



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

UK Technical Assessment	UKTA-0836-22/6377 of 01/11/2022]
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	EWIS KREISEL SYSTEMS EPS
Product family to which the construction product belongs:	Product Area Code: 04 External Wall Insulation Systems (EWIS) with rendering 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):	KREISEL – Technika Budowlana Sp z o.o.  Ul. Sz. Szeregów 23, 60-462 Poznań  Ul. Bory 41a, 42-504 Bedzin  Ul. 11 listopada 29, 97-225 Ujazd  Kaliska 141, 87-840 Lubień Kujawski Poland
This UK Technical Assessment contains:	54 pages including 4 Annexes
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 (ETICS) with renderings</i>

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## 1 Technical description of the product

This product is an EWIS (External Thermal Insulation Composite System) with rendering - a kit comprising components which are factory-produced by the manufacturer or component suppliers. The EWIS manufacturer is ultimately responsible for all components of the EWIS specified in this UKTA.

The EWIS kit comprises a prefabricated insulation product of expanded polystyrene (EPS) to be bonded or mechanically fixed 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 reinforcement.

The rendering system is applied directly to the insulating boards, without any air gap or disconnecting layer.

The EWIS may include special fittings (e.g. base profiles, corner profiles) to treat details of EWIS connections, corners, parapets, sills. Assessment and performance of these components is not addressed in this UKTA, however the EWIS manufacturer is responsible for adequate compatibility and performance within the EWIS when the components are delivered as a part of the kit.

**Table 1 Composition of the EWIS**

	Components	Coverage (kg/m <sup>2</sup> )	Thickness (mm)
Insulation products with associated methods of fixing	<b>Bonded EWIS (fully or partially bonded) with or without supplementary anchors. National application documents shall be taken into account).</b>		
	<ul style="list-style-type: none"> <li>Insulation product: EPS according to EN 13163 see 0 for product characteristics</li> </ul>	/	50 to 300
	<ul style="list-style-type: none"> <li>Adhesives: min. bonded surface: 40 %</li> </ul>		
	<ul style="list-style-type: none"> <li>- LEPSTYR 210 / LEPSTYR 210 EXTRA / LEPSTYR ELASTYCZNY 210</li> <li>- (cement based powder requiring addition of water 0.25 l/kg)</li> <li>- STYRLEP-B 225</li> <li>- cement based powder requiring addition of water 0.28 l/kg</li> <li>- STYRLEP 220 / STYRLEP 220 EXTRA / STYRLEP ELASTYCZNY 220</li> <li>- cement based powder requiring addition of water 0.25 l/kg</li> </ul>	4.0 to 5.0 dry matter	/

	Components	Coverage (kg/m <sup>2</sup> )	Thickness (mm)
Insulation products with associated methods of fixing	<b>Mechanically fixed EWIS with anchors and supplementary adhesive (see Cl. 0 and 0 for possible associations EPS/anchors) National application documents shall be taken into account.</b>		
	<ul style="list-style-type: none"> <li>Insulation product: EPS according to EN 13163: 2012 see 0 for product characteristics</li> </ul>	/	50 - 300
	<ul style="list-style-type: none"> <li>Supplementary adhesives: min. bonded surface: 30 %</li> </ul>		
	<ul style="list-style-type: none"> <li>- LEPSTYR 210 / LEPSTYR 210 EXTRA / LEPSTYR ELASTYCZNY 210</li> <li>- (cement based powder requiring addition of water 0.25 l/kg)</li> <li>- STYRLEP-B 225</li> <li>- cement based powder requiring addition of water 0.28 l/kg</li> <li>- STYRLEP 220 / STYRLEP 220 EXTRA / STYRLEP ELASTYCZNY 220</li> <li>- cement based powder requiring addition of water 0.25 l/kg</li> </ul>	4.0 to 5.0 dry matter	/
	<ul style="list-style-type: none"> <li>Anchors see 0 for individual product characteristics.</li> <li>In addition to the following list. Other anchors can be used provided that they comply with the requirements introduced in the 0.</li> </ul>		
	<ul style="list-style-type: none"> <li>- Ejotherm STR U 2G plastic screw-in anchors</li> <li>- EJOT H1 eco plastic nailed-in anchors</li> <li>- EJOT H3 plastic nailed-in anchors</li> <li>- EJOT H4 eco plastic nailed-in anchors</li> <li>- BRAVOLL® PTH-KZ 60/8 plastic nailed-in anchors</li> <li>- BRAVOLL® PTH-S plastic screw-in anchors</li> <li>- BRAVOLL® PTH-SX plastic screw-in anchors</li> <li>- BRAVOLL® PTH-X, PTH-EX plastic nailed-in anchors</li> <li>- TFIX-8M plastic nailed-in anchors</li> <li>- KI-10N, KI-10NS plastic nailed-in anchors</li> </ul>	ETA-04/0023 ETA - 11/0192 ETA - 14/0130 ETA - 11/0192 ETA - 05/0055 ETA - 08/0267 ETA - 10/0028 ETA - 13/0951 ETA - 07/0336 ETA - 07/0291	

	Components	Coverage (kg/m <sup>2</sup> )	Thickness (mm)
Insulation products with associated methods of fixing	- Koelner KI-10N, KI-10NS plastic nailed-in anchors	ETA-07/0221	
	- TFIX-8S, TFIX-8ST plastic screw-in anchors	ETA-11/0144	
	- KOELNER TFIX-8P plastic nailed-in anchors	ETA-13/0845	
	- Thermoschraubdübe KEW TSDL-V, - KEW TSD-V plastic nailed-in anchors	ETA-12/0148	
	- ThermoScrew TS U8 Gecko plastic screw-in anchors	ETA-16/0100	
	- KEW TSBD plastic anchors	ETA-08/0314	
	- KEW DSH 10 K plastic anchors	ETA -14/0129	
	- KEW TSD 8 plastic nailed-in anchors	ETA -04/0030	
	- KEW TSD-V KN plastic nailed-in anchors	ETA -13/0075	
	- WKTHERM 8 plastic nailed-in anchors	ETA -11/0232	
	- eco drive plastic screw-in anchors	ETA -13/0107	
	- eco drive S plastic screw-in anchors	ETA -13/0107	
	- WKTHERM S plastic screw-in anchors	ETA -13/0724	
	- LMX-8; LMX-10;LTX-8; LTX-10 plastic nailed-in anchors	ETA -16/0509	
	- FIXPLUG 10, FIXPLUG 8 plastic nailed-in anchors	ETA -15/0373	
	- Fischer TERMOZ 8U plastic screw-in anchors	ETA -02/0019	
	- Fischer Termoz PN 8 plastic nailed-in anchors	ETA -09/0171	
	- Fischer Termoz CN 8 plastic nailed-in anchors	ETA -09/0394	
	- Fischer TERMOFIX CF 8 plastic nailed-in anchors	ETA -07/0287	
	- Fischer termoz SV II ecotwist plastic screw-in anchors	ETA -12/0208	
	- fischer termoz CS 8 plastic screw-in anchors	ETA -14/0372	
	- fischer termoz CS 8 DT 110 V plastic screw-in anchors	ETA -14/0372	

	Components	Coverage (kg/m <sup>2</sup> )	Thickness (mm)
	- termoz SV II ecotwist plastic screw-in anchors	ETA - 12/0208	
	- Hilti EWIS nailed-in anchor SDK-FV 8 plastic nailed-in anchors	ETA - 07/0302	
	- Hilti EWIS screwed-in anchor D 8-FV plastic screw-in anchors	ETA - 07/0288	
	- HTH plastic screw-in anchors	ETA - 15/0464	
	- HTR-M plastic screw-in anchors	ETA - 16/0116	
	- HTR-P plastic screw-in anchors	ETA - 16/0116	
	- T-save HTS-M plastic nailed-in anchors	ETA - 14/0400	
	- T-save HTS-P plastic nailed-in anchors	ETA - 14/0400	
	- Plates anchor TTH 10/60-La plastic nailed-in anchors	ETA - 09/0318	

	Components	Coverage (kg/m <sup>2</sup> )	Thickness (mm)
Base coat	<ul style="list-style-type: none"> <li>• STYRLEP 220/ STYRLEP 220 EXTRA/ STYRLEP ELASTYCZNY 220 cement based powder requiring addition of water 0.25 l/kg</li> <li>• STYRLEP-B 225 cement based powder requiring addition of water 0.28 l/kg</li> </ul>	4.0 - 5.0 dry matter  for double reinforcem ent: 6.0 - 7.0 dry matter	3 - 5  for double reinforcem ent: 5
Reinforcement	<ul style="list-style-type: none"> <li>• Standard mesh applied in one or two layers see 0 for product characteristics:               <ul style="list-style-type: none"> <li>- R 117 A101 / AKE 145</li> <li>- R 131 A101 / AKE 160</li> <li>- R 167 A101</li> <li>- REDNET CB330 NOVA</li> <li>- SSA-1363-4 SM</li> </ul> </li> <li>• Armour mesh applied in a single layer see 0 for product characteristics:               <ul style="list-style-type: none"> <li>- REDNET CB330 NOVA</li> </ul> </li> </ul>	 / / / / / /	 / / / / / /
Key coat	<ul style="list-style-type: none"> <li>• Key coats shall always be used with STYRLEP 220 / STYRLEP 220 EXTRA / STYRLEP ELASTYCZNY 220</li> <li>• For STYRLEP-B 225 is use of the key coat voluntary.               <ul style="list-style-type: none"> <li>- TYNKOLIT-U 340</li> <li>- for all finishing coats listed in UKTA</li> <li>- pigmented ready to use liquid</li> </ul> </li> </ul>	     0.2 – 0.3	     /

	<b>Components</b>	<b>Coverage (kg/m<sup>2</sup>)</b>	<b>Thickness (mm)</b>
Finishing coats	<ul style="list-style-type: none"> <li>• Powder requiring addition of 0.25 l/kg of water - mineral binder:</li> <li>- POZTYNK-SZ 062 Kornputz (max. particle size 1.0; 1.5; 2.0; 3.0 mm)</li> <li>- POZTYNK-SZ 061 Kratzputz (max. particle size 1.0; 2.0; 3.0 mm)</li> </ul>	<p>2.1 – 4.3 regulated by particle size</p> <p>2.0 – 4.1 regulated by particle size</p>	1.0 – 3.0 regulated by particle size
	<ul style="list-style-type: none"> <li>• Ready to use paste - acrylic binder:</li> <li>- AKRYTYNK 010 Kornputz/ AKRYTYNK 010 California Kornputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)</li> <li>- AKRYTYNK 010 Kratzputz/ AKRYTYNK 010 California Kratzputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)</li> </ul>	<p>0.9 – 5.0 regulated by particle size</p> <p>0.9 – 3.7 regulated by particle size</p>	0.5 – 3.0 regulated by particle size
	<ul style="list-style-type: none"> <li>• Ready to use paste - silicone binder:</li> <li>- SILIKOTYNK 030 Kornputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)</li> <li>- SILIKOTYNK 030 Kratzputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)</li> <li>- SILIKON Protect 031 Kornputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)</li> <li>- SILIKON Protect 031 Kratzputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)</li> </ul>	<p>0.9 – 5.0 regulated by particle size</p> <p>1.0 – 3.7 regulated by particle size</p> <p>0.9 – 5.0 regulated by particle size</p> <p>0.9 – 3.7 regulated by particle size</p>	
	<ul style="list-style-type: none"> <li>• Ready to use paste – silicate binder:</li> <li>- SILIKATYNK 020 Kornputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)</li> <li>- SILIKATYNK 020 Kratzputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)</li> </ul>	<p>0.9 – 5.0 regulated by particle size</p> <p>0.9 – 3.7 regulated by particle size</p>	
	<ul style="list-style-type: none"> <li>• Ready to use paste – silicate and silicone binder:</li> <li>- SISITYNK 040 Kornputz/ SISITYNK 040 California Kornputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)</li> </ul>	0.9 – 5.0	

	<b>Components</b>	<b>Coverage (kg/m<sup>2</sup>)</b>	<b>Thickness (mm)</b>
	<ul style="list-style-type: none"> <li>- SISITYNK 040 Kratzputz/ SISITYNK 040 California Kratzputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)</li> </ul>	regulated by particle size  0.9 – 3.7 regulated by particle size	



