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Designated according to Article 29 of Regulation (UE) No 305/2011

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European Technical Assessment

ETA-04/0014 - version 3 of 31/07/2025

GENERAL PART

Technical Assessment Body issuing the European Technical Assessment:	Centre Scientifique et Technique du Bâtiment (CSTB)
Trade name of the construction product:	**PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS**
Product family to which the construction product belongs:	Product Area Code: 04 External Thermal Insulation Composite System with rendering (ETICS)
Manufacturer:	**SIKA France S.A.S** 84 rue Edouard Vaillant FR-93350 Le Bourget
Manufacturing plant(s):	**SIKA France S.A.S** 84 rue Edouard Vaillant FR-93350 Le Bourget
This European Technical Assessment contains:	38 pages including 4 Annexes which form an integral part of this assessment Annex 5 contains confidential information and is not included in the European Technical Assessment when that assessment is publicly available
This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of:	European Assessment Document (EAD) 040083-00-0404 External Thermal Insulation Composite Systems (ETICS) with renderings
This version replaces:	ETA-04/0014-version 2 valid from 28/06/2018

SPECIFIC PART

1. Technical description of the product

The External Thermal Insulation Composite System "**PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS**", subject to this European Technical Assessment (hereinafter ETA) and called ETICS in the following text, is a kit designed and installed in accordance with the Manufacturer's instructions, deposited with the CSTB. The ETICS comprises the components listed in the following table, which are factory-produced by the Manufacturer or a supplier. The ETICS is made up on site from these components.

The ETICS also includes ancillary materials which are defined in clause 1.3.13 of the EAD[1]. They shall be used in accordance with the Manufacturer's instructions.

The ETICS is described according to its method of fixing, as defined in clause 1.1 of the EAD.

Method of fixing	Component	Coverage (kg/m²)	Thickness (mm)
Bonded ETICS (purely bonded or bonded with supplementary anchors)	**Insulation product**		
	Expanded polystyrene (EPS) boards, see Annex 1		20 to 300
	Adhesives		
	MAITÉ (cement-based powder requiring addition of about 17 to 19% wt. water)	2.6 to 3.4 [powder]	—
	CALISO (cement-based powder requiring addition of 21 to 22% wt. water)	2.6 to 3.4 [powder]	—
	UNITÉ (cement-based powder requiring addition of about 19.2 to 23.2% wt. water)	2.6 to 3.5 [powder]	—
	FACITÉ (grey or white cement-based powder requiring addition of 22 to 24% wt. water)	2.0 to 3.0 [powder]	—
	Supplementary anchors for insulation product		
	Plastic anchors, see Annex 2	—	—
Mechanically fixed ETICS with anchors and supplementary adhesive	**Insulation product**		
	Expanded polystyrene (EPS) boards, see Annex 1		40 to 300
	Supplementary adhesives		
	MAITÉ (cement-based powder requiring addition of about 17 to 19% wt. water)	2.6 to 3.4 [powder]	—
	CALISO (cement-based powder requiring addition of 21 to 22% wt. water)	2.6 to 3.4 [powder]	—
	UNITÉ (cement-based powder requiring addition of about 19.2 to 23.2% wt. water)	2.6 to 3.5 [powder]	—
	FACITÉ (grey or white cement-based powder requiring addition of 22 to 24% wt. water)	2.0 to 3.0 [powder]	—
	Anchors for insulation product		
	Plastic anchors, see Annex 2	—	—

[1] EAD 040083-00-0404 is available on the EOTA website: www.eota.eu.

Method of fixing	Component	Coverage (kg/m²)	Thickness (mm)
Every method of fixing	**Base coat**		
	MAITÉ: powder requiring addition of about 17 to 19% wt. water, consisting of white cement, a vinylic micronised copolymer, mineral pigments, calcium carbonate and silica as particles and specific additives.	About 4.5 [powder]	Mean (dry): 3.5 Minimal (dry): 3.0
	Meshes		
	Glass fibre meshes (standard and reinforced), see Annex 3		
	Key coats		
	REVLANE RÉGULATEUR: ready-to-use pigmented liquid, acrylic binder, to apply mandatory before **GRANILANE** and **PAREX DÉCO TRAVERTIN** finishing coats and to apply optionally before **REVLANE TF 1.0 / TG 1.6, REVLANE RF 1.6 and REVLANE SILOXANÉ TF 1.0 / TG 1.6** and **REVLANE CLEAN** finishing coats.	0.15 to 0.20	—
	SILICANE FOND: uncoloured liquid, silicate binder: - requiring addition of 100% wt. **SILICANE LISSE**, or to be used pure, to apply mandatory before silicate finishing coats **SILICANE TF 1.0 / SILICANE TG 1.6** - ready-to-use, to apply optionally before **CALCIFIN** and **CALCILISSE**	0.10 to 0.15 [prepared] 0.08 to 0.12	—
	Finishing coats		
	Ready-to-use pastes – acrylic binder: - **REVLANE TF 1.0** (particles size 1.0 mm) - **REVLANE TG 1.6** (particles size 1.6 mm) - **REVLANE RF 1.6** (particles size 1.6 mm)	 2.2 to 2.5 2.7 to 3.0 2.5 to 2.7	Regulated by particle size
	For applications between 1 and 15°C, these pastes can be mixed with 4 to 8% wt. of **PATACCEL** (powder made of hydraulic binder and mineral filler) to accelerate their drying.		
	Ready-to-use pastes – acrylosiloxane binder: - **REVLANE SILOXANÉ TF 1.0** particles size 1.0 mm) - **REVLANE SILOXANÉ TG 1.6** (particles size 1.6 mm)	 2.2 to 2.5 2.7 to 3.0	Regulated by particle size
	For applications between 1 and 15°C, these pastes can be mixed with 4 to 8% wt. of **PATACCEL** (powder made of hydraulic binder and mineral filler) to accelerate their drying.		

Method of fixing	Component	Coverage (kg/m²)	Thickness (mm)
Every method of fixing	Ready-to-use paste – acrylic binder with coloured marble aggregates: **GRANILANE** (particles size 1.8 mm)	4.5 to 5.0	Regulated by particle size
	Ready-to-use pastes – silicate binder: **SILICANE TF 1.0** (particles size 1.0 mm) **SILICANE TG 1.6** (particles size 1.6 mm)	1.4 to 1.7 2.7 to 3.0	Regulated by particle size
	Ready-to-use paste – acrylosiloxane binder: **PAREX DÉCO TRAVERTIN** (particles size 0.8 mm)	2.0 to 2.2	About 1.5
	For applications between 1 and 15°C, these pastes can be mixed with 4 to 8% wt. of **PATACCEL** (powder made of hydraulic binder and mineral filler) to accelerate their drying.		
	Ready-to-use paste – siloxane binder: **REVLANE CLEAN** (particles size 1.0 mm)	1.8 to 2.2	Regulated by particle size
	Cement-based powder requiring addition of about 17 to 19% wt. water: **MAITÉ** with marble aggregates: - **MAITÉ**: same product as base coat - **MARBRI GRANULATS**: coloured marble aggregates (particles size 3 to 6 mm)	3.4 to 4.3 [powder] at least 8.0	About 6.0
	Hydrated calcic lime-based powder requiring addition of 24 to 26% wt. water: **CALCIFIN** (particles size 1.0 mm)	1.8 to 2.2 [powder]	Regulated by particle size
	Hydrated calcic lime-based powder requiring addition of 22 to 23% wt. water: **CALCILISSE** (particles size 0.8 mm)	3.0 to 3.4 [powder]	2.5 to 3.0
	Cement-based powders requiring addition of 20 to 24% wt. water: - **EHI GM** (particles size 3.0 mm) - **EHI GF** (particles size 2.0 mm)	14 to 18 [powder]	8.0 to 10.0
	UNITÉ: Cement-based powder requiring addition of 19.2 to 23.2% wt. water: - rough / partly smoothed rough - scraped - structured	12 to 14 [powder]	8.0 to 10.0
	Hydrated calcic lime-based powder requiring addition of 20 to 24% wt. water: **CALCIGRAIN** (particles size 2.0 mm)	14 to 17 [powder]	8.0 to 10.0

Method of fixing	Component	Coverage (kg/m²)	Thickness (mm)
Every method of fixing	Cement-based powder associated with a decorative paint: **MAITÉ** with **SILICANE LISSE**: - **MAITÉ**: same product as base coat - **SILICANE LISSE**: silicate-based pigmented liquid, requiring addition of about 20% wt. **SILICANE FOND**	About 2.0 [powder] About 0.4 [prepared]	About 1.5
	Cement-based powder associated with a decorative paint: **MAITÉ** with **BADI DECO**: - **MAITÉ**: same product as base coat - **BADI DECO**: Hydrated lime-based liquid	About 2.0 [powder] About 0.4	About 1.5
Ancillary materials	Descriptions in accordance with § 1.3.13 of the EAD Remain under the ETA-Manufacturer responsibilities		

The ETICS is designed to give the walls to which it is applied satisfactory thermal insulation. The minimum thermal resistance of the ETICS shall be higher than 1.0 m^2.K/W.

The components are protected from moisture during transport and storage by means of appropriate packaging, unless other measures are foreseen by the Manufacturer for this purpose.

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

This ETICS is intended to be used as thermal insulation of buildings' external walls made of masonry (bricks, blocks, stones, *etc.*) or concrete (cast on site or as prefabricated panels).

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

The ETICS is made of non-load bearing construction elements. It does not contribute directly to the stability of the walls on which it is installed, but it can contribute to durability by providing enhanced protection from the effect of weathering.

The ETICS is not intended to ensure the airtightness of the walls.

The provisions made in this ETA are based on an assumed working life of at least 25 years, provided that the construction works are subject to appropriate design, execution, maintenance and repair. The indications given as to the working life cannot be interpreted as a guarantee given by the Manufacturer or the Technical Assessment Body, but should only be regarded as a means for choosing the appropriate products in relation to the expected economically reasonable working life of the works.

The ETICS is installed in accordance with Manufacturer´s installation instructions.

Design, execution, maintenance and repair of the construction works shall be done in accordance with national instructions

3. Performances of the product and references to the methods used for their assessment

Performances of the ETICS, related to the basic requirements for construction works (hereinafter BWR), were determined according to chapter 2 of the EAD.

These performances, given in the following paragraphs, are valid as long as the components are the ones described in § 1 and Annexes 1 to 3 of this ETA.

