Designated according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022)

UK Technical Assessment	UKTA-0836-25/7483 of 10/11/2025
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	EWI Pro EPS External Insulation System to Mixed Masonry
Product family to which the construction product belongs:	External Wall Insulation Systems (EWIS) with renderings
Manufacturer:	EWI Pro Insulation Systems Ltd Unit 1&2 King Georges Trading Estate Davis Road, Chessington KT9 1TT
Manufacturing plant(s):	EWI Pro Insulation Systems Ltd Unit 1&2 King Georges Trading Estate Davis Road, Chessington KT9 1TT
This UK Technical Assessment contains:	31 pages including 4 Annexes which form an integral part of this assessment.
This UK Technical Assessment is issued in accordance with The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) on the basis of:	UKAD 040083-00-0404 “ETICS with renderings”

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1. Technical description of the product

1.1 Composition of the product (kit)

Table 1

Use and variant	Component	Coverage [kg.m^{-2}]	Thickness [mm]
Adhesive 1	**EWI-220 EPS Basecoat** Powder requiring addition of water 0.22 – 0.24 l/kg	3 − 5 (dry powder)	2 – 40
Thermal insulation product 1	**EPS BOARD (TR110)** Factory made expanded polystyrene (EPS) in accordance with EN 13163 See Annex No. 2	N/A	30 – 300
Anchors	Plastic anchors See Annex No. 3	N/A	N/A
Base coat 1	**EWI-225 Premium Basecoat** Powder requiring addition of water 0.24 – 0.26 l/kg	6 − 8 (dry powder)	4 – 6 For 1 layer of mesh 6 – 10 For 2 layers of mesh
Reinforcement 1	**EWI Pro Fibreglass Mesh FGM – 165** Standard glass fibre mesh, one or two layers Embedded in base coat See Annex No. 4	0.16 – 0.18 (per layer)	< 1.0 (per layer)
Reinforcement 2	**MASTERNET CLASSIC 145** Standard glass fibre mesh, one or two layers Embedded in base coat See Annex No. 4	0.14 – 0.16 (per layer)	< 1.0 (per layer)
Reinforcement 3	**MASTERNET CLASSIC 160** Standard glass fibre mesh, one or two layers Embedded in base coat See Annex No. 4	0.16 – 0.18 (per layer)	< 1.0 (per layer)
Reinforcement 4	**EWI Pro Fibreglass Mesh – (165g) Masternet Pro (965)** Standard glass fibre mesh, one or two layers Embedded in base coat See Annex No. 4	0.16 – 0.17 (per layer)	< 1.0 (per layer)
Key coat 1	**EWI-333 Topcoat Primer** Use mandatorily with finishing coat 3 – 6	0.2 – 0.3 (liquid)	< 0.2
Key coat 2	**EWI-334 Brick Effect Stencil Primer** Use mandatorily with finishing coats 11 –14	0.2 – 0.3 (liquid)	< 0.2
Finishing coat 1	**EWI Pro Dash Receiver** Powder requiring addition of water 0.19 – 0.20 l/kg Trowelled on and sprinkled with **decorative pebble dash aggregate** Sizing of aggregate: 3 – 8 mm	Approximately 1.6 kg per mm / per m^2 (dry powder)	~ 8.0
Finishing coat 2	**Elastolith Adhesive** Ready-to-use adhesive and grout for	2.5 – 3.5 kg.m^{-2} (paste)	~ 2.0

Use and variant	Component	Coverage [kg.m^{-2}]	Thickness [mm]
	Elastolith Brick slips		
	Elastolith Brick slips Binding agent: water-based polymer dispersion Pigments: liquid UV-resistant pigments based on natural materials Filler: various types of quartz sand Thickness: 5-6 mm (including the adhesive layer) Weight: 6-7 kg/m² (including the adhesive layer) Density: ±1.5 g/cm³ Joint width: 10 – 12 mm	60 pcs.m^{-2}	3 – 4
Finishing coat 3	**EWI-077-1.0 Nano Drex Silicone Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Maximum particle size 1.0 mm	1.9 – 2.1 (paste)	~ 1.0
Finishing coat 4	**EWI-077-1.5 Nano Drex Silicone Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Max imum particle size 1.5 mm	2.4 – 3.1 (paste)	~ 1.5
Finishing coat 5	**EWI-077-2.0 Nano Drex Silicone Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Maximum particle size 2.0 mm	3.1 – 3.6 (paste)	~ 2.0
Finishing coat 6	**EWI-077-3.0 Nano Drex Silicone Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Maximum particle size 3.0 mm	4.0 – 4.5 (paste)	~ 3.0
Finishing coat 7	**EWI-075-1.0 Silicone Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Maximum particle size 1.0 mm	1.9 – 2.1 (paste)	~ 1.0
Finishing coat 8	**EWI-075-1.5 Silicone Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Maximum particle size 1.5 mm	2.4 – 3.1 (paste)	~ 1.5
Finishing coat 9	**EWI-075-2.0 Silicone Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Maximum particle size 2.0 mm	3.1 – 3.6 (paste)	~ 2.0
Finishing coat 10	**EWI-075-3.0 Silicone Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Maximum particle size 3.0 mm	4.0 – 4.5 (paste)	~ 3.0
Finishing coat 11	**EWI-078-1.0 Brick Effect Stencil Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Brick effect finish made with self-adhesive stencil (removed after the finishing coat is	1.9 – 2.1 (paste)	~ 1.0

