European Technical Assessment

Łukasiewicz
Institute
of Ceramics
and Building
Materials

Łukasiewicz
Instytut Ceramiki
i Materiałów
Budowlanych

31-983 Kraków,
POLAND
Cementowa Str. 8
Tel.: +48 12 683 79 00
jot@icimb.lukasiewicz.gov.pl
www.icimb.lukasiewicz.gov.pl

Member of EOTA
www.eota.eu

European Technical Assessment

ETA-18/0944 of 21/10/2025

General Part

Technical Assessment Body issuing the European Technical Assessment: Łukasiewicz Research Network – Institute of Ceramics and Building Materials	
Trade name of the construction product	DRYVIT ROXSULATION PRO
Product family to which the construction product belongs	04: External Thermal Insulation Composite Systems (ETICS) with renderings
Manufacturer	DRYVIT SYSTEMS USA (EUROPE) Sp. z o.o Krze Duże 7 96-325 Radziejowice, POLAND
Manufacturing plant	DRYVIT SYSTEMS USA (EUROPE) Sp. z o.o Krze Duże 7 96-325 Radziejowice, POLAND
This European Technical Assessment contains	33 pages including 4 Annexes which form an integral part of this assessment. Annex No 5 Control Plan contains confidential information and is not included in the European Technical Assessment when that assessment is publicly disseminated.
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	EAD 040083-00-0404 ed. January 2019 – External Thermal Insulation Composite Systems (ETICS) with renderings
This European Technical Assessment replaces	ETA-18/0944, version 1, issued 20/12/2018

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential Annex referred to above). However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

Specific parts

1. Technical description of the product

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

The ETICS kit comprises a prefabricated insulation product of mineral wool (MW) to be bonded or mechanically fixed onto a wall. The method of fixing and the relevant components are specified in Table 1. The insulation product is faced with a rendering system consisting of one or more layers (site applied), one of which contains reinforcement. The rendering is applied directly to the insulating panels, without any air gap or disconnecting layer.

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

Table 1.

	Components	Coverage (kg/m²)	Thickness (mm)
	Bonded ETICS; fully bonded with supplementary mechanical fixings. National application documents shall be taken into account.		
Insulation materials with associated methods of fixing	• **Insulation product:** mineral wool (MW) lamella according to EN 13162 *Product characteristics - see Annex No 1*	-	50 to 400
	• **Adhesives:** **- ROXHESIVE** Cement based powder requiring addition of 0,22-0,24 l/kg of water	3,5 to 8,0 (powder)	-
	- FIBERCOAT Cement based powder requiring addition of 0,22-0,24 l/kg of water	3,5 to 8,0 (powder)	-
	- GENESIS DM PLUS Cement based powder requiring addition of 0,22-0,24 l/kg of water	3,5 to 8,0 (powder)	-
	• **Supplementary mechanical fixings:** Plastic anchors covered by relevant ETA	-	-

Table 1. cont.

	Components	Coverage (kg/m²)	Thickness (mm)
	Mechanically fixed ETICS; mechanically fixed with supplementary adhesive. National application documents shall be taken into account.		
Insulation materials with associated methods of fixing	• **Insulation product:** mineral wool (MW) standard boards according to EN 13162 *Product characteristics - see Annex No 1*	-	60 do 400
	• **Anchors** *Products characteristics - see Annex No 2*	-	-
	• **Supplementary adhesives:** **- ROXHESIVE** Cement based powder requiring addition of 0,22-0,24 l/kg of water	3,5 to 8,0 (powder)	-
	- FIBERCOAT Cement based powder requiring addition of 0,22-0,24 l/kg of water	3,5 to 8,0 (powder)	-
	- GENESIS DM PLUS Cement based powder requiring addition of 0,22-0,24 l/kg of water	3,5 to 8,0 (powder)	-
Base coat	**- FIBERCOAT** Cement based powder requiring addition of 0,22-0,24 l/kg of water	3,0 to 8,0 (powder)	3,0 to 5,0
Reinforce-ment	• **Standard glass fibre meshes:** applied in one or two layers - STANDARD PLUS 150 - STANDARD PLUS 160	- -	- -
	• **Reinforced glass fibre mesh** applied with one of standard glass fibre meshes - STANDARD PLUS 200 *Products characteristics - see Annex No 4*	-	-

Table 1. cont.

	Components	Coverage (kg/m²)	Thickness (mm)
Key coats	• **COLOR PRIME PLUS** Ready to use liquid to be used obligatory with acrylic (PMR, FD PMR, mosaic structure), silicone (TR), silicone-silicate (HYBRID), silicone (SL) and siloxane (HDP) finishing coats	0,25 to 0,30	-
	• **DEMANDIT** Ready to use liquid to be used with finishing coats applied by pattern	0,35 to 0,40	-
	• **WOOD PRIME** Ready to use liquid to be used obligatory on mineral finishing coat DRYTEX WOOD together with WOOD GLAZE MATT or WOOD GLAZE decorative coats	0,20 to 0,25	-
Finishing coats	• **Mineral finishing coats DRYTEX** Cement based powders requiring addition of 0,22-0,24 l/kg of water.		
	Sandblast structure - max. particles size: floated - 1,2 mm	2,2 to 2,5	
	Sandpebble structure - max. particles size: floated - 1,6 mm	2,6 to 2,8	
	Sandpebble 2 structure - max. particles size: floated - 2,0 mm	3,3 to 3,8	Regulated by particles size
	Sandpebble 3 structure - max. particles size: floated - 3,0 mm	4,1 to 4,3	
	Quarzputz structure - max. particles size: ribbed - 2,0 mm	2,6 to 2,8	
	Quarzputz Fine structure - max. particles size: ribbed - 1,2 mm	1,1 to 1,3	
	Freestyle structure - max. particles size: ribbed - 0,6 mm (into any shaping)	1,2 to 2,0	1,2 to 2,0
	• **Mineral finishing coat DRYTEX WOOD** Cement based powder requiring addition of 0,22-0,24 l/kg of water. structure - max. particles size: floated - 0,5 mm	4,5 to 5,0	4,0 to 5,0

Table 1. cont.