3.1 Safety in case of fire (BWR 2)

No	Essential characteristic	Assessment method (EAD clause)	Performance
1	Reaction to fire	2.2.1	
	- Reaction to fire of ETICS	2.2.1.1	B-s1, d0 or B-s2, d0 See clause 3.1 for the details
	- Reaction to fire of thermal insulation material	2.2.1.2	Euroclass E
	- Reaction to fire of PU foam adhesive	2.2.1.3	Not applicable
2	Façade fire performance	2.2.2	No performance assessed
3	Propensity to undergo continuous smouldering of ETICS	2.2.3	No performance assessed

Reaction to fire:

Configuration	Declared organic content (1)	Declared flame retardant content (1)	Class according to EN 13501-1
• Adhesives / supplementary adhesives: - **MAITÉ** - **CALISO** - **UNITÉ** - **FACITE** • Insulation product: EPS boards, reaction to fire Class E, thickness ≤ 300 mm, density ≤ 20 kg/m^3 • Base coat: **MAITÉ** • Meshes: - SSA-1363 F+ - R 131 A 101 C+ • Finishing coats: - **EHI GM** - **EHI GF** - **UNITE** - **CALIGRAIN**	Base coat: 7.0% Finishing coats: 2.6 %	Base coat: 0.0% Finishing coats: 0.0%	B-s1, d0
• Adhesives / supplementary adhesives: - **MAITÉ** - **CALISO** - **UNITÉ** - **FACITE** • Insulation product: EPS boards, reaction to fire Class E, thickness ≤ 300 mm, density ≤ 22 kg/m^3 • Base coat: **MAITÉ** • Key coat: **REVLANE RÉGULATEUR** • Meshes: - SSA-1363 F+ - R 131 A 101 C+ • Finishing coats: - **REVLANE TF 1.0 / TG 1.6** (2) - **REVLANE RF 1.6**(2) - **REVLANE SILOXANÉ TF 1.0 / TG 1.6**(2) - **PAREX DÉCO TRAVERTIN** - **REVLANE CLEAN**	Base coat: 7.0% Key coat: 14.4% Finishing coats: 9.2 to 12.1%	Base coat: 0.0% Key coat: 0.0% Finishing coats: 17.1 to 18.2	B – s2, d0

(1) Percentage declared by the Manufacturer, relative to the dried weight of the component as delivered.

(2) With or without PATACCEL

Configuration	Declared organic content (1)	Declared flame retardant content (1)	Class according to EN 13501-1
• Adhesives / supplementary adhesives: - **MAITÉ** - **CALISO** - **UNITÉ** - **FACITE** • Insulation product: EPS boards, reaction to fire Class E, thickness ≤ 300 mm, density ≤ 22 kg/m^3 • Base coat: **MAITÉ** • Meshes: - SSA-1363 F+ - R 131 A 101 C+ • Finishing coats: - **MAITÉ** with **SILICANE LISSE** - **MAITÉ** with **BADI DECO**	Base coat: 7.0% Finishing coats: 2.7 to 12.6%	Base coat: 0.0% Finishing coats: 0.0 %	B-s2, d0
• Adhesives / supplementary adhesives: - **MAITÉ** - **CALISO** - **UNITÉ** - **FACITE** • Insulation product: EPS boards, reaction to fire Class E, thickness ≤ 300 mm, density ≤ 22 kg/m^3 • Base coat: **MAITÉ** • Key coat: **REVLANE REGULATEUR** • Meshes: - SSA-1363 F+ - R 131 A 101 C+ • Finishing coats: - **GRANILANE** - **MAITÉ** with **MARBRI GRANULATS**	Base coat: 7.0% Key coat: 14.4% Finishing coats: 8.0% (except for MARBRI GRANULATS 0.00%)	Base coat: 0.0% Key coat: 0.0% Finishing coats: 0.0 %	B-s2, d0

Configuration	Declared organic content (1)	Declared flame retardant content (1)	Class according to EN 13501-1
• Adhesives / supplementary adhesives: - **MAITÉ** - **CALISO** - **UNITÉ** - **FACITE** • Insulation product: EPS boards, reaction to fire Class E, thickness ≤ 300 mm, density ≤ 20 kg/m^3 • Base coat: **MAITÉ** • Key coat: - **SILICANE FOND** • Meshes: - SSA-1363 F+ - R 131 A 101 C+ • Finishing coats: **- CALCIFIN** **- CALCILISSE**	Base coat: 7.0% Key coat : 58.8% Finishing coats: 3.0 to 3.3%	Base coat: 0.0% Key coat : 0.00% Finishing coats: 0.0 %	B-s2, d0
• Adhesives / supplementary adhesives: - **MAITÉ** - **CALISO** - **UNITÉ** - **FACITE** • Insulation product: EPS boards, reaction to fire Class E, thickness ≤ 300 mm, density ≤ 20 kg/m^3 • Base coat: **MAITÉ** • Key coat: - **SILICANE FOND** • Meshes: - SSA-1363 F+ - R 131 A 101 C+ • Finishing coats: - **SILICANE TF 1.0 / TG 1.6**	Base coat: 7.0% Key coat : 58.8% Finishing coats: 6.2 to 6.4%	Base coat: 0.0% Key coat : 0.00% Finishing coats: 0.0 %	B-s2, d0

(1) Percentage declared by the Manufacturer, relative to the dried weight of the component as delivered.

Note: a European reference fire scenario has not been laid down for façades. In some Member States, the classification of ETICS according to EN 13501-1 might not be sufficient for the use in façades. An additional assessment of ETICS according to national provisions (e.g., on the basis of a large scale test) might be necessary to comply with Member States regulations, until the existing European classification system has been completed.

3.2 Hygiene, health and the environment (BWR 3)

No	Essential characteristic	Assessment method (EAD clause)	Performance
4	Content, emission and/or release of dangerous substances – leachable substances	2.2.4	No performance assessed
5	Water absorption	2.2.5	-
	- of the base coat and the rendering system	2.2.5.1	See cl. 3.2.1
	- of the thermal insulation product	2.2.5.2	≤ 1 kg/m² (EN 1609- Method A)
6	Water-tightness of the ETICS: Hygrothermal behaviour	2.2.6	Hygrothermal cycles have been performed on a rig. The ETICS is assessed resistant to hygrothermal cycles, it means system "**PARISO PSE-M / PAREXTHERM EPS / SIKATHERM EPS**" passed the test without defects.
7	Water-tightness: Freeze thaw performance	2.2.7	See cl. 3.2.2
8	Impact resistance	2.2.8	See cl. 3.2.3
9	Water vapour permeability	2.2.9	-
	- of the rendering system (equivalent air thickness s_d)	2.2.9.1	See cl. 3.2.4
	- of thermal insulation product (water-vapour resistance factor)	2.2.9.2	μ = 20-60

3.2.1 Water absorption – capillarity test

3.2.1.1 Water absorption of the base coat

- After 1 hour: mean value of water absorption: 0.05 kg/m^2
- After 24 hours: mean value of water absorption: 0.26 kg/m^2

3.2.1.2 Water absorption of the rendering system

Rendering system: Base coat + finishing coat indicated below	Mean value of water absorption (kg/m²) after	
	1 hour	24 hours
Without REVLANE RÉGULATEUR: - REVLANE TF 1.0(1) - REVLANE TG 1.6(1) - REVLANE RF 1.6(1)	0.02	0.25
	Test result obtained with REVLANE TG 1.6	
With REVLANE RÉGULATEUR: - REVLANE TF 1.0(1) - REVLANE TG 1.6(1) - REVLANE RF 1.6(1)	0.03	0.12
	Test result obtained with REVLANE RF 1.6 + 8% PATACCEL	
Without REVLANE RÉGULATEUR: - REVLANE SILOXANÉ TF 1.0(1) - REVLANE SILOXANÉ TG 1.6(1)	< 0.5	< 0.5
	Test result obtained with REVLANE SILOXANÉ TG 1.6	
With REVLANE RÉGULATEUR: - REVLANE SILOXANÉ TF 1.0(1) - REVLANE SILOXANÉ TG 1.6(1)	0.04	0.22
	Test result obtained with REVLANE SILOXANE TG 1.6 + 8% PATACCEL	
With REVLANE RÉGULATEUR: GRANILANE	0.13	0.56
With SILICANE FOND + SILICANE LISSE: - SILICANE TF 1.0 - SILICANE TG 1.6	0.03	0.47
	Test result obtained with SILICANE TG 1.6	
With SILICANE FOND: - SILICANE TF 1.0 - SILICANE TG 1.6	0.02	0.17
	Test result obtained with SILICANE TG 1.6	
With REVLANE RÉGULATEUR: PAREX DÉCO TRAVERTIN(1)	0.02	0.21
Without REVLANE RÉGULATEUR: REVLANE CLEAN	0.01	0.15
MAITÉ with MARBRI GRANULATS	0.05	0.35
With or without SILICANE FOND: CALCIFIN	0.05	0.18
With or without SILICANE FOND: CALCILISSE	0.01	0.14

(1) With or without PATACCEL

Rendering system: Base coat + finishing coat indicated below	Mean value of water absorption (kg/m²) after	
	1 hour	24 hours
- EHI GM - EHI GF	0.06	0.30
	Test result obtained with EHI GM	
UNITÉ	0.16	0.67
CALCIGRAIN	0.10	0.65
MAITÉ with SILICANE FOND + SILICANE LISSE	0.12	0.58
MAITÉ with BADI DECO	0.20	0.64

3.2.2 Freeze-thaw behaviour

Rendering system with finishing coat MAITÉ with SILICANE FOND and SILICANE LISSE: the ETICS has been assessed as freeze / thaw resistant according to the simulation method.

Rendering system with finishing coats GRANILANE, UNITÉ, CALCIGRAIN, MAITÉ with BADI DECO: freeze / thaw cycles were not performed.

Rendering systems with the other finishing coats: water absorptions of both the base coat and the rendering systems are less than 0.5 kg/m² after 24 hours and the ETICS is therefore assessed as freeze/thaw resistant.

