



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

UK Technical Assessment	UKTA-0836-22/6215 of 12/12/2022
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	ATLAS ROKER
Product family to which the construction product belongs:	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):	Manufacturing plant no. 1 Atlas sp. z o.o. Zakład Produkcyjny w Zgierzu ul. Szczawińska 52a 95-100 Zgierz Poland Manufacturing plan no. 2 Atlas sp. z o.o. Zakład Produkcyjny w Piotrkowie Trybunalskim ul. 18 Stycznia 28 97-300 Piotrków Trybunalski Poland
This UK Technical Assessment contains:	14 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 ROKER 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 made of mineral wool (MW) 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/m²)	Thickness (mm)
Insulation material with associated methods of fixing	Bonded EWIS: fully bonded or fully bonded with supplementary mechanical fixings (bonded surface shall be 100%). National application documents shall be taken into account.		
	<ul style="list-style-type: none"> • Insulation product: Mineral wool (MW) lamella according to EN 13162; see Annex 1 for product characteristics • Adhesive: ATLAS ROKER U cement based powder requiring addition of 0.20 to 0.25 l/kg of water composition: sand, cement, mineral fillers, synthetic resin, additives 	-	≤ 250
	Mechanically fixed EWIS with supplementary adhesive: according to manufacturer's recommendation the minimal bonded surface shall be 40% of the surface. National application documents shall be taken into account.		
	<ul style="list-style-type: none"> • Insulation product: Mineral wool (MW) panels according to EN 13162; see Annex 1 for product characteristics • Anchors: see Annex 2 for product characteristics • Supplementary adhesive: see bonded EWIS 	-	50 to 250
	Base coat		
	<ul style="list-style-type: none"> • ATLAS ROKER U cement based powder requiring addition of 0.20 to 0.25 l/kg of water 	5.5 to 6.5 (powder)	4.0 to 5.0
	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 mineral • ATLAS SILKON ANX composition: water, styroacrylat binder, silicone resin, mineral fillers, additives ready to use liquid to be used with ATLAS SILKON, Tynk silikonowy ATLAS/Atlas silicone render, 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 ATLAS CERMIT mineral powder requiring addition of 0.18 to 0.26 l/kg of water; particle size 1.5; 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"> Silicone finishing coats composition: water, silicone resin, sand, mineral fillers, additives ready to use paste ATLAS SILKON BA particle size 1.0, 1.5, 2.0 mm; grained or ribbed structure Tynk silikonowy ATLAS/ATLAS silicone render 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"> Silicate finishing coats composition: water, acryl-copolymer binder, sand, mineral fillers, additives ready to use paste Tynk silikatowy ATLAS/ATLAS silicate 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"> Silicone-silicate finishing coats composition: water, silicate binder, silicone binder, sand, mineral fillers, additives ready to use paste 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)	<ul style="list-style-type: none"> ATLAS SALTA S to be used optionally with all finishing coats composition: silicate binder, pigments, additives ready to use liquid 	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 ready to use liquid 	0.125 to 0.250*	-
	<ul style="list-style-type: none"> ATLAS SALTA N to be used optionally with Tynk silikonowy ATLAS/Atlas silicone render, Tynk silikonowo-silikatowy ATLAS and ATLAS CERMIT mineral composition: silicone resin, pigments, additives ready to use liquid 	0.125 to 0.250*	-
Ancillary materials	Remain under EWIS manufacturer responsibility. Anchors as supplementary mechanical fixings covered by ETA issued according to ETAG 014.		

