

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

UK Technical Assessment	UKTA-0836-25/7478 of 24/10/2025
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	EWI Pro Timber Frame & Park Home System
Product family to which the construction product belongs:	EWIS with renderings for the use on timber frame buildings Insulation product – expanded polystyrene (EPS)
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:	43 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 040089-00-0404 "ETICS with renderings for the use on timber frame buildings"

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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 <sup>-2</sup> ]	Thickness [mm]
External board 1	Plywood in accordance with EN 636 - mounted on a timber frame - density: 570 ± 10% kg.m <sup>-3</sup>	N/A	21 – 25
External board 2	Fiber-cement flat sheets in accordance with EN 12467+A2 - class of strength: 4 - mechanical resistance: minimum 18 MPa - mounted on a timber frame - density: 1220 ± 10% kg.m <sup>-3</sup>	N/A	12 – 12.5
External board 3	OSB boards in accordance with EN 300 - mounted on a timber frame - density: 610 ± 10% kg.m <sup>-3</sup>	N/A	12.5 – 25
Primer for external boards	EWI-310 Universal Primer  Ready-to-use primer to increase adhesion of the adhesive to the external boards  Use optionally with external boards 1 – 3	0.25 – 0.5 (liquid)	< 1.0
Adhesive 1	<b>EWI-220 EPS Basecoat</b> Powder requiring addition of water 0.22 – 0.24 l.kg <sup>-1</sup>	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	40 – 300
Mechanical fixing device 1	RAWLPLUG R-WW-T Metal screw for wooden substrate To be used with plastic RAWLPLUG KC insulation washer (only for surface use) See Annex No. 3		
Mechanical fixing device 2	Wkret-met Klimas KMH Hardened countersunk flat head metal screw with partial thread To be used with plastic Klimas TD-060 or TDP-060 washer See Annex No. 3		
Mechanical fixing device 3	RAWLPLUG WX-T Metal screw for wooden substrate To be used with plastic RAWLPLUG KC insulation washer (only for surface use) or RAWLPLUG KCX- 105 insulation washer (for countersunk use) See Annex No. 3	N/A	N/A
Mechanical fixing device 4	Wkret-met Klimas KMWHT Hardened countersunk flat head metal screw with partial thread To be used with plastic Klimas TD-060 or TDP-060 washer See Annex No. 3		

Use and variant	Component	Coverage [kg.m <sup>-2</sup> ]	Thickness [mm]
Mechanical fixing device 5  Mechanical fixing device 6	Ejot TKR 4.8  Case-hardened steel screw for wooden substrate To be used with plastic Ejot SBH-T 65/25 insulation washer (only for surface use) See Annex No. 3  Ejotherm STR H  Mechanical fastener made of metal case hardened steel with plastic washer for wooden substrate See Annex No. 3	N/A	N/A
Base coat 1	<b>EWI-225 Premium Basecoat</b> Powder requiring addition of water 0.24 – 0.26 l.kg <sup>-1</sup>	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	0.15 – 0.18 (per layer)	< 1.0 (per layer)
Key coat 1	<b>EWI-333 Topcoat Primer</b> Use mandatorily with finishing coats 3 – 6	0.2 – 0.3 (liquid)	< 0.2
Key coat 2	<b>EWI-334 Brick Effect Primer</b> 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 <sup>-1</sup> Trowelled on and sprinkled with decorative pebble dash aggregate Sizing of aggregate: 3 – 8 mm	12.5 – 12.8 Approx. 1.6 kg per mm / per m <sup>2</sup> (dry powder)	~ 8.0
Finishing coat 2	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 3	EWI-077-1.5 Nano Drex 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 4	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 5	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

Use and variant	Component	Coverage [kg.m <sup>-2</sup> ]	Thickness [mm]
Finishing coat 6	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 7	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 8	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 9	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 10	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 applied) Maximum particle size 1.0 mm	1.9 – 2.1 (paste)	~ 1.0
Finishing coat 11	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 12	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 13	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 14	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	0.7 – 0.8 Approx. 1.5 Kg per mm / per m <sup>2</sup> (dry powder)	~ 0.5
Decorative coat 1	EWI Glazure Paint Ready-to-use decorative paint To be used with finishing coat 11	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 11	0.2 – 0.3 (liquid)	< 0.2
Ancillary materials	Remain under the manufacturer's res	ponsibility	

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

#### Table 2

Table 2				
		Type of EWIS		
Component	Purely bonded EWIS	Bonded EWIS with supplementary anchors	Mechanically fixed EWIS with anchors with supplementary adhesive	
		External board 1	External board 1	
	External board 1	or	or	
External board	or	External board 2	External board 2	
	External board 2	or	or	
		External board 3	External board 3	
	EWI-220 EPS	EWI-220 EPS	EWI-220 EPS	
Adhesive	Basecoat	Basecoat	Basecoat	
Adriesive	Minimum 60% area	Minimum 30% area	Minimum 30% area	
	covered by adhesive	covered by adhesive	covered by adhesive	
Thermal insulation product	Thermal insulation product 1	Thermal insulation product 1	Thermal insulation product 1	
Mechanical fixing device	Not to be used	See Annex No. 3	See Annex No. 3	

# 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 (see Table 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 EWISS 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 framed 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 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

