
ECOROCK 341 2.0	Ready to use paste with prevalent binder based on: Silicate	2.0	1904	92.7 (450 °C)	N/A	N/A
ECOROCK 341 3.0	Ready to use paste with prevalent binder based on: Silicate	3.0	N/A	N/A	N/A	N/A
ECOROCK 342 2.0	Ready to use paste with prevalent binder based on: Silicate	2.0	1892	93.7 (450 °C)	N/A	N/A
ECOROCK 342 3.0	Ready to use paste with prevalent binder based on: Silicate	3.0	1821	N/A	N/A	N/A
ECOROCK 371 1.0	Ready to use paste with prevalent binder based on: Silicate	1.0	1902	92.4 (450 °C)	N/A	N/A
ECOROCK 371 1.5	Ready to use paste with prevalent binder based on: Silicate	1.5	1920	92.6 (450 °C)	N/A	N/A
ECOROCK 371 2.0	Ready to use paste with prevalent binder based on: Silicate	2.0	1892	93.7 (450 °C)	N/A	N/A

Component	Chemical nature	Max. grain size (tested) [mm]	Density as delivered (tested) [kg/m ³]	Ash content (tested) [%]	Heat of combustion (tested) [MJ/kg]	Tack free time Cutting time (tested) [s]
ECOROCK 371 3.0	Ready to use paste with prevalent binder based on: Silicate	3.0	1821	N/A	N/A	N/A
ECOROCK 372 2.0	Ready to use paste with prevalent binder based on: Silicate	2.0	1892	93.7 (450 °C)	N/A	N/A
ECOROCK 372 3.0	Ready to use paste with prevalent binder based on: Silicate	3.0	1821	N/A	N/A	N/A
ECOROCK 311 1.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	1.0	N/A	N/A	N/A	N/A
ECOROCK 311 1.5	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	1.5	N/A	N/A	N/A	N/A
ECOROCK 311 2.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	2.0	N/A	N/A	N/A	N/A
ECOROCK 311 3.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	3.0	N/A	N/A	N/A	N/A
ECOROCK 312 2.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	2.0	N/A	N/A	N/A	N/A
ECOROCK 312 3.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	3.0	N/A	N/A	N/A	N/A
ECOROCK 321 1.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	1.0	N/A	N/A	N/A	N/A

Component	Chemical nature	Max. grain size (tested) [mm]	Density as delivered (tested) [kg/m ³]	Ash content (tested) [%]	Heat of combustion (tested) [MJ/kg]	Tack free time Cutting time (tested) [s]
ECOROCK 321 1.5	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	1.5	N/A	N/A	N/A	N/A
ECOROCK 321 2.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	2.0	N/A	N/A	N/A	N/A
ECOROCK 321 3.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	3.0	N/A	N/A	N/A	N/A
ECOROCK 400	Ready to use paste with prevalent binder based on: Acrylate polymers	< 1.0	N/A	N/A	N/A	N/A
ECOROCK 331 1.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	1.0	1880	88.1 (450 °C)	N/A	N/A
ECOROCK 331 1.5	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	1.5	1878	91.8 (450 °C)	N/A	N/A
ECOROCK 331 2.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	2.0	1905	92.1 (450 °C)	N/A	N/A
ECOROCK 331 3.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	3.0	N/A	N/A	N/A	N/A
ECOROCK 332 2.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	2.0	N/A	N/A	N/A	N/A
ECOROCK 332 3.0	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	3.0	1816	93.5 (450 °C)	N/A	N/A

Component	Chemical nature	Max. grain size (tested) [mm]	Density as delivered (tested) [kg/m ³]	Ash content (tested) [%]	Heat of combustion (tested) [MJ/kg]	Tack free time Cutting time (tested) [s]
ECOROCK 351 1.0	Ready to use paste with prevalent binder based on: Silicone	1.0	1842	91.2 (450 °C)	N/A	N/A
ECOROCK 351 1.5	Ready to use paste with prevalent binder based on: Silicone	1.5	1863	91.9 (450 °C)	N/A	N/A
ECOROCK 351 2.0	Ready to use paste with prevalent binder based on: Silicone	2.0	N/A	N/A	N/A	N/A
ECOROCK 351 3.0	Ready to use paste with prevalent binder based on: Silicone	3.0	N/A	N/A	N/A	N/A
ECOROCK 352 2.0	Ready to use paste with prevalent binder based on: Silicone	2.0	1764	93.5 (450 °C)	N/A	N/A
ECOROCK 352 3.0	Ready to use paste with prevalent binder based on: Silicone	3.0	1838	93.5 (450 °C)	N/A	N/A
ECOROCK 361 1.0	Ready to use paste with prevalent binder based on: Silicone	1.0	N/A	N/A	N/A	N/A
ECOROCK 361 1.5	Ready to use paste with prevalent binder based on: Silicone	1.5	N/A	N/A	N/A	N/A
ECOROCK 361 2.0	Ready to use paste with prevalent binder based on: Silicone	2.0	N/A	N/A	N/A	N/A
ECOROCK 361 3.0	Ready to use paste with prevalent binder based on: Silicone	3.0	N/A	N/A	N/A	N/A

