



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

UK Technical Assessment	UKTA-0836-22/6214 of 02/12/2022
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	ATLAS
Product family to which the construction product belongs:	Product Code Area: 04 External Thermal Insulation Composite System with rendering (ETICS)
Manufacturer:	Atlas sp. z o.o. ul. Jana Kilińskiego 2 91-421 Łódź Poland
Manufacturing plant(s):	Atlas sp. z o.o. Zakład Produkcyjny w Piotrkowie Trybunalskim ul. 18 Stycznia 28 97-300 Piotrków Trybunalski Poland
This UK Technical Assessment contains:	16 pages including 2 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 on the basis of:	UKAD 040083-00-0404: <i>External Thermal Insulation Composite Systems with Rendering</i>

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1 Technical description of the product

External Wall Insulation System ATLAS called EWIS in the following text is a kit designed and installed in accordance with the manufacturer design and installation instructions.

The EWIS comprises the following components, which are factory-produced by the manufacturer or component suppliers. EWIS is constructed on site from these components. The EWIS manufacturer is ultimately responsible for EWIS.

The EWIS comprises a prefabricated insulation product manufactured from expanded polystyrene (EPS) to be bonded onto a wall. The methods of fixing and the relevant components are specified in the table below. The insulation product is faced with a rendering system consisting of one or more layers (site applied), one of which contains reinforcing mesh. The rendering is applied directly to the insulation panels, without any air gap or disconnecting layer.

The EWIS also includes ancillary materials. They shall be used in accordance with the manufacturer's instruction.

Table 1

Components		Coverage (kg/m ²)	Thickness (mm)
Insulation material with associated methods of fixing	Bonded EWIS: fully bonded or partially bonded (bonded surface shall be at least 40%).		
	<ul style="list-style-type: none"> Insulation product: factory prefabricated standard expanded polystyrene (EPS) according to EN 13163 – see Annex 1 for product characteristics factory prefabricated elastified expanded polystyrene (EPS) according to EN 13163 – see Annex 1 for product characteristics 	-	≤ 250
	<ul style="list-style-type: none"> Adhesives: ATLAS STOPTER K-20 cement based powder requiring addition of 0.20 to 0.22 l/kg of water ATLAS HOTER S cement based powder requiring addition of 0.20 to 0.22 l/kg of water ATLAS HOTER U cement based powder requiring addition of 0.20 to 0.22 l/kg of water 	4.0 to 5.0 ¹ (powder) 4.0 to 5.0 ¹ (powder) 4.0 to 5.0 ¹ (powder)	- - -
	<ul style="list-style-type: none"> ATLAS STOPTER K-20 cement based powder requiring addition of 0.20 to 0.22 l/kg of water composition: sand, cement, mineral fillers, synthetic resin, additives ATLAS HOTER U cement based powder requiring addition of 0.20 to 0.22 l/kg of water composition: sand, cement, mineral fillers, synthetic resin, additives 	3.0 to 3.5 (powder) 3.0 to 3.5 (powder)	2.0 to 3.0 2.0 to 3.0
Base coats			
Glass fibre meshes	<ul style="list-style-type: none"> Standard and reinforced glass fibre meshes see Annex 2 for product characteristics 	-	-
Key coats	<ul style="list-style-type: none"> ATLAS CERPLAST composition: water, styroacrylat binder, mineral fillers, additives ready to use liquid to be used with ATLAS CERMIT, Tynk akrylowy ATLAS ATLAS SILKON ANX composition: water, styroacrylat binder, silicone resin, mineral fillers, additives ready to use liquid to be used with ATLAS SILKON, Tynk akrylowo-silikonowy ATLAS, Tynk silikonowy ATLAS, Tynk silikonowo-silikatowy ATLAS 	0.25 to 0.35 0.25 to 0.35	- -