Use and variant	Component	Coverage [kg.m^{-2}]	Thickness [mm]
	applied) Maximum particle size 1.0 mm		
Finishing coat 12	**EWI-078-1.5 Brick Effect Stencil Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Brick effect finish made with self-adhesive stencil (removed after the finishing coat is applied) Maximum particle size 1.5 mm	2.4 – 3.1 (paste)	~ 1.5
Finishing coat 13	**EWI-078-2.0 Brick Effect Stencil Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Brick effect finish made with self-adhesive stencil (removed after the finishing coat is applied) Maximum particle size 2.0 mm	3.1 – 3.6 (paste)	~ 2.0
Finishing coat 14	**EWI-078-3.0 Brick Effect Stencil Render** Silicone based finishing coat Trowelled on and plastic floated for a textured finish Brick effect finish made with self-adhesive stencil (removed after the finishing coat is applied) Maximum particle size 3.0 mm	4.0 – 4.5 (paste)	~ 3.0
Finishing coat 15	**EWI-070 Wood Effect Render (Moulding)** Mineral decorative finishing coat Trowelled on and then stencilled for the wood effect finish Maximum particle size 0.5 mm	Approximately 1.5 kg.mm^{-1}.m^{-2} (dry powder)	~ 1.0
Finishing coat 16	**EWI Pro Lightweight Adhesive (Elastic)** Ready-to-use adhesive and grout for EWI Pro Lightweight Brick Slips (Elastic)	Approximately 1.7 kg.mm^{-1}.m^{-2} (paste)	~ 2.0
	EWI Pro Lightweight Brick Slips (Elastic) Binding agent: water-based polymer dispersion Pigments: liquid UV-resistant pigments based on natural materials Filler: various types of quartz sand Thickness: 6-7 mm (including the adhesive layer) Weight: 6-7 kg/m² (including the adhesive layer) Density: ±1.5 g/cm³ Joint width: 10 – 12 mm	Approximately 60 pcs.m^{-2}	~ 5.0
Decorative coat 1	**EWI Glazure Paint** Ready-to-use decorative paint To be used with finishing coat 15	0.2 – 0.3 (liquid)	< 0.2
Decorative coat 2	**EWI-007 Nano Drex Silicone Paint** Ready-to-use hydrophobic silicone-based paint To be used with finishing coat 15	0.2 – 0.3 (liquid)	< 0.2
Ancillary materials	Remain under the manufacturer's responsibility		

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

Table 2

Component	Type of ETICS		
	Purely bonded ETICS	**Bonded ETICS with supplementary anchors**	**Mechanically fixed ETICS with anchors with supplementary adhesive**
Adhesive	**EWI-220 EPS Basecoat** Minimum 60% area covered by adhesive	**EWI-220 EPS Basecoat** Minimum 30% area covered by adhesive	**EWI-220 EPS Basecoat** Minimum 30% area covered by adhesive
Thermal insulation product	Thermal insulation product 1	Thermal insulation product 1	Thermal insulation product 1
Anchors	Not to be used	See Annex No. 4	See Annex No. 4

2. Specification of the intended use(s) in accordance with the applicable UK Assessment Document (hereinafter UKAD)

This product is an External Wall Insulation System (EWIS) with renderings for the use on timber framed buildings. The surface for the application of EWIS is a board substrate (seeTable 1). The product is a kit, comprising from number of components.

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

The EWIS is installed in accordance with the manufacturer´s installation instructions.

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

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

The EWIS is not intended to ensure the airtightness of the building structure. The timber framed building wall has to be sufficiently airtight to reduce the thermal transmittance of the wall and to avoid interstitial condensation due to convection.

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

The provisions made in this UKTA are based on an assumed intended working life of at least 25 years, provided that the EWIS is 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 advise clients on the transport, storage, maintenance, replacement and repair of the product as considered necessary.

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

Table 3

Essential characteristic	Assessment method (UKAD clause)	Performance
EWIS: Reaction to fire of EWIS	Cl. 2.2.1.1	See Cl. 3.2.1
Reaction to fire of thermal insulation material	Cl. 2.2.1.2	No performance assessed (See Annex No. 2 for component characteristic)
Façade fire performance	Cl. 2.2.2	No performance assessed
Content, emission and/or release of dangerous substances – leachable 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. 3.3.1
Water absorption of the insulation product	Cl. 2.2.5.2	No performance assessed (See Annex No. 2 for component characteristic)
Water-tightness of the ETICS: hygrothermal behaviour	Cl. 2.2.6	See Cl. 3.3.2
Water-tightness: freeze thaw performance	Cl. 2.2.7	See Cl. 3.3.3
Impact resistance	Cl. 2.2.8	See Cl. 3.3.4
Water vapour permeability of the rendering system (equivalent air thickness s_d)	Cl. 2.2.9.1	See Cl. 3.3.5
Water vapour permeability of 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 (mortar or paste)	Cl. 2.2.11.1	See Cl. 3.4.1
Bond strength between the adhesive and the substrate	Cl. 2.2.11.2	See Cl. 3.4.2
Bond strength between the adhesive and the thermal insulation product	Cl. 2.2.11.3	See Cl. 3.4.3
- **Fixing strength (transverse displacement)**	Cl. 2.2.12	No performance assessed
- **Wind load resistance of ETICS – pull-through tests of fixings**	Cl. 2.2.13.1	See Cl. 3.4.4