	Components	Coverage (kg/m <sup>2</sup> )	Thickness (mm)
Finishing coats	- ECO TYNK 022 ECO PROTECT Kornputz/ ECO TYNK 022 ECO PROTECT California Kornputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)	0.9 – 5.0 regulated by particle size	0.5 – 3.0 regulated by particle size
	- ECO TYNK 022 ECO PROTECT Kratzputz/ ECO TYNK 022 ECO PROTECT California Kratzputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)	0.9 – 3.7 regulated by particle size	
	<ul style="list-style-type: none"> <li>ready to use paste – silicone - polyurethane binder:</li> </ul> - MAX PROTECT 042 Kornputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)  - MAX PROTECT 042 Kratzputz (particle size 0.5; 1.0; 1.5; 2.0; 3.0 mm)	0.9 – 5.0 regulated by particle size  0.9 – 3.7 regulated by particle size	0.5 – 3.0 regulated by particle size
Protection coats for mineral finishing coats	<ul style="list-style-type: none"> <li>One of the protection coats shall always be used with mineral binder finishing coats (POZTYNK SZ)</li> <li>- FARBA AKRYLOWA 001 ready to use liquid</li> <li>- FARBA SILIKATOWA 002 ready to use liquid</li> <li>- FARBA SILIKONOWA 003 ready to use liquid</li> <li>- FARBA SISI 004 ready to use liquid</li> <li>- FARBA NANOTECH 006 ready to use liquid</li> <li>- BIOFARBA 008 ready to use liquid</li> <li>- FARBA ECO 009 ready to use liquid</li> <li>- FARBA EGALIZACYJNA 005 ready to use liquid</li> </ul>	0.15 – 0.25 l/m <sup>2</sup> regulated by particle size	/
Ancillary materials	Remain under the manufacturer's responsibility		

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

### 2.1 Intended use

This EWIS is intended for use as external insulation of buildings' walls. The walls are constructed of masonry (bricks, blocks, stone) or concrete (cast on site or as prefabricated panels). The characteristics of the walls shall be verified prior to use of the EWIS, especially regarding conditions for reaction to fire classification and for fixing of the EWIS either by bonding or mechanically. The EWIS is designed to give the wall to which it is applied satisfactory thermal insulation.

The EWIS is made of non load-bearing 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 effect of weathering.

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 not intended to ensure the airtightness of the building structure.

The choice of the method of fixing depends on the characteristics of the substrate, which may need preparation (see cl. 7.2.1 of the EWIS 004) and shall be done in accordance with the national instructions.

The EWIS belong to Category S/W2, according to EOTA Technical Report No 034.

## **2.2 Design and installation**

The installation instructions including special installation techniques and provisions for the qualification of the personnel are given in the manufacturer's technical documentation. Design, installation and execution of EWIS are to be in conformity with national documents. Such documents and the level of their implementation in Member States' legislation are different. Therefore, the assessment and declaration of performance are done taking into account general assumptions introduced in UKAD 040083-00-0404, which summarize how information introduced in the UKTA and related documents is intended to be used in the construction process and gives advice to all parties interested when normative documents are missing.

## **2.3 Packaging, transport and storage**

The information on packaging, transport and storage is given in the manufacturer's technical documentation. It is the responsibility of the manufacturer(s) to ensure that this information is made known to the concerned people.

## **2.4 Use, maintenance and repair**

The finishing coat shall normally be maintained to fully preserve the EWIS performance.

Maintenance includes at least:

- visual inspection of the EWIS,
- repairing of localized damaged areas due to accidents,
- the aspect maintenance with products adapted and compatible with the EWIS (possibly after washing or ad hoc preparation).

Necessary repairs should be performed as soon as the need has been identified.

It is important to be able to carry out maintenance as far as possible using readily available products and equipment, without spoiling appearance. Only products which are compatible with the EWIS shall be used.

The information on use, maintenance and repair is given in the manufacturer's technical documentation. It is the responsibility of the manufacturer(s) to ensure that this information is made known to the concerned people.

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

The performances of the kit as described in this chapter are valid provided that the components of the kit comply with Annexes 1 - 4.

### **3.1 Mechanical resistance and stability (BWR 1)**

Refer to BWR3

### 3.2 Safety in case of fire (BWR 2)

Table 2: Reaction to Fire

Configuration	Organic content / Heat of combustion	Flame retardant content	Euroclass according to EN 13501-1
Adhesive	max 0.66 MJ/kg	No flame retardant	
Boards of expanded polystyrene EPS Maximal density of 18 kg/m <sup>3</sup>	-	In quantity ensuring Euroclass E according to EN 13501-1	
Base coat render	max 0.31 MJ/kg		<b>B – s1, d0</b>
Glass fibre mesh	max 8.48 MJ/kg	No flame retardant	
Finishing coats	max 2.27MJ/kg		
Protection coat for the mineral finishing coats	max 5.34MJ/kg		

### 3.3 Hygiene, health and environment (BWR 3)

#### 3.3.1 Water absorption

- Base coats STYRLEP 220 / STYRLEP 220 EXTRA / STYRLEP ELASTYCZNY 220:  
Water absorption after 1 hour: < 1 kg/m<sup>2</sup>  
Water absorption after 24 hours: < 0.5 kg/m<sup>2</sup>
- Rendering system: see Table 3

Table 3

		Water absorption after 24 hours	
		< 0.5 kg/m <sup>2</sup>	≥ 0.5 kg/m <sup>2</sup>
	FARBA AKRYLOWA 001		
	FARBA SILIKATOWA 002		
	POZTYNK - FARBA SILIKONOWA 003/ SZ 062 Kornputz		
	FARBA SILIKONOWA 003 California/ Kornputz		
	FARBA NANOTECH 006/ POZTYNK - BIOFARBA 008 SZ 061 Kratzputz		X
	FARBA SISI 004 Kratzputz		
	FARBA ECO 009		
	FARBA EGALIZACYJNA 005		
Rendering system:			
Base coat	AKRYTYNK 010 Kornputz/ STYRLEP 220/ STYRLEP 220 EXTRA / STYRLEP ELASTYCZNY 220 +	AKRYTYNK 010 Kornputz/ AKRYTYNK 010 California Kornputz AKRYTYNK 010 Kratzputz/ AKRYTYNK 010 California Kratzputz	X
		SILIKOTYNK 030 Kornputz SILIKOTYNK 030 Kratzputz	X
		SILIKON Protect 031 Kornputz SILIKON Protect 031 Kratzputz	X
finishing coats as indicated here with adequate key coat:		SILIKATYNK 020 Kornputz SILIKATYNK 020 Kratzputz	X
		SISITYNK 040 Kornputz/ SISITYNK 040 California Kornputz SISITYNK 040 Kratzputz/ SISITYNK 040 California Kratzputz	X
		ECO TYNK 022 ECO PROTECT Kornputz/ ECO TYNK 022 ECO PROTECT California Kornputz ECO TYNK 022 ECO PROTECT Kratzputz/ ECO TYNK 022 ECO PROTECT California Kratzputz	X
		MAX PROTECT 042 Kornputz MAX PROTECT 042 Kratzputz	X

- Base coat STYRLEP-B 225  
Water absorption after 1 hour < 1 kg/m<sup>2</sup>  
Water absorption after 24 hours < 0.5 kg/m<sup>2</sup>
- Rendering system: See Table 4

Table 4

		Water absorption after 24 hours		
		< 0.5 kg/m <sup>2</sup>	≥ 0.5 kg/m <sup>2</sup>	
Rendering system: Base coat STYRLEP-B 225 + finishing coats as indicated here with or without adequate key coat:	POZTYNK - SZ 062 Kornputz	FARBA AKRYLOWA 001	X	
		FARBA SILIKATOWA 002		
	POZTYNK - SZ 061 Kratzputz	FARBA SILIKONOWA 003/ FARBA SILIKONOWA 003 California/ FARBA NANOTECH 006		
		BIOFARBA 008		
		FARBA SISI 004		
		FARBA ECO 009		
		FARBA EGALIZACYJNA 005		
		AKRYTYNK 010 Kornputz/ AKRYTYNK 010 California Kornputz AKRYTYNK 010 Kratzputz/ AKRYTYNK 010 California Kratzputz	X	
		SILIKOTYNK 030 Kornputz SILIKOTYNK 030 Kratzputz	X	
		SILIKON Protect 031 Kornputz SILIKON Protect 031 Kratzputz	X	
		SILIKATYNK 020 Kornputz SILIKATYNK 020 Kratzputz	X	
		SISITYNK 040 Kornputz/ SISITYNK 040 California Kornputz SISITYNK 040 Kratzputz/ SISITYNK 040 California Kratzputz	X	
		ECO TYNK 022 ECO PROTECT Kornputz/ ECO TYNK 022 ECO PROTECT California Kornputz ECO TYNK 022 ECO PROTECT Kratzputz/ ECO TYNK 022 ECO PROTECT California Kratzputz	X	
		MAX PROTECT 042 Kornputz MAX PROTECT 042 Kratzputz	X	

### 3.3.2 Watertightness

#### 3.3.2.1 Hygrothermal behaviour

Pass (without defects).

#### 3.3.2.2 Freeze-thaw behaviour

Freeze-thaw resistant - according to the water absorption test result.

### 3.3.3 Impact resistance

Table 5

Render coating: base coat <b>STYRLEP 220 / STYRLEP 220 EXTRA / STYRLEP ELASTYCZNY 220 STYRLEP-B 225</b> + reinforcement and finishing coats listed hereafter:	Single standard mesh	Double standard mesh	Single armour layer
POZTYNK - SZ 062 Kornputz + all kinds of protection coats POZTYNK - SZ 061 Kratzputz + all kinds of protection coats	Category III	Category I	Category II
AKRYTYNK 010 Kornputz/ AKRYTYNK 010 California Kornputz AKRYTYNK 010 Kratzputz/ AKRYTYNK 010 California Kratzputz	Category II	Category I	Category I
SILIKOTYNK 030 Kornputz SILIKOTYNK 030 Kratzputz			
SILIKON Protect 031 Kornputz SILIKON Protect 031 Kratzputz			
SILIKATYNK 020 Kornputz SILIKATYNK 020 Kratzputz	Category III	Category II	Category I
SISITYNK 040 Kornputz/ SISITYNK 040 California Kornputz SISITYNK 040 Kratzputz/ SISITYNK 040 California Kratzputz	Category II	Category I	Category I
ECO TYNK 022 ECO PROTECT Kornputz/ ECO TYNK 022 ECO PROTECT California Kornputz ECO TYNK 022 ECO PROTECT Kratzputz/ ECO TYNK 022 ECO PROTECT California Kratzputz	Category II	Category I	Category I
MAX PROTECT 042 Kornputz MAX PROTECT 042 Kratzputz	Category II	Category I	Category I

### 3.3.4 Water vapour permeability

Table 6

<b>Rendering system:</b> base coat <b>STYRLEP 220/ STYRLEP 220 EXTRA/                      STYRLEP ELASTYCZNY 220</b> + reinforcement and finishing coats with adequate key coats indicated hereafter	Equivalent air layer thickness $s_d$	
	Single standard mesh	Double standard mesh or single armour mesh
POZTYNK - SZ 062 Kornputz + all kinds of protection coats POZTYNK - SZ 061 Kratzputz + all kinds of protection coats	$\leq 0.26$ m	$\leq 0.26$ m
AKRYTYNK 010 Kornputz/ AKRYTYNK 010 California Kornputz AKRYTYNK 010 Kratzputz/ AKRYTYNK 010 California Kratzputz	$\leq 0.36$ m	$\leq 0.44$ m
SILIKOTYNK 030 Kornputz SILIKOTYNK 030 Kratzputz	$\leq 0.37$ m	$\leq 0.47$ m
SILIKON Protect 031 Kornputz SILIKON Protect 031 Kratzputz	$\leq 0.19$ m	$\leq 0.20$ m
SILIKATYNK 020 Kornputz SILIKATYNK 020 Kratzputz	$\leq 0.26$ m	$\leq 0.29$ m
SISITYNK 040 Kornputz/ SISITYNK 040 California Kornputz SISITYNK 040 Kratzputz/ SISITYNK 040 California Kratzputz	$\leq 0.35$ m	$\leq 0.38$ m
ECO TYNK 022 ECO PROTECT Kornputz/ ECO TYNK 022 ECO PROTECT California Kornputz ECO TYNK 022 ECO PROTECT Kratzputz/ ECO TYNK 022 ECO PROTECT California Kratzputz	$\leq 0.35$ m	$\leq 0.38$ m
MAX PROTECT 042 Kornputz MAX PROTECT 042 Kratzputz	$\leq 0.33$ m	$\leq 0.35$ m