EWIS: Reaction to fire of EWIS  EWIS: Reaction to fire of EWIS  CI. 2.2.1.1  EWIS: Water absorption  EWIS: Water upsorption  EWIS: Bond strength between: base coat and insulation product (mortar or paste)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and insulation product  EWIS: Wind load resistance:  pull-through tests of fixings  EWIS: Wind load resistance:  static foam block  EWIS: Wind load resistance:  cupsil-through tests of fixings  CI. 2.2.3.6.1  See CI. 3.4.4  No performance assessed  EWIS: Wind load resistance:  cupsil-through tests of fixings  CI. 2.2.3.6.1  See CI. 3.4.5  See CI. 3.4.7  No performance assessed  (See Annex No. 2 for component characte	- 411	Assessment	
EWIS: Water absorption  EWIS: Water tightness: Hygrothermal behaviour  EWIS: Water tightness: Freeze-thaw behaviour  CI. 2.2.2.1  See CI. 3.3.3  EWIS: Water tightness: Moisture content and gradient  EWIS: Water tightness: Moisture content and gradient  CI. 2.2.2.4  EWIS: Water tightness: Water penetration  CI. 2.2.2.5  EWIS: Water vapour permeability  EWIS: Bond strength between: base coat and insulation product (mortar or paste)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and insulation product  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and insulation product  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance:  pull-through tests of fixings  EWIS: Wind load resistance:  quantic wind uplifit test  EWIS: Wind load resistance:  quantic wind uplifit test  EWIS: Wind load resistance:  resistance to soft body impact  EWIS: Bond strength after ageing  CI. 2.2.3.6  EWIS: Bond strength after ageing  CI. 2.2.3.1  See CI. 3.4.1  No performance assessed  EWIS: Hydro load resistance  CI. 2.2.3.6  EWIS: Bond strength after ageing  CI. 2.2.3.1  EWIS: Bond strength after ageing  CI. 2.2.3.2  EWIS: Airborne sound insulation  CI. 2.2.3.1  EWIS: Airborne sound insulation  CI. 2.2.3.1  See CI. 3.4.1  No performance assessed  EWIS: Thermal resistance and thermal transmittance  Insulation product: Water absorption  CI. 2.2.2.7	Essential characteristic	method (EAD clause)	Performance
EWIS: Water tightness: Hygrothermal behaviour EWIS: Water tightness: Freeze-thaw behaviour EWIS: Water tightness: Moisture content and gradient  EWIS: Water tightness: Moisture content and gradient  EWIS: Water tightness: Water penetration  EWIS: Bond strength between: base coat and insulation product (mortar or paste)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and insulation product  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance:  - pull-through tests of fixings  EWIS: Wind load resistance:  - dynamic wind uplifit test  EWIS: Wind load resistance:  - resistance to soft body impact  EWIS: Wind load resistance:  - resistance to soft body impact  EWIS: Bond strength after ageing  EWIS: Airborne sound insulation  EWIS: Airborne sound insulation  EWIS: Thermal resistance and thermal transmittance  Insulation product: Water absorption  CI. 2.2.2.7  CI. 2.2.3.6  See CI. 3.4.1  No performance assessed  CI. 2.2.3.1  See CI. 3.4.1  No performance assessed  CI. 2.2.3.2  See CI. 3.4.5  No performance assessed  CI. 2.2.3.1  See CI. 3.4.6  And  CI. 2.2.3.1  No performance assessed  CI. 2.2.3.2  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  No performance assessed  CI. 2.2.3.2  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  No performance assessed  CI. 2.2.3.2  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  No performance assessed  CI. 2.2.3.2  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  No performance assessed  CI. 2.2.3.2  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  No performance assessed  CI. 2.2.3.1  No performance assessed  CI. 2.2.3.1	EWIS: Reaction to fire of EWIS	Cl. 2.2.1.1	See Cl. 3.2.1
EWIS: Water tightness: Freeze-thaw behaviour EWIS: Water tightness: Moisture content and gradient EWIS: Water tightness: Moisture content and gradient EWIS: Water tightness: Water penetration  EWIS: Water tightness: Water penetration  EWIS: Water vapour permeability CI. 2.2.2.6  EWIS: Bond strength between: base coat and insulation product (mortar or paste)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and insulation product  EWIS: Bond strength between: adhesive and insulation product  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance: - pull-through tests of fixings  EWIS: Wind load resistance: - static foam block  EWIS: Wind load resistance: - dynamic wind uplift test  EWIS: Wind load resistance: - resistance to soft body impact  EWIS: Impact resistance  EWIS: Bond strength after ageing  EWIS: Impact resistance and thermal transmittance  Insulation product: Reaction to fire  CI. 2.2.3.7  CI. 2.2.3.1  See CI. 3.4.1  No performance assessed  CI. 2.2.3.6.4  No performance assessed  CI. 2.2.3.6.5  See CI. 3.4.5  See CI. 3.4.7  No performance assessed  CI. 2.2.3.6.4  See CI. 3.4.5  See CI. 3.4.5  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  See CI. 3.4.7  No performance assessed  CI. 2.2.3.20  See CI. 3.4.5  See CI. 3.4.7  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  See CI. 3.4.5  See CI. 3.4.1  No performance assessed  CI. 2.2.3.1  See CI. 3.4.5  See CI. 3	EWIS: Water absorption	Cl. 2.2.2.1	See Cl. 3.3.1
EWIS: Water tightness: Freeze-thaw behaviour EWIS: Water tightness: Moisture content and gradient EWIS: Water tightness: Moisture content and gradient EWIS: Water tightness: Water penetration  EWIS: Water tightness: Water penetration  EWIS: Water vapour permeability CI. 2.2.2.6  EWIS: Bond strength between: base coat and insulation product (mortar or paste)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and insulation product  EWIS: Bond strength between: adhesive and insulation product  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance: - pull-through tests of fixings  EWIS: Wind load resistance: - static foam block  EWIS: Wind load resistance: - dynamic wind uplift test  EWIS: Wind load resistance: - resistance to soft body impact  EWIS: Impact resistance  EWIS: Bond strength after ageing  EWIS: Impact resistance and thermal transmittance  Insulation product: Reaction to fire  CI. 2.2.3.7  CI. 2.2.3.1  See CI. 3.4.1  No performance assessed  CI. 2.2.3.6.4  No performance assessed  CI. 2.2.3.6.5  See CI. 3.4.5  See CI. 3.4.7  No performance assessed  CI. 2.2.3.6.4  See CI. 3.4.5  See CI. 3.4.5  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  See CI. 3.4.7  No performance assessed  CI. 2.2.3.20  See CI. 3.4.5  See CI. 3.4.7  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  See CI. 3.4.7  No performance assessed  CI. 2.2.3.1  See CI. 3.4.5  See CI. 3.4.1  No performance assessed  CI. 2.2.3.1  See CI. 3.4.5  See CI. 3	EWIS: Water tightness: Hygrothermal behaviour	Cl. 2.2.2.2	See Cl. 3.3.3
EWIS: Water tightness: Moisture content and gradient  EWIS: Water tightness: Water penetration  EWIS: Water tightness: Water penetration  EWIS: Water tightness: Water penetration  EWIS: Water vapour permeability  EWIS: Bond strength between: base coat and insulation product (mortar or paste)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Fixing strength (transverse displacement)  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance:  - pull-through tests of fixings  EWIS: Wind load resistance:  - static foam block  EWIS: Wind load resistance:  - dynamic wind uplifit test  EWIS: Wind load resistance:  - resistance to soft body impact  EWIS: Impact resistance  CI. 2.2.3.6.4  EWIS: Bond strength after ageing  CI. 2.2.3.19  See CI. 3.4.5  EWIS: Airborne sound insulation  EWIS: Airborne sound insulation  CI. 2.2.4.1  EWIS: Airborne sound insulation  Insulation product: Reaction to fire  CI. 2.2.1.3  No performance assessed  CI. 2.2.1.3  No performance assessed  CI. 2.2.3.1  See CI. 3.4.1  No performance assessed  CI. 2.2.3.2  See CI. 3.4.1  No performance assessed  CI. 2.2.3.1  See CI. 3.4.5  CI. 2.2.3.1  See CI. 3.4.7  No performance assessed  CI. 2.2.3.2  See CI. 3.4.7  No performance assessed  CI. 2.2.4.1  No performance assessed  CI. 2.2.5.1  No performance assessed  CI. 2.2.5.1  No performance assessed  CI. 2.2.7  No performance assessed  CI. 2.2.7  No performance assessed  CI.			
gradient  EWIS: Water tightness: Water penetration  CI. 2.2.2.5  EWIS: Water vapour permeability  EWIS: Bond strength between: base coat and insulation product (mortar or paste)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and sinsulation product  EWIS: Bond strength between: adhesive and insulation product  EWIS: Bond strength between: adhesive and insulation product  EWIS: Bond strength between: adhesive and insulation product  EWIS: Wind load resistance:  - pull-through tests of fixings  EWIS: Wind load resistance:  - dynamic wind uplift test  EWIS: Wind load resistance:  - resistance to soft body impact  EWIS: Impact resistance  EWIS: Impact resistance  EWIS: Airborne sound insulation  EWIS: Airborne sound insulation  EWIS: Thermal resistance and thermal transmittance  Insulation product: Water absorption  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.3.6  Avaperformance assessed  No performance assessed  No performance assessed  CI. 2.2.3.19  See CI. 3.4.5  See CI. 3.4.5  CI. 2.2.3.20  See CI. 3.4.5  See CI. 3.4.6  See CI. 3.4.7  No performance assessed  CI. 2.2.3.11  CI. 2.2.3.21  See CI. 3.4.6  And  CI. 2.2.3.11  No performance assessed  CI. 2.2.3.21  See CI. 3.4.11  No performance assessed  CI. 2.2.3.21  No performance assessed  CI. 2.2.3.21  CI. 2.2.3.21  See CI. 3.4.11  No performance assessed  CI. 2.2.3.21  No performance assessed  CI. 2.2.3.21  No performance assessed  CI. 2.2.3.21  CI			
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EWIS: Water upon permeability EWIS: Bond strength between: base coat and insulation product (mortar or paste) EWIS: Bond strength between: adhesive and substrate (external board) EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and insulation product  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance: - pull-through tests of fixings  EWIS: Wind load resistance: - static foam block  EWIS: Wind load resistance: - dynamic wind uplift test  EWIS: Wind load resistance: - resistance to soft body impact  EWIS: Impact resistance  EWIS: Bond strength after ageing  EWIS: Airborne sound insulation  EWIS: Thermal resistance and thermal transmittance  Insulation product: Water absorption  CI. 2.2.2.5  See CI. 3.4.1  See CI. 3.4.2  See CI. 3.4.3  No performance assessed  No performance assessed  CI. 2.2.3.6.4  See CI. 3.4.5  See CI. 3.4.5  See CI. 3.4.5  See CI. 3.4.5  See CI. 3.4.6  and CI. 2.2.3.10  See CI. 3.4.7  No performance assessed  Insulation product: Water absorption  CI. 2.2.1.3  CI. 2.2.2.7  CI. 2.2.2.7  See CI. 3.4.11  No performance assessed  See CI. 3.4.11  No performance assessed  See CI. 3.4.11  No performance assessed  CI. 2.2.2.1.3  See CI. 3.4.11  No performance assessed  CI. 2.2.2.1.3  See CI. 3.4.11  No performance assessed  CI. 2.2.2.1.3  See CI. 3.4.11  No performance assessed  CI. 2.2.2.1  See CI. 3.4.11  No performance assessed  CI. 2.2.2.2  See CI. 3.4.11  No performance assessed  CI. 2.2.2.2  No performance assessed  CI. 2.2.2.2  See CI. 3.4.11  No performance assessed  CI. 2.2.2.2  No performance assessed  CI. 2.2.2.2  See CI. 3.4.11  No performance assessed  CI. 2.2.2.2  See CI. 3.4.11  No performance assessed  CI. 2.2.2.2  No performance assessed  CI. 2.2.2.2  See CI. 3.4.2  See CI. 3.4.5  See CI. 3.4.5  See CI. 3.4.6  See CI. 3.4.7  No performance assessed  CI. 2.2.2.1  See CI. 3.4.			
EWIS: Water vapour permeability EWIS: Bond strength between: base coat and insulation product (mortar or paste) EWIS: Bond strength between: adhesive and substrate (external board) EWIS: Bond strength between: adhesive and insulation product EWIS: Bond strength between: adhesive and insulation product EWIS: Fixing strength (transverse displacement) EWIS: Wind load resistance: - pull-through tests of fixings EWIS: Wind load resistance: - static foam block EWIS: Wind load resistance: - dynamic wind uplift test EWIS: Wind load resistance: - dynamic wind uplift test EWIS: Wind load resistance: - dynamic wind uplift test EWIS: Impact resistance of the control of	EWIS: Water tightness: Water penetration	Cl. 2.2.2.5	•
EWIS: Bond strength between: base coat and insulation product (mortar or paste)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and insulation product  EWIS: Bond strength (transverse displacement)  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance:  - pull-through tests of fixings  EWIS: Wind load resistance:  - static foam block  EWIS: Wind load resistance:  - dynamic wind uplift test  EWIS: Wind load resistance:  - resistance to soft body impact  EWIS: Impact resistance  EWIS: Impact resistance  - REWIS: Bond strength after ageing  EWIS: Airborne sound insulation  EWIS: Thermal resistance and thermal transmittance  Insulation product: Reaction to fire  CI. 2.2.2.7  Insulation product: Water absorption  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.3.1  CI. 2.2.3.1  CI. 2.2.3.2  CI. 2.2.3.3  CI. 2.2.3.4  CI. 2.2.3.4  CI. 2.2.3.5  CI. 2.2.3.5  CI. 2.2.3.6  CI.	FWIS: Water vanour permeability	CL 2226	
insulation product (mortar or paste) EWIS: Bond strength between: adhesive and substrate (external board) EWIS: Bond strength between: adhesive and insulation product EWIS: Bond strength between: adhesive and insulation product EWIS: Bond strength (transverse displacement) EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance: - pull-through tests of fixings  EWIS: Wind load resistance: - static foam block EWIS: Wind load resistance: - dynamic wind uplift test  EWIS: Wind load resistance: - resistance to soft body impact  EWIS: Impact resistance  EWIS: Impact resistance  CI. 2.2.3.6.4  EWIS: Bond strength after ageing  EWIS: Airborne sound insulation  CI. 2.2.3.1  EWIS: Airborne sound insulation  CI. 2.2.3.1  EWIS: Thermal resistance and thermal transmittance  Insulation product: Reaction to fire  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.3.2  CI. 2.2.3.3  See CI. 3.4.4  No performance assessed  No performance assessed  CI. 2.2.3.19  See CI. 3.4.5  CI. 2.2.3.20  See CI. 3.4.6  and  CI. 2.2.3.21  See CI. 3.4.7  No performance assessed  CI. 2.2.3.21  See CI. 3.4.7  No performance assessed  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  Insulation product: Water absorption  CI. 2.2.2.7  CI. 2.2.3.2  CI. 2.2.3.2  CI. 2.2.3.2  CI. 2.2.3.2  CI. 2.2.3.2  CI. 2.2.3.2  CI. 2.2.3.6.2  CI. 2.2.3.6.		01. 2.2.2.0	000 01. 0.0.4
Contact or paste		CL 2 2 2 4	Soc CL 2.4.1
EWIS: Bond strength between: adhesive and substrate (external board)  EWIS: Bond strength between: adhesive and insulation product  EWIS: Bond strength (transverse displacement)  EWIS: Fixing strength (transverse displacement)  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance:  - pull-through tests of fixings  EWIS: Wind load resistance:  - static foam block  EWIS: Wind load resistance:  - dynamic wind uplift test  EWIS: Wind load resistance:  - resistance to soft body impact  EWIS: Wind load resistance:  - resistance to soft body impact  EWIS: Impact resistance  CI. 2.2.3.6.4  EWIS: Bond strength after ageing  EWIS: Airborne sound insulation  CI. 2.2.3.1  EWIS: Airborne sound insulation  CI. 2.2.4.1  EWIS: Thermal resistance and thermal transmittance  Insulation product: Reaction to fire  CI. 2.2.2.7  Insulation product: Water absorption  CI. 2.2.2.7		OI. 2.2.3. I	See Cl. 3.4.1
substrate (external board)       CI. 2.2.3.2       See CI. 3.4.2         EWIS: Bond strength between: adhesive and insulation product       CI. 2.2.3.3       See CI. 3.4.3         EWIS: Fixing strength (transverse displacement)       CI. 2.2.3.5       No performance assessed         EWIS: Wind load resistance:			
EWIS: Bond strength between: adhesive and insulation product  EWIS: Fixing strength (transverse displacement)  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance:		Cl. 2.2.3.2	See Cl. 3.4.2
insulation product  EWIS: Fixing strength (transverse displacement)  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance:			
EWIS: Fixing strength (transverse displacement)  EWIS: Fixing strength (transverse displacement)  EWIS: Wind load resistance:		Cl. 2.2.3.3	See Cl. 3.4.3
EWIS: Wind load resistance: - pull-through tests of fixings  EWIS: Wind load resistance: - static foam block  EWIS: Wind load resistance: - static foam block  EWIS: Wind load resistance: - dynamic wind upliff test  EWIS: Wind load resistance: - dynamic wind upliff test  EWIS: Wind load resistance: - resistance to soft body impact  EWIS: Impact resistance  CI. 2.2.3.6.4  EWIS: Bond strength after ageing  CI. 2.2.3.20 - and - CI. 2.2.3.21  EWIS: Airborne sound insulation  CI. 2.2.4.1  EWIS: Airborne sound insulation  CI. 2.2.4.1  EWIS: Thermal resistance and thermal transmittance  Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.2.7	insulation product		
EWIS: Wind load resistance:	FWIS: Fixing strength (transverse displacement)	Cl 2235	
- pull-through tests of fixings  EWIS: Wind load resistance: - static foam block  EWIS: Wind load resistance: - dynamic wind uplift test  EWIS: Wind load resistance: - dynamic wind uplift test  EWIS: Wind load resistance: - resistance to soft body impact  EWIS: Impact resistance  EWIS: Impact resistance  CI. 2.2.3.6.4  EWIS: Bond strength after ageing  EWIS: Airborne sound insulation  CI. 2.2.3.21  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  See CI. 3.4.6  No performance assessed  See CI. 3.4.7  No performance assessed  CI. 2.2.3.19  See CI. 3.4.6  And  CI. 2.2.3.21  See CI. 3.4.7  No performance assessed  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.2.7  CI. 2.2.2.7  See CI. 3.4.7  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  Insulation product: Water absorption  CI. 2.2.2.7		01. 2.2.0.0	assessed
EWIS: Wind load resistance:	EWIS: Wind load resistance:	CI 22261	Soc Cl 3 4 4
- static foam block  EWIS: Wind load resistance:		OI. 2.2.3.0.1	See Cl. 3.4.4
EWIS: Wind load resistance: - dynamic wind uplift test  EWIS: Wind load resistance: - resistance to soft body impact  EWIS: Impact resistance  CI. 2.2.3.6.4  EWIS: Impact resistance  CI. 2.2.3.19  EWIS: Bond strength after ageing  CI. 2.2.3.20  EWIS: Airborne sound insulation  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  CI. 2.2.5.1  See CI. 3.4.7  No performance assessed  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.2.7  CI. 2.2.5.1  CI. 2.2.5.1	EWIS: Wind load resistance:	CI 22262	No performance
- dynamic wind uplift test  EWIS: Wind load resistance: - resistance to soft body impact  EWIS: Impact resistance  CI. 2.2.3.6.4  EWIS: Impact resistance  CI. 2.2.3.19  EWIS: Bond strength after ageing  CI. 2.2.3.20  EWIS: Airborne sound insulation  CI. 2.2.3.21  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  Insulation product: Reaction to fire  CI. 2.2.1.3  See CI. 3.4.7  No performance assessed  CI. 2.2.5.1  No performance assessed  CI. 2.2.1.3  CI. 2.2.2.1.3	- static foam block	CI. 2.2.3.0.2	assessed
EWIS: Wind load resistance: - resistance to soft body impact  EWIS: Impact resistance  CI. 2.2.3.19  EWIS: Impact resistance  CI. 2.2.3.20  EWIS: Bond strength after ageing  EWIS: Airborne sound insulation  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  EWIS: Thermal resistance and thermal transmittance  Insulation product: Reaction to fire  CI. 2.2.1.3  See CI. 3.4.7  No performance assessed  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  Insulation product: Water absorption  CI. 2.2.2.7  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed	EWIS: Wind load resistance:	01 0 0 0 0 0	No performance
EWIS: Wind load resistance: - resistance to soft body impact  EWIS: Impact resistance  CI. 2.2.3.19  See CI. 3.4.5  EWIS: Bond strength after ageing  CI. 2.2.3.20  and  CI. 2.2.3.21  See CI. 3.4.6  and  CI. 2.2.3.21  See CI. 3.4.7  EWIS: Airborne sound insulation  CI. 2.2.4.1  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.2.3  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  Insulation product: Water absorption  CI. 2.2.2.7  (See Annex No. 2 for component characteristic)  No performance assessed  No performance assessed  See CI. 3.4.11  No performance assessed  No performance assessed  Insulation product: Water absorption  CI. 2.2.2.7  No performance assessed	<ul> <li>dynamic wind uplift test</li> </ul>	Cl. 2.2.3.6.3	assessed
- resistance to soft body impact  EWIS: Impact resistance  CI. 2.2.3.19  See CI. 3.4.5  CI. 2.2.3.20  See CI. 3.4.6  and  CI. 2.2.3.21  See CI. 3.4.7  EWIS: Airborne sound insulation  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.2.2  See CI. 3.4.7  No performance assessed  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  CI. 2.2.2.7  Insulation product: Water absorption  CI. 2.2.2.7  CI. 2.2.3.00  See CI. 3.4.7  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  No performance assessed  No performance assessed		01 0 0 0 0 4	No performance
EWIS: Impact resistance  CI. 2.2.3.19  See CI. 3.4.5  CI. 2.2.3.20  See CI. 3.4.6  and  CI. 2.2.3.21  See CI. 3.4.7  EWIS: Airborne sound insulation  CI. 2.2.4.1  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.1.3  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  CI. 2.2.2.7  No performance assessed  CI. 2.2.1.3  No performance assessed  No performance assessed  No performance assessed  No performance assessed  See CI. 3.4.7	<ul> <li>resistance to soft body impact</li> </ul>	Cl. 2.2.3.6.4	•
EWIS: Bond strength after ageing  CI. 2.2.3.20 and CI. 2.2.3.21 See CI. 3.4.6 and See CI. 3.4.7  EWIS: Airborne sound insulation  CI. 2.2.4.1  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  No performance assessed		Cl. 2.2.3.19	See Cl. 3.4.5
CI. 2.2.3.21 See CI. 3.4.7  EWIS: Airborne sound insulation CI. 2.2.4.1 No performance assessed  EWIS: Thermal resistance and thermal transmittance CI. 2.2.5.1 See CI. 3.4.11  No performance assessed  Insulation product: Reaction to fire CI. 2.2.1.3 (See Annex No. 2 for component characteristic)  Insulation product: Water absorption CI. 2.2.2.7 (See Annex No. 2 for component characteristic)  No performance assessed  No performance assessed	•	Cl. 2.2.3.20	See Cl. 3.4.6
CI. 2.2.3.21 See CI. 3.4.7  EWIS: Airborne sound insulation  CI. 2.2.4.1  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  CI. 2.2.2.7  (See Annex No. 2 for component characteristic)  No performance assessed  No performance assessed	EWIS: Bond strength after ageing	and	and
EWIS: Airborne sound insulation  CI. 2.2.4.1  No performance assessed  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.2.7  No performance assessed  CI. 2.2.2.7  No performance assessed  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.2.7	3 3 3		See Cl. 3.4.7
EWIS: Airborne sound insulation  EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  Insulation product: Water absorption  CI. 2.2.2.7  CI. 2.2.5.1  No performance assessed  No performance assessed			
EWIS: Thermal resistance and thermal transmittance  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  Insulation product: Water absorption  CI. 2.2.2.7  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed  No performance assessed	EWIS: Airborne sound insulation	Cl. 2.2.4.1	I
transmittance  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed (See Annex No. 2 for component characteristic)  No performance assessed  Insulation product: Water absorption  CI. 2.2.2.7  CI. 2.2.5.1  See CI. 3.4.11  No performance assessed (See Annex No. 2 for component characteristic)  No performance assessed  No performance assessed	EWIS: Thermal resistance and thermal	0.00	
Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.1.3  CI. 2.2.1.3  No performance assessed (See Annex No. 2 for component characteristic)  No performance assessed  Insulation product: Water absorption  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.2.7  No performance assessed  No performance assessed		Cl. 2.2.5.1	See Cl. 3.4.11
Insulation product: Reaction to fire  CI. 2.2.1.3  CI. 2.2.2.7  CI. 2.			No performance
Insulation product: Reaction to fire  CI. 2.2.1.3  (See Annex No. 2 for component characteristic)  No performance assessed  (See Annex No. 2 for component characteristic)  CI. 2.2.2.7  (See Annex No. 2 for component characteristic)  No performance assessed			•
Insulation product: Water absorption  CI. 2.2.2.7  Component characteristic)  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed	Insulation product: Reaction to fire	CL 2213	
characteristic)  No performance assessed  Insulation product: Water absorption  Cl. 2.2.2.7  (See Annex No. 2 for component characteristic)  No performance assessed	modiation product. Reduction to mo	01. 2.2.1.0	1
Insulation product: Water absorption  Cl. 2.2.2.7  Cl. 2.2.2.7  Cl. 2.2.2.7  No performance assessed  (See Annex No. 2 for component characteristic)  No performance assessed			
Insulation product: Water absorption  CI. 2.2.2.7  CI. 2.2.2.7  CI. 2.2.2.7  See Annex No. 2 for component characteristic)  No performance assessed			
Insulation product: Water absorption  CI. 2.2.2.7  (See Annex No. 2 for component characteristic)  No performance assessed			
component characteristic) No performance assessed	Insulation product: Water absorption	CL 2227	
characteristic) No performance assessed	insulation product. Water absorption	OI. 2.2.2.1	`
No performance assessed			
assessed			,
			<u> </u>
	Includation was direct. Maken a comment 1995.	01 0 0 0 0	
Insulation product: Water permeability  Cl. 2.2.2.8 (See Annex No. 2 for	insulation product: vvater permeability	CI. 2.2.2.8	
component			
characteristic)			
No performance		0.000	I
Cl. 2.2.3.7 assessed		_	
Insulation product: Tensile test and (See Annex No. 2 for	Insulation product: I ensile test		
Cl. 2.2.3.8 component		Cl. 2.2.3.8	
characteristic)			characteristic)