¹ refers to fully bonded system

Finishing coats	<ul style="list-style-type: none"> • Mineral finishing coats composition: sand, cement, mineral fillers, additives 			
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> • ATLAS CERMIT mineral powder requiring addition of 0.18 to 0.26 l/kg of water; particle size 1.0; 2.0; 2.5; 3.0 mm; grained or ribbed structure 	2.5 to 4.5	regulated by particle size	
	<ul style="list-style-type: none"> • Acrylic finishing coats composition: water, acryl-copolymer binder, sand, mineral fillers, additives ready to use paste 			
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> • ATLAS CERMIT acrylic/Atlas CERMIT N-100 particle size 1.5; 2.0; 3.0 mm; grained structure 	2.5 to 4.5	regulated by particle size	
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> • Tynk akrylowy ATLAS / ATLAS acrylic render particle size 1.5; 2.0 mm; grained structure 	2.5 to 5.0	regulated by particle size	
	<ul style="list-style-type: none"> • Acrylic-silicone finishing coats composition: water, acryl-copolymer binder, silicone resin, sand, mineral fillers, additives ready to use paste 			
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> • Tynk akrylowo-silikonowy ATLAS/ATLAS acrylic-silicone render particle size 1.5; 2.0 mm; grained structure 	2.5 to 5.5	regulated by particle size	
	<ul style="list-style-type: none"> • Silicone finishing coats composition: water, silicone resin, sand, mineral fillers, additives ready to use paste 			
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> • ATLAS SILKON BA particle size 1.0, 1.5; 2.0 mm; grained or ribbed structure 	2.5 to 3.5	regulated by particle size	
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> • Tynk silikonowy ATLAS / ATLAS silicone render particle size 1.5; 2.0 mm; grained structure 	2.5 to 3.5	regulated by particle size	
	<ul style="list-style-type: none"> • Silicate finishing coats composition: water, acryl-copolymer binder, sand, mineral fillers, additives ready to use paste 			
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> • Tynk silikatowy ATLAS /ATLAS silicate render particle size 1.5; 2.0 mm; grained structure 	2.5 to 5.5	regulated by particle size	
<ul style="list-style-type: none"> • Silicone-silicate finishing coats composition: water, silicate binder, silicone binder, sand, mineral fillers, additives ready to use paste 				
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render particle size 1.5 mm; 2.0 mm; grained structure 	2.5 to 3.5	regulated by particle size		
Decorative coats (paints)	ready to use liquids:			
	<ul style="list-style-type: none"> • ATLAS SALTA E to be used optionally with all finishing coats composition: acryl-copolymer binder, pigments, additives 	0.125 to 0.250*	-	
	<ul style="list-style-type: none"> • ATLAS SALTA S to be used optionally with all finishing coats composition: silicate binder, pigments, additives 	0.200 to 0.280*	-	
	<ul style="list-style-type: none"> • ATLAS SALTA to be used optionally with all finishing coats composition: silicone resin, pigments, additives 	0.125 to 0.250*	-	
	<ul style="list-style-type: none"> • ATLAS SALTA E to be used optionally with mineral and acrylic finishing coats composition: acryl-copolymer binder, pigments, additives 	0.125 to 0.250*	-	
	<ul style="list-style-type: none"> • ATLAS SALTA N to be used optionally with Tynk akrylowy ATLAS/ATLAS acrylic render Tynk akrylowo-silikonowy ATLAS/ATLAS acrylic-silicone render/ ATLAS hybrid render; Tynk silikonowy ATLAS/ATLAS silicone render; Tynk silikonowo-silikatowy ATLAS/Atlas silicone-silicate render and ATLAS CERMIT mineral and acrylic 	0.125 to 0.250*	-	
	Ancillary materials	Remain under EWIS manufacturer responsibility. Anchors as supplementary mechanical fixings covered by UKTA issued according to UKAD 330196-00-0604.		

* decorative coats coverage in dm³/m²

2 Specification of the intended use(s) in accordance with the applicable UK Assessment

Document (hereinafter UKAD)

This EWIS is intended to be used as external thermal insulation of buildings' walls constructed of masonry (bricks, blocks, stones, etc.) or concrete (cast on site or as prefabricated panels) with or without rendering.

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

The EWIS is made of non-loadbearing construction elements. It does not contribute directly to the stability of the wall on which it is installed, but it can contribute to durability by providing enhanced protection from the effects of weathering.

The EWIS is not intended to ensure the airtightness of the building structure.

The provisions made in this UK Technical Assessment are based on an assumed working life of the EWIS of at least 25 years, provided that the conditions for the packaging, transport, storage, installation as well as appropriate use, maintenance and repair are met. The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer or the Technical Assessment Body but should only be regarded as a means for choosing the appropriate products in relation to the expected economically reasonable working life of the works.

Design, installation, maintenance, and repair shall take into account principles given in the relevant clause of UKAD 040083-00-0404.