Essential characteristic	Assessment method (UKAD clause)	Performance
- **Wind load resistance of ETICS – static foam block test**	Cl. 2.2.13.2	No performance assessed
- **Wind load resistance of ETICS – dynamic wind uplift test**	Cl. 2.2.13.3	No performance assessed
Tensile test perpendicular to the faces of the thermal insulation product – in dry conditions	Cl. 2.2.14.1	No performance assessed (See Annex No. 2 for component characteristic)
Tensile test perpendicular to the faces of the thermal insulation product – in wet conditions	Cl. 2.2.14.2	No performance assessed
Shear strength and shear modulus of elasticity test of ETICS	Cl. 2.2.15	No performance assessed (See Annex No. 2 for component characteristic)
Render strip tensile test	Cl. 2.2.17	See Cl. 3.4.5
Bond strength after ageing of finishing coat tested in the rig	Cl. 2.2.20.1	See Cl. 3.4.6
Bond strength after ageing of finishing coat not tested in the rig	Cl. 2.2.20.2	See Cl. 3.4.7
Tensile strength of the glass fibre mesh	Cl. 2.2.21.1 Cl. 2.2.21.2	No performance assessed (See Annex No. 2 for component characteristic)
Airborne sound insulation of ETICS	Cl. 2.2.22.1	No performance assessed
Dynamic stiffness of the thermal insulation product	Cl. 2.2.22.2	No performance assessed
Air flow resistance of the thermal insulation product	Cl. 2.2.22.3	No performance assessed
Thermal resistance and thermal transmittance of EWIS	Cl. 2.2.23	See Cl. 3.4.8
Thermal resistance of the thermal insulation product	Cl. 2.2.23.1	No performance assessed (See Annex No. 2 for component characteristic)

Tables 4 to 24 lay down assessments of essential characteristics of specific combinations of EWIS components.

Any combination of components not meeting the criteria of Tables 4 to 37 are assessed as “No performance assessed” with regards to the relevant essential characteristic.

3.1. Mechanical resistance and stability (BWR 1)

Not applicable.

3.2. Safety in case of fire (BWR 2)

3.2.1 Reaction to fire of EWIS

Table 4

Reaction to fire of EWIS:	**B – s2, d0**
Component	**EWIS configuration**
Adhesive	In accordance with Table 1
Thermal insulation product	Thermal insulation product 1 Maximum apparent density (EN 1602): **15** kg.m^{-3} Thickness: **≥ 40 mm** Reaction to fire class: **E or better**
Anchors	In accordance with Table 1
Base coat	In accordance with Table 1 for thickness ≥ 5mm
Reinforcement	In accordance with Table 1 in maximum two layers **Provided reinforcement has maximum heat of combustion 1.19 MJ.m^{-2}**
Key coat	In accordance with Table 1
Finishing coat	In accordance with Table 1
Decorative coat	In accordance with Table 1

Table 5

Reaction to fire of EWIS:	**B – s1, d0**
Component	**EWIS configuration**
Adhesive	In accordance with Table 1
Thermal insulation product	Thermal insulation product 1 Maximum apparent density (EN 1602): **15.65** kg.m^{-3} Thickness: **≥ 170 mm** Reaction to fire class: **E or better**
Anchors	In accordance with Table 1
Base coat	In accordance with Table 1 for thickness ≥ 4mm
Reinforcement	In accordance with Table 1 in maximum two layers **Provided reinforcement has maximum heat of combustion 1.19 MJ.m^{-2}**
Key coat	In accordance with Table 1
Finishing coat	EWI Pro Lightweight Adhesive (Elastic) **in thickness of 5.0 mm** with EWI Pro Lightweight Brick Slips (Elastic) **in thickness of 2.0 mm**, EWI Pro Dash Receiver with decorative pebble dash aggregate
Decorative coat	In accordance with Table 1

Table 6

Reaction to fire of EWIS:	**B – s1, d0**
Component	**EWIS configuration**
Adhesive	In accordance with Table 1
Thermal insulation product	Thermal insulation product 1 Maximum apparent density (EN 1602): **18.5** kg.m^{-3} Thickness: **≥ 160 mm** Reaction to fire class: **E or better**
Anchors	In accordance with Table 1
Base coat	In accordance with Table 1 for thickness ≥ 5mm
Reinforcement	Reinforcement 1 in one layer, or Reinforcement 2 in one layer, or Reinforcement 3 in one layer **Provided reinforcement has maximum heat of combustion 1.16 MJ.m^{-2}**
Key coat	In accordance with Table 1
Finishing coat	EWI-075-1.0 Silicone Render **in thickness of 1.0 mm**, EWI-077-1.0 Nano Drex Silicone Render **in thickness of 1.0 mm**, EWI-078-1.0 Brick Effect Stencil Render **in thickness of 1.0 mm**, EWI Pro Dash Receiver with decorative pebble dash aggregate
Decorative coat	None

Table 7

Reaction to fire of EWIS:	**B – s1, d0**
Component	**EWIS configuration**
Adhesive	In accordance with Table 1
Thermal insulation product	Thermal insulation product 1 Maximum apparent density (EN 1602): **25** kg.m^{-3} Thickness: **≥ 160 mm** Reaction to fire class: **E or better**
Anchors	In accordance Table 1
Base coat	In accordance with Table 1 for thickness ≥ 6mm
Reinforcement	Reinforcement 1 in one layer, or Reinforcement 2 in one layer, or Reinforcement 3 in one layer **Provided reinforcement has maximum heat of combustion 1.16 MJ.m^{-2}**
Key coat	In accordance with Table 1
Finishing coat	Elastolith Brick slips **in thickness of 4.0 mm,** with Elastolith Adhesive **in thickness of 2.0 mm**, EWI Pro Dash Receiver with decorative pebble dash aggregate
Decorative coat	None