Essential characteristic	Assessment method (EAD clause)	Performance	
Insulation product: Shear strength and shear modulus of elasticity test	Cl. 2.2.3.9	No performance assessed (See Annex No. 2 for component characteristic)	
Insulation product: Bending strength	Cl. 2.2.3.10	No performance assessed	
Insulation product: Dynamic stiffness	Cl. 2.2.4.2	No performance assessed	
Insulation product: Thermal resistance	Cl. 2.2.5.2	No performance assessed (See Annex No. 2 for component characteristic)	
Insulation product: Air flow resistance	Cl. 2.2.5.3	No performance assessed	
Mechanical fixings: Reaction to fire	Cl. 2.2.1.2	No performance assessed	
Mechanical fixings: Pull-out strength of mechanical fixings (anchors)	Cl. 2.2.3.14	See Cl. 3.4.8	
Mechanical fixings: Protection against corrosion	Cl. 2.2.3.22	No performance assessed	
Base coat: performances	Cl. 2.2.3.15 and Cl. 2.2.3.16	See Cl. 3.4.9	
Rendering system: tensile strength	Cl. 2.2.3.12	See Cl. 3.4.10	
Reinforcement: tearing strength and elongation	Cl. 2.2.3.23 Cl. 2.2.3.24 Cl. 2.2.3.25	No performance assessed (See Annex No. 4 for component characteristic)	