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

Performances of the EWIS as described in this clause are valid provided that the components of the kit comply with Annexes 1 and 2.

3.1 Mechanical resistance and stability (BWR 1)

Not relevant

3.2 Safety in case of fire (BWR 2)

Table 2

Configuration	Maximum declared organic content	Declared flame retardant content	Reaction to fire class according to EN 13501-1
EWIS ATLAS with EPS boards (reaction to fire class E) and rendering system:			
<ul style="list-style-type: none"> Adhesives: ATLAS STOPTER K-20, ATLAS HOTER S, ATLAS HOTER U Meshes: ATLAS 150, ATLAS 165, R 117 A 101 / AKE 145 / VERTEX 145, SSA 1363-150 SM0.5 Base coats: ATLAS STOPTER K-20, ATLAS HOTER U Finishing coats (with relevant key coats): ATLAS acrylic render/ATLAS acrylic-silicone render/ATLAS silicone hybrid render/ATLAS silicone render/ATLAS silicone-silicate render Decorative coat : ATLAS SALTA N (with primer) 	<p>≤ 3.5%</p> <p>≤ 10.57%</p> <p>≤ 22.7%</p>	0% (no flame retardant)	C – s2, d0
EWIS ATLAS with EPS boards (reaction to fire class E) and rendering system:			
<ul style="list-style-type: none"> Adhesives: ATLAS STOPTER K-20, ATLAS HOTER S, ATLAS HOTER U Meshes: R 117 A 101 / AKE 145 / VERTEX 145, SSA 1363 SM(100) Base coats: ATLAS STOPTER K-20, ATLAS HOTER U Finishing coats: ATLAS CERMIT mineral (with key coat ATLAS CERPLAST), ATLAS SILKAT Decorative coats: ATLAS SALTA E, S, N, ATLAS SALTA (with relevant primer) 	<p>≤ 3.5%</p> <p>≤ 4.9%</p> <p>≤ 19.9%</p>	0% (no flame retardant)	B – s1, d0
EWIS ATLAS with EPS boards (reaction to fire class E) and rendering system:			
<ul style="list-style-type: none"> Adhesives: ATLAS STOPTER K-10, ATLAS STOPTER K-20, ATLAS HOTER S, ATLAS HOTER U Meshes: R 117 A 101 / AKE 145 / VERTEX 145, SSA 1363 SM(100) Base coats: ATLAS STOPTER K-20, ATLAS HOTER U Finishing coats: ATLAS CERMIT acrylic/ATLAS CERMIT N-100 , ATLAS SILKON BA Decorative coats: ATLAS SALTA E, N, SALTA (with relevant primer) 	<p>≤ 3.5%</p> <p>≤ 8.4%</p> <p>≤ 19.9%</p>	0% (no flame retardant)	B – s2, d0

Mounting and fixing

The assessment of reaction to fire is based on tests with an insulation layer (EPS) thickness of 180 mm – SBI test according to EN 13823, 60 mm – test according to EN ISO 11925-2 and a maximum insulation material (EPS) density of 20 kg/m³ – for standard EPS and 15 kg/m³ – for elastified EPS as well as finishing coats with maximum organic content.

For the SBI test according to EN 13823, the EWIS is mounted directly to a substrate (Class A2-s1, d0) with a thickness of 12 mm.

For the test according to EN ISO 11925-2 no substrate is used.

The installation of the EWIS was carried out by the manufacturer following the manufacturer's specifications (instruction of installation) using a single layer of the glass fibre mesh all over the test specimen (no overlapping glass fibre mesh). The test specimens were prefabricated and did not include any joints.

Anchors were not included in the tested EWIS as they have no influence on the test results.

3.3 Health, hygiene and the environment (BWR 3)

3.3.1 Water absorption

- Base coat ATLAS STOPTER K-20:
 - water absorption after 1 hour < 1.0 kg/m²,
 - water absorption after 24 hours < 0.5 kg/m²,
- Base coat ATLAS HOTER U:
 - water absorption after 1 hour < 1.0 kg/m²,
 - water absorption after 24 hours < 0.5 kg/m²,
- Rendering systems – according to Table 3.