Component	Chemical nature	Max. grain size (tested) [mm]	Density as delivered (tested) [kg/m ³]	Ash content (tested) [%]	Heat of combustion (tested) [MJ/kg]	Tack free time Cutting time (tested) [s]
ECOROCK 362 2.0	Ready to use paste with prevalent binder based on: Silicone	2.0	N/A	N/A	N/A	N/A
ECOROCK 362 3.0	Ready to use paste with prevalent binder based on: Silicone	3.0	N/A	N/A	N/A	N/A
ECOROCK 580	Ready to use paste with prevalent binder based on: Styrene-acrylate copolymers	< 1.0	1705	89.0 (450 °C)	N/A	N/A
ECOROCK 540	Liquid with prevalent binder based on: Silicate	N/A	1546	85.0 (450 °C)	N/A	N/A
ECOROCK 550	Liquid with prevalent binder based on: Silicone	N/A	1546	86.2 (450 °C)	N/A	N/A
ECOROCK 560	Liquid with prevalent binder based on: Silicone	N/A	1460	N/A	N/A	N/A
ECOROCK 530	Liquid with prevalent binder based on: Styrene-acrylate copolymers	N/A	1520	82.4 (450 °C)	N/A	N/A
ECOROCK 510	Liquid with prevalent binder based on: Styrene-acrylate copolymers	N/A	1505	83.7 (450 °C)	N/A	N/A

Annex No. 2 Description of thermal insulation product(s)

Table 27

Component	Thermal insulation type	Minimal requirements on dimensional tolerances	Maximum water absorption after 24 hours of partial immersion [kg/m ²]	Minimal shear strength [kPa]	Minimal shear modulus [kPa]	Minimal compressive strength	Minimal tensile strength perpendicular to the faces [kPa]	Reaction to fire	Dimensional stability	Maximal thermal conductivity coefficient λ_D [W/m·K]
Thermal insulation product 1	Mineral wool lamella (MW) by EN 13162	Length and width tolerances unspecified	1	20 (only for use in bonded ETICS with or without mechanical fixings)	1000 (only for use in bonded ETICS with or without mechanical fixings)	CS(10\20)	80	A1 (PCS ≤ 2.0 MJ/kg)	DS(70,90) or better	0.065
	Homogenous structure	Thickness tolerances unspecified								
	Prevalent fibre orientation perpendicular to the faces of the insulation panels	Squareness tolerances unspecified								
	Cut surface of faces	Flatness tolerances unspecified								
Thermal insulation product 2	Mineral wool board (MW) by EN 13162	Length and width tolerances unspecified	1	N/A	N/A	CS(10\20)	5	A1 (PCS ≤ 2.0 MJ/kg)	DS(70,90) or better	0.065
	Homogenous structure	Thickness tolerances unspecified								
	Prevalent fibre orientation parallel to the faces of the insulation panels	Squareness tolerances unspecified								
	Cut surface of faces	Flatness tolerances unspecified								

Component	Thermal insulation type	Minimal requirements on dimensional tolerances	Maximum water absorption after 24 hours of partial immersion [kg/m²]	Minimal shear strength [kPa]	Minimal shear modulus [kPa]	Minimal compressive strength	Minimal tensile strength perpendicular to the faces [kPa]	Reaction to fire	Dimensional stability	Maximal thermal conductivity coefficient λ_D [W/m·K]
Thermal insulation product 3	Expanded polystyrene (EPS) by EN 13163	L(3)	1	20 (only for use in mechanically fixed ETICS)	1000 (only for use in mechanically fixed ETICS)	CS(10)70	100	E or better	DS(70,-)2 or better	0.065
	Homogenous structure	W(3)								
	Cellular, gas-filled, structure with panels cut from big blocks	T(2)								
	Cut surface of faces	S(5) P(10)								

Annex No. 3 Description of mechanical fixing device(s)

Table 28

Component	Type and specification	Form(s) of installation	Material	Geometry	Mechanical properties of the plate
Mechanical fixing device 1	Plastic anchors made of virgin or non –virgin material for fixing of external thermal insulation composite systems with rendering in accordance with EAD 330196-01-0604 or superseding version	Flush installation Countersunk installation Countersunk installation of spiral anchors Setting position defined by the Manufacturer's Product Installation Instructions	Plastic Combination of plastic and metal	Shape, dimensions, use of slip-on washers (flush or countersunk into thermal insulation product) and pull-out from substrate is specified by the relevant ETA of the mechanical fixing device.	Stiffness and load resistance of the anchor plate as defined by the relevant ETA of the mechanical fixing device.