3.2.3 Impact resistance

Rendering system: Base coat + finishing coat indicated below		Presence of cracks	Maximum impact diameter (mm)	Use category
Without REVLANE RÉGULATEUR: - REVLANE TF 1.0 - REVLANE TG 1.6 - REVLANE RF 1.6	**single standard mesh**	No – 3J Yes – 10J	- 61 – 10J	Category II
	double standard mesh	-	-	NPD
	reinforced mesh + standard mesh	-	-	NPD
Without REVLANE RÉGULATEUR: - REVLANE TF 1.0 - REVLANE TG 1.6 - REVLANE RF 1.6 + 8% PATACCEL	**single standard mesh**	No – 3J Yes – 10J	- 52 – 10J	Category II
	double standard mesh	No – 3J No – 10J	- -	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	- -	Category I

Rendering system: Base coat + finishing coat indicated below		Presence of cracks	Maximum impact diameter (mm)	Use category
Without REVLANE RÉGULATEUR: - REVLANE SILOXANÉ TF 1.0 - REVLANE SILOXANÉ TG 1.6	**single standard mesh**	No – 3J No – 10J	- -	Category I
	double standard mesh	-	-	NPD
	reinforced mesh + standard mesh	-	-	NPD
Without REVLANE RÉGULATEUR: - REVLANE SILOXANÉ TF 1.0 - REVLANE SILOXANÉ TG 1.6 + 8% PATACCEL	**single standard mesh**	No – 3J Yes – 10J	- 60 – 10J	Category II
	double standard mesh	No – 3J No – 10J	- -	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	- -	Category I
With REVLANE RÉGULATEUR: GRANILANE	**single standard mesh**	No – 3J No – 10J	- -	Category I
	double standard mesh	No – 3J No – 10J	- -	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	- -	Category I
With SILICANE FOND + SILICANE LISSE: - SILICANE TF 1.0 - SILICANE TG 1.6	**single standard mesh**	No – 3J Yes – 10J	- 54 – 10J	Category II
	double standard mesh	No – 3J No – 10J	- -	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	- -	Category I
With SILICANE FOND: - SILICANE TF 1.0 - SILICANE TG 1.6	**single standard mesh**	No – 3J No – 10J	- -	Category I
	double standard mesh	No – 3J No – 10J	- -	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	- -	Category I

Rendering system: Base coat + finishing coat indicated below		Presence of cracks	Maximum impact diameter (mm)	Use category
With REVLANE RÉGULATEUR: PAREX DÉCO TRAVERTIN + 8% PATACCEL	**single standard mesh**	No – 3J No – 10J	- 27 – 10J	Category I
	double standard mesh	No – 3J No – 10J	- -	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	- -	Category I
Without REVLANE RÉGULATEUR: REVLANE CLEAN	**single standard mesh**	No – 3J Yes – 10J	- 51 – 10J	Category II
	double standard mesh	No – 3J No – 10J	- -	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	- -	Category I
MAITÉ with MARBRI GRANULATS	**single standard mesh**	No – 3J No – 10J	- -	Category I
	double standard mesh	No – 3J No – 10J	- -	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	- -	Category I
With or without SILICANE FOND: CALCIFIN	**single standard mesh**	No – 3J Yes – 10J	45 – 3J 75 – 10J	Category II
	double standard mesh	No – 3J Yes – 10J	23 – 3J 45 – 10J	Category II
	reinforced mesh + standard mesh	No – 3J No – 10J	- 30 – 10J	Category I
With or without SILICANE FOND: CALCILISSE	**single standard mesh**	Yes – 3J Yes – 10J	22 – 3J 77 – 10J	Category III
	double standard mesh	No – 3J Yes – 10J	- 29 – 10J	Category II
	reinforced mesh + standard mesh	No – 3J No – 10J	- 20 – 10J	Category I

Rendering system: Base coat + finishing coat indicated below		Presence of cracks	Maximum impact diameter (mm)	Use category
- EHI GM - EHI GF	**single standard mesh**	No – 3J No – 10J	17 – 3J 33 – 10J	Category I
	double standard mesh	No – 3J No – 10J	16 – 3J 30 – 10J	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	16 – 3J 26 – 10J	Category I
UNITÉ	**single standard mesh**	No – 3J No – 10J	13 – 3J 22 – 10J	Category I
	double standard mesh	No – 3J No – 10J	11 – 3J 18 – 10J	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	12 – 3J 12 – 10J	Category I
CALCIGRAIN	**single standard mesh**	No – 3J No – 10J	14 – 3J 25– 10J	Category I
	double standard mesh	No – 3J No – 10J	12 – 3J 22 – 10J	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	12 – 3J 20 – 10J	Category I
MAITÉ with SILICANE FOND + SILICANE LISSE	**single standard mesh**	No – 3J Yes – 10J	- 70 – 10J	Category II
	double standard mesh	No – 3J Yes – 10J	- 32 – 10J	Category II
	reinforced mesh + standard mesh	No – 3J No – 10J	- 18 – 10J	Category I
MAITÉ with BADI DECO	**single standard mesh**	No – 3J Yes – 10J	11 – 3J 60– 10J	Category II
	double standard mesh	No – 3J No – 10J	- 25 – 10J	Category I
	reinforced mesh + standard mesh	No – 3J No – 10J	- -	Category I

(1) With or without PATACCEL

NPD = No Performance Declared

3.2.4 Water vapour permeability – resistance to water vapour diffusion

Rendering system: Base coat + finishing coat indicated below	Thickness of the rendering system (mm)	Equivalent air thickness s_d (m)
With or without REVLANE RÉGULATEUR: - REVLANE TF 1.0(1) - REVLANE TG 1.6(1) - REVLANE RF 1.6(1)	4.6	≤ 1.0 (Test result obtained with REVLANE RÉGULATEUR with REVLANE TG 1.6: 0.9)
With or without REVLANE RÉGULATEUR: - REVLANE SILOXANÉ TF 1.0(1) - REVLANE SILOXANÉ TG 1.6(1)	5.6	≤ 1.0 (Test result obtained with REVLANE RÉGULATEUR with REVLANE SILOXANE TG 1.6: 0.5)
With REVLANE RÉGULATEUR: GRANILANE	6.9	≤ 1.0 (Test result obtained: 0.2)
With SILICANE FOND + SILICANE LISSE: SILICANE TF 1.0 SILICANE TG 1.6	5.1	≤ 1.0 (Test result obtained with SILICANE TG 1.6: 0.2)
With SILICANE FOND: SILICANE TF 1.0 SILICANE TG 1.6	5.9	≤ 1.0 (Test result obtained with SILICANE TG 1.6: 0.2)
With REVLANE RÉGULATEUR: PAREX DÉCO TRAVERTIN(1)	4.4	≤ 1.0 (Test result obtained: 0.5)
With or without REVLANE RÉGULATEUR: REVLANE CLEAN	5.8	≤ 1.0 (Test result obtained with REVLANE RÉGULATEUR: 0.7)
MAITÉ with MARBRI GRANULATS	4.9	≤ 1.0 (Test result obtained with MAITÉ Sprayed (not included in this ETA): 0.2)
CALCIFIN	3.8	≤ 1.0 (Test result obtained: 0.1)
With SILICANE FOND: CALCIFIN	3.6	≤ 1.0 (Test result obtained: 0.2)
CALCILISSE	6.4	≤ 1.0 (Test result obtained: 0.1)
With SILICANE FOND: CALCILISSE	6.9	≤ 1.0 (Test result obtained: 0.2)

Rendering system: Base coat + finishing coat indicated below	Thickness of the rendering system (mm)	Equivalent air thickness s_d (m)
- EHI GM - EHI GF	11.3	≤ 1.0 (Test result obtained with EHI GM: 0.3)
UNITÉ	17.0	≤ 1.0 (Test result obtained: 0.2)
CALCIGRAIN	19.1	≤ 1.0 (Test result obtained: 0.2)
MAITÉ with SILICANE FOND + SILICANE LISSE	6.0	≤ 1.0 (Test result obtained: 0.2)
MAITÉ with BADI DECO	5.6	≤ 1.0 (Test result obtained: 0.2)

(1) With or without PATACCEL.

3.3 Safety and accessibility in use (BWR 4)

No	Essential characteristic	Assessment method (EAD clause)	Performance
10	Bond strength	2.2.11	-
	- bond strength between the base coat and the thermal insulation product (mortar or paste)	2.2.11.1	See cl. 3.3.1.1
	- bond strength between the adhesive and the substrate	2.2.11.2	See cl. 3.3.1.2
	- bond strength between the adhesive and the thermal insulation product	2.2.11.3	See cl. 3.3.1.2
	- bond strength of foam adhesives	2.2.11.4	Not applicable
11	Fixing strength	2.2.12	Test not required because the ETICS fulfils the following criteria: E.d < 50,000 N/mm
12	Wind load resistance of ETICS	2.2.13	-
	- pull-through tests of fixing	2.2.13.1	See cl. 3.3.2.1
	- static foam block test	2.2.13.2	Not applicable
	- dynamic wind uplift test	2.2.13.3	Not applicable
13	Tensile test perpendicular to the faces of the thermal insulation product	2.2.14	-
	- in dry conditions	2.2.14.1	See cl 3.3.3.1
	- in wet conditions	2.2.14.2	No performance assessed
14	Shear strength and shear modulus of elasticity test of ETICS	2.2.15	See Annex 1
15	Pull-through resistance of fixing from profiles	2.2.16	Not relevant because the system is mechanically fixed with anchors
16	Render strip tensile test	2.2.17	No performance assessed
17	Shear strength and shear modulus of foam adhesive	2.2.18	Not relevant
18	Post expansion behaviour of foam adhesives	2.2.19	Not relevant

No	Essential characteristic	Assessment method (EAD clause)	Performance
19	Bond strength after ageing	2.2.20	-
	- bond strength after ageing of finishing coat tested on the rig	2.2.20.1	See cl. 3.3.4
	- bond strength after ageing of finishing coat not tested on the rig	2.2.20.2	See cl. 3.3.4
20	Mechanical and physical characteristics of the mesh	2.2.21	-
	- Tensile strength of the glass fibre mesh	2.2.21.1 2.2.21.2	See cl. 3.3.5
	- Protection of metal mesh	2.2.21.3	Not relevant

3.3.1 Bond strength

3.3.1.1 Bond strength of the base coat onto insulation product

- Initial state: mean value of bond strength: 170 kPa
- After hygrothermal cycles: mean value of bond strength: 140 kPa
- After freeze-thaw cycles: test not performed (see § 3.2.2 of this ETA)

3.3.1.2 Bond strength of the adhesives onto substrate and insulation product

MAITÉ, **CALISO, UNITÉ** and **FACITÉ:**

	Bond strength (kPa) after:		
	Initial state	**48 h immersion water + 2 h at 23°C-50% RH**	**48 h immersion water + 7 days at 23°C-50% RH**
Concrete	≥ 250	≥ 80	≥ 250
Insulation product	≥ 80	≥ 30	≥ 80