Table 3

		Water absorption after 24 h	
		< 0.5 kg/m ²	≥ 0.5 kg/m ²
	ATLAS CERMIT mineral	X	-
	ATLAS CERMIT acrylic/ATLAS CERMIT N-100	X	-
Rendering system: base coat ATLAS STOPTER K-20 (with the relevant key-coat) + finishing coat indicated hereafter:	ATLAS silicate render	X	-
	ATLAS SILKON BA	X	-
	Tynk akrylowy ATLAS/ATLAS acrylic render	X	-
	Tynk akrylowo-silikonowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render	X	-
	Tynk silikonowy ATLAS/ATLAS silicone render	X	-
	Tynk silionowo-silikatowy ATLAS/ATLAS silicone-silicate render	X	-
	ATLAS CERMIT mineral	X	-
	ATLAS CERMIT acrylic/ATLAS CERMIT N-100	X	-
Rendering system: base coat ATLAS HOTER U (with the relevant key- coat) + finishing coat indicated hereafter:	ATLAS silicate render	X	-
	ATLAS SILKON BA	X	-
	Tynk akrylowy ATLAS/ATLAS acrylic render	X	-
	Tynk akrylowo-silikonowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render	X	-
	Tynk silikonowy ATLAS/ATLAS silicone render	X	-
	Tynk silionowo-silikatowy ATLAS/ATLAS silicone-silicate render	X	-
	ATLAS CERMIT mineral	X	-

3.3.2 Watertightness

Heat-rain and heat-cold cycles have been performed on a rig. The EWIS is assessed as resistant to hygrothermal cycles.

The water absorption of both the base coat and the rendering system was lower than 0.5 kg/m² after 24 hours. The EWIS is therefore assessed as resistant to freeze/thaw behaviour.

3.3.3 Impact resistance

Table 4

		Impact resistance – standard EPS TR100	
		Single mesh layer	Double mesh layer
Rendering system: base coat ATLAS STOPTER K-20 (with relevant key coat) + finishing coat indicated hereafter:	ATLAS CERMIT mineral	Category III	-
	ATLAS CERMIT acrylic/ATLAS CERMIT N-100	Category II	-
	ATLAS silicate render	Category III	Category II
	ATLAS SILKON BA	Category II	-
	Tynk akrylowy ATLAS/ATLAS acrylic render	Category III	-
	Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render	Category III	-
	Tynk silikonowy ATLAS/ATLAS silicone render	Category III	-
	Tynk silionowo-silikatowy ATLAS/ATLAS silicone-silicate render	Category II	-
Rendering system: base coat ATLAS HOTER U (with relevant key-coat) + finishing coat indicated hereafter:	ATLAS CERMIT mineral	Category III	-
	ATLAS CERMIT acrylic/ATLAS CERMIT N-100	Category II	-
	ATLAS silicate render	Category II	-
	ATLAS SILKON BA	Category II	-
	Tynk akrylowy ATLAS/ATLAS acrylic render	Category III	-
	Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render	Category III	-
	Tynk silikonowy ATLAS/ATLAS silicone render	Category III	-
	Tynk silionowo-silikatowy ATLAS/ATLAS silicone-silicate render	Category II	-

Table 5

		Impact resistance – elastified EPS TR80
		Single mesh layer
Rendering system: base coat ATLAS STOPTER K-20 (with relevant key coat) + finishing coat indicated hereafter:	ATLAS CERMIT mineral	Category III
	ATLAS CERMIT acrylic/ATLAS CERMIT N-100	Category III
	ATLAS silicate render	Category II
	ATLAS SILKON BA	Category II
	Tynk akrylowy ATLAS/ATLAS acrylic render	Category III
	Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render	Category III
	Tynk silikonowy ATLAS/ATLAS silicone render	Category III
	Tynk silionowo-silikatowy ATLAS/ATLAS silicone-silicate render	Category II
Rendering system: base coat ATLAS HOTER U (with relevant key-coat) + finishing coat indicated hereafter:	ATLAS CERMIT mineral	Category III
	ATLAS CERMIT acrylic/ATLAS CERMIT N-100	Category III
	ATLAS silicate render	Category II
	ATLAS SILKON BA	Category III
	Tynk akrylowy ATLAS/ATLAS acrylic render	Category III
	Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render	Category III
	Tynk silikonowy ATLAS/ATLAS silicone render	Category III
	Tynk silionowo-silikatowy ATLAS/ATLAS silicone-silicate render	Category II