Tables 4 to 37 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
External board (substrate)	In accordance with Table 1
Primer for external boards	None
Adhesive	In accordance with Table 1 <b>Table</b>
Thermal insulation product	Thermal insulation product 1 Maximum apparent density (EN 1602): 15 kg.m <sup>-3</sup> ± 10 % Thickness: ≥ 40 mm Reaction to fire class: E or better
Anchors	In accordance with Table 1
Base coat	In accordance with Table 1 in thickness of minimum 5 mm
Reinforcement	In accordance with Table in maximum two layers  Provided reinforcement has maximum heat of combustion 1.19  MJ.m <sup>-2</sup>
Key coat	In accordance with Table 1
Finishing coat	In accordance with Table 1
Decorative coat	In accordance with Table 1

#### Table 5

Table 5	
Reaction to fire of EWIS:	B - s1, d0
Component	EWIS configuration
External board (substrate)	In accordance with Table 1
Primer for external boards	None
Adhesive	In accordance with Table 1
Thermal insulation product	Thermal insulation product 1 Maximum apparent density (EN 1602): <b>15.65 kg.m</b> <sup>-3</sup> <b>± 10</b> % Thickness: <b>≥ 170 mm</b> Reaction to fire class: <b>E or better</b>
Anchors	In accordance with Table 1
Base coat	In accordance with Table 1 in thickness of minimum 4 mm
Reinforcement	In accordance with Table in maximum two layers  Provided reinforcement has maximum heat of combustion 1.19  MJ.m <sup>-2</sup>
Key coat	In accordance with Table 1
Finishing coat	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
External board (substrate)	In accordance with Table 1
Primer for external boards	None
Adhesive	In accordance with Table 1
Thermal insulation product	Thermal insulation product 1  Maximum apparent density (EN 1602): 18.5 kg.m <sup>-3</sup> ± 10 %  Thickness: ≥ 160 mm  Reaction to fire class: E or better
Anchors	In accordance with Table 1
Base coat	In accordance with Table 1 in thickness of minimum 5 mm
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 <sup>-2</sup>
Key coat	In accordance with Table
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
External board (substrate)	In accordance with Table 1
Primer for external boards	None
Adhesive	In accordance with Table 1
Thermal insulation product	Thermal insulation product 1 Maximum apparent density (EN 1602): 25 kg.m <sup>-3</sup> ± 10 % Thickness: ≥ 160 mm Reaction to fire class: E or better
Anchors	In accordance with Table 1
Base coat	In accordance with Table 1 in thickness of minimum 6 mm
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 <sup>-2</sup>
Key coat	In accordance with Table 1
Finishing coat	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 <sup>-2</sup> ]	After 24 h [kg.m <sup>-2</sup> ]
EWI-225 Premium Basecoat	0.02	0.20