Annex No. 4 Description of glass fibre mesh(es)

Table 29

Component	Type and specification	Mesh opening	Mesh size	Mass per unit area [g/m ²]	Tensile strength after alkali conditioning [N/mm]	Retained tensile strength after alkali conditioning [%]	Ash content (tested) [%]	Heat of combustion (tested) [MJ/kg]
Glass fibre mesh 1	Rectangular mesh EAD 040016- 00(01)-0404 or superseding document	No requirement	Weft: 4.0 ± 0.5 mm Warp: 4.0 ± 0.5 mm	145 – 160	≥ 20	≥ 50	N/A	1.49

Annex No. 5 Figures: graphs

Figure 1: Pull-through test graph of MW, dry, panel

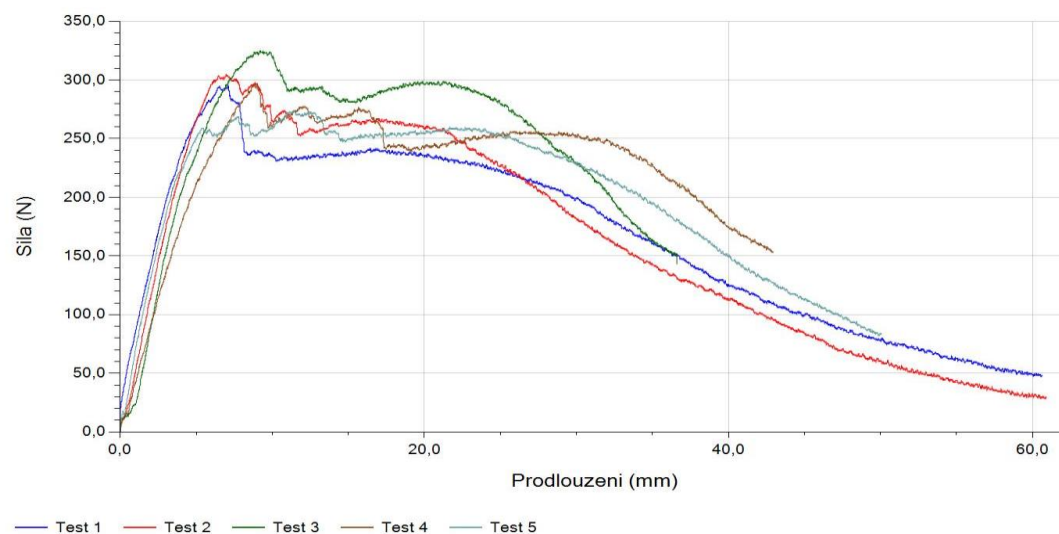


Figure 2: Pull-through test graph of MW, dry, joint

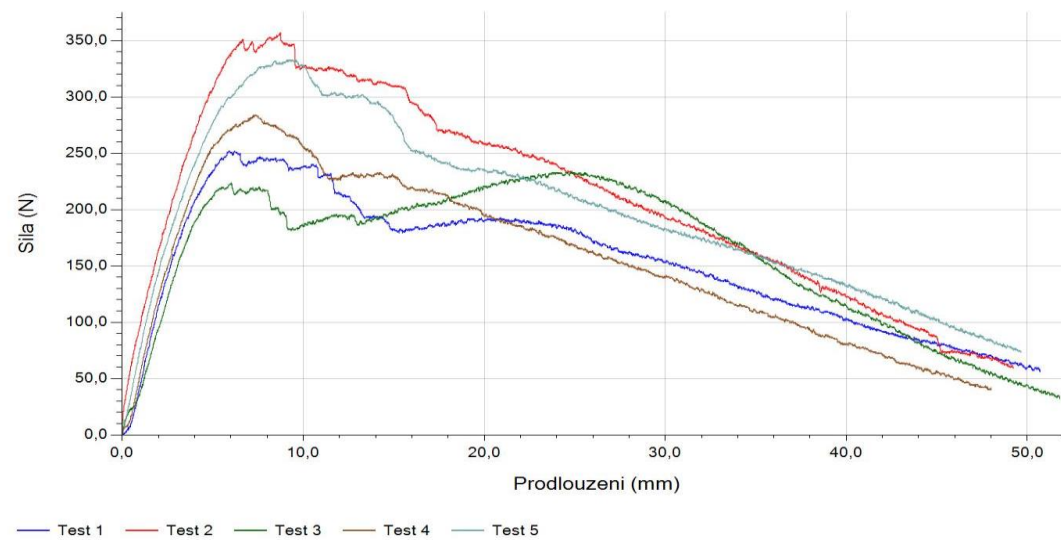


Figure 3: Pull-through test graph of MW, wet, panel

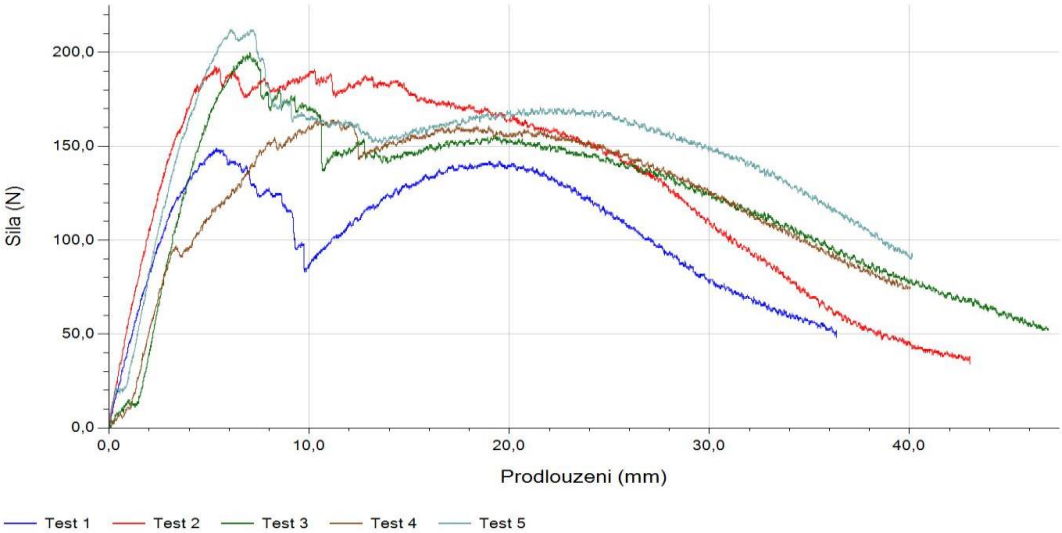


Figure 4: Pull-through test graph of MW, wet, joint

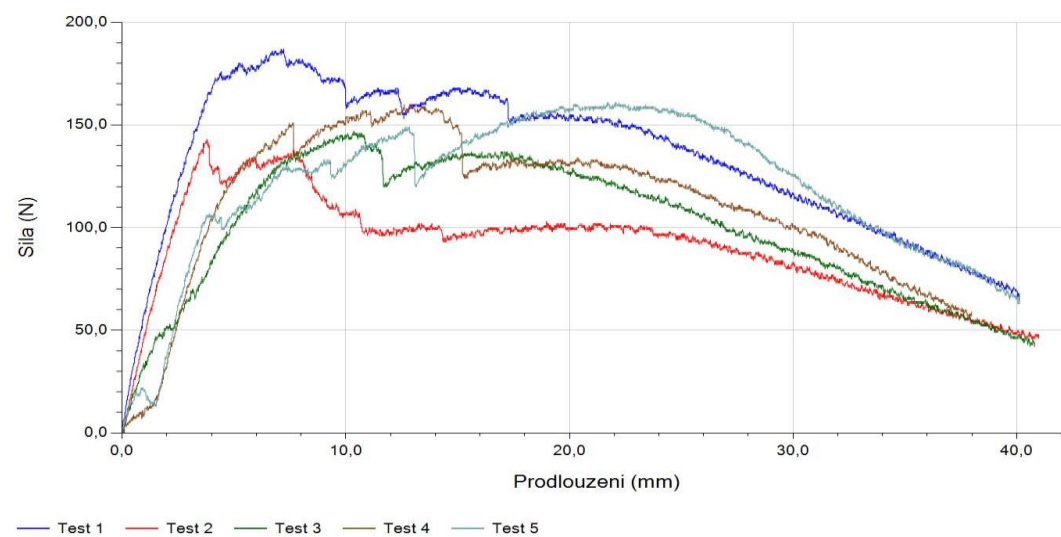


Figure 5: Pull-through test graph of EPS, dry, panel

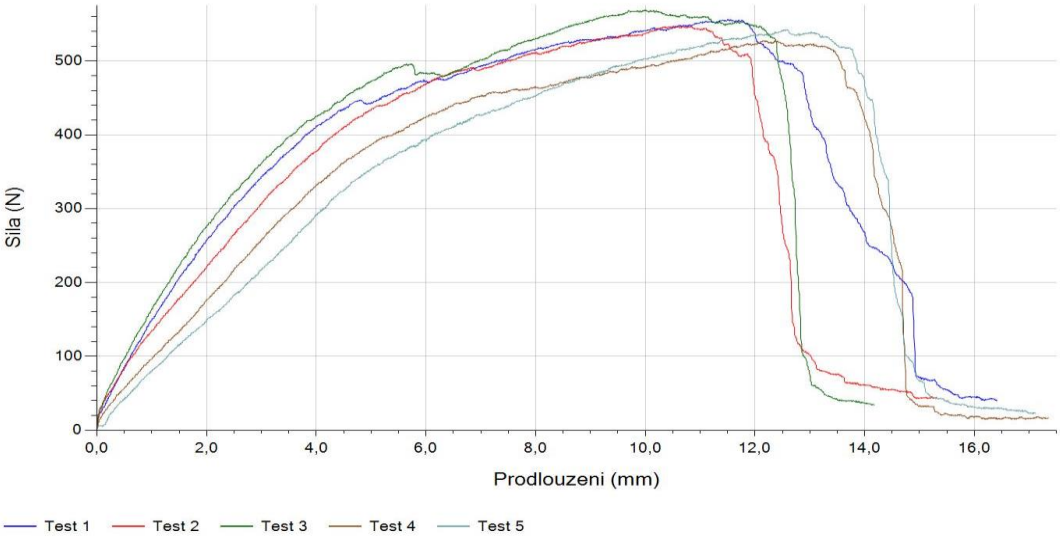