3.3.4 Water vapour permeability

Table 6

		Equivalent air thickness s_d
		≤ 2.0 m
	ATLAS CERMIT mineral	ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm: 0.23 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm + ATLAS SALTA N: 0.26 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm + ATLAS SALTA E: 0.24 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm + ATLAS SALTA S: 0.29 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm + ATLAS SALTA: 0.30 m
		≤ 2.0 m
Rendering system: base coat ATLAS STOPTER K-20 + finishing coat indicated hereafter:	ATLAS CERMIT acrylic/ATLAS CERMIT N-100	ATLAS CERPLAST + ATLAS CERMIT N acryl 3.0 mm: 0.58 m ATLAS CERPLAST + ATLAS CERMIT acryl 3.0 mm + ATLAS SALTA N: 1.06 m ATLAS CERPLAST + ATLAS CERMIT acryl 3.0 mm + ATLAS SALTA E: 1.15 m ATLAS CERPLAST + ATLAS CERMIT acryl 3.0 mm + ATLAS SALTA: 0.98 m
	Tynk silikatowy ATLAS/ATLAS silicate render	ATLAS SILKAT ASX + Tynk silikatowy ATLAS/ATLAS silicate render 2.0 mm: 0.17 m ATLAS SILKAT ASX + ATLAS SILKAT N 2.0 mm + ATLAS ARKOL SX + ATLAS SALTA S: 0.20 m ATLAS SILKAT ASX + Tynk silikatowy ATLAS/ATLAS silicate render 2.0 mm + ATLAS ARKOL SX + ATLAS SALTA N: 0.31 m ATLAS SILKAT ASX + Tynk silikatowy ATLAS/ATLAS silicate render 2.0 mm + ATLAS ARKOL NX + ATLAS SALTA: 0.23 m
		≤ 2.0 m
	ATLAS SILKON BA	ATLAS SILKON ANX + ATLAS SILKON BA 2.0 mm: 0.49 mm ATLAS SILKON ANX + ATLAS SILKON BA 2.0 mm + ATLAS SALTA N: 0.86 m ATLAS SILKON ANX + ATLAS SILKON BA 2.0 mm + ATLAS SALTA: 0.87 m
		≤ 2.0 m
	Tynk akrylowy ATLAS/ATLAS acrylic render	ATLAS CERPLAST + Tynk akrylowy ATLAS/ATLAS acrylic render 2.0 mm: 0.35 m ATLAS CERPLAST + Tynk akrylowy ATLAS/ATLAS acrylic render 2.0 mm + ATLAS SALTA N: 0.35 m ATLAS CERPLAST + Tynk akrylowy ATLAS/ATLAS acrylic render 2.0 mm + ATLAS SALTA E: 0.36 m ATLAS CERPLAST + Tynk akrylowy ATLAS 2.0 mm + ATLAS SALTA: 0.36 m
		≤ 2.0 m
Rendering system: base coat ATLAS STOPTER K-20 + finishing coat indicated hereafter:	Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render	ATLAS SILKON ANX + Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render 2.0 mm: 0.34 m ATLAS SILKON ANX + Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render 2.0 mm + ATLAS SALTA N: 0.35 m ATLAS SILKON ANX + Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render 2.0 mm + ATLAS SALTA: 0.35 m
	Tynk silikonowy ATLAS/ATLAS silicone render	ATLAS SILKON ANX + Tynk silikonowy ATLAS/ATLAS silicone render 2.0 mm: 0.36 m ATLAS SILKON ANX + Tynk silikonowy ATLAS/ATLAS silicone render 2.0 mm + ATLAS SALTA N: 0.58 m ATLAS SILKON ANX + Tynk silikonowy ATLAS/ATLAS silicone render 2.0 mm + ATLAS SALTA S: 0.36 m ATLAS SILKON ANX + Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render 2.0 mm + ATLAS SALTA: 0.38 m
		≤ 2.0 m
	Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render	ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm: 0.44 m ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm + ATLAS SALTA N: 0.54 m ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm + ATLAS SALTA S: 0.49 m ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm + ATLAS SALTA: 0.45 m