#### Table 9

Water absorption of the complete rendering							
EWIS configuration requirements:			After 1 h	After 24 h			
Base coat	Finishing coat	Key coat	[kg.m <sup>-2</sup> ] [kg.m <sup>-2</sup> ]				
	EWI Pro Dash Receiver with pebble dash aggregate		0.78	1.07			
	EWI-077 Nano Drex Silicone Render (all grain sizes)		0.04	0.37			
Premium Basecoat	EWI-075 Silicone Render (all grain sizes)	In accordance with Table 1	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			

#### 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 – 14

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/m² after 24 hours.

#### Applies to finishing coat 1:

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 EWIS,
- Detachment of the finishing coat
- Width of cracks bigger than 0.2 mm allowing water penetration to the thermal insulating layer.

# 3.3.4 Water vapour permeability

# Table 12

Water vapour permeability of the rendering system (equivalent air thickness s <sub>d</sub> )						
EWIS configuration re	Equivalent air thickness					
Base coat	Base coat Finishing coat Key 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			
	EWI-077 Nano Drex Silicone Render Maximum thickness 3 mm		0.4			
	EWI-075 Silicone Render Maximum thickness 3 mm		0.4			
EWI-225 Premium Basecoat Maximum thickness 10 mm	EWI-078 Brick Effect Stencil Render Maximum thickness 3 mm	In accordance with Table 1	0.3			
	EWI-070 Wood Effect Render (Moulding) Maximum thickness 2 mm		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 13

Bond strength between base coat (mortar or paste) and insulation product							
EWIS configuration requirements:		Conditioning	Rupture	Bond strength [MPa]			
Insulation product	Base coat	before the test	type	Minimum	Mean		
Insulation product 1	EWI-225 Premium Basecoat	Initial state (dry condition)	In the insulation product	0.126	0.135		
Insulation product 1	EWI-225 Premium Basecoat	After hygrothermal cycles	In between the insulation product and the base coat	0.128	0.137		

# 3.4.2 Bond strength between: adhesive and substrate (external board) (EAD 040089-00-0404 - clause 2.2.3.2)

Table 14

Table 14						
Bond strength between adhesive (mortar or paste) and substrate (external boards)						
EWIS configura	tion requirements:	Conditioning	Duntura	Bond strength [MPa]		
Substrate	Adhesive (and tested thickness)	before the test	Rupture type	Minimum	Mean	
	EWI-220 EPS	Initial state (dry condition)	In the adhesive	0.379	0.409	
Plywood according to		7 days at 23 ± 2°C and 95 ± 5%	In the adhesive	0.185	0.255	
according to EN 636 (21 mm)	Basecoat (5 mm)	7 days at 23 ± 2°C and 95 ± 5% and 7 days of drying at 23 ± 2°C and 50 ± 5%	In the adhesive	0.358	0.392	

Table 14 (continued)

Bond strength between adhesive (mortar or paste) and substrate (external boards)						
EWIS configura	EWIS configuration requirements:		_	Bond strength [MPa]		
Substrate	Adhesive (and tested thickness)	Conditioning before the test	Rupture type	Minimum	Mean	
		Initial state (dry condition)	In between the substrate and the adhesive	0.395	0.455	
Fiber-cement flat sheets	EWI-220 EPS	7 days at 23 ± 2°C and 95 ± 5%	In the adhesive	0.272	0.304	
according to EN 12467+A2 (12 mm)	Basecoat (5 mm)	7 days at 23 ± 2°C and 95 ± 5% and 7 days of drying at 23 ± 2°C and 50 ± 5%	In the substrate	0.351	0.455	
OSD boards	ing to 300 mm) h yer of 310	Initial state (dry condition)	In between the key coat and the adhesive	0.030	0.050	
OSB boards according to EN 300 (12.5 mm)		7 days at 23 ± 2°C and 95 ± 5%	In between the key coat and the adhesive	0.009	0.016	
with one layer of EWI-310 Universal Primer		7 days at 23 ± 2°C and 95 ± 5% and 7 days of drying at 23 ± 2°C and 50 ± 5%	In between the key coat and the adhesive	0.024	0.042	
Concrete (40 mm)	EWI-220 EPS Basecoat (5 mm)	2 days immersion in water and 2 hours of drying at 23 ± 2°C and 50 ± 5%	In the adhesive	0.251	0.280	

# 3.4.3 Bond strength between: adhesive and insulation product

## Table 15

Table 15							
Bond strength between adhesive (mortar or paste) and insulation product							
EWIS configuration requirements:		Conditioning	Rupture	Bond strength [MPa]			
Insulation product	Adhesive (and tested thickness)	before the test	type	Minimum	Mean		
Insulation product EWI-220 EF		Initial state (dry condition)	In between the adhesive and the thermal insulation product	0.111	0.126		
	EWI-220 EPS Basecoat (5 mm)	2 days immersion in water and 2 hours of drying	In between the adhesive and the thermal insulation product	0.106	0.109		
		2 days immersion in water and minimum 7 days of drying	In the thermal insulation product	0.128	0.131		

# 3.4.4 Wind load resistance – pull-through tests of fixings

Table 16

Table 16					
	Wind load	I resistance of E	WIS		
		sed by means of ugh tests of fixin			
EWIS configu	ration requirements:	Tested	Test	Failure load per fixing [kN]	
Insulation product	Fixing	position	conditions	Individual	Mean
Insulation product 1 (EPS) Thickness: ≥ 40 mm Tensile strength in dry condition: ≥ 120 kPa	RAWLPLUG R-WW-T with RAWLPLUG KC	Rpanel	Dry condition 23°C and 50% relative humidity of air	0.348 0.356 0.333 0.370 0.367	0.355
Load / displacement	graph:				
350,0 300,0 250,0 250,0 150,0 100,0 50,0					
0,0	2,0 4,0	6,0 Prodlouzeni (mm	8,0	10,0	12,0
— Test 1 — T	est 2 — Test 3 — Test 4 —	- Test 5	· <u>v</u>		

	Wind load	resistance of E	WIS		
		ed by means of ugh tests of fixin			
EWIS configura	ation requirements:	Tested	Test	Failure load [kN	
Insulation product	Fixing	position	conditions	Individual	Mean
Insulation product 1 (EPS) Thickness: ≥ 40 mm Tensile strength in dry condition: ≥ 120 kPa	RAWLPLUG R-WW-T with RAWLPLUG KC washer (Ø 60 mm)	Rjoint	Dry condition 23°C and 50% relative humidity of air	0.360 0.349 0.338 0.349 0.346	0.348
Load / displacement	graph:				_
350,0 300,0 250,0 200,0 80 150,0 100,0					
0,0	2,0 4,0 6,0	8,0 10	5 4 14 P 200 S	14,0 16,0	
		Prodlouzeni (mm	1)		

Table 18

Table 10							
Wind load resistance of EWIS							
		ed by means of					
EWIS configura	Tested	Test	Failure load [kN				
Insulation product	Fixing	position	conditions	Individual	Mean		
Insulation product  1  (EPS)  Thickness:  ≥ 40 mm  Tensile strength in dry condition:  ≥ 120 kPa	Wkret-met Klimas KMH with Wkret-met Klimas TDP-060 washer	Rpanel	Dry condition 23°C and 50% relative humidity of air	0.369 0.356 0.352 0.365 0.337	0.356		

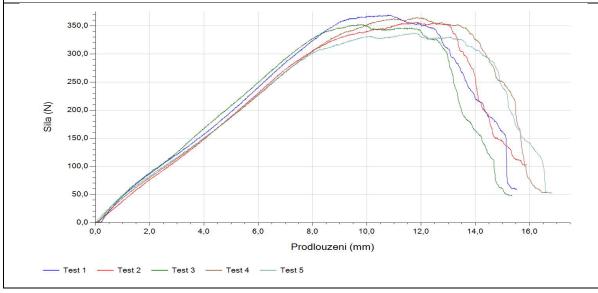


Table 19

Table 13								
Wind load resistance of EWIS								
	Assessed by means of: pull-through tests of fixings							
EWIS configura	Tested	Test	Failure load [kN					
Insulation product	Fixing	position	conditions	Individual	Mean			
Insulation product  1  (EPS)  Thickness:  ≥ 40 mm  Tensile strength in dry condition:  ≥ 120 kPa	Wkret-met Klimas KMH with Wkret-met Klimas TDP-060 washer	Rjoint	Dry condition 23°C and 50% relative humidity of air	0.331 0.345 0.352 0.335 0.344	0.341			