	Components	Coverage (kg/m²)	Thickness (mm)
Finishing coats	• **Mosaic structure finishing coats** Ready to use pastes - acrylic binder. **Ameristone** particles size: 0,8 to 2,5 mm	3,9 to 4,5	Regulated by particles size
	Ameristone T / TerraNeo particles size: 0,8 to 2,5 mm	3,0 to 3,5	
	Stonemist particles size: 0,6 to 0,8 mm	2,8 to 3,5	
	Stonemist T particles size: 0,6 to 0,8 mm	2,6 to 3,3	
	• **Acrylic finishing coats PMR** Ready to use pastes - acrylic binder. **Lymestone PMR** structure - max. particles size: ribbed - 0,6 mm	1,0 to 1,2	
	Freestyle PMR structure - max. particles size: floated - 0,6 mm (into any shaping)	1,2 to 2,0	1,2 to 2,0
	Sandblast PMR structure - max. particles size: floated - 1,2 mm	2,2 to 2,5	
	Sandpebble Fine PMR structure - max. particles size: floated - 1,2 mm	2,0 to 2,1	
	Sandpebble PMR structure - max. particles size: floated - 1,6 mm	2,6 to 2,8	Regulated by particles size
	Sandpebble 2 PMR structure - max. particles size: floated - 2,0 mm	3,3 to 3,8	
	Quarzputz PMR structure - max. particles size: ribbed - 2,0 mm	2,6 to 2,8	
	• **Acrylic finishing coats FD PMR** Ready to use pastes - acrylic binder. **Freestyle FD PMR** structure - max. particles size: floated - 0,6 mm (into any shaping)	1,2 to 2,0	1,2 to 2,0
	Sandblast FD PMR structure - max. particles size floated - 1,2 mm	2,2 to 2,5	
	Sandpebble Fine FD PMR structure - max. particles size: floated - 1,2 mm	2,0 to 2,1	Regulated by particles size
	Sandpebble FD PMR structure - max. particles size: floated - 1,6 mm	2,6 to 2,8	
	Quarzputz FD PMR structure - max. particles size: ribbed - 2,0 mm	2,6 to 2,8	

Table 1. cont.

	Components	Coverage (kg/m²)	Thickness (mm)
Finishing coats	• **Silicone finishing coats TR** Ready to use pastes - silicone and acrylic binder.		
	Lymestone TR structure - max. particles size: ribbed - 0,6 mm	1,0 to 1,2	Regulated by particles size
	Freestyle TR structure - max. particles size: floated - 0,6 mm (into any shaping)	1,2 to 2,0	1,2 to 2,0
	Sandblast TR structure - max. particles size: floated - 1,2 mm	2,2 to 2,5	
	Sandpebble Fine TR structure - max. particles size: floated - 1,2 mm	2,0 to 2,1	
	Sandpebble TR structure - max. particles size: floated - 1,6 mm	2,6 to 2,8	
	Sandpebble 2 TR structure - max. particles size: floated - 2,0 mm	3,3 to 3,8	
	Quarzputz TR structure - max. particles size: ribbed - 2,0 mm	2,6 to 2,8	Regulated by particles size
	• **Silicone finishing coats SL** Ready to use pastes - silicone and acrylic binder.		
	Concrete SL structure - max. particles size: floated – 1,0 mm	2,2 to 2,3	
	Sandblast SL structure - max. particles size: floated – 1,2 mm	2,3 to 2,5	
	Sandpebble SL structure - max. particles size: floated - 1,5 mm	2,6 to 2,8	
	• **Siloxane finishing coats HDP** Ready to use pastes - siloxane and acrylic binder.		
	Lymestone HDP structure - max. particles size: ribbed - 0,6 mm	1,0 to 1,2	
	Freestyle HDP structure - max. particles size: floated - 0,6 mm (into any shaping)	1,2 to 2,0	1,2 to 2,0
	Sandblast HDP structure - max. particles size: floated - 1,2 mm	2,3 to 2,5	Regulated by particles size

Table 1. cont.

	Components	Coverage (kg/m²)	Thickness (mm)
	Sandpebble Fine HDP structure - max. particles size: floated - 1,2 mm	2,0 to 2,1	
	Sandpebble HDP structure - max. particles size: floated - 1,6 mm	2,6 to 2,8	
	Quarzputz HDP structure - max. particles size: ribbed - 2,0 mm	2,6 to 2,8	Regulated by particles size
	• **Silicone-silicate finishing coats HYBRID** Ready to use pastes – silicate-silicone-acrylic binder.		
	Lymestone HYBRID structure - max. particles size: ribbed - 0,6 mm	1,0 to 1,2	
	Freestyle HYBRID structure - max. particles size: floated - 0,6 mm (into any shaping)	1,2 to 2,0	1,2 to 2,0
	Sandblast HYBRID structure - max. particles size: floated - 1,2 mm	2,2 to 2,5	
	Sandpebble Fine HYBRID structure - max. particles size: floated - 1,2 mm	2,0 to 2,1	
	Sandpebble HYBRID structure - max. particles size: floated - 1,5 mm	2,2 to 2,4	
	Sandpebble 2 HYBRID structure - max. particles size: floated - 2,0 mm	3,3 to 3,8	
	Quarzputz Fine HYBRID structure - max. particles size: ribbed - 1,2 mm	1,1 to 1,3	Regulated by particles size
	• **Mosaic structure finishing coats applied by pattern** Ready to use pastes - acrylic binder.		
	Ameristone particles size: 0,8 to 2,5 mm	3,9 to 4,5	
	Ameristone T / TerraNeo particles size: 0,8 to 2,5 mm	3,0 to 3,5	
	Stonemist particles size: 0,6 to 0,8 mm	2,8 to 3,5	
	Stonemist T particles size: 0,6 to 0,8 mm	2,6 to 3,3	
	• **Acrylic finishing coat applied by pattern** Ready to use paste - acrylic binder.		
	Custom Brick structure - max. particles size: floated - 0,6 mm	1,2 to 2,0	1,2 to 2,0

Table 1. cont.

	Components	Coverage (kg/m²)	Thickness (mm)
Decorative coats	• **DEMANDIT** Ready to use pigmented liquid to be used obligatory with mineral finishing coats DRYTEX	0,35 to 0,40	-
	• **SILSTAR / SILSTAR PRO** Ready to use pigmented liquid to be used obligatory with mineral finishing coats DRYTEX	0,35 to 0,40	-
	• **HYDROPHOBIC** Ready to use pigmented liquid to be used obligatory with mineral finishing coats DRYTEX	0,35 to 0,40	-
	• **WOOD GLAZE** Ready to use pigmented liquid to be used obligatory with mineral finishing coat DRYTEX WOOD	0,10 to 0,20	-
	• **WOOD GLAZE MATT** Ready to use pigmented liquid to be used obligatory with mineral finishing coat DRYTEX WOOD	0,10 to 0,20	-
Ancillary materials	• **Patterns** Covered with glue cardboard forms for single use, ready to use to obtain brick or stone design effect, providing joint of 10 mm width and joints surface area less than 30% per 1 m² • According to EAD 040083-00-0404 Remain under the manufacturer's responsibility		

2. Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter EAD)

This ETICS is intended to be used on new or existing (retrofit) vertical building walls. The ETICS may also be used on horizontal or inclined surfaces which are not exposed to precipitation.

The ETICS gives the building wall to which it is applied additional thermal insulation and protection from effects of weathering. ETICS are non-load-bearing construction elements. They do not contribute directly to the stability of the building wall on which they are installed.

ETICS are not intended to ensure the air tightness of the building structure.

Concerning product packaging, transport and storage it is the responsibility of the manufacturer to undertake the appropriate measures and to advise his clients on the transport and storage, as he considers necessary in order to reach the declared performances.

The information about installation is provided with the technical documentation from the Manufacturer and it is assumed that the product will be installed according to it or (in absence of such instructions) according to the usual practice of the building professionals.

The performances assessed in this European Technical Assessment, according to the applicable EAD, are based on an assumed intended working life of at least 25 years, provided that the conditions for the installation, 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, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

The ETICS belongs to Category S/W2 according to EOTA Technical Report No 034.