* 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 consider 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 ROKER with MW boards (reaction to fire class A1) and rendering system:			
<ul style="list-style-type: none"> Adhesive: ATLAS ROKER U Meshes: ATLAS 150, ATLAS 165, R 117 A 101 / AKE 145 / VERTEX 145, SSA 1363-150 SM0.5 Base coat: ATLAS ROKER U Finishing coats: Tynk silikonowy ATLAS/Atlas silicone render, Tynk silikonowo-silikatowy ATLAS (with relevant key coats) Decorative coats: ATLAS SALTA S, ATLAS SALTA, ATLAS SALTA N (with relevant primers) 	<p>≤ 4.05%</p> <p>≤ 10.57%</p> <p>≤ 22.7%</p>	0% (no flame retardant)	A2 – s2, d0
EWIS ATLAS ROKER with MW boards (reaction to fire class A1) and rendering system:			
<ul style="list-style-type: none"> Adhesive: ATLAS ROKER U Meshes: R 117 A 101 / AKE 145 / VERTEX 145, SSA 1363 SM(100) Base coat: ATLAS ROKER U Finishing coats: ATLAS CERMIT mineral, TYNK SILIKATOWY ATLAS/ATLAS SILICATE RENDER (with relevant key coats) Decorative coats: ATLAS SALTA S, ATLAS SALTA (with relevant primers) 	<p>≤ 4.05%</p> <p>≤ 4.9%</p> <p>≤ 18.6%</p>	0%	A2 – s2, d0
EWIS ATLAS ROKER with MW boards (reaction to fire class A1) and rendering system:			
<ul style="list-style-type: none"> Adhesive: ATLAS ROKER U Meshes: R 117 A 101 / AKE 145 / VERTEX 145, SSA 1363 SM(100) Base coat: ATLAS ROKER U Finishing coat: ATLAS SILKON (with relevant key coats) Decorative coats: ATLAS SALTA (with relevant primers) 	<p>≤ 4.05%</p> <p>≤ 8.4%</p> <p>≤ 18.6%</p>	0%	B – s1, d0

Mounting and fixing

The assessment of reaction to fire is based on SBI tests according to EN 13823, tests according to EN ISO 11925-2 and EN ISO 1716 with maximum insulation material (MW) density of 135.0 kg/m³ 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 ROKER 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
Rendering system: base coat ATLAS ROKER U (with the relevant key-coat) + finishing coat indicated hereafter:	ATLAS CERMIT mineral	X	-
	Tynk silikatowy ATLAS/ATLAS silicate render	X	-
	ATLAS SILKON BA	X	-
	Tynk silikonowy ATLAS/Atlas silicone render	X	-
	Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render	X	-

3.3.2 Watertightness

Passed without defects. None of the following defects occurred during testing:

- blistering or peeling of any finishing,
- failure or cracking associated with joints between insulation product boards or profiles fitted with EWIS,
- detachment of the render,
- cracking allowing water penetration to the insulation layer.

The EWIS is so 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 (3J, 10J) – MW panels		
Rendering system		Single mesh layer
Rendering system: base coat ATLAS ROKER U (with the relevant key-coat) + finishing coat indicated hereafter:	ATLAS CERMIT mineral	Category III
	Tynk silikatowy ATLAS/ATLAS silicate render	Category I
	ATLAS SILKON BA	Category II
	Tynk silikonowy ATLAS/Atlas silicone render	Category III
	Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render	Category I

Table 5

Impact resistance (3J, 10J) – MW lamella		
Rendering system		Single mesh layer
Rendering system:	ATLAS CERMIT mineral	Category III
base coat	Tynk silikatowy ATLAS/ATLAS silicate render	Category I
ATLAS ROKER U (with the relevant key-coat)	ATLAS SILKON BA	Category II
+	Tynk silikonowy ATLAS/Atlas silicone render	Category I
finishing coat	Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render	Category I
indicated hereafter:		