3.3. Health, hygiene and the environment (BWR 3)

3.3.1 Water absorption

Table 8

Water absorption of the reinforced base coat		
EWIS configuration requirements:	**After 1 h [kg.m^{-2}]**	**After 24 h [kg.m^{-2}]**
EWI-225 Premium Basecoat	**0.02**	**0.20**

Table 9

Water absorption of the complete rendering				
EWIS configuration requirements:			**After 1 h [kg.m^{-2}]**	**After 24 h [kg.m^{-2}]**
Base coat	**Finishing coat**	**Key coat**		
EWI-225 Premium Basecoat	EWI Pro Dash Receiver with pebble dash aggregate	In accordance with Table 1	**0.78**	**1.07**
	Elastolith Adhesive with Elastolith Brick slips (joint width: 10 mm)		**0.01**	**0.10**
	Elastolith Adhesive with Elastolith Brick slips (joint width: 12 mm)		**0.01**	**0.13**
	EWI-077 Nano Drex Silicone Render (all grain sizes)		**0.04**	**0.37**
	EWI-075 Silicone Render (all grain sizes)		**0.28**	**0.48**
	EWI-078 Brick Effect Stencil Render (all grain sizes)		**0.02**	**0.31**
	EWI-070 Wood Effect Render (Moulding)		**0.05**	**0.24**
	EWI Pro Lightweight Adhesive (Elastic) with EWI Pro Lightweight Brick Slips (Elastic) (joint width: 10 mm)		**0.10**	**0.68**
	EWI Pro Lightweight Adhesive (Elastic) with EWI Pro Lightweight Brick Slips (Elastic) (joint width: 12 mm)		**0.10**	**0.55**

3.3.2 Water tightness: Hygrothermal behaviour

Table 10

Water tightness: Hygrothermal behaviour
Hygrothermal cycles have been performed on products tested in the hygrothermal rig. The EWIS passed the test and is assessed as **resistant to hygrothermal cycles**.

3.3.3 Water tightness: Freeze thaw behaviour

Table 11

Water tightness: Freeze thaw behaviour
Applies to finishing coats 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and 15 The EWIS is **freeze-thaw resistant**, because the water absorption of both, reinforced base coat and the rendering system, are less than 0.5 kg/m^2 after 24 hours. Applies to finishing coats 1 and 16: The EWIS is **freeze-thaw resistant**, because none of the following defects occurred during the testing on the rendering system: - Blistering or peeling of the finishing coat - Failure or cracking associated with joints between thermal insulation product boards or profiles fitted with the ETICS, - Detachment of the finishing coat - Width of cracks bigger than 0.2 mm allowing water penetration to the thermal insulating layer.

3.3.4 Impact resistance

Table 12

Impact resistance (products tested after hygrothermal cycles on the rig)					
ETICS configuration requirements:			**Cracks**	**Maximum impact diameter [mm]**	**Impact resistance category**
Base coat	**Finishing coat**	**Reinforcement + key coat + decorative coat**			
EWI-225 Premium Basecoat (4 mm)	EWI Pro Dash Receiver with pebble dash aggregate	Reinforcement: all of Table 1 in one layer Key coat and decorative coat in accordance with Table 1	No – 3 J No – 10 J	None – 3 J None – 10 J	**I**
	Elastolith Adhesive with Elastolith Brick slips (joint width up to 12 mm)		No – 3 J Yes – 10 J	None – 3 J 30 – 10 J	**II**
	EWI-077 Nano Drex Silicone Render (all grain sizes)		Yes – 3 J Yes – 10 J	34 – 3 J 59 – 10 J	**III**
	EWI-075 Silicone Render (all grain sizes)		Yes – 3 J Yes – 10 J	34 – 3 J 74 – 10 J	**III**
	EWI-078 Brick Effect Stencil Render (all grain sizes)		Yes – 3 J Yes – 10 J	26 – 3 J 77 – 10 J	**III**
	EWI-070 Wood Effect Render (Moulding)		Yes – 3 J Yes – 10 J	32 – 3 J 66 – 10 J	**III**
	EWI Pro Lightweight Adhesive (Elastic) with EWI Pro Lightweight Brick Slips (Elastic) (joint width up to 12 mm)		No – 3 J Yes – 10 J	None – 3 J 70 – 10 J	**II**

Table 13

Impact resistance (products tested after immersion in water)					
ETICS configuration requirements:			**Cracks**	**Maximum impact diameter [mm]**	**Impact resistance category**
Base coat	**Finishing coat**	**Reinforcement and key coat and decorative coat**			
EWI-225 Premium Basecoat (4 mm)	Elastolith Adhesive with Elastolith Brick slips (joint width: 10 mm)	Reinforcement: all of Table 1 in **one layer** Key coat and decorative coat in accordance with Table 1	**No – 3 J Yes – 10 J**	**None – 3 J 26 – 10 J**	**II**
EWI-225 Premium Basecoat (6 mm)	EWI Pro Dash Receiver with pebble dash aggregate	Reinforcement: all of Table 1 in **two layers** Key coat and decorative coat in accordance with Table 1	**No – 3 J No – 10 J**	**None – 3 J None – 10 J**	**I**
	Elastolith Adhesive with Elastolith Brick slips (joint width: 10 mm)		**No – 3 J No – 10 J**	**None – 3 J None – 10 J**	**I**
	Elastolith Adhesive with Elastolith Brick slips (joint width up to 12 mm)		**No – 3 J No – 10 J**	**None – 3 J None – 10 J**	**I**
	EWI-077 Nano Drex Silicone Render (all grain sizes)		**No – 3 J Yes – 10 J**	**None – 3 J 28 – 10 J**	**II**
	EWI-075 Silicone Render (all grain sizes)		**No – 3 J Yes – 10 J**	**None – 3 J 53 – 10 J**	**II**
	EWI-078 Brick Effect Stencil Render (all grain sizes)		**Yes – 3 J Yes – 10 J**	**20 – 3 J 50 – 10 J**	**III**
	EWI-070 Wood Effect Render (Moulding)		**Yes – 3 J Yes – 10 J**	**30 – 3 J 40 – 10 J**	**III**
	EWI Pro Lightweight Adhesive (Elastic) with EWI Pro Lightweight Brick Slips (Elastic) (joint width up to 12 mm)		**No – 3 J Yes – 10 J**	**None – 3 J 40 – 10 J**	**II**