Table 7

		Equivalent air thickness s_d
		≤ 2.0 m
	ATLAS CERMIT mineral	ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm: 0.20 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm + ATLAS SALTA N: 0.16 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm + ATLAS SALTA E: 1.18 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm + ATLAS ARKOL SX + ATLAS SALTA S: 0.21 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm + ATLAS SALTA: 0.19 m
		≤ 2.0 m
Rendering system: base coat ATLAS HOTER U + finishing coat indicated hereafter:	ATLAS CERMIT acrylic/ATLAS CERMIT N-100	ATLAS CERPLAST + ATLAS CERMIT acrylic/ATLAS CERMIT N-100 3.0 mm: 0.44 m ATLAS CERPLAST + ATLAS CERMIT acrylic/ATLAS CERMIT N-100 3.0 mm + ATLAS SALTA N: 1.41 m ATLAS CERPLAST + ATLAS CERMIT acrylic/ATLAS CERMIT N-100 3.0 mm + ATLAS SALTA E: 1.28 m ATLAS CERPLAST + ATLAS ATLAS CERMIT acrylic/ATLAS CERMIT N-100 3.0 mm + ATLAS SALTA: 0.76 m
	Tynk silikatowy ATLAS/ATLAS silicate render	Synk silikatowy ATLAS/ATLAS silicate render 2.0 mm: 0.15 m ATLAS SILKAT Synk silikatowy ATLAS/ATLAS silicate render 2.0 mm + ATLAS SALTA N: 0.24 m Synk silikatowy ATLAS/ATLAS silicate render 2.0 mm + ATLAS SALTA S: 0.15 m Synk silikatowy ATLAS/ATLAS silicate render 2.0 mm + ATLAS SALTA: 0.23 m
		≤ 2.0 m
	ATLAS SILKON BA	ATLAS SILKON ANX + ATLAS SILKON BA 2.0 mm: 0.44 m ATLAS SILKON ANX + ATLAS SILKON BA 2.0 mm + ATLAS SALTA N: 0.92 m ATLAS SILKON ANX + ATLAS SILKON BA 2.0 mm ATLAS SILKON BA: 0.81 m
		≤ 2.0 m
	Tynk akrylowy ATLAS/ATLAS acrylic render	ATLAS CERPLAST + Tynk akrylowy ATLAS/ATLAS acrylic render 2.0 mm: 0.25 m ATLAS CERPLAST + Tynk akrylowy ATLAS/ATLAS acrylic render 2.0 mm + ATLAS SALTA N: 0.29 m ATLAS CERPLAST + Tynk akrylowy ATLAS/ATLAS acrylic render 2.0 mm + ATLAS SALTA E: 0.36 m ATLAS CERPLAST+ Tynk akrylowy ATLAS/ATLAS acrylic render 2.0 mm + ATLAS SALTA: 0.30 m
Rendering system: base coat ATLAS HOTER U + finishing coat indicated hereafter:	Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render	ATLAS SILKON ANX + Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render 2.0 mm: 0.40 m ATLAS SILKON ANX + Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render 2.0 mm + ATLAS SALTA N: 0.69 m ATLAS SILKON ANX + Tynk akrylowo-siliconowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render 2.0 mm + ATLAS SALTA: 0.69 m
	Tynk silikonowy ATLAS/ATLAS silicone render	ATLAS SILKON ANX + Tynk silikonowy ATLAS/ATLAS silicone render 2.0 mm: 0.34 m ATLAS SILKON ANX + Tynk silikonowy ATLAS/ATLAS silicone render 2.0 mm + ATLAS SALTA N: 0.55 m ATLAS SILKON ANX + Tynk silikonowy ATLAS/ATLAS silicone render 2.0 mm + ATLAS SALTA S: 0.35 m ATLAS SILKON ANX + Tynk silikonowy ATLAS/ATLAS silicone render 2.0 mm + ATLAS SALTA: 0.35 m
		≤ 2.0 m
	Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render	ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm: 0.44 m ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm + ATLAS SALTA N: 0.45 m ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm + ATLAS SALTA S: 0.54 m ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm + ATLAS SALTA: 0.47 m

3.3.5 Release of dangerous substances

The written declaration on dangerous substances was submitted by the manufacturer to the Technical Assessment Body.