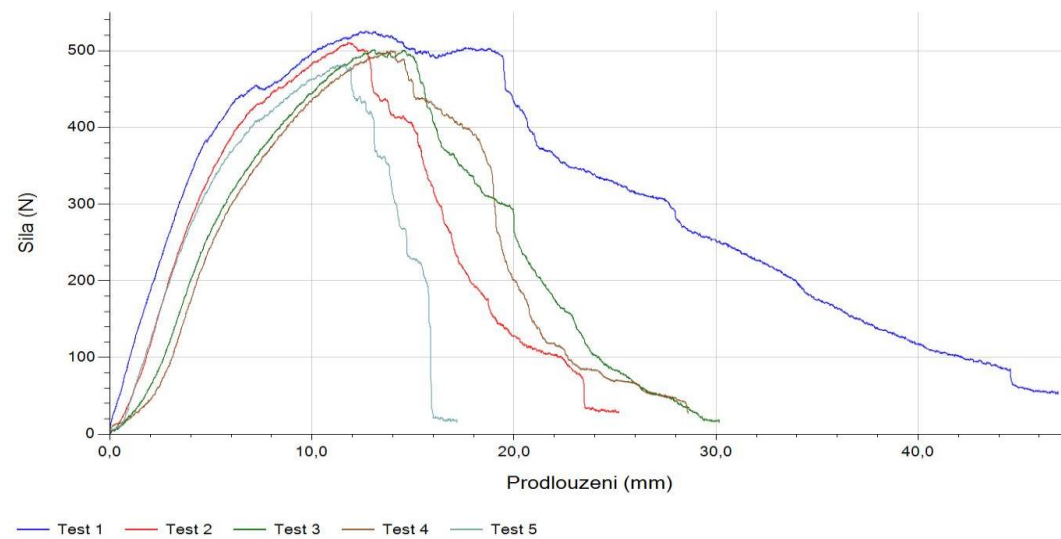


Figure 6: Pull-through test graph of EPS, dry, joint



Annex No. 6 Alternative trade names

Trade name by Table 1	Alternative trade name
ECOROCK 200	FAST GRUNT M
ECOROCK 150	FAST BARANEK
ECOROCK 170	FAST MS
ECOROCK 400	FAST GRANIT
ECOROCK 331	FAST BARANEK SI
ECOROCK 351	FAST BARANEK SIL
ECOROCK 361	FAST SIL+
ECOROCK 341	FAST BARANEK S
ECOROCK 342	FAST KORNIK S
ECOROCK 530	FAST SI-SI
ECOROCK 540	FAST F-S
ECOROCK 550	FAST SILIKON
ECOROCK 560	FAST LOTOS