**Table 7**

<b>Rendering system:</b> base coat <b>STYRLEP-B 225</b> + reinforcement and finishing coats with adequate key coats indicated hereafter	<b>Equivalent air layer thickness <math>s_d</math></b>	
	<b>Single standard mesh</b>	<b>Double standard mesh or single armour mesh</b>
POZTYNK - SZ 062 Kornputz + all kinds of protection coats POZTYNK - SZ 061 Kratzputz + all kinds of protection coats	$\leq 0.27$ m	$\leq 0.27$ m
AKRYTYNK 010 Kornputz/ AKRYTYNK 010 California Kornputz AKRYTYNK 010 Kratzputz/ AKRYTYNK 010 California Kratzputz	$\leq 0.35$ m	$\leq 0.48$ m
SILIKOTYNK 030 Kornputz SILIKOTYNK 030 Kratzputz	$\leq 0.38$ m	$\leq 0.46$ m
SILIKON Protect 031 Kornputz SILIKON Protect 031 Kratzputz	$\leq 0.23$ m	$\leq 0.27$ m
SILIKATYNK 020 Kornputz SILIKATYNK 020 Kratzputz	$\leq 0.27$ m	$\leq 0.29$ m
SISITYNK 040 Kornputz/ SISITYNK 040 California Kornputz SISITYNK 040 Kratzputz/ SISITYNK 040 California Kratzputz	$\leq 0.35$ m	$\leq 0.38$ m
ECO TYNK 022 ECO PROTECT Kornputz/ ECO TYNK 022 ECO PROTECT California Kornputz ECO TYNK 022 ECO PROTECT Kratzputz/ ECO TYNK 022 ECO PROTECT California Kratzputz	$\leq 0.35$ m	$\leq 0.38$ m
MAX PROTECT 042 Kornputz MAX PROTECT 042 Kratzputz	$\leq 0.41$ m	$\leq 0.42$ m



**Table 8**

<b>Rendering system:</b> base coat <b>STYRLEP-B 225</b> + reinforcement and finishing coats without key coats indicated hereafter	<b>Equivalent air layer thickness <math>s_d</math></b>	
	<b>Single standard mesh</b>	<b>Double standard mesh or single armour mesh</b>
POZTYNK - SZ 062 Kornputz + all kinds of protection coats POZTYNK - SZ 061 Kratzputz + all kinds of protection coats	$\leq 0.22$ m	$\leq 0.22$ m
AKRYTYNK 010 Kornputz/ AKRYTYNK 010 California Kornputz AKRYTYNK 010 Kratzputz/ AKRYTYNK 010 California Kratzputz	$\leq 0.35$ m	$\leq 0.45$ m
SILIKOTYNK 030 Kornputz SILIKOTYNK 030 Kratzputz	$\leq 0.35$ m	$\leq 0.45$ m
SILIKON Protect 031 Kornputz SILIKON Protect 031 Kratzputz	$\leq 0.22$ m	$\leq 0.27$ m
SILIKATYNK 020 Kornputz SILIKATYNK 020 Kratzputz	$\leq 0.26$ m	$\leq 0.27$ m
SISITYNK 040 Kornputz/ SISITYNK 040 California Kornputz SISITYNK 040 Kratzputz/ SISITYNK 040 California Kratzputz	$\leq 0.27$ m	$\leq 0.29$ m
ECO TYNK 022 ECO PROTECT Kornputz/ ECO TYNK 022 ECO PROTECT California Kornputz ECO TYNK 022 ECO PROTECT Kratzputz/ ECO TYNK 022 ECO PROTECT California Kratzputz	$\leq 0.27$ m	$\leq 0.29$ m
MAX PROTECT 042 Kornputz MAX PROTECT 042 Kratzputz	$\leq 0.36$ m	$\leq 0.38$ m

**3.3.5 Release of dangerous substances**

Kit not assessed according to EOTA TR 034.

### 3.4 Safety and accessibility in use (BWR 4)

#### 3.4.1 Bond strength between base coat and insulation product

- **STYRLEP 220 / STYRLEP 220 EXTRA / STYRLEP ELASTYCZNY 220**
- **STYRLEP-B 225**
- Initial state: bond strength  $\geq 0.080$  MPa and a cohesive failure in the insulation product
- After hygrothermal cycles: bond strength  $\geq 0.080$  MPa and a cohesive failure in the insulation product
- After freeze-thaw cycles: test not required

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

Table 9

		Initial state	48 hrs. immersion in water + 2 hrs. 23°C/50% RH	48 hrs. immersion in water + 7 days 23°C/50% RH
LEPSTYR 210/ LEPSTYR 210 EXTRA/ LEPSTYR ELASTYCZNY 210 STYRLEP-B 225, STYRLEP 220 / STYRLEP 220 EXTRA / STYRLEP ELASTYCZNY 220	Concrete	$\geq 0.25$ MPa	$\geq 0.08$ MPa	$\geq 0.25$ MPa
	Expanded polystyrene (EPS)	$\geq 0.08$ MPa	$\geq 0.03$ MPa	$\geq 0.08$ MPa

#### 3.4.3 Bond strength after ageing

- After ageing by hygrothermal cycles: bond strength  $\geq 0.080$  MPa and a cohesive failure in the insulation product
- After 7 days of immersion in water and 7 days of drying :  $\geq 0.008$  MPa and cohesive failure in an insulation product
- After freeze-thaw cycles: test not required

#### 3.4.4 Fixing strength

Test not required (no limitation of EWIS length).

### 3.4.5 Wind load resistance

Table 10

Anchor description	Trade name		See 0		Hilti D 8-FV (ETA 07/0288)
			Surface assembly	Countersunk assembly	Special assembly
	Plate diameter (mm)		60 or more	60 or more	60 or more
EPS	Thickness (mm)		≥ 50	≥ 100	≥ 100
	Tensile strength perpendicular to faces (kPa)		≥ 109.0 in dry condition		≥ 104.0 in dry condition
Maximal load	Anchors placed at the body of the insulation product	R <sub>panel</sub>	min. value: 0.44 kN mean value: 0.46 kN	min. value: 0.44 kN mean value: 0.46 kN	min. value: 0.39 kN mean value: 0.41 kN
	Anchors placed at joints of the insulation product	R <sub>joint</sub>	min. value: 0.44 kN mean value: 0.47 kN	min. value: 0.44 kN mean value: 0.47 kN	No performance assessed

Table 11

Anchor description	Trade name		Hilti HTH (ETA-15/0464)	Hilti HTH (ETA-15/0464)	fischer termoz SV II ecotwist (ETA12/0208)
	Assembly method		Speciální montáž	Special assembly	Special assembly
	Plate diameter (mm)		60	60	60 or more
EPS	Thickness (mm)		≥ 100	≥ 100	≥ 100
	Tensile strength perpendicular to faces (kPa)		≥ 100 in dry condition	≥ 151.9 in dry condition	≥ 95.6 in dry condition
Maximal load	Anchors placed at the body of the insulation product	R <sub>panel</sub>	min. value: 0.57 kN mean value: 0.60 kN	min. value: 0.64 kN mean value: 0.68 kN	min. value: 0.49 kN mean value: 0.53 kN
	Anchors placed at joints of the insulation product	R <sub>joint</sub>	min. value: 0.48 kN mean value: 0.53 kN	min. value: 0.54 kN mean value: 0.60 kN	min. value: 0.44 kN mean value: 0.48 N

### 3.4.6 Render strip tensile test

- Base coat: **STYRLEP 220 / STYRLEP 220 EXTRA / STYRLEP ELASTYCZNY 220**

No performance assessed for glass fibre mesh **SSA-1363-4 SM**.

Table 12		Glass fibre mesh <b>R 117 A101 / AKE 145</b> (manufacturer: SAINT-GOBAIN ADFORS CZ s.r.o.)				
		Crack width $W_{typ}$ [mm]/ number of cracks at relative elongation $\epsilon$				
Load direction		$\epsilon = 0.3 \%$	$\epsilon = 0.5 \%$	$\epsilon = 0.8 \%$	$\epsilon = 1.0 \%$	$\epsilon = 2.0 \%$
<b>Plane side of the test specimen</b>						
No performance assessed						
<b>Coarse side of the test specimen</b>						
Warp	Sample No. 1	-	≤ 0.05/1	≤ 0.10/2	≤ 0.10/4	≤ 0.15/11
	Sample No. 2	-	-	≤ 0.05/3	≤ 0.10/6	≤ 0.15/11
	Sample No. 3	-	-	≤ 0.05/2	≤ 0.10/5	≤ 0.15/9
Weft	Sample No. 1	-	-	≤ 0.05/3	≤ 0.10/7	≤ 0.15/12
	Sample No. 2	-	-	≤ 0.05/3	≤ 0.10/8	≤ 0.15/13
	Sample No. 3	-	-	≤ 0.05/4	≤ 0.10/8	≤ 0.15/11

Table 13		Glass fibre mesh <b>R 131 A101 / AKE 160</b> (manufacturer: SAINT-GOBAIN ADFORS CZ s.r.o.)				
		Crack width $W_{typ}$ [mm]/ number of cracks at relative elongation $\epsilon$				
Load direction		$\epsilon = 0.3 \%$	$\epsilon = 0.5 \%$	$\epsilon = 0.8 \%$	$\epsilon = 1.0 \%$	$\epsilon = 2.0 \%$
<b>Plane side of the test specimen</b>						
No performance assessed						
<b>Coarse side of the test specimen</b>						
Warp	Sample No. 1	-	-	≤ 0.05/3	≤ 0.10/5	≤ 0.15/9
	Sample No. 2	-	-	≤ 0.05/2	≤ 0.10/5	≤ 0.15/11
	Sample No. 3	-	-	≤ 0.05/2	≤ 0.10/6	≤ 0.15/12
Weft	Sample No. 1	-	-	≤ 0.05/4	≤ 0.10/8	≤ 0.15/12
	Sample No. 2	-	-	≤ 0.05/3	≤ 0.10/6	≤ 0.15/13
	Sample No. 3	-	-	≤ 0.05/4	≤ 0.05/6	≤ 0.10/12

Table 14

		Glass fibre mesh <b>167 A101</b> (manufacturer: SAINT-GOBAIN ADFORS CZ s.r.o.)				
		Crack width $W_{typ}$ [mm]/ number of cracks at relative elongation $\epsilon$				
Load direction		$\epsilon = 0.3 \%$	$\epsilon = 0.5 \%$	$\epsilon = 0.8 \%$	$\epsilon = 1.0 \%$	$\epsilon = 2.0 \%$
<b>Plane side of the test specimen</b>						
No performance assessed						
<b>Coarse side of the test specimen</b>						
Warp	Sample No. 1	-	-	$\leq 0.05/3$	$\leq 0.10/7$	$\leq 0.15/11$
	Sample No. 2	-	-	$\leq 0.05/4$	$\leq 0.05/9$	$\leq 0.10/10$
	Sample No. 3	-	-	$\leq 0.05/3$	$\leq 0.10/7$	$\leq 0.15/12$
Weft	Sample No. 1	-	-	-	$\leq 0.05/5$	$\leq 0.10/12$
	Sample No. 2	-	-	-	$\leq 0.05/6$	$\leq 0.10/14$
	Sample No. 3	-	-	-	$\leq 0.05/5$	$\leq 0.10/14$

Table 15

		Glass fibre mesh <b>REDNET CB330 NOVA</b> (manufacturer: ASGLATEX Ohorn GmbH)					
		Crack width $W_{typ}$ [mm]/ number of cracks at relative elongation $\epsilon$					
Load direction		$\epsilon = 0.3 \%$	$\epsilon = 0.5 \%$	$\epsilon = 0.8 \%$	$\epsilon = 1.0 \%$	$\epsilon = 1.5 \%$	$\epsilon = 2.0 \%$
<b>Plane side of the test specimen</b>							
No performance assessed							
<b>Coarse side of the test specimen</b>							
Warp	Sample No. 1	-	-	-	$\leq 0.05/2$	$\leq 0.05/6$	$\leq 0.05/5$ $\leq 0.10/2$ $\leq 0.15/1$
	Sample No. 2	-	-	-	$\leq 0.05/1$	$\leq 0.05/5$ $\leq 0.10/1$ $\leq 0.15/1$	$\leq 0.05/5$ $\leq 0.10/2$ $\leq 0.15/2$
	Sample No. 3	-	-	-	$\leq 0.05/1$	$\leq 0.05/5$ $\leq 0.10/2$	$\leq 0.05/5$ $\leq 0.10/3$ $\leq 0.15/2$
Weft	Sample No. 1	-	-	-	-	$\leq 0.05/7$	$\leq 0.05/10$ $\leq 0.10/2$
	Sample No. 2	-	-	-	-	$\leq 0.05/5$	$\leq 0.05/7$ $\leq 0.10/3$
	Sample No. 3	-	-	-	-	$\leq 0.05/6$	$\leq 0.05/8$ $\leq 0.10/2$

The characteristic crack width  $W_{rk}$  [mm] at a render strain value of 0.8%, determined with simple Method II.