The ETICS can so be installed on the substrate with application of the adhesive on the following minimal surfaces:

	Tensile Strength perpendicular to the faces of EPS		
	≥ 100 kPa	**≥ 120 kPa**	**≥ 150 kPa**
MAITÉ	30%	25%	20%
CALISO	30%	25%	20%
UNITÉ	35%	35%	35%
FACITÉ	30%	25%	25%

3.3.2 Resistance to wind load

Resistance to wind load of mechanically-fixed ETICS using anchors

Anchors	**Trade name**	Klimas LFN-10				
	Plate diameter (mm)	≥ 60				
	Plate stiffness (kN/mm)	≥ 0.3				
Insulation product	**Type**	EPS boards				
	Tensile strength perpendicular to the face (kPa)	≥ 120				
	Thickness (mm)	≥ 40	≥ 60	≥ 80	≥ 120	≥ 180
Maximum load ***(Pull-through test)***	**Anchors not placed at the panel joints: R_{panel} (N)**	Minimal: 289	Minimal: 444	Minimal: 604	Minimal: 715	Minimal: 755
		Average: 326	Average: 493	Average: 624	Average: 744	Average: 785
	Anchors placed at the panel joints: R_{joint} (N)	Minimal: 272	Minimal: 447	Minimal: 546	Minimal: 594	Minimal: 635
		Average: 299	Average: 462	Average: 576	Average: 608	Average: 699

Anchors	**Trade name**	Fischer Termoz PN 8				
	Plate diameter (mm)	≥ 60				
	Plate stiffness (kN/mm)	≥ 0.6				
Insulation product	**Type**	EPS boards				
	Tensile strength perpendicular to the face (kPa)	≥ 120				
	Thickness (mm)	≥ 40	≥ 60	≥ 80	≥ 120	≥ 180
Maximum load ***(Pull-through test)***	**Anchors not placed at the panel joints: R_{panel} (N)**	Minimal: 288	Minimal: 456	Minimal: 604	Minimal: 687	Minimal: 736
		Average: 327	Average: 465	Average: 632	Average: 722	Average: 806
	Anchors placed at the panel joints: R_{joint} (N)	Minimal: 280	Minimal: 424	Minimal: 525	Minimal: 582	Minimal: 600
		Average: 300	Average: 453	Average: 542	Average: 608	Average: 632

For the use of anchors mounted countersunk, the above indicated values apply for insulation thickness greater or equal to 80 mm and plate diameter equal to 60 mm.

Anchors which can be used are described in Annex 2 of this ETA.

Anchors	**Trade name**	termoz SV II ecotwist
	Helix dimensions (mm)	Diameter: 66 Height: 27
Insulation product	**Type**	EPS boards
	Tensile strength perpendicular to the face (kPa)	≥ 100
	Thickness (mm)	≥ 100
Maximum load (Pull-through test)	**Anchors not placed at the panel joints: R_{panel} (N)**	Minimal: 570
		Average: 590
	Anchors placed at the panel joints: R_{joint} (N)	Minimal: 350
		Average: 440

Anchor termoz SV II ecotwist can only be used as mounted countersunk.

The design wind load resistance of the ETICS fixed with anchors is determined as follows:

$$R_{\mathrm{d}} = \frac{R_{\mathrm{panel}} . n_{\mathrm{panel}} + R_{\mathrm{joint}} . n_{\mathrm{joint}}}{\mathrm{g}}$$

n_{panel} number of anchors not placed at the panel joints, per m²
n_{joint} number of anchors placed at the panel joints, per m²
γ national safety factor

3.3.3 Tensile test perpendicular to the faces of the thermal insulation product

3.3.3.1 Tensile strength perpendicular to the faces in dry conditions

See Declaration of Performances of insulation product.

3.3.3.2 Tensile strength perpendicular to the faces in wet conditions

No performance assessed.

3.3.4 Bond strength after ageing

Rendering system: Base coat + finishing coat indicated below	Bond strength (kPa)	Type of failure
Without REVLANE RÉGULATEUR: - REVLANE TF 1.0(1) - REVLANE TG 1.6(1) - REVLANE RF 1.6(1)	Minimal: 120	Cohesive in the insulation product
	Average: 140 (Test result obtained with REVLANE TG 1.6)	
With REVLANE RÉGULATEUR: - REVLANE TF 1.0(1) - REVLANE TG 1.6(1) - REVLANE RF 1.6(1)	Minimal: 90	
	Average: 100 (Test result obtained with REVLANE TG 1.6)	
Without REVLANE RÉGULATEUR: - REVLANE SILOXANÉ TF 1.0(1) - REVLANE SILOXANÉ TG 1.6(1)	Minimal: 120	
	Average: 140 (Test result obtained with REVLANE SILOXANÉ TG 1.6)	
With REVLANE RÉGULATEUR: - REVLANE SILOXANÉ TF 1.0(1) - REVLANE SILOXANÉ TG 1.6(1)	Minimal: 120	
	Average: 150 (Test result obtained with REVLANE SILOXANÉ TG 1.6)	
With REVLANE RÉGULATEUR: GRANILANE	Minimal: 180	
	Average: 190	
With SILICANE FOND + SILICANE LISSE: - SILICANE TF 1.0 - SILICANE TG 1.6	Minimal: 120	
	Average: 140 (Test result obtained with SILICANE TG 1.6)	
With SILICANE FOND: - SILICANE TF 1.0 - SILICANE TG 1.6	Minimal: 100	
	Average: 110 (Test result obtained with SILICANE TG 1.6)	
With REVLANE RÉGULATEUR: PAREX DÉCO TRAVERTIN(1)	Minimal: 120	
	Average: 140	
Without REVLANE RÉGULATEUR: REVLANE CLEAN	Minimal: 100	
	Average: 120	
MAITÉ with MARBRI GRANULATS	Minimal: 100	
	Average: 140	

Rendering system: Base coat + finishing coat indicated below	Bond strength (kPa)	Type of failure
With or without SILICANE FOND: CALCIFIN	Minimal: 110	Cohesive in the insulation product
	Average: 150	
With or without SILICANE FOND: CALCILISSE	Minimal: 140	
	Average: 180	
- EHI GM - EHI GF	Minimal: 170	
	Average: 180 (Test result obtained with EHI GM)	
UNITÉ	Minimal: 90	
	Average: 100	
CALCIGRAIN	Minimal: 120	
	Average: 140	
MAITÉ with SILICANE FOND + SILICANE LISSE	Minimal: 90	
	Average: 110	
MAITÉ with BADI DECO	Minimal: 110	
	Average: 110	

(1) With or without PATACCEL.

3.3.5 Mechanical and physical characteristics of the mesh: Tensile strength of the glass fibre mesh

Standard mesh:

Producer's trade name	Tensile strength in the as-delivered state (N/mm)		Elongation at break in the as-delivered state (%)		Resistance after ageing			
					Residual resistance (N/mm)		Relative residual resistance (%)	
	Warp	Weft	Warp	Weft	Warp	Weft	Warp	Weft
R 131 A 101 C+	40.3	48.3	4.0	4.6	31.0	25.9	76.9	53.6
SSA-1363 F+	42.3	47.6	4.0	4.0	44.0	45.9	100.0	96.5

Reinforced mesh:

Producer's trade name	Tensile strength in the as-delivered state (N/mm)		Elongation at break in the as-delivered state (%)		Resistance after ageing			
					Residual resistance (N/mm)		Relative residual resistance (%)	
	Warp	Weft	Warp	Weft	Warp	Weft	Warp	Weft
R 585 A 101	207.3	190.8	5.0	4.4	107.6	112.3	51.9	58.8

3.4 Protection against noise (BWR 5)

No	Essential characteristic	Assessment method (EAD clause)	Performance
21	Airborne sound insulation of ETICS	2.2.22.1	No performance assessed
	Dynamic stiffness of the thermal insulation product	2.2.22.2	No performance assessed
	Air flow resistance of the thermal insulation product	2.2.22.3	No performance assessed

3.5 Energy economy and heat retention (BWR 6)

No	Essential characteristic	Assessment method (EAD clause)	Performance
22	Thermal resistance and thermal transmittance of ETICS	2.2.23	Defined in clause 2.2.23 of EAD See cl. 3.5.1
	Thermal resistance and thermal transmittance of the thermal insulation product	2.2.23.1	See cl. 3.5.2

3.5.1 Thermal resistance and thermal transmittance of ETICS

The calculated value of thermal resistance of ETICS with minimal thickness and highest value of thermal conductivity of the insulation material is:

$\mathbf{R_{ETICS} = R_{insulation} + R_{render}}$ [(m².K)/W]	1.05 + 0.02 = 1.07

3.5.2 Thermal resistance and thermal transmittance of the thermal insulation product

See Declaration of performances of the insulation product.

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

According to Decision 97/556/EC (Decision of the Commission of 14 July 1997, L 229 of 20.8.1997, p. 15), as amended by Decision 2001/596/EC (Decision of the Commission of 8 January 2001, L 209 of 2.8.2001, p. 33)[2], the systems of AVCP given in the following table apply:

Product	Intended use	Levels or classes (Reaction to fire)	System
External Thermal Insulation Composite Systems with rendering	in external walls subject to fire regulation	A1(1), A2(1), B(1) or C(1)	1
		- A1(2), A2(2), B(2), C(2) - D, E, F - (A1 to E)(3)	2+
	in external walls not subject to fire regulation	any	2+

(1) Products/materials for which as 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).

The systems of AVCP are described in Annex V of Regulation (EU) No 305/2011, as amended by Delegated Regulation (EU) No 568/2014.

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at the CSTB.

The control plan is given in Annex 5. As the control plan contains confidential information, Annex 5 is not included in the published parts of this ETA.

Issued in Marne-la-Vallée on 31/07/2025 by

Aurélie BAREILLE

Head of “Certification and Assessment” Division
“Building Envelope” Direction

[2] Decisions are published in the *Official Journal of the European Union (OJEU)*, see www.new.eur-lex.europa.eu/oj/direct-access.html.

Factory-prefabricated, uncoated boards made of expanded polystyrene (EPS) according to EN 13163 and having characteristics described in the following table. The surface of the boards is homogeneous and without “skin”. Coverage (kg/m^2) depends on both thickness of the board and density of EPS.