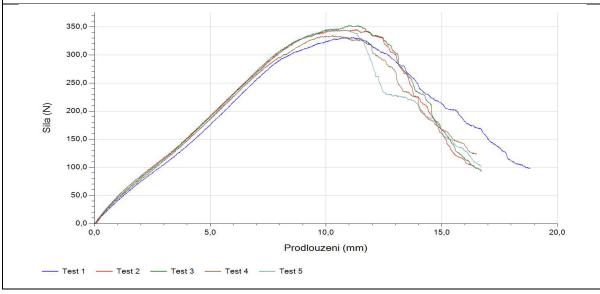


Table 20

Table 20								
	Wind load resistance of EWIS							
	Assessed by means of: pull-through tests of fixings							
EWIS configura	Tested	Test	Failure load [kN					
Insulation product	Fixing	position	conditions	Individual	Mean			
Insulation product  1  (EPS)  Thickness:  ≥ 50 mm  Tensile strength in dry condition:  ≥ 144 kPa	RAWLPLUG WX-T with RAWLPLUG KC washer (Ø 60 mm)	Rpanel	Dry condition 23°C and 50% relative humidity of air	0.446 0.461 0.459 0.492 0.462	0.464			

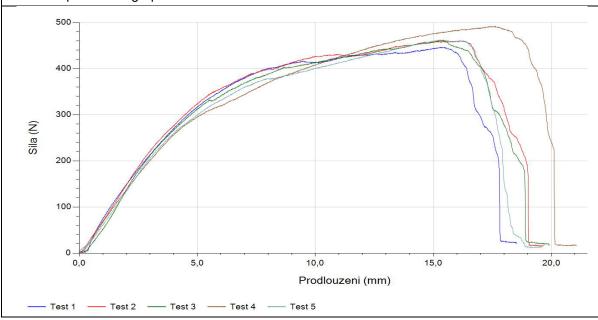


Table 21

Table 21							
	Wind load resistance of EWIS						
		ed by means of					
EWIS configura	Tested	Test	Failure load [kN				
Insulation product	Fixing	position	conditions	Individual	Mean		
Insulation product  1  (EPS)  Thickness:  ≥ 50 mm  Tensile strength in  dry condition:  ≥ 144 kPa	RAWLPLUG WX-T with RAWLPLUG KC washer (Ø 60 mm)	Rjoint	Dry condition 23°C and 50% relative humidity of air	0.427 0.425 0.435 0.427 0.401	0.423		

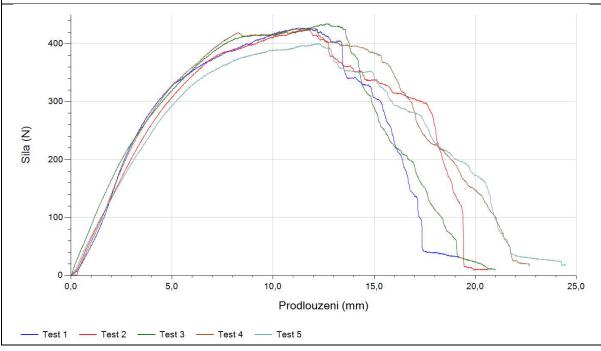


Table 22

I able 22								
Wind load resistance of EWIS								
Assessed by means of: pull-through tests of fixings								
EWIS configura	ation requirements:	Failure load per						
Insulation product	Fixing	position		Individual	Mean			
Insulation product  1  (EPS)  Thickness:  ≥ 50 mm  Tensile strength in dry condition:  ≥ 144 kPa	RAWLPLUG WX-T with RAWLPLUG KCX- 105 washer	Rpanel	Dry condition 23°C and 50% relative humidity of air	0.444 0.424 0.457 0.454 0.441	0.444			

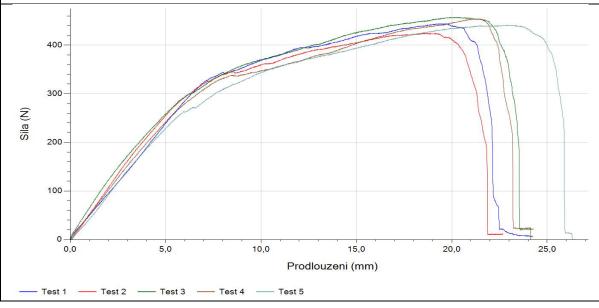
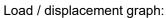


Table 23

Wind load resistance of EWIS									
Assessed by means of: pull-through tests of fixings									
EWIS configuration requirements:		Test	Failure load [kN						
Fixing	position	conditions	Individual	Mean					
RAWLPLUG WX-T with RAWLPLUG KCX- 105 washer	Rjoint	Dry condition 23°C and 50% relative humidity of air	0.403 0.397 0.422 0.429 0.410	0.412					
	Assess pull-throusion requirements:  Fixing  RAWLPLUG WX-T with RAWLPLUG KCX-	Assessed by means of pull-through tests of fixing ion requirements:  Fixing  RAWLPLUG WX-T with RAWLPLUG KCX-	Assessed by means of: pull-through tests of fixings  tion requirements:  Tested position  Test conditions  Test conditions  Test conditions  Test conditions  Test conditions	Assessed by means of: pull-through tests of fixings  tion requirements:  Tested position  Test conditions  Individual  Test condition  Individual  Test condition  Individual  Test condition  Individual  Individual					



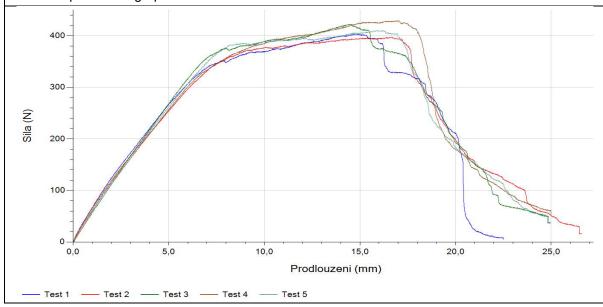


Table 24

I able 24									
Wind load resistance of EWIS									
Assessed by means of: pull-through tests of fixings									
EWIS configura	tion requirements:	Tested Test	Test	Failure load per fi					
Insulation product	Fixing	position	conditions	Individual	Mean				
Insulation product  1  (EPS)  Thickness:  ≥ 50 mm  Tensile strength in  dry condition:  ≥ 144 kPa	Wkret-met Klimas KMWHT with Klimas TD-060 washer	Rpanel	Dry condition 23°C and 50% relative humidity of air	0.502 0.491 0.483 0.487 0.491	0.491				

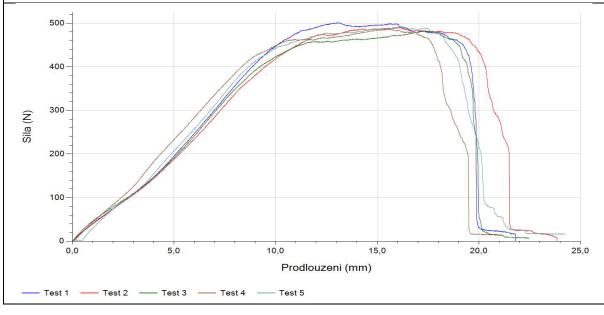


Table 25

I able 25									
Wind load resistance of EWIS									
Assessed by means of: pull-through tests of fixings									
EWIS configura	EWIS configuration requirements:		Test	Failure load [kN					
Insulation product	Fixing	Tested position	conditions	Individual	Mean				
Insulation product 1 (EPS) Thickness: ≥ 50 mm Tensile strength in dry condition: ≥ 144 kPa	Wkret-met Klimas KMWHT with Klimas TD-060 washer	Rjoint	Dry condition 23°C and 50% relative humidity of air	0.478 0.470 0.443 0.428 0.447	0.453				
Lood / diamle compant	avanh.								