Table 16		Characteristic width of cracks $W_{rk}$ [mm] at render strain value of 0.8%			
		Plane side of the test specimen		Coarse side of the test specimen	
		Warp direction	Weft direction	Warp direction	Weft direction
R 117 A101 / AKE 145		No performance assessed		0.141	0.050
R 131 A101 / AKE 160				0.050	0.050
R 167 A101				0.050	0.000
REDNET CB330 NOVA				0.000	0.000

The width of cracks in reinforced base coat at 2% elongation is equal or lower than 0.15 mm.

- Base coat **STYRLEP-B 225**

No performance assessed for glass fibre mesh **SSA-1363-4 SM**.

Table 17		Glass fibre mesh R 117 A101 / AKE 145 (manufacturer: SAINT-GOBAIN ADFORS CZ s.r.o.)				
		Crack width $W_{typ}$ [mm]/ number of cracks at relative elongation $\epsilon$				
Load direction		$\epsilon = 0.3 \%$	$\epsilon = 0.5 \%$	$\epsilon = 0.8 \%$	$\epsilon = 1.0 \%$	$\epsilon = 2.0 \%$
Plane side of the test specimen						
No performance assessed						
Coarse side of the test specimen						
Warp	Sample No. 1	-	-	$\leq 0.05/4$	$\leq 0.10/6$	$\leq 0.15/8$
	Sample No. 2	-	-	$\leq 0.05/5$	$\leq 0.10/6$	$\leq 0.15/10$
	Sample No. 3	-	-	$\leq 0.05/3$	$\leq 0.10/5$	$\leq 0.15/9$
Weft	Sample No. 1	-	$\leq 0.05/3$	$\leq 0.10/6$	$\leq 0.15/9$	$\leq 0.20/12$
	Sample No. 2	-	$\leq 0.05/3$	$\leq 0.10/7$	$\leq 0.15/8$	$\leq 0.20/13$
	Sample No. 3	-	$\leq 0.05/3$	$\leq 0.10/6$	$\leq 0.15/9$	$\leq 0.20/12$

Table 18		Glass fibre mesh <b>R 131 A101 / AKE 160</b> (manufacturer: SAINT-GOBAIN ADFORS CZ s.r.o.)				
		<b>Crack width <math>W_{typ}</math> [mm]/ number of cracks at relative elongation <math>\epsilon</math></b>				
<b>Load direction</b>		$\epsilon = 0.3 \%$	$\epsilon = 0.5 \%$	$\epsilon = 0.8 \%$	$\epsilon = 1.0 \%$	$\epsilon = 2.0 \%$
<b>Plane side of the test specimen</b>						
No performance assessed						
<b>Coarse side of the test specimen</b>						
Warp	Sample No. 1	-	-	$\leq 0.05/4$	$\leq 0.10/8$	$\leq 0.15/12$
	Sample No. 2	-	-	$\leq 0.05/3$	$\leq 0.10/9$	$\leq 0.15/14$
	Sample No. 3	-	-	$\leq 0.05/3$	$\leq 0.10/7$	$\leq 0.15/12$
Weft	Sample No. 1	-	-	$\leq 0.05/5$	$\leq 0.10/8$	$\leq 0.15/11$
	Sample No. 2	-	-	$\leq 0.05/5$	$\leq 0.10/9$	$\leq 0.15/14$
	Sample No. 3	-	-	$\leq 0.05/4$	$\leq 0.10/9$	$\leq 0.15/13$

Table 19		Glass fibre mesh <b>167 A101</b> (manufacturer: SAINT-GOBAIN ADFORS CZ s.r.o.)				
		<b>Crack width <math>W_{typ}</math> [mm]/ number of cracks at relative elongation <math>\epsilon</math></b>				
<b>Load direction</b>		$\epsilon = 0.3 \%$	$\epsilon = 0.5 \%$	$\epsilon = 0.8 \%$	$\epsilon = 1.0 \%$	$\epsilon = 2.0 \%$
<b>Plane side of the test specimen</b>						
No performance assessed						
<b>Coarse side of the test specimen</b>						
Warp	Sample No. 1	-	-	-	$\leq 0.05/7$	$\leq 0.10/10$
	Sample No. 2	-	-	-	$\leq 0.05/9$	$\leq 0.10/12$
	Sample No. 3	-	-	-	$\leq 0.05/8$	$\leq 0.10/11$
Weft	Sample No. 1	-	-	-	$\leq 0.05/7$	$\leq 0.10/13$
	Sample No. 2	-	-	-	$\leq 0.05/6$	$\leq 0.10/15$
	Sample No. 3	-	-	-	$\leq 0.05/9$	$\leq 0.10/14$

Table 20		Glass fibre mesh <b>REDNET CB330 NOVA</b> (manufacturer: ASGLATEX Ohorn GmbH)					
		Crack width $W_{typ}$ [mm]/ number of cracks at relative elongation $\epsilon$					
Load direction		$\epsilon = 0.3 \%$	$\epsilon = 0.5 \%$	$\epsilon = 0.8 \%$	$\epsilon = 1.0 \%$	$\epsilon = 1.5 \%$	$\epsilon = 2.0 \%$
<b>Plane side of the test specimen</b>							
No performance assessed							
<b>Coarse side of the test specimen</b>							
Warp	Sample No. 1	-	-	-	$\leq 0.05/1$	$\leq 0.05/4$	$\leq 0.05/4$ $\leq 0.10/1$
	Sample No. 2	-	-	-	-	$\leq 0.05/3$	$\leq 0.05/5$
	Sample No. 3	-	-	-	$\leq 0.05/1$	$\leq 0.05/4$	$\leq 0.05/5$ $\leq 0.10/1$
Weft	Sample No. 1	-	-	-	-	-	$\leq 0.05/3$
	Sample No. 2	-	-	-	-	-	$\leq 0.05/2$
	Sample No. 3	-	-	-	-	-	$\leq 0.05/3$

The characteristic crack width  $W_{rk}$  [mm] at a render strain value of 0.8%, determined with simple Method II.

Table 21		Characteristic width of cracks $W_{rk}$ [mm] at render strain value of 0.8%			
		Plane side of the test specimen		Coarse side of the test specimen	
		Warp direction	Weft direction	Warp direction	Weft direction
R 117 A101 / AKE 145		No performance assessed		0.050	0.100
R 131 A101 / AKE 160				0.050	0.050
R 167 A101				0.000	0.000
REDNET CB330 NOVA				0.000	0.000

The width of cracks in reinforced base coat at 2% elongation is equal or lower than 0.20 mm.

### 3.5 Protection against noise (BWR 5)

No performance assessed.



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

Thermal resistance

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

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

Where:

- $\chi_p \times n$  has only to be considered if it is greater than 0.04 W/(m<sup>2</sup>.K)
- $U_c$  global (corrected) thermal transmittance of the covered wall (W/ (m<sup>2</sup>.K))
- $n$  number of anchors (through insulation product) per 1 m<sup>2</sup>
- $\chi_p$  local influence of thermal bridge caused by an anchor. The values listed below can be taken into account if not specified elsewhere:  
= 0.002 W/K for anchors with a stainless steel screw covered by plastic anchors and for anchors with an air gap at the head of the screw  
( $\chi_p \times n$  negligible for  $n < 20$ )  
= 0.004 W/K for anchors with a galvanized steel screw with the head covered by a plastic material  
( $\chi_p \times n$  negligible for  $n < 10$ )  
= negligible for anchors with plastic nails (reinforced or not with glass fibres ...)
- $U$  thermal transmittance of the current part of the covered wall (excluding thermal bridges) (W/ (m<sup>2</sup>.K)) determined as follows:

$$U_c = \frac{1}{R_i + R_{render} + R_{substrate} + R_{se} + R_{si}}$$

Where:

- $R_i$  thermal resistance of the insulation product (according to declaration in reference to EN 13163) in (m<sup>2</sup>.K)/W
- $R_{render}$  thermal resistance of the rendering system (about 0.02 in (m<sup>2</sup>.K)/W) or determined by test according to EN 12667 or EN 12664
- $R_{substrate}$  thermal resistance of the substrate of the building (concrete, brick ...) in (m<sup>2</sup>.K)/W
- $R_{se}$  external superficial thermal resistance in (m<sup>2</sup>.K)/W
- $R_{si}$  internal superficial thermal resistance in (m<sup>2</sup>.K)/W

The value of thermal resistance of each 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

According to UKAD 040083-00-0404 and Annex V of the Construction Products Regulation (Regulation (EU) 305/2011 as bought into UK law and amended, the system of assessment and verification of constancy of performance 1 and 2+ applies (see Table 22).

Table 22

Product(s)	Intended use(s)	Level(s) or class(es) (Reaction to fire)	System(s)
External thermal insulation composite systems/kits (EWIS) with rendering	In external wall subject to fire regulations	A1 <sup>(1)</sup> , A2 <sup>(1)</sup> , B <sup>(1)</sup> , C <sup>(1)</sup>	1
		A1 <sup>(2)</sup> , A2 <sup>(2)</sup> , B <sup>(2)</sup> , C <sup>(2)</sup> , D, E, (A1 to E) <sup>(3)</sup> , 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 Classes 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: 1 November 2022

**Hardy Giesler**  
Chief Executive Officer



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## **ANNEXES**

Those annexes apply to the product described in the main body of the UK Technical Assessment.

Annex 1	Insulation product characteristics
Annex 2	Anchors, description of individual product characteristics contained in the UKTA
Annex 3	Description of glass fibre mesh
Annex 4	Alternative trade names of the components

## ANNEX 1: Insulation product characteristics

Description and characteristics		Regulation	Declared characteristics of EPS boards	
			Class, level according to EN 13163	Value
Reaction to fire		EN 13501-1+A1	E	Apparent density $\leq 18 \text{ kg/m}^3$
Thermal resistance		EN 12667	Defined in CE mark in accordance with EN 13163	
Thickness		EN 823	T(1)	$\pm 1 \text{ mm}$
Length		EN 822	L(2)	$\pm 2 \text{ mm}$
Width			W(2)	$\pm 2 \text{ mm}$
Squareness		EN 824	S(2)	$\pm 2 \text{ mm/m}$
Flatness		EN 825	P(3)	3 mm
Surface		EWIS 004	Cut surface (homogenous, without coating)	
Dimensional stability	Under defined temperature and humidity conditions	EN 1604	DS(70,-)2	2%
	Under constant laboratory conditions	EN 1603	DS(N)2	0.2%
Short term water absorption at partial immersion		EN 1609	---	$< 1 \text{ kg/m}^2$
Diffusion factor ( $\mu$ )		EN 13163	MU 20 – 40 MU 30 – 70	20 - 70
Tensile strength perpendicular to the faces of insulation product		EN 1607	TR100	$\geq 100 \text{ kPa}$
Shear strength		EN 12090	SS20	$\geq 20 \text{ kPa}$
Shear modulus of elasticity			GM1000	$\geq 1000 \text{ kPa}$

**Note:** Classes and levels for individual characteristics comply with EN 13163:2012+A1:2015. Only insulation products of the same or better declared characteristics, as stated in the table above, can be used in this EWIS.