Reaction to fire / EN 13501-1		Class E
Thermal resistance / EN 13163		Defined in the CE marking
Dimensional tolerances	**Thickness / EN 823**	± 1.0 mm [T1]
	Length / EN 822	± 2.0 mm [L2]
	Width / EN 822	± 2.0 mm [W2]
	Squareness / EN 824	± 2% [S2]
	Flatness / EN 825	≤ 5 mm [P5]
Dimensional stability	**Under specified temperature and humidity / EN 1604: 48 h at 70°C**	≤ 1% [DS (70,-)1]
	Under specified temperature and humidity / EN 1604: 48 h at 70°C and 90% RH	≤ 1% [DS(70,90)1]
	Under laboratory condition / EN 1603	± 0.2% [DS(N)2]
Water absorption (partial immersion) / EN 1609 – method A		< 1 kg/m^2
Water vapour diffusion resistance factor (μ) / EN 12086		20 to 60
Tensile strength perpendicular to the faces in dry conditions / EN 1607		≥ 100 kPa
Shear strength / EN 12090		≥ 0.02 N/mm^2
Shear modulus / EN 12090		≥ 1.0 N/mm^2
Dynamic stiffness / EN 29052-1		No performance determined
Air flow resistance / EN 29053		Not relevant

ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 1** of ETA-04/0014 - version 3
Insulation product for bonded ETICS or mechanically-fixed ETICS with anchors	

Anchors with ETA according to European Technical Approval Guideline No 014 (hereinafter ETAG 014) or to EAD 330196-ED-0604 (hereinafter EAD "anchors"). The anchors are composed of a plastic expansion sleeve with a plate having diameter of 60 mm and a plastic or metallic nail or screw. Use categories and characteristic resistances in the substrate are given in each anchor's ETA. Validity of the anchor's ETA shall be checked before using the anchor.

Trade name	ETA reference	Mounting[(1)]	Plate stiffness (kN/mm)	Load resistance of the plate (kN)
Koelner KI-10, KI-10PA	ETA-07/0291	a	≥ 0.3	2.1
Koelner KI-10M	ETA-07/0291	a		2.6
Koelner KI-10N, KI-10NS	ETA-07/0221	a		1.23
Hilti XI-FV (fastener)	ETA-17/0304	a		1.6
Koelner TFIX-8M	ETA-07/0336	a	≥ 0.6	1.75
Koelner TFIX-8S	ETA-11/0144	a		2.04
Koelner TFIX-8ST	ETA-11/0144	b		2.04
Ejotherm STR U, STR U 2G	ETA-04/0023	a, b		2.08
Ejotherm H1	ETA-11/0192	a		1.4
Ejotherm H2 eco	ETA-15/0740	a		1.25
Ejot H3	ETA-14/0130	a		1.25
Rawlplug Insulation System R-TFIX-8S	ETA-17/0161	a, b		2.0
Rawlplug Façade Insulation Fixing R-TFIX-8M	ETA-17/0592	a		1.5
Fischer termoz CN plus 8	ETA-09/0394	a, b		1.7
Fischer termoz CN 8	ETA-09/0394	a		1.7
Fischer termoz PN 8	ETA-09/0171	a		1.7
Termoz SV II ecotwist	ETA-12/0208	b	-	-
[(1)] a: surface mounting; b: countersunk mounting.				

Additionally, every anchor with an ETA according to ETAG 014 or EAD "anchors" and having the following characteristics can be used:

- plate diameter ≥ 60 mm;
- plate stiffness ≥ 0.3 kN/mm according to EOTA Technical Report No 026;
- load resistance of the plate ≥ 1.0 kN according to EOTA Technical Report No 026.

These characteristics, the use categories and the characteristic resistances in the substrate shall be taken from the corresponding anchor's ETA.

ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 2** of ETA-04/0014 - version 3
Anchors for insulation product	

Glass fibre meshes:

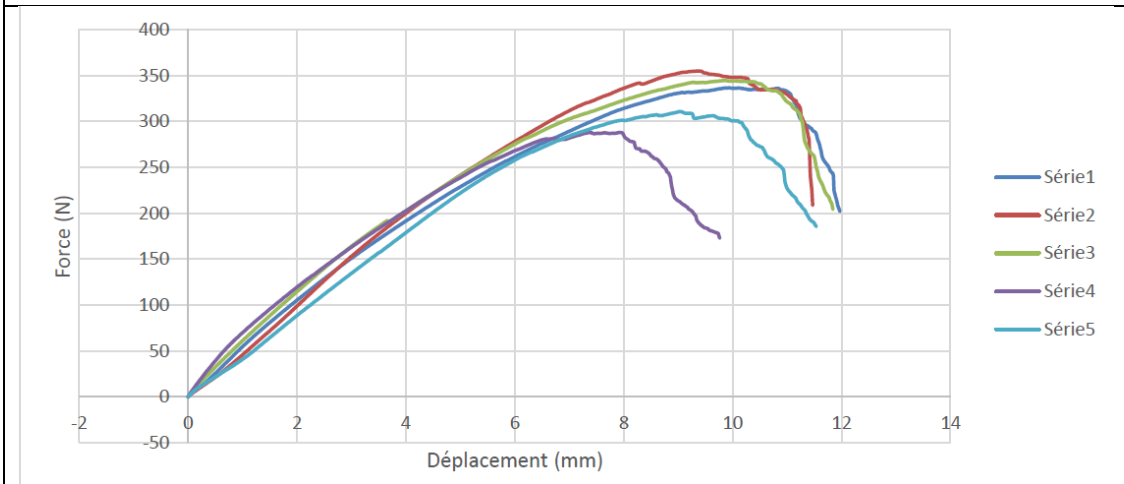
- standard meshes: with mesh size between 3 and 6 mm;
- reinforced meshes: implemented in addition to the standard mesh, to improve the impact resistance.

Trade name	Mass per unit area (g/m^2)	Residual strength after ageing (N/mm)		Relative residual strength after ageing (%)(1)	
		Warp	Weft	Warp	Weft
Standard meshes					
SSA-1363 F+ (IAVPC)	167	≥ 20	≥ 20	≥ 50	≥ 50
R 131 A 101 C+ (IAVPC)	167	≥ 20	≥ 20	≥ 50	≥ 50
Reinforced meshes					
R 585 A 101 (IAVR)	700	≥ 20	≥ 20	≥ 40	≥ 40

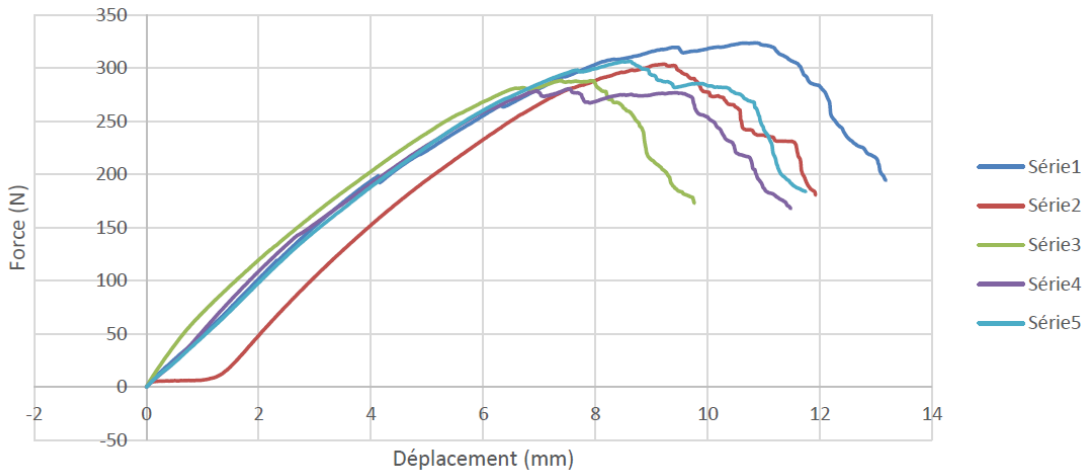
(1) Percentage of the strength in the as-delivered state.

ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	ANNEX 3 of ETA-04/0014 - version 3
Glass fibre meshes	

PSE (40 mm) – Fischer Termoz PN 8 – out of the joint

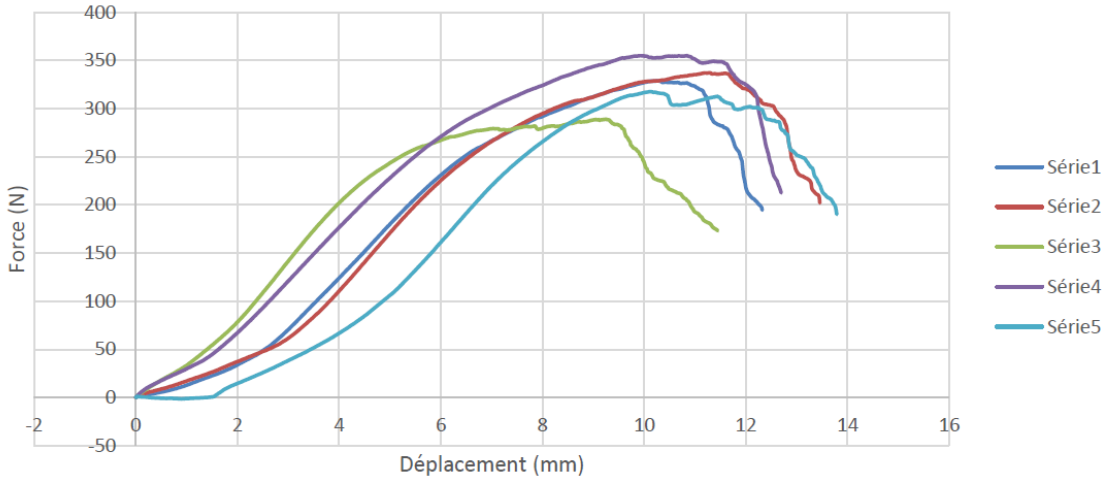


PSE (40 mm) – Fischer Termoz PN 8 – at the joint

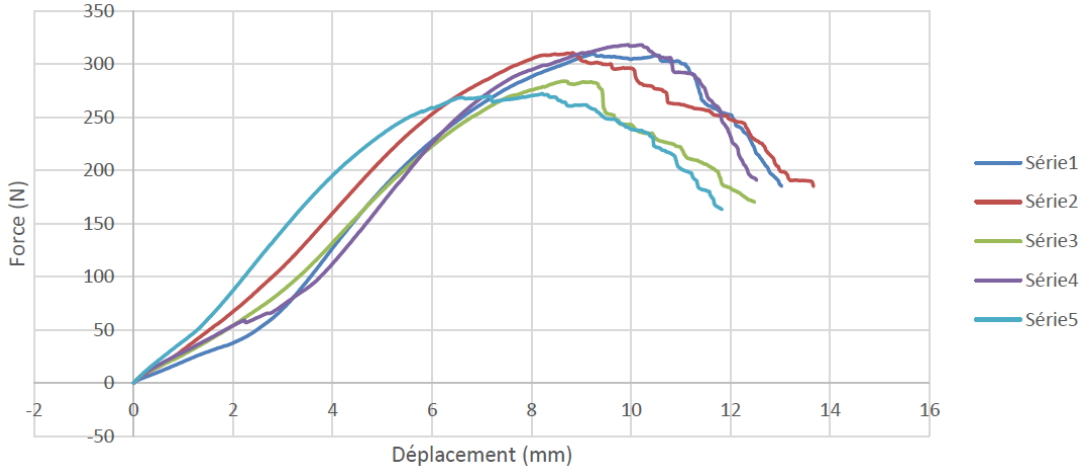


ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 4 (1/10)** of ETA-04/0014 - version 3
Pull-through tests – load/displacement graphs	