3.4 Safety and accessibility in use (BWR 4)

3.4.1 Bond strength between base coat and insulation product

Table 8

Bond strength between base coat and insulation product (EPS panels)			
Base coat	Initial state	After hygrothermal cycles (on the rig)	After freeze/thaw cycles
ATLAS STOPTER K-20	≥ 0.08 MPa	≥ 0.08 MPa	test not required as freeze/thaw cycles not necessary
ATLAS HOTER U	≥ 0.08 MPa	≥ 0.08 MPa	

3.4.2 Bond strength between adhesive / substrate and adhesive / insulation product

Table 9

Bond strength between: adhesive – substrate (concrete) and adhesive – insulation product (EPS)				
Adhesives		Under dry conditions	48 h immersion in water + 2 h drying at (23±2)°C and (50±5)% RH	48 h immersion in water + 7 days drying at (23±2)°C and (50±5)% RH
ATLAS STOPTER K-20	Concrete	≥ 0.25 MPa	≥ 0.08 MPa	≥ 0.25 MPa
	EPS	≥ 0.08 MPa	≥ 0.03 MPa	≥ 0.08 MPa
ATLAS HOTER S	Concrete	≥ 0.25 MPa	≥ 0.08 MPa	≥ 0.25 MPa
	EPS	≥ 0.08 MPa	≥ 0.03 MPa	≥ 0.08 MPa
ATLAS HOTER U	Concrete	≥ 0.25 MPa	≥ 0.08 MPa	≥ 0.25 MPa
	EPS	≥ 0.08 MPa	≥ 0.03 MPa	≥ 0.08 MPa

The EWIS shall be installed on the substrate with application of the adhesive on the following minimal surface:

Table 10

	Tensile strength perpendicular to the faces of EPS	
	elastified EPS ≥ 80 kPa	standard EPS ≥ 100 kPa
ATLAS STOPTER K-20		
ATLAS HOTER S	40%	40%
ATLAS HOTER U		

3.4.3 Bond strength after ageing

Table 11

		After hygrothermal cycles
Rendering system: base coat ATLAS STOPTER K-20 (with relevant key coat) + finishing coat indicated hereafter:	ATLAS CERMIT mineral	≥ 0.08 MPa
	ATLAS CERMIT acrylic/ATLAS CERMIT N-100	≥ 0.08 MPa
	ATLAS silicate render	≥ 0.08 MPa
	ATLAS SILKON BA	≥ 0.08 MPa
	Tynk akrylowy ATLAS/ATLAS acrylic render	≥ 0.08 MPa
	Tynk akrylowo-silikonowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render	≥ 0.08 MPa
	Tynk silikonowy ATLAS/ATLAS silicone render	≥ 0.08 MPa
	Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render	≥ 0.08 MPa

Table 12

		After hygrothermal cycles
	ATLAS CERMIT mineral	≥ 0.08 MPa
	ATLAS CERMIT acrylic/ATLAS CERMIT N-100	≥ 0.08 MPa
Rendering system:	ATLAS silicate render	≥ 0.08 MPa
	base coat	ATLAS SILKON BA
	ATLAS HOTER U	Tynk akrylowy ATLAS/ATLAS acrylic render
	(with relevant key-coat)	Tynk akrylowo-silikonowy ATLAS/ATLAS acrylic-silicone render/Atlas silicone hybrid render
	+	Tynk silikonowy ATLAS/ATLAS silicone render
	finishing coat indicated hereafter:	Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render

3.5 Protection against noise (BWR 5)

Not relevant.

3.6 Energy economy and heat retention (BWR 6)

3.6.1 Thermal resistance and thermal transmittance

The thermal transmittance of the wall covered by the EWIS is calculated in accordance with the standard EN ISO 6946:

$$U_c = U + \chi_p \cdot n$$

where: $\chi_p \cdot n$ has only to be taken into account if it is greater than 0.04 W/(m²·K)

U_c : corrected thermal transmittance of the covered wall (W/(m²·K))

n : number of anchors (through insulation product) per m²

χ_p : local influence of thermal bridge caused by an anchor. The values listed below can be taken into account if not specified in the anchor's UKTA:

- = 0.002 W/K for anchors with a plastic screw, stainless steel screw with a head covered by plastic material and for anchors with an air gap at the head of the screw ($\chi_p \cdot n$ negligible for $n < 20$)
- = 0.004 W/K for anchors with a galvanized steel screw with the head covered by a plastic material ($\chi_p \cdot n$ negligible for $n < 10$)
- = 0.008 W/K for all other anchors (worst case)

U : thermal transmittance of the current part of the covered wall (excluding thermal bridges) (W/(m²·K)) determined as follows:

$$U = 1 : [R_i + R_{render} + R_{substrate} + R_{se} + R_{si}]$$

where: R_i : thermal resistance of the insulation product (according to declaration in reference to EN 13163) in (m²·K)/W

R_{render} : thermal resistance of the render (about 0.02 in (m²·K)/W or determined by test according to EN 12667 or EN 12664)

$R_{substrate}$: thermal resistance of the substrate (e.g. concrete, brick) in (m²·K)/W

R_{se} : external superficial thermal resistance in (m²·K)/W

R_{si} : internal superficial thermal resistance in (m²·K)/W

The value of thermal resistance of insulation product shall be given in the manufacturer's documentation along with the possible range of thicknesses. In addition, the point thermal conductivity of anchors shall be given when anchors are used in the EWIS.