3.3.5 Water vapour permeability

Table 14

Water vapour permeability of the rendering system (equivalent air thickness s_d)			
EWIS configuration requirements:			**Equivalent air thickness s_d [m]**
Base coat	**Finishing coat**	**Key coat and decorative coat**	
EWI-225 Premium Basecoat maximum thickness 10 mm	EWI Pro Dash Receiver with pebble dash aggregate maximum thickness 8 mm	In accordance with Table 1	**0.4**
	Elastolith Adhesive maximum thickness 2 mm		**0.7**
	EWI-077 Nano Drex Silicone Render maximum thickness 3 mm		**0.4**
None	Elastolith Brick slips maximum thickness 3 mm	None	**0.4**
EWI-225 Premium Basecoat maximum thickness 10 mm	EWI-075 Silicone Render maximum thickness 3 mm	In accordance with Table 1	**0.4**
	EWI-078 Brick Effect Stencil Render maximum thickness 3 mm		**0.3**
	EWI-070 Wood Effect Render (Moulding) maximum thickness 2 mm		**0.3**
	EWI Pro Lightweight Adhesive (Elastic) maximum thickness 2 mm		**1.1**
None	EWI Pro Lightweight Brick Slips (Elastic) maximum thickness 6 mm	None	**0.3**

3.4. Safety and accessibility in use (BWR 4)

3.4.1 Bond strength between: base coat and insulation product (mortar or paste)

Table 15

Bond strength between base coat (mortar or paste) and insulation product					
EWIS configuration requirements:		Conditioning before the test	Rupture type	Bond strength [kPa]	
Insulation product	Base coat			Minimum	Mean
Insulation product 1	EWI-225 Premium Basecoat	Initial state (dry condition)	In the insulation product	126	135
Insulation product 1	EWI-225 Premium Basecoat	After hygrothermal cycles	In between the insulation product and the base coat	128	137

3.4.2 Bond strength between: adhesive and substrate

Table 16

Bond strength between adhesive and substrate					
EWIS configuration requirements:		Conditioning before the test	Rupture type	Bond strength [kPa]	
Substrate	Adhesive (and tested thickness)			Minimum	Mean
Concrete (40 mm)	EWI-220 Premium Basecoat (5 mm)	Initial state (dry condition)	In the adhesive	1117	1288
		2 days immersion in water and 2 hours of drying	In the adhesive	251	280
		2 days immersion in water and minimum 7 days drying	In the adhesive	1111	1214

3.4.3 Bond strength between: adhesive and insulation product

Table 17

Bond strength between adhesive (mortar or paste) and insulation product					
EWIS configuration requirements:		Conditioning before the test	Rupture type	Bond strength [kPa]	
Insulation product	Adhesive (and tested thickness)			Minimum	Mean
Insulation product 1	EWI-220 Premium Basecoat (5 mm)	Initial state (dry condition)	In between the adhesive and the thermal insulation product	111	126
		2 days immersion in water and 2 hours of drying	In between the adhesive and the thermal insulation product	106	109
		2 days immersion in water and minimum 7 days of drying	In the thermal insulation product	128	131

3.4.4 Wind load resistance – pull-through tests of fixings

Table 18

Wind load resistance of ETICS					
Assessed by means of: pull-through tests of fixings					
ETICS configuration requirements:		Tested position	Test conditions	Failure load per fixing [kN]	
Insulation product	Fixing			Individual	Mean
Insulation product 1 (EPS) Thickness: ≥ 30 mm or ≥ 50 mm for countersunk assembly Tensile strength in dry condition: ≥ 150 kPa	Surface assembly or countersunk assembly with Anchors in accordance with Annex No. 3 Plate diameter: ≥ 60 mm Plate stiffness: ≥ 0.6 kN.mm^{-1}	R_{panel} ⊗	Dry condition 23°C and 50% relative humidity of air	**0.330** **0.330** **0.330** **0.338** **0.342**	**0.334**
Load / displacement graph:					