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

The tests for performance assessment of DRYVIT ROXSULATION PRO were carried out in compliance with EAD 040083-00-0404 according to the test methods reported herein, as well for what concerns sampling, conditioning and testing provisions. The performances of the kit as described in this chapter are valid provided that the components of the kit comply with Section 1 of the ETA and the relative Annexes 1 ÷ 4. The numbering in the following tables corresponds to the numbering of Table 1 of EAD 040083-00-0404.

3.1. Safety in case of fire (BWR 2)

3.1.1. Reaction to fire (EAD 040083-00-0404: clause 2.2.1, EN 13501-1)

3.1.1.1. Reaction to fire of ETICS (EAD 040083-00-0404: clause 2.2.1.1)

Table 2.

Configuration	Max. heat of combustion [MJ/kg]	Flame retardant content	Class acc. to EN 13501-1
DRYVIT ROXSULATION PRO excluding: 1. Reinforced glass fibre mesh STANDARD PLUS 200. 2. Acrylic finishing coats FD PMR: - Freestyle FD PMR, - Sandblast FD PMR, - Sandpebble Fine FD PMR, - Sandpebble FD PMR, - Quarzputz FD PMR. 3. Siloxane finishing coats HDP: - Lymestone HDP, - Freestyle HDP, - Sandblast HDP, - Sandpebble Fine HDP, - Quarzputz HDP.			
Adhesive	0,75	No flame retardant	A2–s1,d0
MW boards *density ≤ 160 kg/m³*	-		
Base coat	0,67		
Glass fibre mesh	6,76		
Key coat	8,63		
Finishing coat	2,84		
Decorative coat	28,10		
Remaining configurations	-	-	No performance assessed

3.1.1.2. Reaction to fire of the thermal insulation material (EAD 040083-00-0404: clause 2.2.1.2)

See Annex No 1

3.1.1.3. Reaction to fire of PU foam adhesive (EAD 040083-00-0404: clause 2.2.1.3)

Not relevant

3.1.2. Façade fire performance (EAD 040083-00-0404: clause 2.2.2)

No performance assessed.

3.1.3. Propensity to undergo continuous smouldering of ETICS (EAD 040083-00-0404: clause 2.2.3)

No performance assessed.

3.2. Hygiene, health and environment (BWR 3)

3.2.1. Content, emission and/or release of dangerous substances – leachable substances (EAD 040083-00-0404: clause 2.2.4, EOTA TR034)

No performance assessed.

Note: There may be requirements applicable to the ETICS falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Regulation (EU) No 305/2011, these requirements need to be complied with, when and where they apply.

3.2.2. Water absorption (EAD 040083-00-0404: clause 2.2.5)

3.2.2.1. Water absorption of the base coat and the rendering system (EAD 040083-00-0404: clause 2.2.5.1)

- Base coat FIBERCOAT on MW board:
  - Water absorption after 1 hour = 0,1 kg/m²;
  - Water absorption after 24 hours = 0,4 kg/m².
- Base coat FIBERCOAT on MW lamella:
  - Water absorption after 1 hour = 0,0 kg/m²;
  - Water absorption after 24 hours = 0,1 kg/m².
- Rendering systems: Table 3

Table 3.

		Water absorption after 1 hour	Water absorption after 24 hours
		mean value (kg/m²)	
MW board acc. to Annex No 1			
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	Mineral finishing coats DRYTEX: + DEMANDIT	0,1	0,2
	Mineral finishing coats DRYTEX: + SILSTAR / SILSTAR PRO	0,0	0,2
	Mineral finishing coats DRYTEX: + HYDROPHOBIC	0,0	0,2
	Mineral finishing coat DRYTEX WOOD + WOOD PRIME + WOOD GLAZE	0,0	0,1
	Mineral finishing coat DRYTEX WOOD + WOOD PRIME + WOOD GLAZE MATT	0,0	0,1
	COLOR PRIME PLUS + Mosaic structure finishing coats	0,0	0,2
	COLOR PRIME PLUS + Acrylic finishing coats PMR	0,1	0,4
	COLOR PRIME PLUS + Acrylic finishing coats FD PMR	0,1	0,4
	COLOR PRIME PLUS + Silicone finishing coats TR	0,1	0,4
	COLOR PRIME PLUS + Silicone finishing coats SL	0,1	0,4
	COLOR PRIME PLUS + Siloxane finishing coats HDP	0,1	0,4
	COLOR PRIME PLUS + Silicone-silicate finishing coats HYBRID	0,1	0,3
Rendering system: Base coat FIBERCOAT + relevant key coat + finishing coat applied by pattern indicated hereafter:	DEMANDIT + Mosaic structure finishing coats	0,1	0,3
	DEMANDIT + Custom Brick	0,0	0,2

3.2.2.2. Water absorption of the thermal insulation product (EAD 040083-00-0404: clause 2.2.5.2)

See Annex No 1

3.2.3. Water-tightness of the ETICS: Hygrothermal behaviour (EAD 040083-00-0404: clause 2.2.6)

Hygrothermal cycles have been performed on a rig in hygrothermal chamber. None of the following defects occurred during the testing:
- blistering or peeling of any finishing coat,
- failure or cracking associated with joints between insulation product boards,
- detachment of render,
- cracking allowing water penetration to the insulation layer.

The ETICS is so assessed resistant to hygrothermal cycles.

3.2.4. Water-tightness: Freeze-thaw performance (EAD 040083-00-0404: clause 2.2.7)

Water absorption of both, base coat and the rendering systems after 24 hours was lower than 0,5 kg/m^2 (Tab. 3).

The ETICS is so assessed as freeze-thaw resistant.

3.2.5. Impact resistance tested on the rig (EAD 040083-00-0404: clause 2.2.8)

Table 4.

		Hard body impact		
		Impact energy 3 J	**Impact energy 10 J**	**Impact resistance category**
Single layer of standard mesh STANDARD PLUS 150 (SSA-1363-145)		**Impact diameter (mm) / damages**		
MW lamella acc. to Annex No 1				
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	COLOR PRIME PLUS + Stonemist T	15 / superficial damages without cracks formation	28 / cracks without reaching the thermal insulation product	II
	COLOR PRIME PLUS + Lymestone PMR	9 / superficial damages without cracks formation	27 / cracks without reaching the thermal insulation product	II
	COLOR PRIME PLUS + Lymestone TR	15 / superficial damages without cracks formation	35 / cracks without reaching the thermal insulation product	II
Rendering system: Base coat FIBERCOAT + relevant key coat + finishing coat applied by pattern indicated hereafter:	DEMANDIT + Custom Brick, 1,2 mm	14 / superficial damages without cracks formation	27 / cracks without reaching the thermal insulation product	II

3.2.6. Impact resistance not tested on the rig (EAD 040083-00-0404: clause 2.2.8)

Table 5.