PSE (40 mm) – Klimas LFN-10 – out of the joint

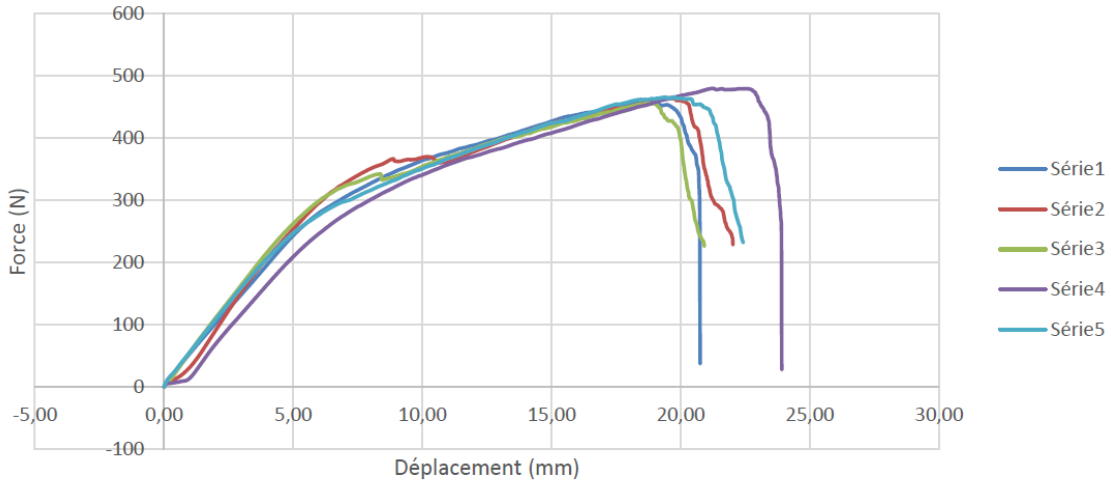


PSE (40 mm) – Klimas LFN-10 – at the joint

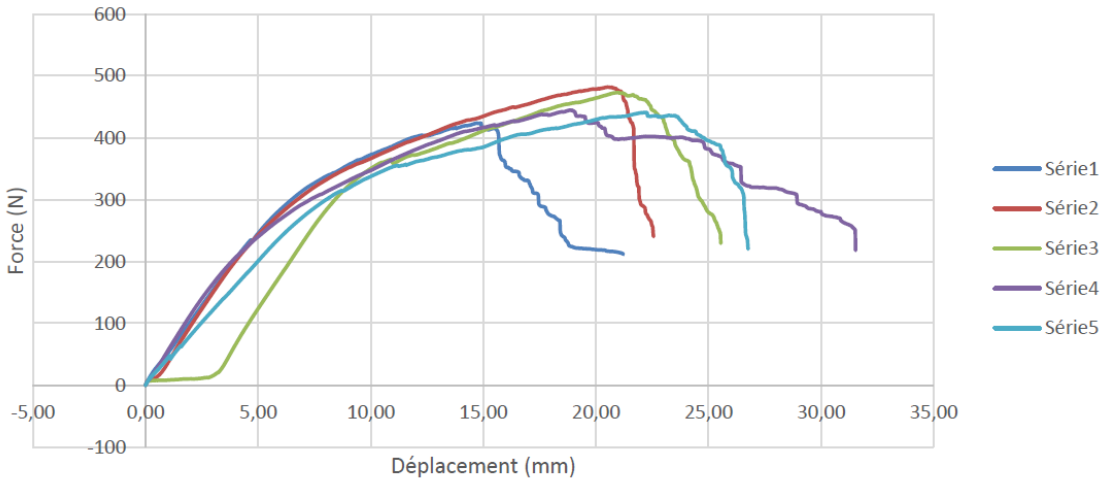


ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 4 (2/10)** of ETA-04/0014 - version 3
Pull-through tests – load/displacement graphs	

PSE (60 mm) – Fischer Termoz PN 8 – out of the joint

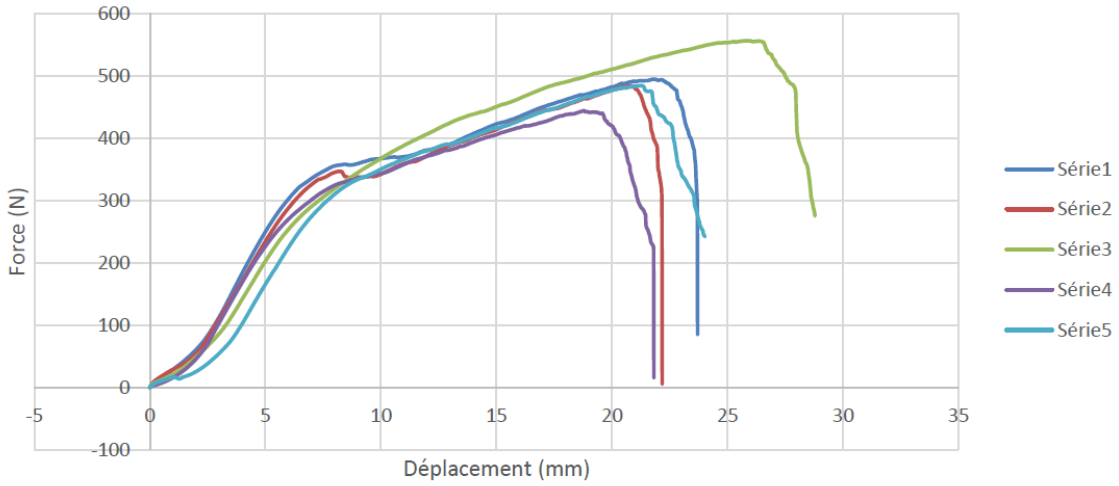


PSE (60 mm) – Fischer Termoz PN 8 – at the joint

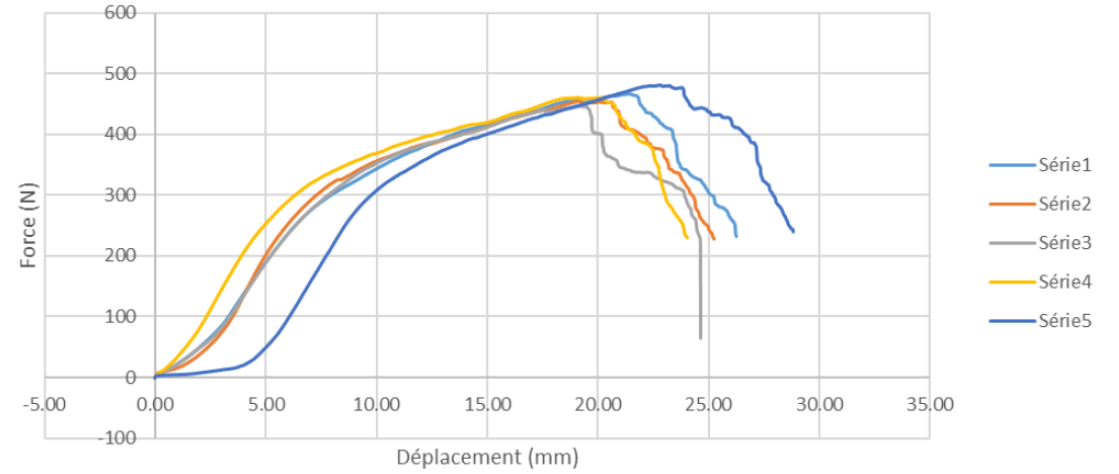


ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 4 (3/10)** of ETA-04/0014 - version 3
Pull-through tests – load/displacement graphs	