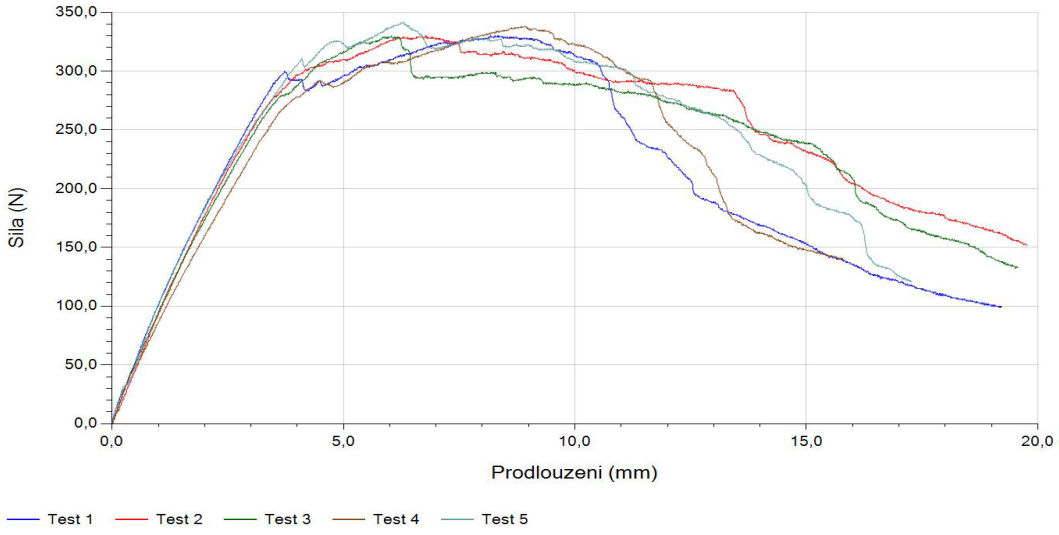
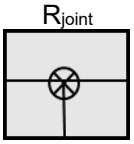
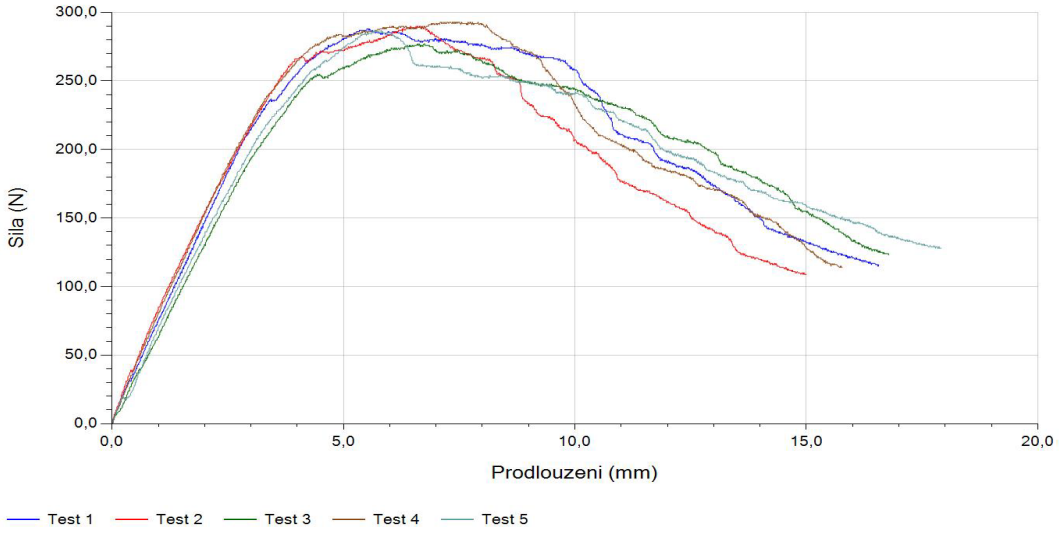


Table 19

Wind load resistance of ETICS					
Assessed by means of: pull-through tests of fixings					
ETICS configuration requirements:		**Tested position**	**Test conditions**	**Failure load per fixing [kN]**	
Insulation product	**Fixing**			**Individual**	**Mean**
Insulation product 1 (EPS) Thickness: ≥ 30 mm or ≥ 50 mm for countersunk assembly Tensile strength in dry condition: ≥ 150 kPa	Surface assembly or countersunk assembly with Anchors in accordance with Annex No. 3 Plate diameter: ≥ 60 mm Plate stiffness: ≥ 0.6 kN.mm^{-1}	R_{joint} 	Dry condition 23°C and 50% relative humidity of air	**0.288** **0.290** **0.277** **0.293** **0.287**	**0.288**
Load / displacement graph:					



3.4.5 Render strip tensile test

Table 20

Render strip tensile test					
ETICS configuration requirements:		**w_{rk} of the flat side of the test specimen [mm]**		**w_{rk} of the patterned side of the test specimen [mm]**	
Base coat	**Reinforcement**	**Warp direction**	**Weft direction**	**Warp direction**	**Weft direction**
EWI-225 Premium Basecoat	1 × EWI Pro Fibreglass Mesh FGM-165	**0.14**	**0.18**	**0.18**	**0.19**
	1 × MASTERNET CLASSIC 160	**0.08**	**0.05**	**0.12**	**0.12**
	1 × EWI Pro Fibreglass Mesh – (165g) Masternet Pro (965)	**0.05**	**0.10**	**0.11**	**0.13**

3.4.6 Bond strength after ageing of finishing coat tested in the rig

Table 21

Bond strength after ageing of finishing coat tested in the rig						
ETICS configuration requirements:				Rupture type	Bond strength [kPa]	
Insulation product	Base coat	Finishing coat	Key coat Decorative coat		Individual	Mean
Insulation product 1	EWI-225 Premium Basecoat	EWI-075 Silicone Render (all grain sizes)	In accordance with Table 1	In the insulation product	**127**	**122**
				In the insulation product	**119**	
				In the insulation product	**122**	
				In the insulation product	**123**	
				In the insulation product	**120**	
		EWI-078 Brick Effect Stencil Render (all grain sizes)	In accordance with Table 1	In the insulation product	**104**	**105**
				In the insulation product	**100**	
				In the insulation product	**124**	
				In the insulation product	**105**	
				In the insulation product	**92**	
		EWI-070 Wood Effect Render (Moulding)	In accordance with Table 1	In the insulation product	**120**	**114**
				In the insulation product	**113**	
				In the insulation product	**126**	
				In the insulation product	**131**	
				In the insulation product	**82**	
		EWI Pro Lightweight Adhesive (Elastic) with EWI Pro Lightweight Brick Slips (Elastic) (joint width up to 12 mm)	In accordance with Table 1	In the insulation product	**134**	**132**
				In the insulation product	**140**	
				In the insulation product	**133**	
				In the insulation product	**125**	
				In the insulation product	**129**	