		Hard body impact		
		Impact energy 3 J	Impact energy 10 J	Impact resistance category
Single layer of standard mesh STANDARD PLUS 150 (SSA-1363-145)		**Impact diameter (mm) / damages**		
MW lamella acc. to Annex No 1				
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	Freestyle DRYTEX 1,2 mm + DEMANDIT	0 / no damages	16 / superficial damages without cracks formation	I
	Freestyle DRYTEX 1,2 mm + SILSTAR / SILSTAR PRO	8 / superficial damages without cracks formation	11 / superficial damages without cracks formation	I
	Freestyle DRYTEX 1,2 mm + HYDROPHOBIC	5 / superficial damages without cracks formation	12 / superficial damages without cracks formation	I
	DRYTEX WOOD 4,0 mm + WOOD PRIME + WOOD GLAZE	0 / no damages	19 / cracks without reaching the thermal insulation product	II
	DRYTEX WOOD 4,0 mm + WOOD PRIME + WOOD GLAZE MATT	0 / no damages	24 / cracks without reaching the thermal insulation product	II
	COLOR PRIME PLUS + Freestyle FD PMR 1,2 mm	8 / superficial damages without cracks formation	18 / cracks without reaching the thermal insulation product	II
	COLOR PRIME PLUS + Concrete SL	0 / no damages	0 / no damages	I
	COLOR PRIME PLUS + Lymestone HDP	5 / superficial damages without cracks formation	18 / superficial damages without cracks formation	I

Table 5. cont.

		Hard body impact		
		Impact energy 3 J	Impact energy 10 J	Impact resistance category
Single layer of standard mesh STANDARD PLUS 150 (SSA-1363-145)		**Impact diameter (mm) / damages**		
MW lamella acc. to Annex No 1				
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	COLOR PRIME PLUS + Lymestone HYBRID	4 / superficial damages without cracks formation	16 / superficial damages without cracks formation	I
Rendering system: Base coat FIBERCOAT + relevant key coat + finishing coat applied by pattern indicated hereafter:	DEMANDIT + Stonemist T	0 / no damages	6 / superficial damages without cracks formation	I

Table 6.

		Hard body impact		
		Impact energy 3 J	Impact energy 10 J	Impact resistance category
Single layer of standard mesh STANDARD PLUS 150 (SSA-1363-145)		**Impact diameter (mm) / damages**		
MW board acc. to Annex No 1				
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	Freestyle DRYTEX 1,2 mm + DEMANDIT	9 / superficial damages without cracks formation	16 / superficial damages without cracks formation	I
	Freestyle DRYTEX 1,2 mm + SILSTAR / SILSTAR PRO	0 / no damages	21 / superficial damages without cracks formation	I
	Freestyle DRYTEX 1,2 mm + HYDROPHOBIC	0 / no damages	12 / superficial damages without cracks formation	I

Table 6. cont.

		Hard body impact		
		Impact energy 3 J	Impact energy 10 J	Impact resistance category
Single layer of standard mesh STANDARD PLUS 150 (SSA-1363-145)		**Impact diameter (mm) / damages**		
MW board acc. to Annex No 1				
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	DRYTEX WOOD 4,0 mm + WOOD PRIME + WOOD GLAZE	0 / no damages	28 / cracks without reaching the thermal insulation product	II
	DRYTEX WOOD 4,0 mm + WOOD PRIME + WOOD GLAZE MATT	0 / no damages	22 / cracks without reaching the thermal insulation product	II
	COLOR PRIME PLUS + Stonemist T	0 / no damages	5 / superficial damages without cracks formation	I
	COLOR PRIME PLUS + Lymestone PMR	0 / no damages	9 / superficial damages without cracks formation	I
	COLOR PRIME PLUS + Freestyle FD PMR 1,2 mm	0 / no damages	17 / cracks without reaching the thermal insulation product	II
	COLOR PRIME PLUS + Lymestone TR	0 / no damages	21 / cracks without reaching the thermal insulation product	II
	COLOR PRIME PLUS + Concrete SL	0 / no damages	15 / superficial damages without cracks formation	I
	COLOR PRIME PLUS + Lymestone HDP	0 / no damages	9 / superficial damages without cracks formation	I
	COLOR PRIME PLUS + Lymestone HYBRID	0 / no damages	13 / superficial damages without cracks formation	I

Table 6. cont.

		Hard body impact		
		Impact energy 3 J	Impact energy 10 J	Impact resistance category
Single layer of standard mesh STANDARD PLUS 150 (SSA-1363-145)		**Impact diameter (mm) / damages**		
MW board acc. to Annex No 1				
Rendering system: Base coat FIBERCOAT + relevant key coat + finishing coat applied by pattern indicated hereafter:	DEMANDIT + Stonemist T	0 / no damages	9 / superficial damages without cracks formation	I
	DEMANDIT + Custom Brick, 1,2 mm	0 / no damages	29 / cracks without reaching the thermal insulation product	II

3.2.7. Water vapour permeability (EAD 040083-00-0404: clause 2.2.9)

3.2.7.1. Water vapour permeability of the rendering system (equivalent air thickness s_d) (EAD 040083-00-0404: clause 2.2.9.1)

Table 7.

		Equivalent air thickness s_d (m)
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	Mineral finishing coats DRYTEX + DEMANDIT	0,4
	thickness of rendering: 9,0 mm	
	Mineral finishing coats DRYTEX + SILSTAR / SILSTAR PRO	0,4
	thickness of rendering: 9,0 mm	
	Mineral finishing coats DRYTEX + HYDROPHOBIC	0,4
	thickness of rendering: 9,0 mm	
	Mineral finishing coat DRYTEX WOOD + WOOD PRIME + WOOD GLAZE	0,4
	thickness of rendering: 11,0 mm	
	Mineral finishing coat DRYTEX WOOD + WOOD PRIME + WOOD GLAZE MATT	0,4
	thickness of rendering: 11,0 mm	
	COLOR PRIME PLUS + Mosaic structure finishing coats	0,5
	thickness of rendering: 8,5 mm	
	COLOR PRIME PLUS + Acrylic finishing coats PMR	0,5
	thickness of rendering: 8,0 mm	
	COLOR PRIME PLUS + Acrylic finishing coats FD PMR	0,3
	thickness of rendering: 8,0 mm	

Table 7. cont.

		Equivalent air thickness s_d (m)
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	COLOR PRIME PLUS + Silicone finishing coats TR	0,5
	thickness of rendering: 8,0 mm	
	COLOR PRIME PLUS + Silicone finishing coats SL	0,1
	thickness of rendering: 6,5 mm	
	COLOR PRIME PLUS + Siloxane finishing coats HDP	0,4
	thickness of rendering: 8,0 mm	
	COLOR PRIME PLUS + Silicone-silicate finishing coats HYBRID	0,5
	thickness of rendering: 8,0 mm	
Rendering system: Base coat FIBERCOAT + relevant key coat + finishing coat applied by pattern indicated hereafter:	DEMANDIT + Mosaic structure finishing coats	0,3
	thickness of rendering: 8,5 mm	
	DEMANDIT + Custom Brick	0,3
	thickness of rendering: 7,0 mm	

3.2.7.2. Water vapour permeability of the thermal insulation product (water-vapour resistance factor) (EAD 040083-00-0404: clause 2.2.9.2)

See Annex No 1

3.3. Safety and accessibility in use (BWR 4)

3.3.1. Bond strength (EAD 040083-00-0404: clause 2.2.11)

3.3.1.1. Bond strength between the base coat and the thermal insulation product (EAD 040083-00-0404: clause 2.2.11.1)

Table 8.