PSE (60 mm) – Klimas LFN-10 – out of the joint

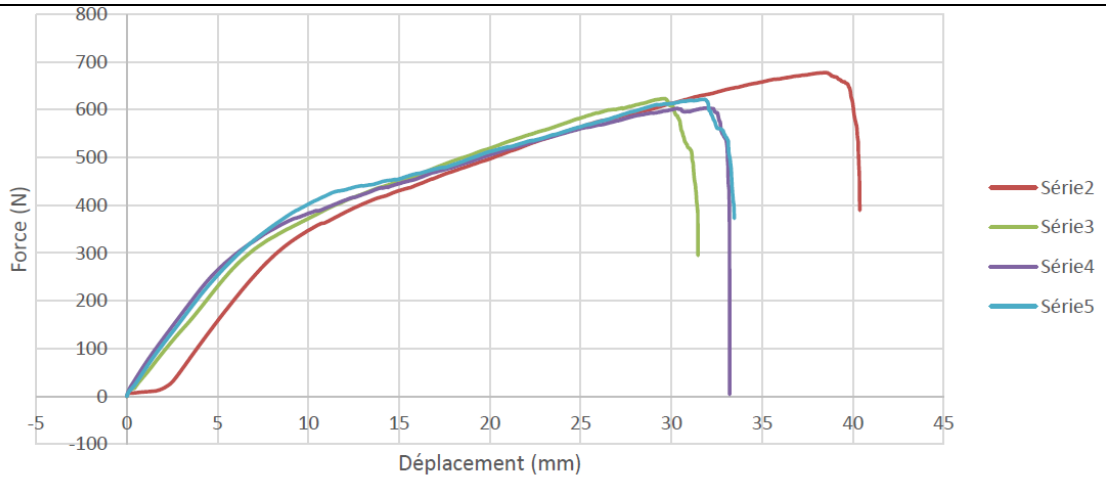


PSE (60 mm) – Klimas LFN-10 – at the joint

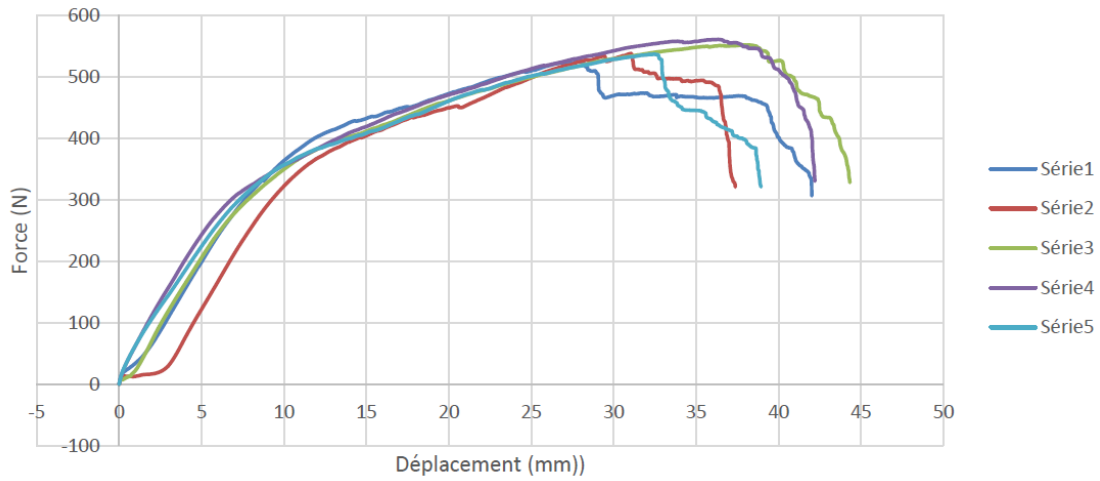


ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 4 (4/10)** of ETA-04/0014 - version 3
Pull-through tests – load/displacement graphs	

PSE (80 mm) – Fischer Termoz PN 8 – out of the joint

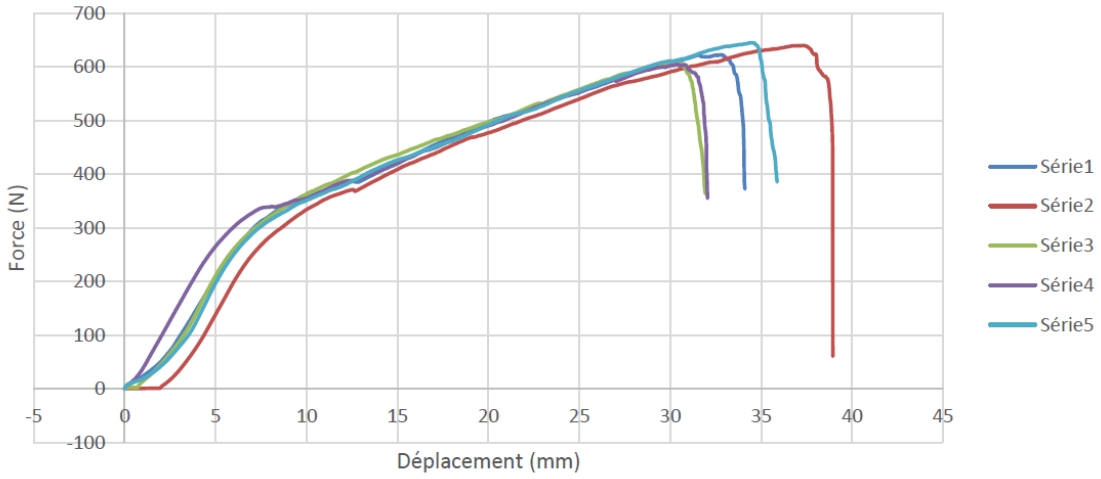


PSE (80 mm) – Fischer Termoz PN 8 – at the joint

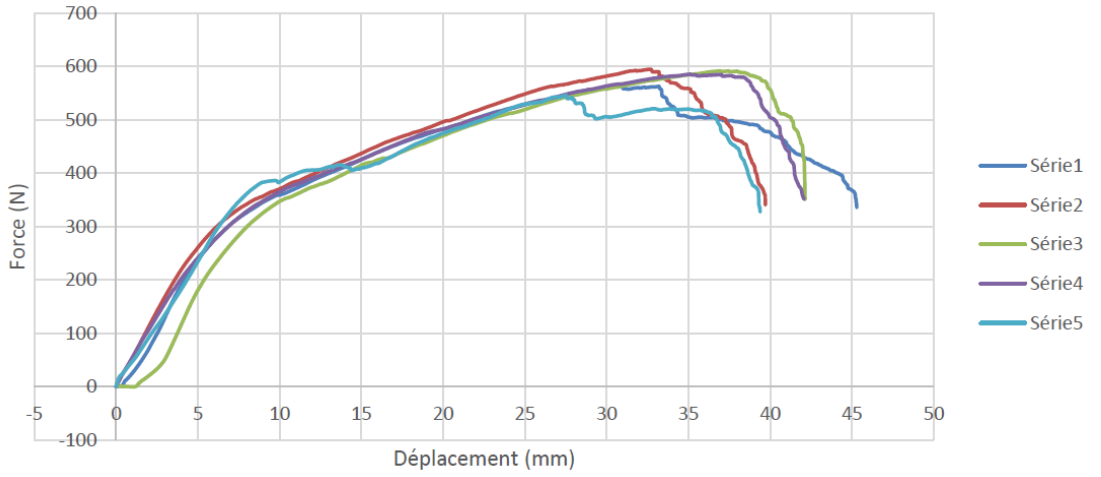


ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 4 (5/10)** of ETA-04/0014 - version 3
Pull-through tests – load/displacement graphs	

PSE (80 mm) – Klimas LFN-10 – out of the joint

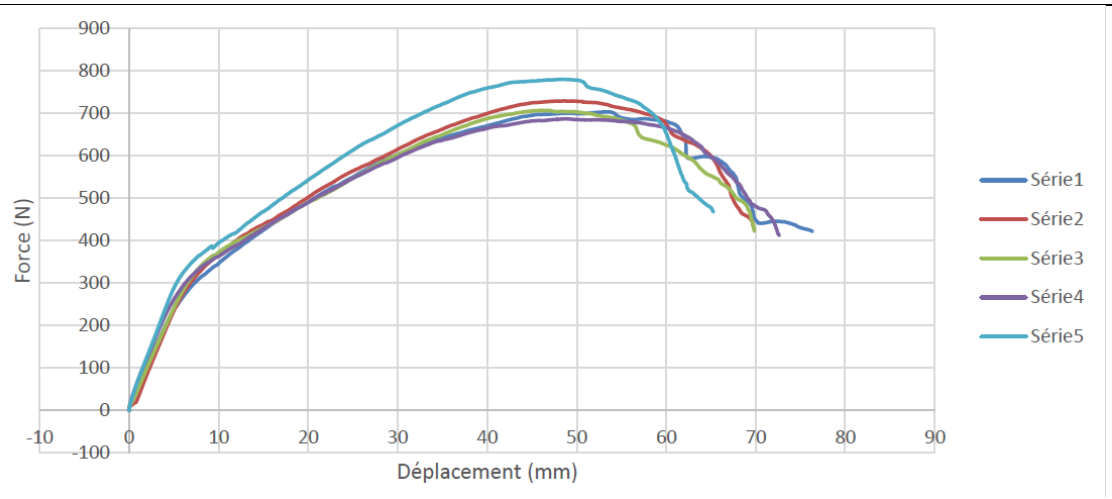


PSE (80 mm) – Klimas LFN-10 – at the joint

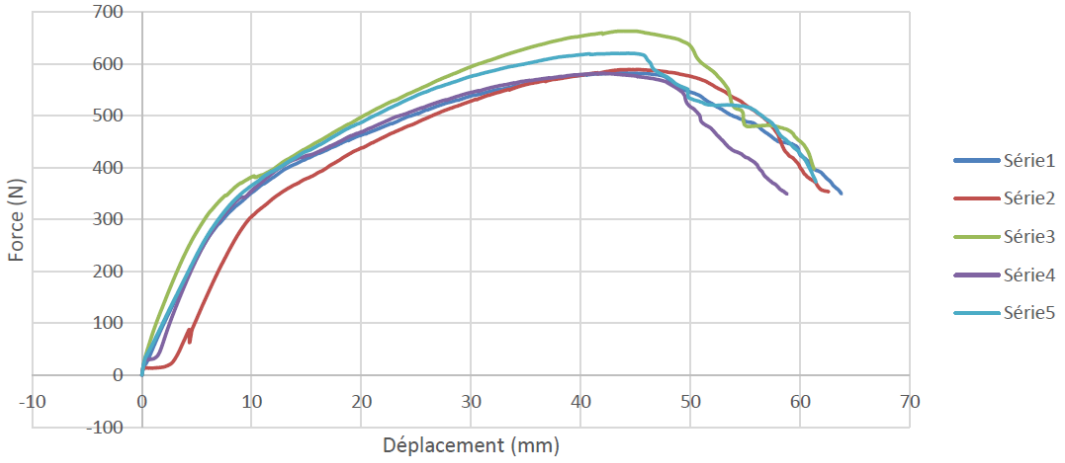


ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 4 (6/10)** of ETA-04/0014 - version 3
Pull-through tests – load/displacement graphs	