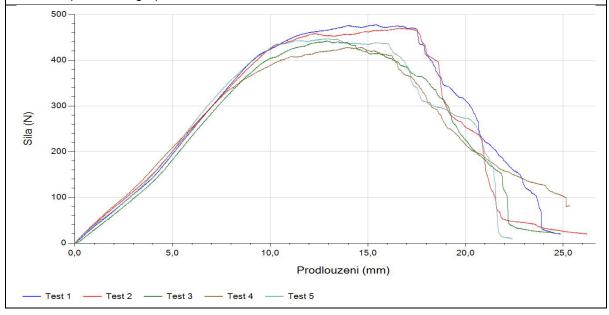


Table 26

Table 26								
Wind load resistance of EWIS								
Assessed by means of: pull-through tests of fixings								
EWIS configura	ition requirements:	Tested	Test	Failure load [kN				
Insulation product	Fixing	position	conditions	Individual	Mean			
Insulation product  1  (EPS)  Thickness:  ≥ 50 mm  Tensile strength in dry condition:  ≥ 144 kPa	Ejot TKR 4.8 with Ejot SBH-T 65/25 washer	R <sub>panel</sub>	Dry condition 23°C and 50% relative humidity of air	0.491 0.523 0.472 0.533 0.473	0.498			

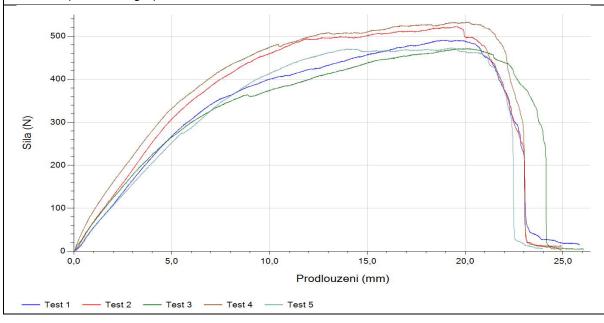


Table 27

Table 21									
Wind load resistance of EWIS									
Assessed by means of: pull-through tests of fixings									
EWIS configura	ation requirements:	Tested	Failure load per Test [kN]						
Insulation product	Fixing	position	ition conditions	Individual	Mean				
Insulation product  1  (EPS)  Thickness:  ≥ 50 mm  Tensile strength in  dry condition:  ≥ 144 kPa	Ejot TKR 4.8 with Ejot SBH-T 65/25 washer	Rjoint	Dry condition 23°C and 50% relative humidity of air	0.469 0.443 0.424 0.427 0.449	0.424				

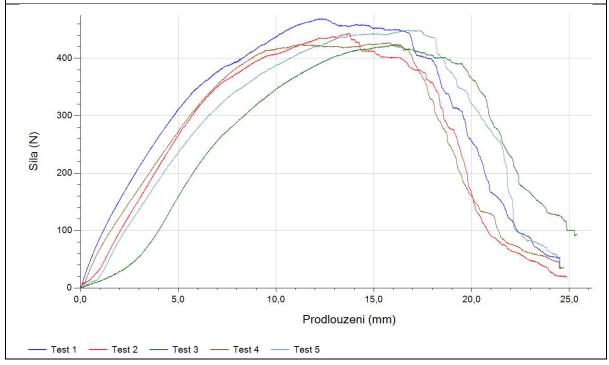


Table 28

Table 20									
Wind load resistance of EWIS									
	Assessed by means of: pull-through tests of fixings								
EWIS configura	ation requirements:	Failure load		Failure load per fixing [kN]					
Insulation product	Fixing		conditions	Individual	Mean				
Insulation product  1  (EPS)  Thickness:  ≥ 50 mm  Tensile strength in dry condition:  ≥ 144 kPa	Ejotherm STR H	Rpanel	Dry condition 23°C and 50% relative humidity of air	0.478 0.508 0.495 0.509 0.425	0.483				

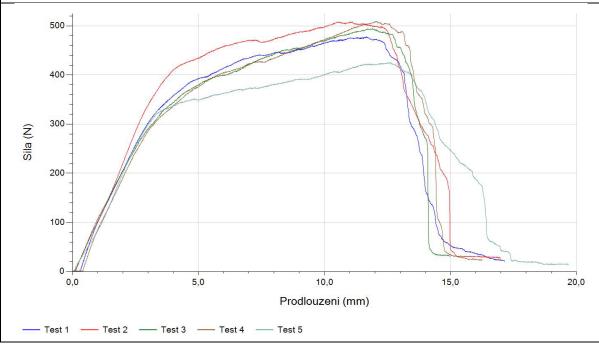
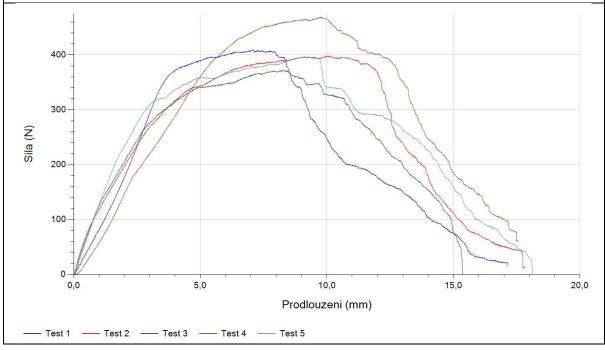


Table 29

Table 29								
Wind load resistance of EWIS								
Assessed by means of: pull-through tests of fixings								
EWIS configura	ation requirements:	Tested	Test	Failure load [kN				
Insulation product	Fixing	position	conditions	Individual	Mean			
Insulation product  1  (EPS)  Thickness:  ≥ 50 mm  Tensile strength in  dry condition:  ≥ 144 kPa	Ejotherm STR H	Rjoint	Dry condition 23°C and 50% relative humidity of air	0.410 0.398 0.372 0.469 0.396	0.409			



# Impact resistance

Table 30

Impact resistance (products tested after hygrothermal cycles on the rig)									
EWIS	configuration requirer	nents:	-	Maximum					
Base coat	Finishing coat	Reinforcement and key coat	Cracks	impact diameter [mm]					
	EWI Pro Dash Receiver with pebble dash aggregate		No – 3 J No – 10 J	None – 3 J None – 10 J					
EWI-225 Premium	EWI-077 Nano Drex Silicone Render (all grain sizes)	Reinforcement: all of Table 1 in	Yes – 3 J Yes – 10 J	34 – 3 J 59 – 10 J					
Basecoat (4 mm)	EWI-075 Silicone Render (all grain sizes)	one layer Key coat and decorative coat in	Yes – 3 J Yes – 10 J	34 – 3 J 74 – 10 J					
	EWI-078 Brick Effect Stencil Render (all grain sizes)	accordance with Table 1	Yes – 3 J Yes – 10 J	26 – 3 J 77 – 10 J					
	EWI-070 Wood Effect Render (Moulding)		Yes – 3 J Yes – 10 J	32 – 3 J 66 – 10 J					

Table 31

Table 31									
Impact resistance									
(products tested after immersion in water)									
EWIS	configuration requirer	nents:		Maximum					
Base coat	Finishing coat	Reinforcement and key coat	Cracks	impact diameter [mm]					
	EWI Pro Dash Receiver with pebble dash aggregate		No – 3 J No – 10 J	None – 3 J None – 10 J					
EWI-225 Premium	EWI-077 Nano Drex Silicone Render (all grain sizes)	Reinforcement: all of Table 1 in two layers	No – 3 J Yes – 10 J	None – 3 J 28 – 10 J					
Basecoat (6 mm)	EWI-075 Silicone Render (all grain sizes)	Key coat and decorative coat in accordance with	No – 3 J Yes – 10 J	None – 3 J 53 – 10 J					
	EWI-078 Brick Effect Stencil Render (all grain sizes)	Table 1	Yes – 3 J Yes – 10 J	20 – 3 J 50 – 10 J					
	EWI-070 Wood Effect Render (Moulding)		Yes – 3 J Yes – 10 J	30 – 3 J 40 – 10 J					

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

Table 32

Table 32	Bond st	rength after age	eing of finishing	coat tested in the	e rig									
E,	WIS configurati	on requiremen	ts:		Bond st	_								
Insulation product	Base coat	Finishing coat	Key coat Decorative coat	Rupture type	Individual	Mean								
				In the insulation product	0.127									
		EWI-075		In the insulation product	0.119									
		Silicone Render (all grain	In accordance with Table 1	In the insulation product	0.122	0.122								
	sizes)	sizes)		In the insulation product	0.123									
				In the insulation product	0.120									
		EWI-225 Premium Basecoat  EWI-078 Brick Effect Stencil Render (all grain sizes)	In the insulation product	0.104										
			Brick Effect Stencil Render (all grain					In the insulation product	0.100					
Insulation product 1	Premium							accordance	In the insulation product	0.124	0.105			
										In the insulation product	0.105			
				In the insulation product	0.092									
				In the insulation product	0.120									
		EWI-070	L	In the insulation product	0.113									
		Wood Effect Render (Moulding)	In accordance with Table 1	In the insulation product	0.126	0.114								
				In the insulation product	0.131									
				In the insulation product	0.082									

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

Table 33

Bond strength after ageing of finishing coat  NOT tested in the rig									
EWIS configuration requirements:				Bond stre	_				
Insulation product	Base coat	Finishing coat	Reinforcement and key coat	type	Rupture type	Individual	Mean		
				In the insulation product	0.125				
	EWI Pro Dash		In the insulation product	0.124					
		Receiver with pebble	In accordance with Table 1	In the insulation product	0.129	0.126			
		-··· ·		In the insulation product	0.122				
Insulation	EWI-225 Premium			In the insulation product	0.128				
product 1	Basecoat			In the insulation product	0.134				
		EWI-077 Nano Drex		In the insulation product	0.136				
		Silicone Render	In accordance with Table 1	In the insulation product	0.137	0.133			
		(all grain sizes)		In the insulation product	0.126				
		0,200)		In the insulation product	0.133				