		Bond strength (kPa)	
		mean	min
MW lamella acc. to Annex No 1			
FIBERCOAT	initial state	82*	79
	hygrothermal cycles (from the rig)	80*	79
	freeze-thaw cycles	test not required	
MW board acc. to Annex No 1			
FIBERCOAT	initial state	21*	18
	hygrothermal cycles	13*	13
	freeze-thaw cycles	test not required	

*cohesive rupture in insulation

3.3.1.2. Bond strength between the adhesive and the substrate (EAD 040083-00-0404: clause 2.2.11.2)

Table 9.

		Bond strength (kPa)	
		mean	min
ROXHESIVE** Minimal bonded area: S = 25 %	initial state	590*	530
	48 h immersion in water + 2 hours 23°C/50% RH	574*	480
	48 h immersion in water + 7 days 23°C/50% RH	1252*	1010
FIBERCOAT** Minimal bonded area: S = 39 %	initial state	878*	793
	48 h immersion in water + 2 hours 23°C/50% RH	1055*	980
	48 h immersion in water + 7 days 23°C/50% RH	1314*	1120
GENESIS DM PLUS** Minimal bonded area: S = 30 %	initial state	400*	274
	48 h immersion in water + 2 hours 23°C/50% RH	330*	274
	48 h immersion in water + 7 days 23°C/50% RH	1599*	595

*adhesive rupture; **thickness of adhesive – about 3 mm

3.3.1.3. Bond strength between the adhesive and the thermal insulation product (EAD 040083-00-0404: clause 2.2.11.3)

Table 10.

		Bond strength (kPa)	
		mean	min
MW lamella acc. to Annex No 1			
ROXHESIVE** Minimal bonded area: S = 25 %	initial state	126*	120
	48 h immersion in water + 2 hours 23°C/50% RH	96*	80
	48 h immersion in water + 7 days 23°C/50% RH	112*	110
FIBERCOAT** Minimal bonded area: S = 39 %	initial state	80*	76
	48 h immersion in water + 2 hours 23°C/50% RH	80*	76
	48 h immersion in water + 7 days 23°C/50% RH	80*	78
GENESIS DM PLUS** Minimal bonded area: S = 30 %	initial state	120*	100
	48 h immersion in water + 2 hours 23°C/50% RH	90*	50
	48 h immersion in water + 7 days 23°C/50% RH	120*	100

*cohesive rupture in insulation; **thickness of adhesive – about 3 mm

Table 11.

		Bond strength (kPa)	
		mean	min
MW board acc. to Annex No 1			
ROXHESIVE** Minimal bonded area: S = 25 %	initial state	10*	8
	48 h immersion in water + 2 hours 23°C/50% RH	5*	4
	48 h immersion in water + 7 days 23°C/50% RH	9*	8
FIBERCOAT** Minimal bonded area: S = 39 %	initial state	10*	9
	48 h immersion in water + 2 hours 23°C/50% RH	6*	5
	48 h immersion in water + 7 days 23°C/50% RH	10*	9
GENESIS DM PLUS** Minimal bonded area: S = 30 %	initial state	11*	9
	48 h immersion in water + 2 hours 23°C/50% RH	7*	6
	48 h immersion in water + 7 days 23°C/50% RH	10*	9

*cohesive rupture in insulation; **thickness of adhesive – about 3 mm

3.3.2. Fixing strength (transverse displacement test) (EAD 040083-00-0404: clause 2.2.12)

Test not required because the ETICS fulfils the following criteria: E · d < 50 000 N/mm.

3.3.3. Wind load resistance of ETICS (EAD 040083-00-0404: clause 2.2.13)

3.3.3.1. Pull-through test of fixings (EAD 040083-00-0404: clause 2.2.13.1)

Table 12.

Anchors for which the following failure loads apply			**Anchors according to Annex No 2**
	Plate diameter (mm)		≥ 60
Characteristics of the **MW boards** for which the following failure loads apply	Thickness (mm)		≥ 60
	Tensile strength perpendicular to the faces (kPa)		
	under dry conditions		≥ 16
	under wet conditions 28 days		≥ 6
Failure loads (kN)	Anchors not placed at the panel joints (*Pull-through test*) dry conditions	R_{panel}	Individual values: 0,45; 0,44; 0,48; 0,44; 0,46
			Mean: 0,46
	Anchors not placed at the panel joints (*Pull-through test*) wet conditions	R_{panel}	Individual values: 0,42; 0,42; 0,42; 0,42; 0,40
			Mean: 0,42

Load / Displacement Graphs see Annex No 3.

3.3.3.2. Static foam block test (EAD 040083-00-0404: clause 2.2.13.2)

Table 13.

Anchors for which the following failure loads apply	**Anchors according to Annex No 2**		
	Plate diameter (mm)		≥ 60
Characteristics of the **MW boards** for which the following failure loads apply	Thickness (mm)		≥ 60
	Tensile strength perpendicular to the faces under dry conditions (kPa)		≥ 16
Failure loads (kN)	Anchors placed at the panel joints (*Static foam block test*)	R_{joint}	Individual values: 0,44; 0,43; 0,38; 0,40; 0,40
			Mean: 0,41

3.3.3.3. Dynamic wind uplift test (EAD 040083-00-0404: clause 2.2.13.3)

Not relevant

3.3.4. Tensile test perpendicular to the faces of thermal insulation product (EAD 040083-00-0404: clause 2.2.14)

See Annex No 1

3.3.5. Shear strength and shear modulus of elasticity test of ETICS (EAD 040083-00-0404: clause 2.2.15)

See Annex No 1

3.3.6. Render strip tensile test (EAD 040083-00-0404: clause 2.2.17)

No performance assessed.

3.3.7. Bond strength after ageing (EAD 040083-00-0404: clause 2.2.20)

3.3.7.1. Bond strength after ageing of finishing coat tested on the rig (EAD 040083-00-0404: clause 2.2.20.1)

Table 14.

		Bond strength after hygrothermal cycles (kN/m²)	
		mean	**individual values**
MW lamella acc. to Annex No 1			
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	COLOR PRIME PLUS + Mosaic structure finishing coats	81*	84; 80; 81; 78; 80
	COLOR PRIME PLUS + Acrylic finishing coats PMR	82*	104; 61; 84; 80; 81
	COLOR PRIME PLUS + Silicone finishing coats TR	80*	77; 80; 81; 80; 83
Rendering system: Base coat FIBERCOAT + relevant key coat + finishing coat applied by pattern indicated hereafter:	DEMANDIT + Custom Brick	81*	83; 83; 80; 76; 82

*cohesive rupture in insulation

3.3.7.2. Bond strength after ageing of finishing coat not tested on the rig (EAD 040083-00-0404: clause 2.2.20.2)

Table 15.