3.3.4 Water vapour permeability

Table 6

Equivalent air thickness s_{a}		
Rendering system: base coat ATLAS ROKER U +	ATLAS CERMIT mineral	≤ 1.0 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm: 0.21 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm + ATLAS SALTA: 0.12 m ATLAS CERPLAST + ATLAS CERMIT mineral 3.0 mm + ATLAS SALTA N: 0.24 m
	Tynk silikatowy ATLAS/ATLAS silicate render	≤ 1.0 m Tynk silikatowy ATLAS/ATLAS silicate render 2.0 mm: 0.20 m Tynk silikatowy ATLAS/ATLAS silicate render 2.0 mm + ATLAS SALTA N: 0.35 m
Rendering system: base coat ATLAS ROKER U +	ATLAS SILKON BA	≤ 1.0 m ATLAS SILKON ANX + ATLAS SILKON BA 2.0 mm: 0.75 m ATLAS SILKON ANX + ATLAS SILKON BA 2.0 mm + ATLAS SALTA N: 0.95 m
	Tynk silikonowy ATLAS/Atlas silicone render	≤ 1.0 m ATLAS SILKON ANX + Tynk silikonowy ATLAS/ ATLAS silicone render 2.0 mm: 0.51 m ATLAS SILKON ANX + Tynk silikonowy ATLAS/ ATLAS silicone render 2.0 mm + ATLAS SALTA N: 0.59 m ATLAS SILKON ANX + Tynk silikonowy ATLAS/ ATLAS silicone render 2.0 mm + ATLAS SALTA S: 0.39 m ATLAS SILKON ANX + Tynk silikonowy ATLAS/Atlas silicone render 2.0 mm + ATLAS SALTA: 0.52 m
finishing coat:	Tynk silikonowo-silikatowy ATLAS	≤ 1.0 m ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm: 0.52 m ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm + ATLAS SALTA N: 0.62 m ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm + ATLAS SALTA S: 0.59 m ATLAS SILKON ANX + Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render 2.0 mm + ATLAS SALTA: 0.57 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 7

Bond strength between base coat and insulation product (MW panels)			
Base coat	Initial state	After hygrothermal cycles (on the rig)	After freeze/thaw cycles
ATLAS ROKER U	< 0.08 MPa failure into MW	< 0.08 MPa failure into MW	test not required as freeze/thaw cycles not necessary

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

Table 8

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 ROKER U	Concrete	≥ 0.25 MPa	≥ 0.08 MPa	≥ 0.25 MPa
	MW panels	< 0.08 MPa	< 0.03 MPa	< 0.08 MPa
	MW lamella	≥ 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 9

	Tensile strength perpendicular to the faces of MW	
	≥ 10 kPa and ≥ 15 kPa	≥ 80 kPa and ≥ 100 kPa
ATLAS ROKER U	40%	100%

3.4.3 Bond strength after ageing

Table 10

	After hygrothermal cycles	
	with MW panels	with MW lamella
Rendering system: base coat ATLAS ROKER U (with relevant key coat) + finishing coat indicated hereafter:	ATLAS CERMIT mineral	≥ 0.08 MPa
	Tynk silikatowy ATLAS/ATLAS silicate render	< 0.08 MPa failure into MW
	ATLAS SILKON BA	< 0.08 MPa failure into MW
Rendering system: base coat ATLAS ROKER U (with relevant key coat) + finishing coat indicated hereafter:	ATLAS CERMIT mineral	≥ 0.08 MPa
	Tynk silikatowy ATLAS/ATLAS silicate render	≥ 0.08 MPa
	ATLAS SILKON BA	≥ 0.08 MPa
	Tynk silikonowy ATLAS/Atlas silicone render	≥ 0.08 MPa
	Tynk silikonowo-silikatowy ATLAS/ATLAS silicone-silicate render/ATLAS silicone hybrid render	≥ 0.08 MPa

3.4.4 Wind load resistance

The wind load resistance of the EWIS R_d is calculated as follow:

$$R_d = (R_{panel} \times n_{panel} + R_{joint} \times n_{joint}) / \gamma$$

where:

n_{panel} : number (per m²) of anchors not placed at the panel joints

n_{joint} : number (per m²) of anchors placed at the panel joints

γ : national safety factor

Table 11

Anchors for which the following failure loads apply		Anchors according to Annex 2	
	Plate diameter of the anchor		≥ 60 mm
Characteristics of MW panels for which the following failure loads apply	Thickness		≥ 50 mm
	Tensile strength perpendicular to the faces		≥ 10 kPa
Failure load, kN	Anchors not placed at the panel joints (pull-through test), dry conditions	R_{panel}	Minimum value: 0.66 Average value: 0.68
	Anchors not placed at the panel joints (pull-through test), wet conditions	R_{panel}	Minimum value: 0.40 Average value: 0.42
	Anchors placed at the panel joints (static foam block test)	R_{joint}	Minimum value: 0.44 Average value: 0.48