3.4.7 Bond strength after ageing of finishing coat not tested in the rig

Table 22

Bond strength after ageing of finishing coat NOT tested in the rig						
ETICS configuration requirements:				Rupture type	Bond strength [kPa]	
Insulation product	Base coat	Finishing coat	Key coat Decorative coat		Individual	Mean
Insulation product 1	EWI-225 Premium Basecoat	EWI Pro Dash Receiver with pebble dash aggregate	In accordance with Table 1	In the insulation product	**125**	**126**
				In the insulation product	**124**	
				In the insulation product	**129**	
				In the insulation product	**122**	
				In the insulation product	**128**	
		Elastolith Adhesive with Elastolith Brick slips (joint width up to 12 mm)	In accordance with Table 1	In the insulation product	**133**	**130**
				In the insulation product	**129**	
				In the insulation product	**115**	
				In the insulation product	**145**	
				In the insulation product	**126**	
		EWI-077 Nano Drex Silicone Render (all grain sizes)	In accordance with Table 1	In the insulation product	**134**	**133**
				In the insulation product	**136**	
				In the insulation product	**137**	
				In the insulation product	**126**	
				In the insulation product	**133**	

Table 23

Bond strength of finishing coat after freeze-thaw cycles						
ETICS configuration requirements:				Rupture type	Bond strength [kPa]	
Insulation product	Base coat	Finishing coat	Reinforcement and key coat		Individual	Mean
Insulation product 1	EWI-225 Premium Basecoat	EWI Pro Dash Receiver with pebble dash aggregate	In accordance with Table 1	In the insulation product	**124**	**118**
				In the insulation product	**103**	
				In the insulation product	**122**	
				In the insulation product	**128**	
				In the insulation product	**112**	
		EWI Pro Lightweight Adhesive (Elastic) with EWI Pro Lightweight Brick Slips (Elastic) (joint width up to 12 mm)	In accordance with Table 1	In between the insulation product and the base coat	**111**	**100**
				In between the insulation product and the base coat	**111**	
				In between the insulation product and the base coat	**112**	
				In between the insulation product and the base coat	**84**	
				In between the insulation product and the base coat	**81**	

3.4.8 Thermal resistance and thermal transmittance of EWIS

Table 24

Thermal resistance and thermal transmittance of ETICS (R_{ETICS})	
Thermal resistance	**[(m²·K)/W]**
R_{render}	**0.02**
R_{EWIS}	**≥ 1.00**
See Annex No. 1 for information on calculation of thermal transmittance of EWIS In order to meet criteria of EAD 040083-00-0404, the R_{ETICS} calculated in line with Annex No. 1 has to be minimum 1.0 (m²·K)/W.	

4. Specification of the intended use(s) in accordance with the applicable UK Assessment Document (hereinafter UKAD)

4.1. System of assessment and verification of constancy of performance

According to UKAD No. 040083-00-0404 and Annex V of the Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) 305/2011 as brought into UK law and amended, the system of assessment and verification of constancy of performance (AVCP) 2+ applies 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 (EWIS)	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 UKAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the British Board of Agrément and made available to the UK Approved Bodies involved in the conformity attestation process.

5.1. UKCA marking for the product/ system must contain the following information:

- Identification number of the Approved Body
- Name/ registered address of the manufacturer of the product/ system
- Marking including date of Marking and the intended use as stated in the Designated technical specification
- Unique identification code of the product type
- The reference number of the Declaration of Performance
- The level or class of the performance declared
- The reference to the Designated technical specification applied
- UKTA number.

On behalf of the British Board of Agrément 	
Date of Issue: 10 November 2025	**Hardy Giesler** Chief Executive Officer

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ANNEX 1
Thermal transmittance of EWIS

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

U_c is corrected thermal transmittance of the entire wall, including thermal bridges.
U is thermal transmittance of the entire wall, including EWIS, without thermal bridges.
ΔU is correction term of the thermal transmittance for mechanical fixing devices.

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

$$R_{EWIS} = R_{insulation} + R_{render} \ [m^2 \cdot K/W]$$

Where: $R_{insulation}$ = insulation thickness / thermal conductivity coefficient [m^2·K/W]

R_{render} = 0.02 [m^2·K/W]

$R_{substrate}$ thermal resistance of the substrate wall [m^2·K/W].
R_{se} external surface thermal resistance [m^2·K/W].
R_{si} internal surface thermal resistance [m^2·K/W].

$$\Delta U = \chi_P \times n + \sum \Psi i \times l_i \ [m^2 \cdot K/W]$$

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 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).

n is number of anchors per m^2. In case n is more than 16, the U_c calculation does not apply.

Ψ_i is linear thermal transmittance value of the profile [W/m·K].

l_i is length of the profile per m^2.

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 m^2 the declared χ_P must not be used. The EN ISO 10211 calculation must be used in such cases.