		Bond strength (kN/m²)	
		mean	individual values
MW lamella acc. to Annex No 1			
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	Mineral finishing coats DRYTEX + DEMANDIT	80*	78; 80; 80; 81; 82
	Mineral finishing coats DRYTEX + SILSTAR / SILSTAR PRO	80*	80; 75; 83; 81; 81
	Mineral finishing coats DRYTEX + HYDROPHOBIC	80*	80; 70; 82; 83; 85
	Mineral finishing coat DRYTEX WOOD + WOOD PRIME + WOOD PRIME + WOOD GLAZE	80*	81; 80; 75; 84; 80
	Mineral finishing coat DRYTEX WOOD + WOOD PRIME + WOOD PRIME + WOOD GLAZE MATT	79*	70; 83; 81; 82; 81
	COLOR PRIME PLUS + Acrylic finishing coats FD PMR	79*	83; 81; 69; 84; 80
	COLOR PRIME PLUS + Silicone finishing coats SL	83*	85; 85; 81; 80; 82
	COLOR PRIME PLUS + Siloxane finishing coats HDP	81*	81; 83; 82; 78; 80
	COLOR PRIME PLUS + Silicone-silicate finishing coats HYBRID	80*	83; 74; 80; 80; 81
Rendering system: Base coat FIBERCOAT + relevant key coat + finishing coat applied by pattern indicated hereafter:	DEMANDIT + Mosaic structure finishing coats	80*	81; 80; 80; 75; 83

*cohesive rupture in insulation

Table 16.

		Bond strength (kN/m²)	
		mean	individual values
MW board acc. to Annex No 1			
Rendering system: Base coat FIBERCOAT + relevant key coat (if used) + finishing coat indicated hereafter + decorative coat (if used):	Mineral finishing coats DRYTEX + DEMANDIT	11*	10; 11; 7; 12; 13
	Mineral finishing coats DRYTEX + SILSTAR / SILSTAR PRO	11*	10; 12; 14; 8; 13
	Mineral finishing coats DRYTEX + HYDROPHOBIC	12*	13; 12; 10; 14; 11
	Mineral finishing coat DRYTEX WOOD + WOOD PRIME + WOOD PRIME + WOOD GLAZE	11*	15; 10; 11; 12; 9
	Mineral finishing coat DRYTEX WOOD + WOOD PRIME + WOOD PRIME + WOOD GLAZE MATT	12*	14; 10; 13; 11; 10
	COLOR PRIME PLUS + Mosaic structure finishing coats	11*	10; 13; 14; 9; 10
	COLOR PRIME PLUS + Acrylic finishing coats PMR	10*	12; 10; 9; 11; 10
	COLOR PRIME PLUS + Acrylic finishing coats FD PMR	12*	11; 11; 15; 10; 13
	COLOR PRIME PLUS + Silicone finishing coats TR	11*	10; 11; 13; 12; 10
	COLOR PRIME PLUS + Silicone finishing coats SL	12*	13; 13; 10; 11; 12
	COLOR PRIME PLUS + Siloxane finishing coats HDP	11*	13; 13; 10; 10; 11
	COLOR PRIME PLUS + Silicone-silicate finishing coats HYBRID	12*	15; 13; 14; 11; 8
Rendering system: Base coat FIBERCOAT + relevant key coat + finishing coat applied by pattern indicated hereafter:	DEMANDIT + Mosaic structure finishing coats	11*	11; 10; 12; 11; 11
	DEMANDIT + Custom Brick	11*	10; 13; 11; 10; 11

*cohesive rupture in insulation

3.3.8. Mechanical and physical characteristics of the mesh (EAD 040083-00-0404: clause 2.2.21)

3.3.8.1. Tensile strength and elongation of the glass fibre mesh in the as-delivered (EAD 040083-00-0404: clause 2.2.21.1)

Table 17.

	Average tensile strength in the as-delivered state (N/mm)		Average elongation in the as-delivered state (%)	
	warp	weft	warp	weft
STANDARD PLUS 150 *(SSA-1363-145)*	49,0	50,0	3,8	3,7
STANDARD PLUS 150 *(HRSSA-1363-150)*	47,0	48,0	3,8	4,0
STANDARD PLUS 160 *(SSA-1363-160)*	43,0	45,0	3,6	3,9
STANDARD PLUS 160 *(E132L)*	43,0	48,0	3,6	3,6
STANDARD PLUS 160 *(EUROWEK LUX)*	39	55	3,7	3,7
STANDARD PLUS 200 *(SSA-6810)*	63,0	69,0	4,1	4,2

3.3.8.2. Tensile strength and elongation of the glass fibre mesh after ageing state (EAD 040083-00-0404: clause 2.2.21.2)

Table 18.

	Average tensile strength after ageing (N/mm)		Residual strength after ageing (%)		Average elongation after ageing (%)	
	warp	weft	warp	weft	warp	weft
STANDARD PLUS 150 *(SSA-1363-145)*	25,0	29,0	51,0	58,0	2,1	2,3
STANDARD PLUS 150 *(HRSSA-1363-150)*	35,0	34,0	74,5	70,8	2,7	2,7
STANDARD PLUS 160 *(SSA-1363-160)*	26,0	29,0	60,5	64,4	2,3	2,3
STANDARD PLUS 160 *(E132L)*	26,0	29,0	60,5	60,4	2,2	2,2
STANDARD PLUS 160 *(EUROWEK LUX)*	28,0	49,0	71,8	89,1	2,6	3,4
STANDARD PLUS 200 *(SSA-6810)*	35,0	46,0	55,6	66,7	2,3	2,7

3.4. Protection against noise (BWR 5)

3.4.1. Airborne sound insulation of ETICS (EAD 040083-00-0404: clause 2.2.22)

3.4.1.1. Airborne sound insulation of ETICS (EAD 040083-00-0404: clause 2.2.22.1)

No performance assessed.

3.4.1.2. Dynamic stiffness of the thermal insulation product (EAD 040083-00-0404: clause 2.2.22.2)

No performance assessed.

3.4.1.3. Air flow resistance of the thermal insulation product (EAD 040083-00-0404: clause 2.2.22.3)

No performance assessed.

3.5. Energy economy and heat retention (BWR 6)

3.5.1. Thermal resistance and thermal transmittance of ETICS (EAD 040083-00-0404: clause 2.2.23)

The additional thermal resistance provided by the ETICS (R_{ETICS}) to the substrate has been assessed by calculations on the basis of the thermal resistance of the thermal insulation product ($R_{insulation}$) and from either the tabulated (R_{render}) value of the render system [about 0,02 in $(m^2 \cdot K)/W$].

$$R_{ETICS} = R_{insulation} + R_{render}$$

as described in EN ISO 10456.

Table 19.