Reaction to fire E has to be proved for every insulation product also at 10 mm products thickness.

**ANNEX 2: Anchors, description of individual product characteristics contained in the UKTA**

Trade name	Plate diameter (mm)	Characteristic pull-out resistance	Plate stiffness (kN/mm)	Load at plate rupture (kN)
<b>Surface assembly</b>				
<b>Ejotherm STR U 2G</b>	60	ETA-04/0023	0.60	2.08
<b>EJOT H1 eco</b>	60	ETA-11/0192	0.60	1.40
<b>EJOT H4 eco</b>				
<b>EJOT H3</b>	60	ETA-14/0130	0.60	1.25
<b>BRAVOLL® PTH-KZ 60/8</b>	60	ETA-05/0055	0.70	2.10
<b>BRAVOLL® PTH-S</b>	60	ETA-08/0267	0.90	2.60
<b>BRAVOLL® PTH-SX</b>	60	ETA-10/0028	0.70	1.80
<b>BRAVOLL® PTH-X</b>	60	ETA-13/0951	0.60	1.50
<b>BRAVOLL® PTH-EX</b>			0.60	1.40
<b>KEW TSDL-V</b>	60	ETA-12/0148	1.20	1.75
<b>KOELNER TFIX-8M</b>	60	ETA-07/0336	1.00	1.75
<b>KOELNER KI-10, KI-10PA</b>	60	ETA-07/0291	0.39	0.81
<b>KOELNER KI-10M</b>			0.45	0.85
<b>KOELNER KI-10N, KI-10NS</b>	60	ETA 07/0221	0.50	1.23
<b>KOELNER TFIX-8S, TFIX-8ST</b>	60	ETA-11/0144	0.60	2.04
<b>KOELNER TFIX-8P</b>	60	ETA-13/0845	0.30	1.38
<b>WK THERM 8</b>	60	ETA-11/0232	0.60	4.30
<b>Klimas Wkret-met eco-drive</b>	60	ETA-13/0107	0.60	2.80
<b>WK THERM S</b>	60	ETA-13/0724	0.60	4.30
<b>FIXPLUG 8</b>	60	ETA-15/0373	0.60	1.40
<b>FIXPLUG 10</b>	60	ETA-15/0373	0.60	1.60
<b>LMX 8</b>	60	ETA-16/0509	0.50	1.09
<b>LMX 10</b>	60	ETA-16/0509	0.50	1.02
<b>LTX 8</b>	60	ETA-16/0509	0.50	1.09
<b>LTX 10</b>	60	ETA-16/0509	0.50	1.02

Trade name	Plate diameter (mm)	Characteristic pull-out resistance	Plate stiffness (kN/mm)	Load at plate rupture (kN)
fischer TERMOZ 8U	60	ETA-02/0019	0.50	2.45
fischer TERMOZ 8SV	60	ETA-06/0180	1.10	2.13
fischer TERMOFIX CF 8	60	ETA-07/0287	0.50	1.65
fischer TERMOZ PN 8	60	ETA-09/0171	0.40	1.60
fischer TERMOZ CN 8	60	ETA-09/0394	0.40	1.60
fischer termoz CS 8	60	ETA-14/0372	0.60	1.70
Hilti SDK - FV	60	ETA-07/0302	0.50	1.48
Hilti D8 - FV	60	ETA-07/0288	-	-
T-Save HTS-P	60	ETA-10/0400	0.60	1.40
HTR-M	60	ETA-16/0116	0.60	1.40
HTR-P	60	ETA-16/0116	0.60	1.40
T-Save HTS-M	60	ETA-14/0400	0.60	1.40
Plates anchor TTH 10/60-La	60	ETA-09/0318	0.90	1.79
<b>Countersunk assembly</b>				
Ejotherm STR U 2G	60	ETA-04/0023	0.60	2.08
BRAVOLL® PTH-S	60	ETA-08/0267	0.90	2.60
BRAVOLL® PTH-SX	60	ETA-10/0028	0.70	1.80
fischer TERMOZ 8 SV	60	ETA-06/0180	1.10	2.13
fischer termoz CS 8	60	ETA-14/0372	0.60	1.70
eco-drive	60	ETA-13/0107	0.60	2.80
eco-drive S	60	ETA-13/0107	0.60	2.80
KOELNER TFIX-8ST	60	ETA-11/0144	0.60	2.04
KEW TSBD 8	60	ETA-08/0314	1.60	2.22
<b>Special assembly</b>				
fischer termoz SV II ecotwist	60	ETA-12/0208	0.96	1.9
Hilti D 8-FV	60	ETA-07/0288	0.96	1.90
HTH	60	ETA-15/0464	-	-
ThermoScrew TS U8 Gecko	60	ETA-16/0100	-	-

In addition to this list, anchors with UKTA according to UKAD 330196-00-0604 can be used provided that such anchors meet the following requirements:

	<b>Requirements</b>	
Plate diameter	≥ 60 mm	
Plate stiffness	Surface assembly:	≥ 0.3 kN/mm
	Countersunk assembly:	≥ 0.6 kN/mm
Rupture force of anchor's plate	≥ Higher of figures $R_{panel}$ and $R_{joint}$ in relevant table in Cl. 0	



**ANNEX 3: Description of glass fibre mesh**

	Description	Strength after ageing	
	Standard fibre mesh applied in one or two layers with aperture size	Absolute strength after ageing (N/mm)	Relative residual strength after ageing, of the strength in the as-delivered state (%)
<b>R117 A101 / AKE 145</b>	4.0 x 4.5 mm	≥ 20	≥ 50
<b>R 131 A101 / AKE 160</b>	3.5 x 3.8 mm		
<b>R 167 A101</b>	6.0 x 7.0 mm		
<b>SSA-1363-4 SM</b>	4.0 x 5.0 mm		

	Description	Strength after ageing	
	Armour fibre mesh applied in one layer with aperture size	Absolute strength after ageing (N/mm)	Relative residual strength after ageing, of the strength in the as-delivered state (%)
<b>REDNET CB330 NOVA</b>	6.0 x 5.0 mm	≥ 20	≥ 40

**ANNEX 4: Alternative trade names of the components**

Original trade names of the components	Alternative trade names of the components
Name of EWIS:	
<b>EWIS KREISEL SYSTEMS EPS</b>	<p style="text-align: center;">           TURBO TERMOFIX            TURBO PSB            TURBO PROFIT            TURBO FACHMANN            TURBO GO/ON            TURBO PERFECT            TURBO ENERGOFIX            TURBO CEMAX            TURBO NOVIPRO            TURBO TERMODER            TURBO BEST            TURBO UNITERM PLUS            TURBO PROFITERM            TURBO EKONOMI            TURBO KTB            TURBO GHB            TURBO FEST            TURBO MAXITERM            TURBO OPTITERM            TURBO FERROTERM            TURBO TERMOTOP            TURBO TERMOSYSTEM            TURBO TERMIX            TURBO U-SYSTEM            TURBO FLEXELL            TURBO-Z         </p>
Name of EWIS:	
<b>EWIS KREISEL SYSTEMS EPS</b>	<p style="text-align: center;">           TURBO-S TERMOFIX            TURBO-S PSB            TURBO-S PROFIT            TURBO-S FACHMANN            TURBO-S GO/ON            TURBO-S PERFECT            TURBO-S ENERGOFIX            TURBO-S CEMAX            TURBO-S NOVIPRO            TURBO-S TERMODER            TURBO-S BEST            TURBO-S UNITERM PLUS            TURBO-S PROFITERM            TURBO-S EKONOMI            TURBO-S KTB            TURBO-S GHB            TURBO-S FEST            TURBO-S MAXITERM            TURBO-S OPTITERM            TURBO-S FERROTERM            TURBO-S TERMOTOP            TURBO-S TERMOSYSTEM            TURBO-S TERMIX            TURBO-S U-SYSTEM            TURBO-S FLEXELL            TURBO-Z S         </p>

Name of EWIS:	
<b>EWIS KREISEL SYSTEMS EPS</b>	TURBO-SA TERMOFIX TURBO-SA PSB TURBO-SA PROFIT TURBO-SA FACHMANN TURBO-SA GO/ON TURBO-SA PERFECT TURBO-SA ENERGOFIX / TURBO-SA CEMAX TURBO-SA NOVIPRO TURBO-SA TERMODER TURBO-SA BEST TURBO-SA UNITERM PLUS TURBO-SA PROFITERM TURBO-SA EKONOMI TURBO-SA KTB TURBO-SA GHB TURBO-SA FEST TURBO-SA MAXITERM TURBO-SA OPTITERM TURBO-SA FERROTERM TURBO-SA TERMOTOP TURBO-SA TERMOSYSTEM TURBO-SA TERMIX TURBO-SA U-SYSTEM TURBO-SA FLEXELL TURBO-Z SA
Name of EWIS:	
<b>EWIS KREISEL SYSTEMS EPS</b>	TURBO-SO TERMOFIX TURBO-SO PSB TURBO-SO PROFIT TURBO-SO FACHMANN TURBO-SO GO/ON TURBO-SO PERFECT TURBO-SO ENERGOFIX TURBO-SO CEMAX TURBO-SO NOVIPRO TURBO-SO TERMODER TURBO-SO BEST TURBO-SO UNITERM PLUS TURBO-SO PROFITERM TURBO-SO EKONOMI TURBO-SO KTB TURBO-SO GHB TURBO-SO FEST TURBO-SO MAXITERM TURBO-SO OPTITERM TURBO-SO FERROTERM TURBO-SO TERMOTOP TURBO-SO TERMOSYSTEM TURBO-SO TERMIX TURBO-SO U-SYSTEM TURBO-SO FLEXELL TURBO-Z SO TURBO-SO TOTEN

Name of EWIS:	
<b>EWIS KREISEL SYSTEMS EPS</b>	<p>           TURBO-SO PROTECT TERMOFIX            TURBO-SO PROTECT PSB            TURBO-SO PROTECT PROFIT            TURBO-SO PROTECT FACHMANN            TURBO-SO PROTECT GO/ON            TURBO-SO PROTECT PERFECT            TURBO-SO PROTECT ENERGOFIX            TURBO-SO PROTECT CEMAX            TURBO-SO PROTECT NOVIPRO            TURBO-SO PROTECT TERMODER            TURBO-SO PROTECT BEST            TURBO-SO PROTECT UNITERM PLUS            TURBO-SO PROTECT PROFITERM            TURBO-SO PROTECT EKONOMI            TURBO-SO PROTECT KTB            TURBO-SO PROTECT GHB            TURBO-SO PROTECT FEST            TURBO-SO PROTECT MAXITERM            TURBO-SO OPTITERM            TURBO-SO FERROTERM            TURBO-SO TERMOTOP            TURBO-SO PROTECT            TERMOSYSTEM            TURBO-SO PROTECT TERMIX            TURBO-SO PROTECT U-SYSTEM            TURBO-SO PROTECT FLEXELL            TURBO-Z SO PROTECT         </p>
Name of EWIS:	
<b>EWIS KREISEL SYSTEMS EPS</b>	<p>           TURBO-SISI TERMOFIX            TURBO-SISI PSB            TURBO-SISI PROFIT            TURBO-SISI FACHMANN            TURBO-SISI GO/ON            TURBO-SISI PERFECT            TURBO-SISI ENERGOFIX            TURBO-SISI CEMAX            TURBO-SISI NOVIPRO            TURBO-SISI TERMODER            TURBO-SISI BEST            TURBO-SISI UNITERM PLUS            TURBO-SISI PROFITERM            TURBO-SISI EKONOMI            TURBO-SISI KTB            TURBO-SISI GHB            TURBO-SISI FEST            TURBO-SISI MAXITERM            TURBO-SISI OPTITERM            TURBO-SISI FERROTERM            TURBO-SISI TERMOTOP            TURBO-SISI TERMOSYSTEM            TURBO-SISI TERMIX            TURBO-SISI U-SYSTEM            TURBO-SISI FLEXELL            TURBO-Z SISI         </p>