ANNEX 2
Thermal insulation product 1 – Expanded polystyrene (EPS)

Factory made expanded polystyrene (EPS)	
Generic type	
Requirements:	
Harmonised technical specification:	EN 13163
Content of graphite:	Allowed
Composite insulation product:	No
Multi-layered insulation product	No
Facing:	No
Coating:	No
Maximum thermal conductivity coefficient λ_D:	Maximum 0.065 W/(m·K)
Short-term water absorption W_p:	Maximum 1.0 kg.m^{-2}
Length:	L(2)
Width:	W(1)
Thickness:	T(1)
Squareness:	S(2)
Flatness:	P(3)
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:	Minimum 110 kPa
Shear strength:	Minimum 20 kPa
Shear modulus:	Minimum 1000 kPa

Factory made expanded polystyrene (EPS)	
Specific type: EWI 70E HP	
Requirements:	
Harmonised technical specification:	EN 13163
Content of graphite:	Yes
Composite insulation product:	No
Multi-layered insulation product	No
Facing:	No
Coating:	No
Maximum thermal conductivity coefficient λ_D:	Maximum 0.065 W/(m·K)
Short-term water absorption W_p:	Maximum 1.0 $kg.m^{-2}$
Length:	L(2)
Width:	W(2)
Thickness:	T(2)
Squareness:	S(1)
Flatness:	P(1)
Dimensional stability	DS(N)5
Reaction to fire of thermal insulation material:	E
Water vapour permeability of thermal insulation product (water-vapour resistance factor) μ:	20-40
Tensile test perpendicular to the faces of the thermal insulation product – in dry conditions:	Minimum 110 kPa
Shear strength:	Minimum 20 kPa
Shear modulus:	Minimum 1000 kPa

Factory made expanded polystyrene (EPS)	
Specific type: Stylite Plustherm 70	
Requirements:	
Harmonised technical specification:	EN 13163
Content of graphite:	Yes
Composite insulation product:	No
Multi-layered insulation product	No
Facing:	No
Coating:	No
Maximum thermal conductivity coefficient λ_D:	Maximum 0.065 W/(m·K)
Short-term water absorption W_p:	Maximum 1.0 $kg.m^{-2}$
Length:	L(2)
Width:	W(2)
Thickness:	T(2)
Squareness:	S(2)
Flatness:	P(5)
Dimensional stability	DS(70,90)1 DS(N)5
Reaction to fire of thermal insulation material:	E
Water vapour permeability of thermal insulation product (water-vapour resistance factor) μ:	20-40
Tensile test perpendicular to the faces of the thermal insulation product – in dry conditions:	Minimum 110 kPa
Shear strength:	Minimum 20 kPa
Shear modulus:	Minimum 1000 kPa

ANNEX 3
Mechanical fixing device – anchors

Plastic anchors for fixing external thermal insulation composite systems with rendering	
Generic type	
Requirements:	
Harmonised technical specification:	UKAD 330196-00-0604 or UKAD 330196-01-0604 or superseding harmonised technical specification
Setting:	to be screwed-in or nailed-in and: **1) to be installed flush with the insulation product with or without additional, flat, plate** **2) to be installed countersunk (incision depth maximum 20 mm) to the surface of the insulation product, without additional plate** **6. does not apply to multi-layered insulation products**
Diameter of the anchor plate:	Minimum 60 mm
Load resistance of the anchor plate:	Minimum 0.33 kN
Plate stiffness:	Minimum 0.6 kN/mm
Material of the nail	Plastics or metal

ANNEX 4
Reinforcement – glass fibre mesh

Specific type: EWI Pro Fibreglass Mesh FGM – 165	
Requirements:	
Harmonised technical specification:	040016-00-0404 or 040016-01-0404 or superseding harmonised technical specification
Mass per unit area	0.152 to 0.168 $kg.m^{-2}$
Mesh size:	in warp direction: 3.5 to 5.5 mm in weft direction: 3.5 to 5.5 mm
Residual tensile strength retained after alkaline conditioning:	in warp direction: minimum 20 N/mm in weft direction: minimum 20 N/mm
Residual tensile strength after alkaline ageing	in warp direction: minimum 50% in weft direction: minimum 50%

Specific type: MASTERNET CLASSIC 145	
Requirements:	
Harmonised technical specification:	040016-00-0404 or 040016-01-0404 or superseding harmonised technical specification
Mass per unit area	0.138 to 0.152 $kg.m^{-2}$
Mesh size:	in warp direction: 5.4 to 6.4 mm in weft direction: 3.9 to 4.9 mm
Residual tensile strength retained after alkaline conditioning:	in warp direction: minimum 20 N/mm in weft direction: minimum 20 N/mm
Residual tensile strength after alkaline ageing	in warp direction: minimum 50% in weft direction: minimum 50%

Specific type: MASTERNET CLASSIC 160	
Requirements:	
Harmonised technical specification:	040016-00-0404 or 040016-01-0404 or superseding harmonised technical specification
Mass per unit area	0.152 to 0.168 $kg.m^{-2}$
Mesh openings:	in warp direction: 4.6 to 5.6 mm in weft direction: 3.7 to 4.7 mm
Residual tensile strength retained after alkaline conditioning:	in warp direction: minimum 20 N/mm in weft direction: minimum 20 N/mm
Residual tensile strength after alkaline ageing	in warp direction: minimum 50% in weft direction: minimum 50%

Specific type: EWI Pro Fibreglass Mesh – (165g) Masternet Pro (965)	
Requirements:	
Harmonised technical specification:	040016-00-0404 or 040016-01-0404 or superseding harmonised technical specification
Mass per unit area	0.160 to 0.170 $kg.m^{-2}$
Mesh size:	in warp direction: 4.2 to 5.2 mm in weft direction: 4.2 to 5.2 mm
Residual tensile strength retained after alkaline conditioning:	in warp direction: minimum 20 N/mm in weft direction: minimum 20 N/mm
Residual tensile strength after alkaline ageing	in warp direction: minimum 50% in weft direction: minimum 50%

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