3.7 Sustainable use of natural resources (BWR 7)

No performance assessed

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. 040083-00-0404 and Annex V of the Construction Products Regulation (Regulation (EU) 305/2011 as brought into UK law and amended, the system of assessment and verification of constancy of performance (AVCP) of table 13 applies.

Table 13

Product	Intended use	Level or class (Reaction to fire)	System
External thermal insulation composite systems/kits (EWIS) with rendering	in external wall subject to fire regulations	A1 ⁽¹⁾ , A2 ⁽¹⁾ , B ⁽¹⁾ , C ⁽¹⁾	1
		A1 ⁽²⁾ , A2 ⁽²⁾ , B ⁽²⁾ , C ⁽²⁾ , D, E, (A1 to E) ⁽³⁾ , F	2+
	in external wall not subject to fire regulations	any	2+

(1) Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material)

(2) Products/materials not covered by footnote (1)

(3) Products/materials that do not require to be tested for reaction to fire (e.g. products/materials of Class A1 according to Commission Decision 96/603/EC)

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/address of the manufacturer of the product/ system
- Marking with intention of clarification of intended use
- Date of marking
- Number of certificate of constancy of performance
- UKTA number.

On behalf of the British Board of Agrément



Date of Issue: 2 December 2022

Hardy Giesler
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ANNEX 1

Thermal insulation products characteristic

Description and characteristics		EPS panels according to EN 13163
Reaction to fire EN 13501-1		Class E thickness: 20 mm to 250 mm density: up to 20.0 kg/m ³
Thermal resistance (m²·K)/W		Defined in EN 13163
Thickness EN 823		EN 13163 – T1
Length EN 822		EN 13163 – L2
Width EN 822		EN 13163 – W2
Squareness EN 824		EN 13163 – S5
Flatness EN 825		EN 13163 – P5
Surface condition		Cut surface (homogeneous and without “skin”)
Dimensional stability	laboratory conditions EN 1603	EN 13163 – DS(N)2
	specified temperature and humidity EN 1604	EN 13163 – DS(70,-)1 EN 13163 – DS(70,-)2
Short-term water absorption (partial immersion) (kg/m²) EN 1609		≤ 1.0
Water vapour diffusion resistance factor (μ) EN 12086		20 to 60
Tensile strength perpendicular to the faces in dry conditions EN 1607		EN 13163 – TR80 (elasticized EPS) EEN 13163 – TR100 (standard EPS)
Bending strength (kPa) EN 12089		≥ 75
Shear strength (MPa) EN 12090		≥ 0.02
Shear modulus (MPa) EN 12090		
– standard EPS		1.0 ≤ G _m ≤ 3.0
– elasticized EPS*		0.3 ≤ G _m ≤ 1.0
* elasticized EPS is made from standard EPS by short time high load pressing to reduce the dynamic stiffness		

ANNEX 2
Glass fibre meshes characteristic

Mesh trade name	Description	Alkalis resistance	
		Residual resistance after ageing N/mm	Relative residual resistance, (after ageing) of the strength in the as delivered state, %
R 117 A 101 / AKE 145 / VERTEX 145	standard mesh mass per unit area: 145 g/m ² mesh size: 4.0 x 4.5 mm	≥ 20	≥ 50
SSA 1363 SM(100)	standard mesh mass per unit area: 145 g/m ² mesh size: 3.5 x 3.5 mm	≥ 20	≥ 50
SSA 1363-150 SM0.5	standard mesh mass per unit area: 150 g/m ² mesh size: 3.6 x 4.3 mm	≥ 20	≥ 50
ATLAS 150	standard mesh mass per unit area: 150 g/m ² mesh size: 4.5 x 5.0 mm	≥ 20	≥ 50
ATLAS 165	standard mesh mass per unit area: 160 g/m ² mesh size: 3.7 x 3.9 mm	≥ 20	≥ 50



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