Name of EWIS:	
<b>EWIS KREISEL SYSTEMS EPS</b>	TURBO-MAX PROTECT TERMOFIX TURBO- MAX PROTECT PSB TURBO- MAX PROTECT PROFIT TURBO- MAX PROTECT FACHMANN TURBO- MAX PROTECT GO/ON TURBO- MAX PROTECT PERFECT TURBO- MAX PROTECT ENERGOFIX TURBO- MAX PROTECT CEMAX TURBO- MAX PROTECT NOVIPRO TURBO- MAX PROTECT TERMODER TURBO- MAX PROTECT BEST TURBO- MAX PROTECT UNITERM PLUS TURBO- MAX PROTECT PROFITERM TURBO- MAX PROTECT EKONOMI TURBO- MAX PROTECT KTB TURBO- MAX PROTECT GHB TURBO- MAX PROTECT FEST TURBO- MAX PROTECT MAXITERM TURBO- MAX OPTITERM TURBO- MAX FERROTERM TURBO- MAX TERMOTOP TURBO- MAX PROTECT TERMOSYSTEM TURBO- MAX PROTECT TERMIX TURBO- MAX PROTECT U-SYSTEM TURBO- MAX PROTECT FLEXELL TURBO-Z MAX PROTECT
Name of EWIS:	
<b>EWIS KREISEL SYSTEMS EPS</b>	TURBO-ECO PROTECT TERMOFIX TURBO-ECO PROTECT PSB TURBO-ECO PROTECT PROFIT TURBO-ECO PROTECT FACHMANN TURBO-ECO PROTECT GO/ON TURBO-ECO PROTECT PERFECT TURBO-ECO PROTECT ENERGOFIX TURBO-ECO PROTECT CEMAX TURBO-ECO PROTECT NOVIPRO TURBO-ECO PROTECT TERMODER TURBO-ECO PROTECT BEST TURBO-ECO PROTECT UNITERM PLUS TURBO-ECO PROTECT PROFITERM TURBO-ECO PROTECT EKONOMI TURBO-ECO PROTECT KTB TURBO-ECO PROTECT GHB TURBO-ECO PROTECT FEST TURBO-ECO PROTECT MAXITERM TURBO-ECO OPTITERM TURBO-ECO FERROTERM TURBO-ECO TERMOTOP TURBO-ECO PROTECT TERMOSYSTEM TURBO-ECO PROTECT TERMIX TURBO-ECO PROTECT U-SYSTEM TURBO-ECO PROTECT FLEXELL TURBO-Z ECO PROTECT

Adhesive for insulation of EPS:

**LEPSTYR 210**

PSB Zaprawa klejąca do styropianu  
Best Zaprawa klejąca do styropianu  
PROFIT Zaprawa do przyklejania płyt  
styropianowych  
KTB TERMODER 1 Zaprawa klejąca do styropianu  
TERMOFIX 1 Zaprawa klejąca do styropianu  
FACHMANN klej do styropianu  
GO/ON klej do styropianu  
PERFECT SILVER KLEJ DO STYROPIANU  
NOVIPRO Zaprawa klejąca do styropianu  
CEMAX Zaprawa klejąca do styropianu  
ENERGOFIX 1 Zaprawa klejąca do styropianu  
UNITERM PLUS Zaprawa klejąca do styropianu  
PROFITERM Zaprawa klejąca do styropianu  
EKONOMI Zaprawa klejąca do styropianu  
KTB Zaprawa klejąca do styropianu  
GHB Zaprawa klejąca do styropianu  
FEST Zaprawa klejąca do styropianu  
MAXITERM Zaprawa klejąca do styropianu  
OPTITERM Zaprawa klejąca do styropianu  
FERROTERM Zaprawa klejąca do styropianu  
TERMOTOP Zaprawa klejąca do styropianu  
TERMOSSYSTEM Zaprawa klejąca do styropianu  
TERMIX Zaprawa klejąca do styropianu  
U-SYSTEM Zaprawa klejąca do styropianu  
FLEXELL Zaprawa klejąca do styropianu  
LEPSTYR-Z 211

Adhesive and base coat for insulation of EPS:	
<b>STYRLEP 220</b>	PSB Zaprawa klejąca do warstwy zbrojonej Best Zaprawa klejąca do warstwy zbrojonej PROFIT Uniwersalna zaprawa klejąco-szpachlowa KTB TERMODER 2 Zaprawa zbrojąca do siatki TERMOFIX 2 Zaprawa klejąco-zbrojąca do siatki FACHMANN klej do siatki GO/ON klej do siatki PERFECT GOLD KLEJ DO SIATKI I DO STYROPIANU NOVIPRO Zaprawa.klejąco-zbrojąca CEMAX styrlep klej do siatki ENERGOFIX 2 Zaprawa klejąca do siatki UNITERM PLUS Zaprawa klejąca do siatki PROFITERM Zaprawa klejąca do siatki EKONOMI Zaprawa klejąca do siatki KTB Zaprawa klejąca do siatki GHB Zaprawa klejąca do siatki FEST Zaprawa klejąca do siatki MAXITERM Zaprawa klejąca do siatki OPTITERM Zaprawa klejąca do siatki FERROTERM Zaprawa klejąca do siatki TERMOTOP Zaprawa klejąca do siatki TERMOSYSTEM Zaprawa klejąca do siatki TERMIX Zaprawa klejąca do siatki U-SYSTEM Zaprawa klejąca do siatki FLEXELL Zaprawa klejąca do siatki STYRLEP-Z 221
Adhesive and base coat for insulation of EPS:	
<b>STYRLEP B 225</b>	PSB-B Biała zaprawa klejąca do warstwy zbrojonej Best-B Biała zaprawa klejąca do warstwy zbrojonej PROFIT-B Biała uniwersalna zaprawa klejąco-szpachlowa KTB TERMODER-B 2 Biała zaprawa zbrojąca do siatki TERMOFIX-B 2 Biała zaprawa klejąco-zbrojąca do siatki FACHMANN-B Biały klej do siatki GO/ON-B Biały klej do siatki PERFECT Gold-B Biały klej do siatki i do styropianu NOVIPRO-B Biała zaprawa.klejąco-zbrojąca CEMAX-B styrlep Biały klej do siatki ENERGOFIX-B 2 Biała zaprawa klejąca do siatki UNITERM PLUS-B Biała zaprawa klejąca do siatki PROFITERM-B Biała zaprawa klejąca do siatki EKONOMI-B Biała zaprawa klejąca do siatki KTB-B Biała zaprawa klejąca do siatki GHB-B Biała zaprawa klejąca do siatki FEST-B Biała zaprawa klejąca do siatki MAXITERM-B Biała zaprawa klejąca do siatki OPTITERM-B Biała zaprawa klejąca do siatki FERROTERM-B Biała zaprawa klejąca do siatki TERMOTOP-B Biała zaprawa klejąca do siatki TERMOSYSTEM-B Biała zaprawa klejąca do siatki TERMIX-B Biała zaprawa klejąca do siatki U-SYSTEM-B Biała zaprawa klejąca do siatki FLEXELL-B Biała zaprawa klejąca do siatki STYRLEP-BZ 221

Key coat:	
<b>TYNKOLIT U 340</b>	PSB GRUNT POD TYNKI Best GRUNT POD TYNKI PROFIT GRUNT POD TYNKI KTB TERMODER GRUNT POD TYNKI TERMOFIX GRUNT POD TYNKI FACHMANN GRUNT POD TYNKI GO/ON GRUNT POD TYNKI PERFECT GRUNT POD TYNKI NOVIPRO GRUNT POD TYNKI CEMAX GRUNT POD TYNKI ENERGOFIX GRUNT POD TYNKI UNITERM PLUS GRUNT POD TYNKI PROFITERM GRUNT POD TYNKI EKONOMI GRUNT POD TYNKI KTB GRUNT POD TYNKI GHB GRUNT POD TYNKI FEST GRUNT POD TYNKI MAXITERM GRUNT POD TYNKI OPTITERM GRUNT POD TYNKI FERROTERM GRUNT POD TYNKI TERMOTOP GRUNT POD TYNKI TERMO SYSTEM GRUNT POD TYNKI TERMIX GRUNT POD TYNKI U-SYSTEM GRUNT POD TYNKI FLEXELL GRUNT POD TYNKI TYNKOLITU –U 340 Z



Finishing coat (mineral binder):

**POZTYNK-SZ 062 BR**  
**POZTYNK-SZ 061 DR**  
*(max. particle size: 0,5; 1,0; 1,5; 2,0; 3,0 mm)*

TERMODER 3 BR tynk mineralny  
TERMODER 3 DR tynk mineralny  
CEMAX BR tynk mineralny  
CEMAX DR tynk mineralny  
102 TYNKOFIX BR tynk mineralny  
102 TYNKOFIX DR tynk mineralny  
PSB BR tynk mineralny  
PSB DR tynk mineralny  
Best BR tynk mineralny  
Best DR tynk mineralny  
PROFIT BR tynk mineralny  
PROFIT DR tynk mineralny  
TERMOFIX BR tynk mineralny  
TERMOFIX DR tynk mineralny  
FACHMANN BR tynk mineralny  
FACHMANN DR tynk mineralny  
GO/ON BR tynk mineralny  
GO/ON DR tynk mineralny  
PERFECT BR tynk mineralny  
PERFECT DR tynk mineralny  
NOVIPRO BR tynk mineralny  
NOVIPRO DR tynk mineralny  
ENERGOFIX BR tynk mineralny  
ENERGOFIX DR tynk mineralny  
UNITERM PLUS BR tynk mineralny  
UNITERM PLUS DR tynk mineralny  
PROFITERM BR tynk mineralny  
PROFITERM DR tynk mineralny  
EKONOMI BR tynk mineralny  
EKONOMI DR tynk mineralny  
KTB BR tynk mineralny  
KTB DR tynk mineralny  
GHB BR tynk mineralny  
GHB DR tynk mineralny  
FEST BR tynk mineralny  
FEST DR tynk mineralny  
MAXITERM BR tynk mineralny  
MAXITERM DR tynk mineralny  
OPTITERM BR tynk mineralny  
OPTITERM DR tynk mineralny  
FERROTERM BR tynk mineralny  
TERMOTOP BR tynk mineralny  
TERMOTOP DR tynk mineralny  
TERMO SYSTEM BR tynk mineralny  
TERMO SYSTEM DR tynk mineralny  
TERMIX BR tynk mineralny  
TERMIX DR tynk mineralny  
U-SYSTEM BR tynk mineralny  
U-SYSTEM DR tynk mineralny  
FLEXELL BR tynk mineralny  
FLEXELL DR tynk mineralny  
POZTYNK-SZ 062 BR-Z  
POZTYNK-SZ 061 DR-Z

Finishing coat (mineral binder):

**AKRYTYNK 010**  
(max. particle size: 0,5; 1,0; 1,5; 2,0; 3,0 mm)

TERMODER BR tynk akrylowy  
TERMODER DR tynk akrylowy  
CEMAX BR tynk akrylowy  
CEMAX DR tynk akrylowy  
102 TYNKOFIX BR tynk akrylowy  
102 TYNKOFIX DR tynk akrylowy  
PSB BR tynk akrylowy  
PSB DR tynk akrylowy  
Best BR tynk akrylowy  
Best DR tynk akrylowy  
PROFIT BR tynk akrylowy  
PROFIT DR tynk akrylowy  
TERMOFIX BR tynk akrylowy  
TERMOFIX DR tynk akrylowy  
FACHMANN BR tynk akrylowy  
FACHMANN DR tynk akrylowy  
GO/ON BR tynk akrylowy  
GO/ON DR tynk akrylowy  
PERFECT BR tynk akrylowy  
PERFECT DR tynk akrylowy  
NOVIPRO BR tynk akrylowy  
NOVIPRO DR tynk akrylowy  
ENERGOFIX BR tynk akrylowy  
ENERGOFIX DR tynk akrylowy  
UNITERM PLUS BR tynk akrylowy  
UNITERM PLUS DR tynk akrylowy  
PROFITERM BR tynk akrylowy  
PROFITERM DR tynk akrylowy  
EKONOMI BR tynk akrylowy  
EKONOMI DR tynk akrylowy  
KTB BR tynk akrylowy  
KTB DR tynk akrylowy  
GHB BR tynk akrylowy  
GHB DR tynk akrylowy  
FEST BR tynk akrylowy  
FEST DR tynk akrylowy  
MAXITERM BR tynk akrylowy  
MAXITERM DR tynk akrylowy  
OPTITERM BR tynk akrylowy  
OPTITERM DR tynk akrylowy  
FERROTERM BR tynk akrylowy  
TERMOTOP BR tynk akrylowy  
TERMOTOP DR tynk akrylowy  
TERMO SYSTEM BR tynk akrylowy  
TERMO SYSTEM DR tynk akrylowy  
TERMIX BR tynk akrylowy  
TERMIX DR tynk akrylowy  
U-SYSTEM BR tynk akrylowy  
U-SYSTEM DR tynk akrylowy  
FLEXELL BR tynk akrylowy  
FLEXELL DR tynk akrylowy  
AKRYTYNK 010- Z