Thermal resistance R_{ETICS} with minimum thickness of MW* $[(m^2 \cdot K)/W]$	Thermal resistance R_{ETICS} with maximum thickness of MW* $[(m^2 \cdot K)/W]$
1,131	8,909

*at maximum value of thermal conductivity 0,045 W/(m · K)

The thermal transmittance of the substrate wall covered by the ETICS 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 $W/(m^2 \cdot K)$

U_c: corrected thermal transmittance of the entire wall $(W/(m^2 \cdot K))$

n: number of anchors (through insulation product) per 1 m^2

χ_p: point thermal transmittance value of the anchor (W/K). The values listed below can be taken into account if not specified in the anchor's ETA:

- = 0,002 W/K for anchors with a plastic screw/nail, stainless steel screw/nail with the head covered by at least 15 mm plastic material, or with a minimum 15 mm air gap at the head of the screw/nail;
- = 0,004 W/K for anchors with a galvanized carbon steel screw/nail with the head covered by at least 15 mm plastic material, or with a minimum 15 mm air gap at the head of the screw/nail;
- = 0,008 W/K for all other anchors (worst case);

U: thermal transmittance of the current part of the covered wall (excluding thermal bridges) $(W/(m^2 \cdot K))$ determined as follows:

$$U = \frac{1}{R_{insulation} + R_{render} + R_{substrate} + R_{se} + R_{si}}$$

where:

$R_{insulation}$: thermal resistance of the insulation product (according to declaration in reference to EN 13162) in $(m^2 \cdot K)/W$

R_{render}: thermal resistance of the render (about 0,02 in $(m^2 \cdot K)/W$ or determined by test according to EN 12667 or EN 12664)

$R_{substrate}$: thermal resistance of the substrate wall in $(m^2 \cdot K)/W$

R_{se}: external surface thermal resistance in $(m^2 \cdot K)/W$

R_{si}: internal surface thermal resistance in $(m^2 \cdot K)/W$

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 ETICS.

3.5.2. Thermal resistance of the thermal insulation product (EAD 040083-00-0404: clause 2.2.23.1)

See Annex No 1

4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

In accordance with the European Assessment Document EAD No. 040083-00-0404, the applicable European legal act is: Decision 97/556/EC. The system(s) of assessment and verification of constancy of performance (AVCP) is 2+.

In addition, with regard to reactionto fire for products, the applicable European legal act is Decision 97/556/EC, as amended by Decision 2001/596/EC. The system of assessment and verification of constancy of performance (AVCP) is 2+.

5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

The manufacturer shall perform a permanent internal factory production control based on the Control Plan.

The Control Plan for the manufacturer is specified in clause 3.2 of EAD 040083-00-0404 *External Thermal Insulation Composite Systems (ETICS) with renderings*.

The manufacturer and Łukasiewicz Research Network, Institute of Ceramics and Building Materials TAB have agreed a Control Plan which is deposited at Łukasiewicz Research Network, Institute of Ceramics and Building Materials TAB in documentation which accompanies ETA.

Issued in Krakow on 21.10.2025

By

Paweł PICHNIARCZYK

Director of Łukasiewicz Research Network – Institute of Ceramics and Building Materials

Annexes:

Annex No 1 – Insulation products characteristics

Annex No 2 – Anchors characteristics

Annex No 3 – Load-displacement graph

Annex No 4 – Glass fibre meshes characteristics

Annex No 1 – Insulation products characteristics

		Factory made mineral wool (MW) products according to EN 13162	
		MW board	**MW lamella**
Reaction to fire / EN 13501-1		Class A1 max. density: 160 kg/m^3	
Thermal conductivity (λ_D) / EN 12667 / EN 12939		≤ 0,045 W/(m · K)	
Thermal resistance		Defined in the CE marking in reference to EN 13162 (m^2·K)/W	
Thickness / EN 823		- 3 % or - 3 mm + 5 % or + 5 mm [EN 13162 - T4]	- 1 % or - 1 mm + 3 mm [EN 13162 - T5]
Dimensional stability under specified conditions	EN 1604	1 % [EN 13162 - DS(70,-)]	
	EN 1604	-	1 % [EN 13162 - DS(70,90)]
Short-term water absorption (partial immersion) / EN 1609 / Method A		≤ 1,0 kg/m^2	
Long-term water absorption (partial immersion) / EN 12087		EN 13162 - WL(P)	
Water vapour permeability, diffusion factor (μ) / EN 12086 - EN 13162		EN 13162 – 1	
Tensile strength perpendicular to the faces in dry conditions / EN 1607		≥ 10 kPa [EN 13162 – TR10]	≥ 80 kPa [EN 13162 – TR80]
Shear strength / EN 12090 - EN 13162		-	≥ 20 kPa
Shear modulus / EN 12090 - EN 13162		-	≥ 1000 kPa

Annex No 2 – Anchors characteristics

Anchor trade name	Plate stiffness (kN/mm)/ diameter (mm)	Characteristic resistance in the substrate
LMX-10	0,5 / 60	ETA-16/0509
LMX-8	0,5 / 60	ETA-16/0509
Klimas Wkret-met screw-in plug eco-drive	0,6 / 60	ETA 13/0107
Koelner TFIX-8S	0,6 / 60	ETA 11/0144
Koelner TFIX-8ST	0,6 / 60	ETA-11/0144
R-TFIX-8S	0,6 / 60	ETA 17/0161
R-TFIX-8M	1,0 / 60	ETA 17/0592
WKTHERMø8	0,6 / 60	ETA 11/0232
WKTHERM S	0,6 / 60	ETA-13/0724
BRAVOLL® PTH-KZ 60/8	0,7 / 60	ETA-05/0055
BRAVOLL® PTH-S	0,9 / 60	ETA-08/0267
Insulation support TFIX-8M	1,0 / 60	ETA 07/0336
EJOT H1 eco	0,6 / 60	ETA-11/0192
EJOT H4 eco	0,6 / 60	ETA-11/0192
ejotherm STR U	0,6 / 60	ETA-04/0023
ejotherm STR U 2G	0,6 / 60	ETA-04/0023

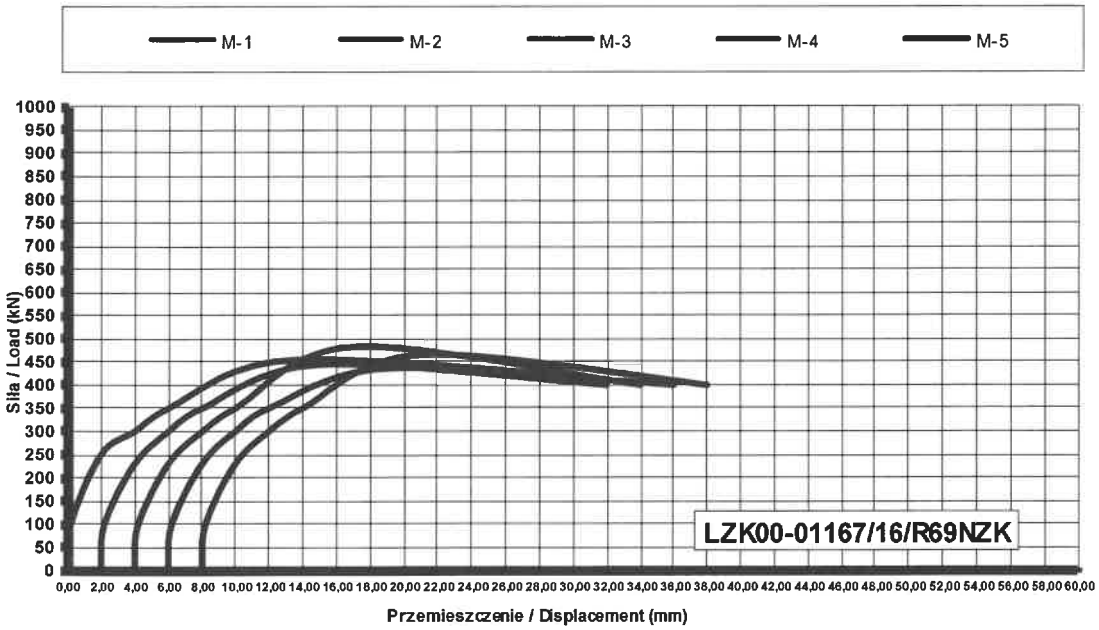
Additionally, anchors covered by relevant ETA can be used, provided that they meet the following requirements:

	Requirement
Plate diameter	≥ 60 mm
Plate stiffness	≥ 0,5 kN/mm

Annex No 3 – Load-displacement graph

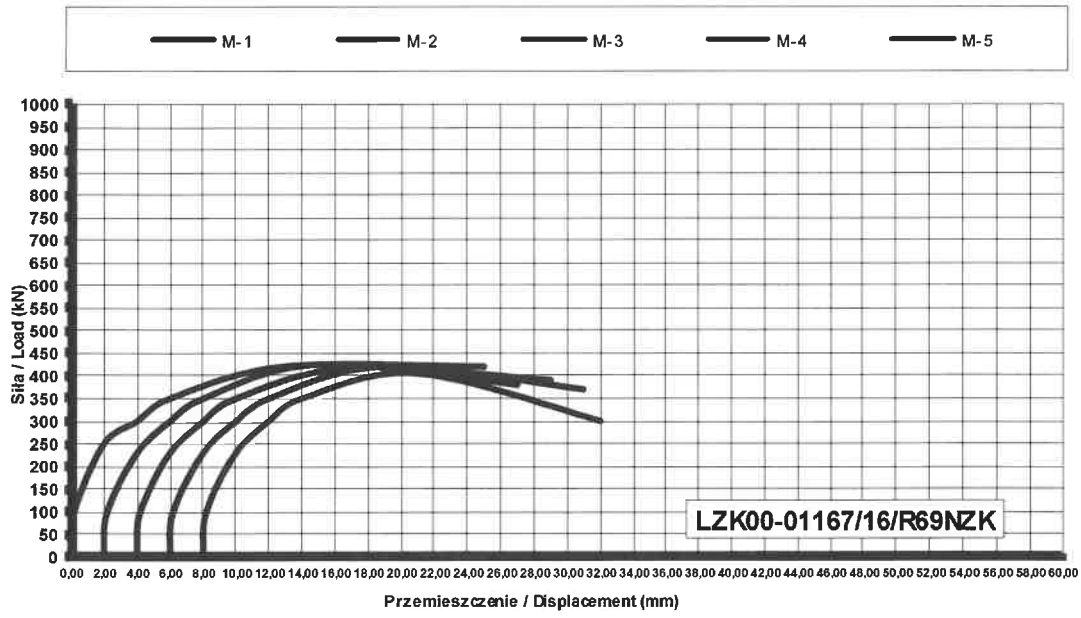
Anchors not placed at the panel joints (*Pull-through test*) - dry conditions

Graph 1 [surface assembly – MW board]



Anchors not placed at the panel joints (*Pull-through test*) - wet conditions

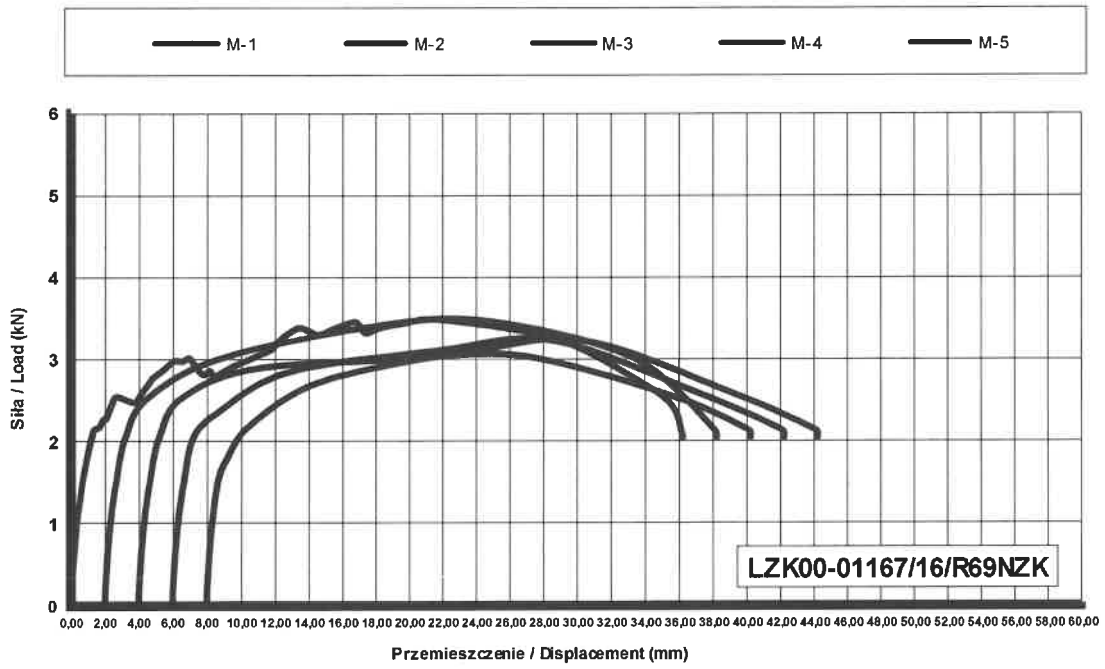
Graph 2 [surface assembly – MW board]



Annex No 3 – Load-displacement graph – cont.

Anchors placed at the panel joints (*Static foam block test*)

Graph 1 [surface assembly – MW board]



Annex No 4 – Glass fibre meshes characteristics

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
STANDARD PLUS 150 *(SSA-1363-145)*	Mass per unit area: 151 g/m² Mesh size: 4,5 x 3,8 mm	≥ 20	≥ 50
STANDARD PLUS 150 *(HRSSA-1363-150)*	Mass per unit area: 147 g/m² Mesh size: 3,5 x 4,3 mm	≥ 20	≥ 50
STANDARD PLUS 160 *(SSA-1363-160)*	Mass per unit area: 165 g/m² Mesh size: 4,0 x 3,9 mm	≥ 20	≥ 50
STANDARD PLUS 160 *(E132L)*	Mass per unit area: Mesh size: 3,9 x 3,8 mm	≥ 20	≥ 50
STANDARD PLUS 160 *(EUROWEK LUX)*	Mass per unit area: 163 g/m² Mesh size: 4,2 x 4,9 mm	≥ 20	≥ 50
STANDARD PLUS 200 *(SSA-6810)*	Mass per unit area: 226 g/m² Mesh size: 8,0 x 7,6 mm	≥ 20	≥ 50