PSE (120 mm) – Fischer Termoz PN 8 – out of the joint

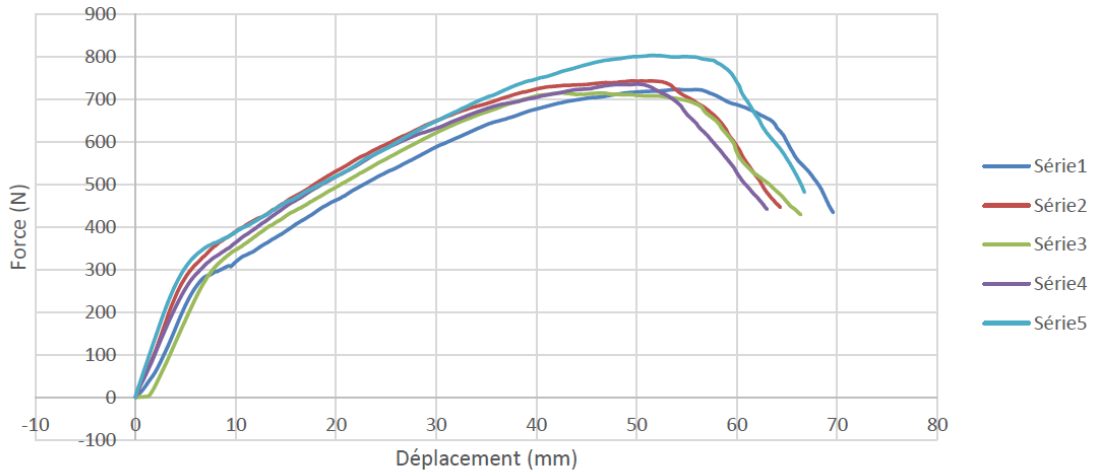


PSE (120 mm) – Fischer Termoz PN 8 – at the joint

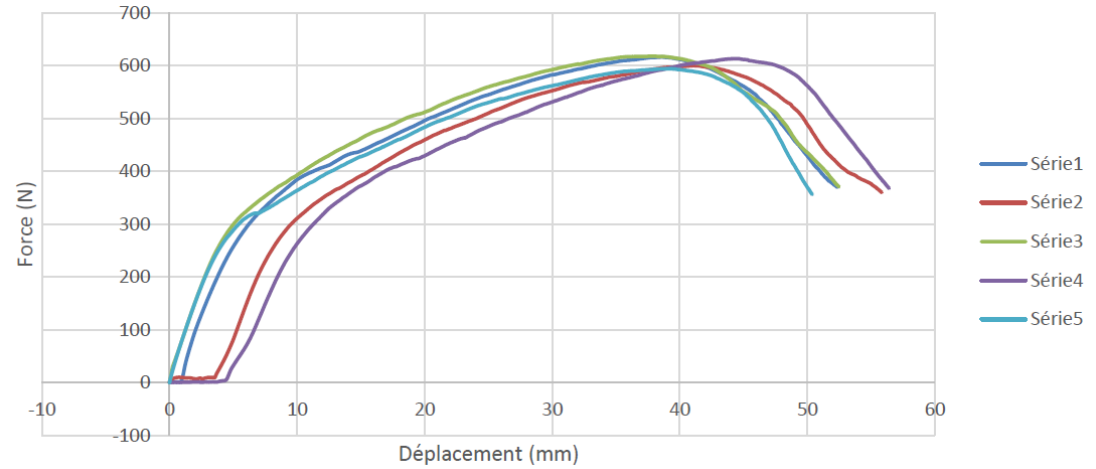


ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 4 (7/10)** of ETA-04/0014 - version 3
Pull-through tests – load/displacement graphs	

PSE (120 mm) – Klimas LFN-10 – out of the joint

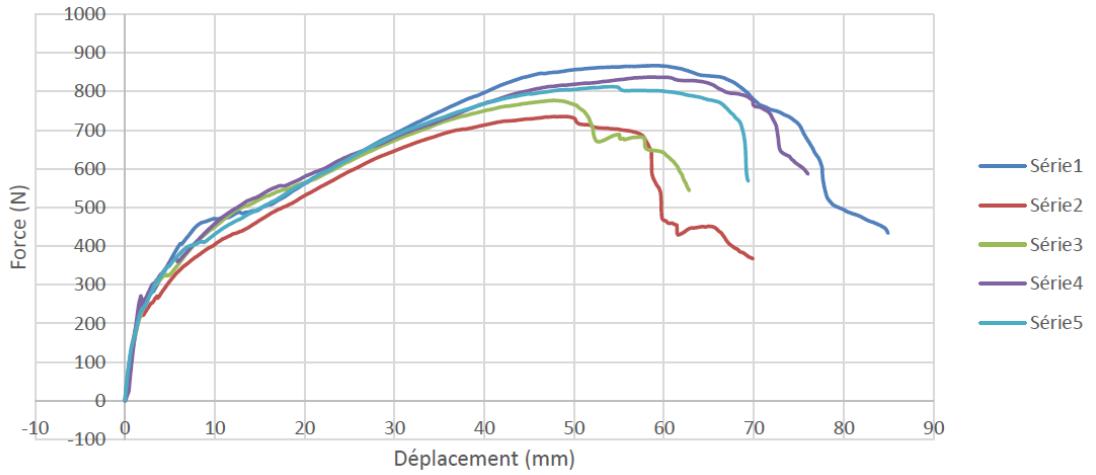


PSE (120 mm) – Klimas LFN-10 – at the joint

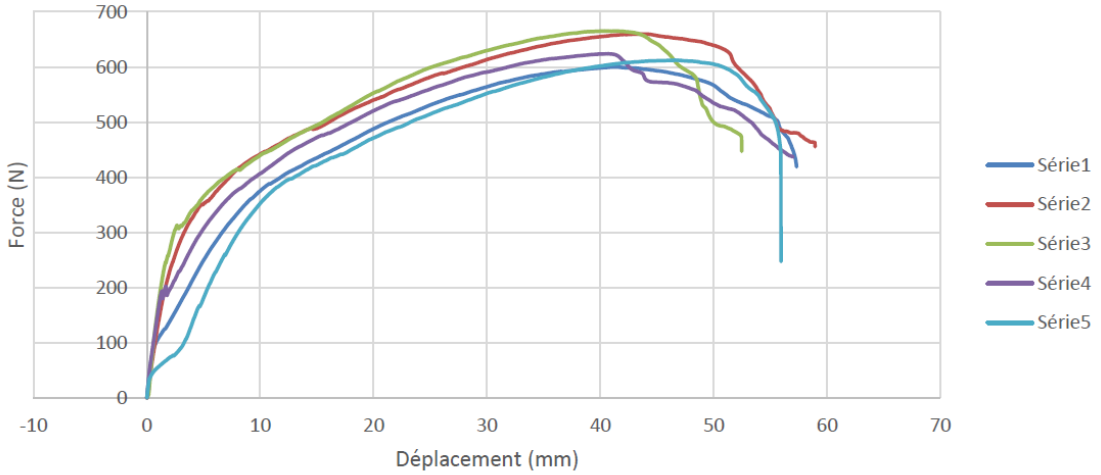


ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 4 (8/10)** of ETA-04/0014 - version 3
Pull-through tests – load/displacement graphs	

PSE (180 mm) – Fischer Termoz PN 8 – out of the joint

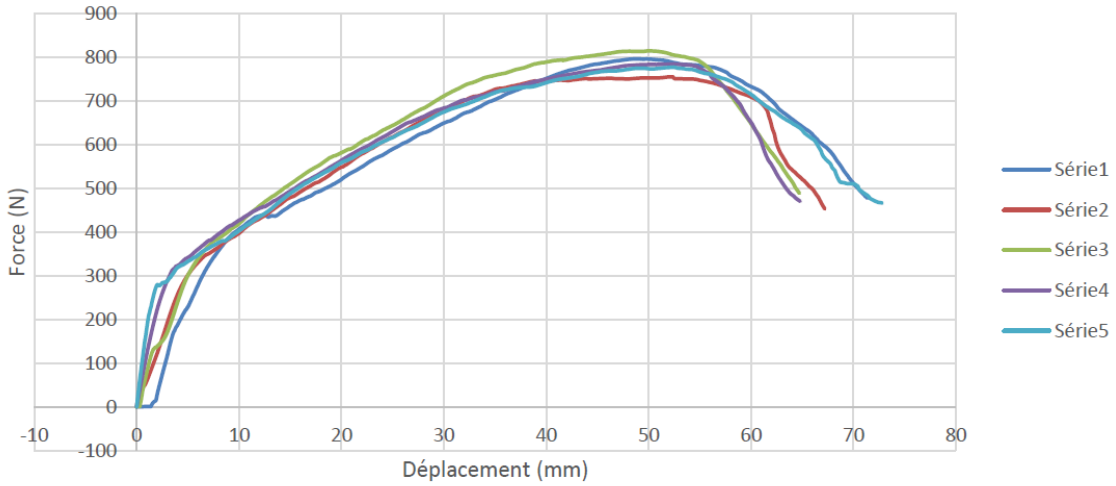


PSE (180 mm) – Fischer Termoz PN 8 – at the joint

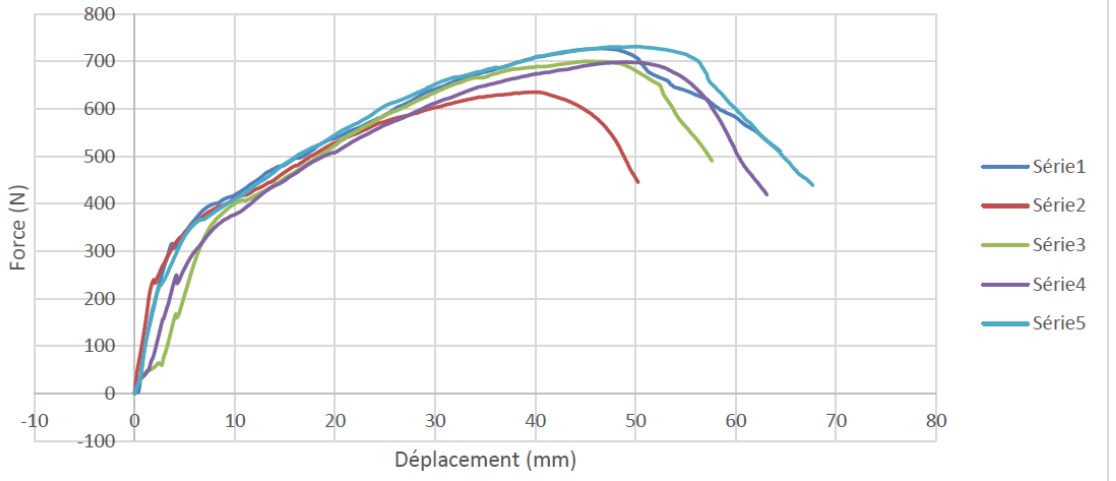


ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 4 (9/10)** of ETA-04/0014 - version 3
Pull-through tests – load/displacement graphs	

PSE (180 mm) – Klimas LFN-10 – out of the joint



PSE (180 mm) – Klimas LFN-10 – at the joint



ETICS PARISO PSE - M / PAREXTHERM EPS / SIKATHERM EPS	**ANNEX 4 (10/10)** of ETA-04/0014 - version 3
Pull-through tests – load/displacement graphs	