Finishing coat (silicone binder):

**SILIKOTYNK 030**  
**SILIKON PROTECT 031**  
(max. particle size: 0,5; 1,0; 1,5; 2,0; 3,0 mm)

TERMODER BR tynk silikonowy  
TERMODER BR tynk silikonowy PROTECT  
TERMODER DR tynk silikonowy  
TERMODER DR tynk silikonowy PROTECT  
CEMAX BR tynk silikonowy  
CEMAX BR tynk silikonowy PROTECT  
CEMAX DR tynk silikonowy  
CEMAX DR tynk silikonowy PROTECT  
102 TYNKOFIX BR tynk silikonowy  
102 TYNKOFIX BR tynk silikonowy PROTECT  
102 TYNKOFIX DR tynk silikonowy  
102 TYNKOFIX DR tynk silikonowy PROTECT  
PSB BR tynk silikonowy  
PSB BR tynk silikonowy PROTECT  
PSB DR tynk silikonowy  
PSB DR tynk silikonowy PROTECT  
Best BR tynk silikonowy  
Best BR tynk silikonowy PROTECT  
Best DR tynk silikonowy  
Best DR tynk silikonowy PROTECT  
PROFIT BR tynk silikonowy  
PROFIT BR tynk silikonowy PROTECT  
PROFIT DR tynk silikonowy  
PROFIT DR tynk silikonowy PROTECT  
TERMOFIX BR tynk silikonowy  
TERMOFIX BR tynk silikonowy PROTECT  
TERMOFIX DR tynk silikonowy  
TERMOFIX DR tynk silikonowy PROTECT  
FACHMANN BR tynk silikonowy  
FACHMANN BR tynk silikonowy PROTECT  
FACHMANN DR tynk silikonowy  
FACHMANN DR tynk silikonowy PROTECT  
GO/ON BR tynk silikonowy  
GO/ON BR tynk silikonowy PROTECT  
GO/ON DR tynk silikonowy  
GO/ON DR tynk silikonowy PROTECT  
PERFECT BR tynk silikonowy  
PERFECT BR tynk silikonowy PROTECT  
PERFECT DR tynk silikonowy  
PERFECT DR tynk silikonowy PROTECT  
NOVIPRO BR tynk silikonowy  
NOVIPRO BR tynk silikonowy PROTECT  
NOVIPRO DR tynk silikonowy  
NOVIPRO DR tynk silikonowy PROTECT  
ENERGOFIX BR tynk silikonowy  
ENERGOFIX BR tynk silikonowy PROTECT  
ENERGOFIX DR tynk silikonowy  
ENERGOFIX DR tynk silikonowy PROTECT  
UNITERM PLUS BR tynk silikonowy  
UNITERM PLUS BR tynk silikonowy PROTECT  
UNITERM PLUS DR tynk silikonowy  
UNITERM PLUS DR tynk silikonowy PROTECT  
PROFITERM BR tynk silikonowy  
PROFITERM BR tynk silikonowy PROTECT  
PROFITERM DR tynk silikonowy  
PROFITERM DR tynk silikonowy PROTECT  
EKONOMI BR tynk silikonowy  
EKONOMI BR tynk silikonowy PROTECT

	<p> EKONOMI DR tynk silikonowy  EKONOMI DR tynk silikonowy PROTECT  KTB BR tynk silikonowy  KTB BR tynk silikonowy PROTECT  KTB DR tynk silikonowy  KTB DR tynk silikonowy PROTECT  GHB BR tynk silikonowy  GHB BR tynk silikonowy PROTECT  GHB DR tynk silikonowy  GHB DR tynk silikonowy PROTECT  FEST BR tynk silikonowy  FEST BR tynk silikonowy PROTECT  FEST DR tynk silikonowy  FEST DR tynk silikonowy PROTECT  MAXITERM BR tynk silikonowy  MAXITERM BR tynk silikonowy PROTECT  MAXITERM DR tynk silikonowy  MAXITERM DR tynk silikonowy PROTECT  OPTITERM BR tynk silikonowy  OPTITERM BR tynk silikonowy PROTECT  OPTITERM DR tynk silikonowy  OPTITERM DR tynk silikonowy PROTECT  FERROTERM BR tynk silikonowy  FERROTERM BR tynk silikonowy PROTECT  FERROTERM DR tynk silikonowy  FERROTERM DR tynk silikonowy PROTECT  TERMOTOP BR tynk silikonowy  TERMOTOP BR tynk silikonowy PROTECT  TERMOTOP DR tynk silikonowy  TERMOTOP DR tynk silikonowy PROTECT  TERMOYSTEM BR tynk silikonowy  TERMOYSTEM BR tynk silikonowy PROTECT  TERMOYSTEM DR tynk silikonowy  TERMOYSTEM DR tynk silikonowy PROTECT  TERMIX BR tynk silikonowy  TERMIX BR tynk silikonowy PROTECT  TERMIX DR tynk silikonowy  TERMIX DR tynk silikonowy PROTECT  U-SYSTEM BR tynk silikonowy  U-SYSTEM BR tynk silikonowy PROTECT  U-SYSTEM DR tynk silikonowy  U-SYSTEM DR tynk silikonowy PROTECT  FLEXELL BR tynk silikonowy  FLEXELL BR tynk silikonowy PROTECT  FLEXELL DR tynk silikonowy /  FLEXELL DR tynk silikonowy PROTECT  SILIKOTYNK 030-Z  SILIKON PROTECT 031-Z </p>
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Finishing coat (silicate binder):

**SILIKATYNK 020**  
(max. particle size: 0,5; 1,0; 1,5; 2,0; 3,0 mm)

TERMODER 3 BR tynk silikatowy  
TERMODER 3 DR tynk silikatowy  
CEMAX BR tynk silikatowy  
CEMAX DR tynk silikatowy  
102 TYNKOFIX BR tynk silikatowy  
102 TYNKOFIX DR tynk silikatowy  
PSB BR tynk silikatowy  
PSB DR tynk silikatowy  
Best BR tynk silikatowy  
Best DR tynk silikatowy  
PROFIT BR tynk silikatowy  
PROFIT DR tynk silikatowy  
TERMOFIX BR tynk silikatowy  
TERMOFIX DR tynk silikatowy  
FACHMANN BR tynk silikatowy  
FACHMANN DR tynk silikatowy  
GO/ON BR tynk silikatowy  
GO/ON DR tynk silikatowy  
PERFECT BR tynk silikatowy  
PERFECT DR tynk silikatowy  
NOVIPRO BR tynk silikatowy  
NOVIPRO DR tynk silikatowy  
ENERGOFIX BR tynk silikatowy  
ENERGOFIX DR tynk silikatowy  
UNITERM PLUS BR tynk silikatowy  
UNITERM PLUS DR tynk silikatowy  
PROFITERM BR tynk silikatowy  
PROFITERM DR tynk silikatowy  
EKONOMI BR tynk silikatowy  
EKONOMI DR tynk silikatowy  
KTB BR tynk silikatowy  
KTB DR tynk silikatowy  
GHB BR tynk silikatowy  
GHB DR tynk silikatowy  
FEST BR tynk silikatowy  
FEST DR tynk silikatowy  
MAXITERM BR tynk silikatowy  
MAXITERM DR tynk silikatowy  
OPTITERM BR tynk silikatowy  
OPTITERM DR tynk silikatowy  
FERROTERM BR tynk silikatowy  
TERMOTOP BR tynk silikatowy  
TERMOTOP DR tynk silikatowy  
TERMOYSTEM BR tynk silikatowy  
TERMOYSTEM DR tynk silikatowy  
TERMIX BR tynk silikatowy  
TERMIX DR tynk silikatowy  
U-SYSTEM BR tynk silikatowy  
U-SYSTEM DR tynk silikatowy  
FLEXELL BR tynk silikatowy  
FLEXELL DR tynk silikatowy  
SILIKATYNK 020-Z

Finishing coat (silicate and silicone binder):

<p style="text-align: center;"><b>SISITYNK 040</b> (max. particle size: 0,5; 1,0; 1,5; 2,0; 3,0 mm)</p>	<p> TERMODER 3 BR tynk silikatowo-silikonowy  TERMODER 3 DR tynk silikatowo-silikonowy  CEMAX BR tynk silikatowo-silikonowy  CEMAX DR tynk silikatowo-silikonowy  102 TYNKOFIX BR tynk silikatowo-silikonowy  102 TYNKOFIX DR tynk silikatowo-silikonowy  PSB BR tynk silikatowo-silikonowy  PSB DR tynk silikatowo-silikonowy  Best BR tynk silikatowo-silikonowy  Best DR tynk silikatowo-silikonowy  PROFIT BR tynk silikatowo-silikonowy  PROFIT DR tynk silikatowo-silikonowy  TERMOFIX BR tynk silikatowo-silikonowy  TERMOFIX DR tynk silikatowo-silikonowy  FACHMANN BR tynk silikatowo-silikonowy  FACHMANN DR tynk silikatowo-silikonowy  GO/ON BR tynk silikatowo-silikonowy  GO/ON DR tynk silikatowo-silikonowy  PERFECT BR tynk silikatowo-silikonowy  PERFECT DR tynk silikatowo-silikonowy  NOVIPRO BR tynk silikatowo-silikonowy  NOVIPRO DR tynk silikatowo-silikonowy  ENERGOFIX BR tynk silikatowo-silikonowy  ENERGOFIX DR tynk silikatowo-silikonowy  UNITERM PLUS BR tynk silikatowo-silikonowy  UNITERM PLUS DR tynk silikatowo-silikonowy  PROFITERM BR tynk silikatowo-silikonowy  PROFITERM DR tynk silikatowo-silikonowy  EKONOMI BR tynk silikatowo-silikonowy  EKONOMI DR tynk silikatowo-silikonowy  KTB BR tynk silikatowo-silikonowy  KTB DR tynk silikatowo-silikonowy mineralny  GHB BR tynk silikatowo-silikonowy  GHB DR tynk silikatowo-silikonowy  FEST BR tynk silikatowo-silikonowy  FEST DR tynk silikatowo-silikonowy  MAXITERM BR tynk silikatowo-silikonowy  MAXITERM DR tynk silikatowo-silikonowy  OPTITERM BR tynk silikatowo-silikonowy  OPTITERM DR tynk silikatowo-silikonowy  FERROTERM BR tynk silikatowo-silikonowy  TERMOTOP BR tynk silikatowo-silikonowy  TERMOTOP DR tynk silikatowo-silikonowy  TERMOYSTEM BR tynk silikatowo-silikonowy  TERMOYSTEM DR tynk silikatowo-silikonowy  TERMIX BR tynk silikatowo-silikonowy  TERMIX DR tynk silikatowo-silikonowy  U-SYSTEM BR tynk silikatowo-silikonowy  U-SYSTEM DR tynk silikatowo-silikonowy  FLEXELL BR tynk silikatowo-silikonowy  FLEXELL DR tynk silikatowo-silikonowy  SISITYNK 040-Z </p>
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Finishing coat (silicone - polyurethane binder):