Table 34

l able 34								
Bond strength of finishing coat after freeze-thaw cycles								
E	WIS configura	ation requirem	Demotros	Bond strength [MPa]				
Insulation product	Base coat	Finishing coat	Reinforcement and key coat	Rupture type	Individual	Mean		
5M B	EMI Des		In the insulation product	0.124				
	Insulation product 1  EWI-225 Premium Basecoat Pebble dash	Dash	In the insulation product	0.103				
		In accordance with Table 1	In the insulation product	0.122	0.118			
l · · · · · · · · · · · · · · · · · · ·			In the insulation product	0.128				
	aggregate	In the insulation product	0.112					

# 3.4.8 Pull-out strength of mechanical fixings

Table 35

	Pull-out strength of screws							
Type of board substrate	Type of screw	Maximum pull-out force [N]	Pull-out parameter (by EN 1382) [MPa]					
Substrate		Mean	Mean					
	RAWLPLUG R-WW-50T90 5.0 × 90 mm	4737	45.1					
	Wkret-met Klimas KMH 6.0 × 100 mm	4919	39.0					
Plywood according to EN 636	RAWLPLUG WX-48T 4.8 × 140 mm	3218	33.5					
(≥ 21 mm)	Wkret-met Klimas KMWHT 2763 6.0 × 140 mm		23.0					
	Ejot TKR 4.8 × 120 mm		31.7					
	Ejotherm STR H 6.0 × 140 mm		23.1					
Fiber-cement flat sheets according to	RAWLPLUG R-WW-50T90 5.0 × 90 mm	945	15.8					
EN 12467+A2 (≥ 12 mm)	Wkret-met Klimas		13.3					
	RAWLPLUG WX-48T 4.8 × 140 mm	669	11.2					
Fiber-cement flat sheets according to	Wkret-met Klimas KMWHT 574 6.0 × 140 mm		7.7					
EN 12467+A2 (≥ 12.5 mm)	Ejot TKR 4.8 × 120 mm	685	11.4					
	Ejotherm STR H 6.0 × 140 mm	818	10.9					

Table 35 (continued)

Pull-out strength of screws							
Type of board	Type of screw	Maximum pull-out force [N]	Pull-out parameter (by EN 1382) [MPa]				
substrate		Mean	Mean				
	RAWLPLUG R-WW-50T90 5.0 × 90 mm	No performar	nce assessed				
	Wkret-met Klimas KMH 6.0 × 100 mm	No performance assessed					
OSB boards	RAWLPLUG WX-48T 4.8 × 140 mm		16.4				
according to EN 300 (≥ 12.5 mm)	Wkret-met Klimas KMWHT 6.0 × 140 mm	700	9.3				
	Ejot TKR 4.8 × 120 mm	1013	16.9				
	Ejotherm STR H 6.0 × 140 mm	1091	14.6				

# 3.4.9 Base coat: performances

Table 36

Hardened base coat: Static modulus of elasticity, tensile strength and elongation at break							
EWIS configuration requirements:	Conditioning before	Static modulus of elasticity [MPa]	Tensile strength [MPa]	Elongation at break [%]			
Base coat	the test	Mean	Mean	Mean			
EWI-225 Premium	Initial state (dry condition)	1584	1.15	0.07			
Basecoat	After hygrothermal cycles	2310	2.35	0.10			

## 3.4.10 Rendering system: tensile strength

Table 37

Table 37	Table 37						
Render strip tensile test							
EWIS configuration requirements:		Wrk of the patterned side of the test specimen [mm]		W <sub>rk</sub> of the flat side of the test specimen [mm]			
Base coat	Reinforcement	Warp direction	Weft direction	Warp direction	Weft direction		
	1 × EWI Pro Fibreglass Mesh FGM- 165	0.14	0.18	0.18	0.19		
EWI-225 Premium Basecoat	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		

# 3.5. Protection against noise (BWR 5)

Not applicable

# 3.6. Energy economy and heat retention (BWR 6)

See Annex 1

# 3.7. Sustainable use of natural resources (BWR 7)

No performance declared

# 4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied

#### 4.1. System of assessment and verification of constancy of performance

According to UKAD No. 040089-00-0404 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 1

Product Intended uses		Class(es) (reaction to fire)	Systems of assessment and verification of constancy of performance
External thermal insulation composite system/kits with	in automal wall auhiat	$A(^1) - B(^1) - C(^1)$	1
	in external wall subject to fire regulations	$\mathbf{A}(^2) - \mathbf{B}(^2) - \mathbf{C}(^2)$ $\mathbf{A} \text{ (without testing)}$ $\mathbf{D} - \mathbf{E} - \mathbf{F}$	2+
rendering (EWIS)	in external wall not subject to fire regulations	any	2+

 <sup>(1)</sup> 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: 24 October 2025

Hardy Giesler Chief Executive Officer



# British Board of Agrément, 1<sup>st</sup> Floor Building 3,

I<sup>st</sup> Floor Building 3 Hatters Lane, Croxley Park Watford WD18 8YG

#### **ANNEX 1**

#### Thermal transmittance of EWIS

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

U<sub>c</sub> 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.

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

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

R<sub>insulation</sub> = insulation thickness / thermal conductivity coefficient [m<sup>2</sup>·K/W]

 $R_{render} = 0.02 [m^2 \cdot K/W]$ 

R<sub>substrate</sub> thermal resistance of the substrate wall [m<sup>2</sup>·K/W].

R<sub>se</sub> external surface thermal resistance [m<sup>2</sup>·K/W].

R<sub>si</sub> internal surface thermal resistance [m<sup>2</sup>·K/W].

$$\Delta U = \chi_P \times n + \sum \Psi i \times l_i \; [m^2 \cdot K/W]$$
 Where: 
$$\chi_P \; \text{is point thermal transmittance value of the anchor [W/K]}. \; \text{Specified by the ETA}$$

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<sup>2</sup>. In case n is more than 16, the U<sub>c</sub> calculation does not apply.

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

l<sub>i</sub> is length of the profile per m<sup>2</sup>.

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<sup>2</sup> the declared  $\chi_P$  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 <sub>D</sub> :	Maximum 0.065 W.m <sup>-1</sup> ·K <sup>-1</sup>				
Short-term water absorption:	Maximum 1.0 kg.m <sup>-2</sup>				
Length:	L(2)				
Width:	W(1)				
Thickness:	T(1)				
Squareness in the direction of length and width:	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:	Allowed				
Composite insulation product:	No				
Multi-layered insulation product	No				
Facing:	No				
Coating:	No				
Maximum thermal conductivity coefficient λ <sub>D</sub> :	Maximum 0.065 W/(m·K)				
Short-term water absorption:	Maximum 1.0 kg.m <sup>-2</sup>				
Length:	L(2)				
Width:	W(2)				
Thickness:	T(2)				
Squareness in the direction of length and width:	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 Plustherm70					
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 $\lambda_D$ :	Maximum 0.065 W/(m·K)				
Short-term water absorption:	Maximum 1.0 kg.m <sup>-2</sup>				
Length:	L(2)				
Width:	W(2)				
Thickness:	T(2)				
Squareness in the direction of length and width:	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 – screws

Metal screws for fixing	Metal screws for fixing external thermal insulation composite systems with rendering						ring	
Specific type(s)								
Specification	Name	Screw diameter [mm]	M <sub>y,k</sub> [N.mm]	f <sub>ax,k</sub> [MPa]	f <sub>head,k</sub> [MPa]	f <sub>tens,k</sub> [kN]	f <sub>tor,k</sub> [N.mm]	Additional plate
EN 14592 : 2008 + A1 : 2012	Wkret- met Klimas KMH	≥ 6	14815	12.54	21.06	10.12	9.57	Klimas TD- 060 or Klimas TDP-060

Metal screws for fixi	Metal screws for fixing external thermal insulation composite systems with rendering						
Specific type(s)							
Specification	Name	Screw diameter [mm]	Additional plate				
ETA-09/0346	RAWLPLUG R-WW-T	≥ 5	RAWLPLUG KC				
29/06/2018	RAWLPLUG WX-T	≥ 5	RAWLPLUG KC or RAWLPLUG KCX-105				
ETA-18/0817 07/06/2023	Wkret-met Klimas KMWHT	≥ 6	Klimas TD-060 or Klimas TDP-060				
ETA-07/0013 04/04/2022	Ejot TKR 4.8	≥ 5	Ejot SBH-T 65/25				
ETA-20/0670 21/03/2024	Ejotherm STR H	≥ 6	Not to be used (plate is already part of the screw)				

# 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 <sup>-2</sup>				
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 <sup>-2</sup>
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 <sup>-2</sup>
Mesh size:	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 <sup>-2</sup>
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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