The above given loads apply for anchors according to Annex 2 and all other anchors if they meet the following criteria:

- covered by UKTA according to UKAD 330196-00-0604,
- plate diameter ≥ 60 mm,
- plate stiffness of anchor ≥ 0,4 kN/mm,
- load resistance of anchor plate ≥ 1,64 kN,
- anchors mounted on the insulation panel surface.

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:

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

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)

$R_{\text{substrate}}$:	thermal resistance of the substrate (e.g. concrete, brick) in (m ² ·K)/W
R_{se} :	external superficial thermal resistance in (m ² ·K)/W
R_{si} :	internal superficial thermal resistance in (m ² ·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: 12 December 2022

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ANNEX 1

Thermal insulation products characteristic

Factory-prefabricated mineral wool (MW) panels and lamella according to EN 13162		
Description and characteristics	MW lamella	MW panels
Reaction to fire EN 13501-1	Class A1	
Thermal resistance (m²·K)/W	Defined in EN 13162	
Thickness EN 823	EN 13162 – T5	
Dimensional stability under specified temperature and humidity EN 1604	EN 13162 – DS(TH)	
Short-term water absorption (partial immersion) EN 1609	EN 13162 – WS	
Long-term water absorption (partial immersion) EN 12087	EN 13162 – WL(P)	
Water vapour diffusion resistance factor (μ) EN 12086	1	
Tensile strength perpendicular to the faces in dry conditions EN 1607	EN 13162 – TR80 EN 13162 – TR100	EN 13162 – TR10 EN 13162 – TR15
Tensile strength perpendicular to the faces in wet conditions (kPa) ETAG 004, clause 5.2.4.1.2	≥ 40 (TR80) ≥ 50 (TR100)	≥ 5,0 (TR10) ≥ 7,5 (TR15)
Shear strength (MPa) EN 12090	≥ 0.02	-
Shear modulus (MPa) EN 12090	≥ 1.0	-

ANNEX 2

Anchors and Glass fibre meshes characteristic

Anchors

Anchor trade name	Plate diameter (mm)	Description of the anchor and characteristics resistance in the substrate
WKĘT-MET ŁMX ϕ 10 and ŁTX ϕ 10	≥ 60	ETA-08/0172
KOELNER TFIX-8M	≥ 60	ETA-07/0336
KOELNER TFIX-8S and TFIX-8ST	≥ 60	ETA-11/0144
KOELNER KI-10, KI-10PA and KI-10M	≥ 60	ETA-07/0291
KOELNER KI-10 N and KI-10NS	≥ 60	ETA-07/0221
ejothem STR U and SDK-U	≥ 60	ETA-04/0023
ejothem NT U and NK U	≥ 60	ETA-05/0009
ejothem SDM-T plus U, SDF-K plus and SDF-S plus	≥ 60	ETA-04/0064
Hilti SD-FV	≥ 60	ETA-03/0028
Fisher TERMOZ 8N and 8NZ	≥ 60	ETA-03/0019
Fisher TERMOZ PN8	≥ 60	ETA-09/0171
BRAVOLL PTH-S 60/8-La	≥ 60	ETA-08/0267
BRAVOLL PTH-SL 60/8-La	≥ 60	ETA-08/0267

Additionally, every anchor meeting the following criteria can be used: UKTA according to UKAD 330195-00-0604, plate diameter ≥ 60 mm, plate stiffness $\geq 0,4$ kN/mm, load resistance of the plate $\geq 1,64$ kN.

Glass fibre meshes

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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