**MAX PROTECT 042**  
(max. particle size: 0,5; 1,0; 1,5; 2,0; 3,0 mm)

TERMODER 3 BR MAX PROTECT  
TERMODER 3 DR MAX PROTECT  
CEMAX BR MAX PROTECT  
CEMAX DR MAX PROTECT  
102 TYNKOFIX BR MAX PROTECT  
102 TYNKOFIX DR MAX PROTECT  
PSB BR MAX PROTECT  
PSB DR MAX PROTECT  
Best BR MAX PROTECT  
Best DR MAX PROTECT  
PROFIT BR MAX PROTECT  
PROFIT DR MAX PROTECT  
TERMOFIX BR MAX PROTECT  
TERMOFIX DR MAX PROTECT  
FACHMANN BR MAX PROTECT  
FACHMANN DR MAX PROTECT  
GO/ON BR MAX PROTECT  
GO/ON DR MAX PROTECT  
PERFECT BR MAX PROTECT  
PERFECT DR MAX PROTECT  
NOVIPRO BR MAX PROTECT  
NOVIPRO DR MAX PROTECT  
ENERGOFIX BR MAX PROTECT  
ENERGOFIX DR MAX PROTECT  
UNITERM PLUS BR MAX PROTECT  
UNITERM PLUS DR MAX PROTECT  
PROFITERM BR MAX PROTECT  
PROFITERM DR MAX PROTECT  
EKONOMI BR MAX PROTECT  
EKONOMI DR MAX PROTECT  
KTB BR MAX PROTECT  
KTB DR MAX PROTECT  
GHB BR MAX PROTECT  
GHB DR MAX PROTECT  
FEST BR MAX PROTECT  
FEST DR MAX PROTECT  
MAXITERM BR MAX PROTECT  
MAXITERM DR MAX PROTECT  
OPTITERM BR MAX PROTECT  
OPTITERM DR MAX PROTECT  
FERROTERM BR MAX PROTECT  
TERMOTOP BR MAX PROTECT  
TERMOTOP DR MAX PROTECT  
TERMO SYSTEM BR MAX PROTECT  
TERMO SYSTEM DR MAX PROTECT  
TERMIX BR MAX PROTECT  
TERMIX DR MAX PROTECT  
U-SYSTEM BR MAX PROTECT  
U-SYSTEM DR MAX PROTECT  
FLEXELL BR MAX PROTECT  
FLEXELL DR MAX PROTECT  
BIOTYNK 042 MAX PROTECT- Z

Finishing coat (silicate and silicone binder):

**ECO TYNK 022 ECO PROTECT**  
*(max. particle size: 0,5; 1,0; 1,5; 2,0; 3,0 mm)*

TERMODER 3 BR ECO PROTECT  
 TERMODER 3 DR ECO PROTECT  
 CEMAX BR ECO PROTECT  
 CEMAX DR ECO PROTECT  
 102 TYNKOFIX BR ECO PROTECT  
 102 TYNKOFIX DR ECO PROTECT  
 PSB BR ECO PROTECT  
 PSB DR ECO PROTECT  
 Best BR ECO PROTECT  
 Best DR ECO PROTECT  
 PROFIT BR ECO PROTECT  
 PROFIT DR ECO PROTECT  
 TERMOFIX BR ECO PROTECT  
 TERMOFIX DR ECO PROTECT  
 FACHMANN BR ECO PROTECT  
 FACHMANN DR ECO PROTECT  
 GO/ON BR ECO PROTECT  
 GO/ON DR ECO PROTECT  
 PERFECT BR ECO PROTECT  
 PERFECT DR ECO PROTECT  
 NOVIPRO BR ECO PROTECT  
 NOVIPRO DR ECO PROTECT  
 ENERGOFIX BR ECO PROTECT  
 ENERGOFIX DR ECO PROTECT  
 UNITERM PLUS BR ECO PROTECT  
 UNITERM PLUS DR ECO PROTECT  
 PROFITERM BR ECO PROTECT  
 PROFITERM DR ECO PROTECT  
 EKONOMI BR ECO PROTECT  
 EKONOMI DR ECO PROTECT  
 KTB BR ECO PROTECT  
 KTB DR ECO PROTECT  
 GHB BR ECO PROTECT  
 GHB DR ECO PROTECT  
 FEST BR ECO PROTECT  
 FEST DR ECO PROTECT  
 MAXITERM BR ECO PROTECT  
 MAXITERM DR ECO PROTECT  
 OPTITERM BR ECO PROTECT  
 OPTITERM DR ECO PROTECT  
 FERROTERM BR ECO PROTECT  
 TERMOTOP BR ECO PROTECT  
 TERMOTOP DR ECO PROTECT  
 TERMOSYSTEM BR ECO PROTECT  
 TERMOSYSTEM DR ECO PROTECT  
 TERMIX BR ECO PROTECT  
 TERMIX DR ECO PROTECT  
 U-SYSTEM BR ECO PROTECT  
 U-SYSTEM DR ECO PROTECT  
 FLEXELL BR ECO PROTECT  
 FLEXELL DR ECO PROTECT  
 ECO TYNK 022 ECO PROTECT -Z



Protection coat:	
<b>FARBA AKRYLOWA 001</b>	PSB farba akrylowa Best farba akrylowa PROFIT farba akrylowa KTB TERMODER farba akrylowa TERMOFIX farba akrylowa FACHMANN farba akrylowa GO/ON farba akrylowa PERFECT farba akrylowa NOVIPRO farba akrylowa CEMAX farba akrylowa ENERGOFIX farba akrylowa UNITERM PLUS farba akrylowa PROFITERM farba akrylowa EKONOMI farba akrylowa KTB farba akrylowa GHB farba akrylowa FEST farba akrylowa MAXITERM farba akrylowa OPTITERM farba akrylowa FERROTTERM farba akrylowa TERMOTOP farba akrylowa TERMOSYSTEM farba akrylowa TERMIX farba akrylowa U-SYSTEM farba akrylowa FLEXELL farba akrylowa FARBA AKRYLOWA 001 -Z
Protection coat:	
<b>FARBA SILIKATOWA 002</b>	PSB farba silikatowa Best farba silikatowa PROFIT farba silikatowa KTB TERMODER farba silikatowa TERMOFIX farba silikatowa FACHMANN farba silikatowa GO/ON farba silikatowa PERFECT farba silikatowa NOVIPRO farba silikatowa CEMAX farba silikatowa ENERGOFIX farba silikatowa UNITERM PLUS farba silikatowa PROFITERM farba silikatowa EKONOMI farba silikatowa KTB farba silikatowa GHB farba silikatowa FEST farba silikatowa MAXITERM farba silikatowa OPTITERM farba silikatowa FERROTTERM farba silikatowa TERMOTOP farba silikatowa TERMOSYSTEM farba silikatowa TERMIX farba silikatowa U-SYSTEM farba silikatowa FLEXELL farba silikatowa FARBA SILIKATOWA 002 -Z

Protection coat:	
<b>FARBA SILIKONOWA 003</b>	PSB farba silikonowa Best farba silikonowa PROFIT farba silikonowa KTB TERMODER farba silikonowa TERMOFIX farba silikonowa FACHMANN farba silikonowa GO/ON farba silikonowa PERFECT farba silikonowa NOVIPRO farba silikonowa CEMAX farba silikonowa ENERGOFIX farba silikonowa UNITERM PLUS farba silikonowa PROFITERM farba silikonowa EKONOMI farba silikonowa KTB farba silikonowa GHB farba silikonowa FEST farba silikonowa MAXITERM farba silikonowa OPTITERM farba silikonowa FERROTHERM farba silikonowa TERMOTOP farba silikonowa TERMOSYSTEM farba silikonowa TERMIX farba silikonowa U-SYSTEM farba silikonowa FLEXELL farba silikonowa FARBA SILIKONOWA 003- Z
Protection coat:	
<b>FARBA NANOTECH 006</b>	PSB farba NANOTECH Best farba NANOTECH PROFIT farba NANOTECH KTB TERMODER farba NANOTECH TERMOFIX farba NANOTECH FACHMANN farba NANOTECH GO/ON farba NANOTECH PERFECT farba NANOTECH NOVIPRO farba NANOTECH CEMAX farba NANOTECH ENERGOFIX farba NANOTECH UNITERM PLUS farba NANOTECH PROFITERM farba NANOTECH EKONOMI farba NANOTECH KTB farba NANOTECH GHB farba NANOTECH FEST farba NANOTECH MAXITERM farba NANOTECH OPTITERM farba NANOTECH FERROTHERM farba NANOTECH TERMOTOP farba NANOTECH TERMOSYSTEM farba NANOTECH TERMIX farba NANOTECH U-SYSTEM farba NANOTECH FLEXELL farba NANOTECH FARBA NANOTECH 006- Z

Protection coat:	
<b>BIOFARBA 008</b>	PSB BIOFARBA Best BIOFARBA PROFIT BIOFARBA KTB TERMODER BIOFARBA TERMOFIX BIOFARBA FACHMANN BIOFARBA GO/ON BIOFARBA PERFECT BIOFARBA NOVIPRO BIOFARBA CEMAX BIOFARBA ENERGOFIX BIOFARBA UNITERM PLUS BIOFARBA PROFITERM BIOFARBA EKONOMI BIOFARBA KTB BIOFARBA GHB BIOFARBA FEST BIOFARBA MAXITERM BIOFARBA OPTITERM BIOFARBA FERROTERM BIOFARBA TERMOTOP BIOFARBA TERMOSYSTEM BIOFARBA TERMIX BIOFARBA U-SYSTEM BIOFARBA FLEXELL BIOFARBA BIOFARBA 008-Z
Protection coat:	
<b>FARBA SISI 004</b>	PSB farba SISI Best farba SISI PROFIT farba SISI KTB TERMODER farba SISI TERMOFIX farba SISI FACHMANN farba SISI GO/ON farba SISI PERFECT farba SISI NOVIPRO farba SISI CEMAX farba SISI ENERGOFIX farba SISI UNITERM PLUS farba SISI PROFITERM farba SISI EKONOMI farba SISI KTB farba SISI GHB farba SISI FEST farba SISI MAXITERM farba SISI OPTITERM farba SISI FERROTERM farba SISI TERMOTOP farba SISI TERMOSYSTEM farba SISI TERMIX farba SISI U-SYSTEM farba SISI FLEXELL farba SISI FARBA SISI 004-Z

Protection coat:	
<b>FARBA ECO 009</b>	PSB FARBA ECO Best FARBA ECO PROFIT FARBA ECO KTB TERMODER FARBA ECO TERMOFIX FARBA ECO FACHMANN FARBA ECO GO/ON FARBA ECO PERFECT FARBA ECO NOVIPRO FARBA ECO CEMAX FARBA ECO ENERGOFIX FARBA ECO UNITERM PLUS FARBA ECO PROFITERM FARBA ECO EKONOMI FARBA ECO KTB FARBA ECO GHB FARBA ECO FEST FARBA ECO MAXITERM FARBA ECO OPTITERM FARBA ECO FERROTERM FARBA ECO TERMOTOP FARBA ECO TERMOYSTEM FARBA ECO TERMIX FARBA ECO U-SYSTEM FARBA ECO FLEXELL FARBA ECO FARBA ECO 009- Z

Protection coat:	
<b>FARBA EGALIZACYJNA 005</b>	PSB farba egalizacyjna Best farba egalizacyjna PROFIT farba egalizacyjna KTB TERMODER farba egalizacyjna TERMOFIX farba egalizacyjna FACHMANN farba egalizacyjna GO/ON farba egalizacyjna PERFECT farba egalizacyjna NOVIPRO farba egalizacyjna CEMAX farba egalizacyjna ENERGOFIX farba egalizacyjna UNITERM PLUS farba egalizacyjna PROFITERM farba egalizacyjna EKONOMI farba egalizacyjna KTB farba egalizacyjna GHB farba egalizacyjna FEST farba egalizacyjna MAXITERM farba egalizacyjna OPTITERM farba egalizacyjna FERROTERM farba egalizacyjna TERMOTOP farba egalizacyjna TERMOYSTEM farba egalizacyjna TERMIX farba egalizacyjna U-SYSTEM farba egalizacyjna FLEXELL farba egalizacyjna FARBA EGALIZACYJNA 005 -Z



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