



The Catalonia
Institute of Construction
Technology

Wellington 19
ES-08018 Barcelona
Tel. +34 93 309 34 04
qualprod@itec.cat
www.itec.cat



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European Technical Assessment

ETA 25/1081
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General part

Technical Assessment Body issuing the ETA: ITeC

Designation of ITeC as TAB in accordance with Article 29 of Regulation (EU) No 305/2011 and Article 95(2) of Regulation (EU) 2024/3110. ITeC is a member of EOTA (European Organisation for Technical Assessment)

**Trade name of the construction
product**

COM-CAL THERMWOOD - Lime & Wood Fiber ETICS

**Product family to which the
construction product belongs**

Product Area Code: 04

External Thermal Insulation Composite Systems (ETICS) with rendering on WF for the use as external insulation of building walls.

Manufacturer

COMCAL NATURAL SL

Polígon Industrial Can Roqueta
Av. Can Bordoll, 55, nau 2
ES-08200 Sabadell (Barcelona)
www.com-cal.com

Manufacturing plant(s)

According to Annex N kept by ITeC.

**This European Technical
Assessment contains**

17 pages including 3 annexes which form an integral part of this assessment

and

Annex N, which 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 Article 95(4)
of Regulation (EU) 2024/3110,
on the basis of**

EAD 040083-01-0404 *External Thermal Insulation Composite Systems with rendering system*, edition 2024.

General comments

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

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Specific parts of the European Technical Assessment

1 Technical description of the product

COM-CAL THERMWOOD - Lime & Wood Fiber ETICS is an ETICS (External Thermal Insulation Composite System) with rendering system – a kit comprising components which are factory-produced by the manufacturer or component suppliers.

The ETICS system comprises a prefabricated wood fibre (WF) insulation board fixed onto a wall by mechanical fixings with supplementary adhesive. The methods of fixing and the relevant components are specified in the table below. The insulation product is faced with a rendering system consisting of several 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 includes special fittings (e.g. base profiles, corner profiles...) to treat details of ETICS (connections, apertures, corners, parapets, sills...). The 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.

Composition of the ETICS:

Components	Coverage (kg/m²)	Thickness (mm)
Mechanical fixed ETICS with supplementary adhesive (pursuant to ETA holder's instructions, the minimal bonded surface shall be 40%; National application documents shall be taken into account.)		
Adhesive	Com-Cal Adherecal: Natural hydraulic lime (NHL5) mortar with selected marble aggregates (< 600 µm), natural pozzolan, resin, fibres and additives. Requires 21%–24% water (4,5 L per 21 kg bag).	4 to 6 (powder) 3 to 10
Insulation product	WF board: Factory made wood fibre (WF) insulation board according to EN 13171 with the characteristics described in Annex 1.	-- 60 to 200
Base coat	Com-Cal Adherecal: Natural hydraulic lime (NHL5) mortar with selected marble aggregate, natural pozzolan, resin, fibres and additives. Requires 21%–24% water (4,5 L per 21 kg bag).	4 to 6 (powder) 6 to 10
Glass fibre mesh	Fiberglass mesh 160 g/m² Standard glass fibre mesh (see Annex 3, table A3.1 for product characteristics). One layer.	-- --
Finishing coats	Pintura de Cal: Aerial lime CL90, water, additives and water repellent. Requires dilution with max. 10% water before use.	0,34 to 0,48 (for two coats) 0,24 - 0,36 (for two coats)
	Com-Cal Lime Wash: Lime water solution for translucent mineral finishes. Requires mixing with pigments or colour paste before application.	0,15 < 0,03
Fixings	See Annex 2.	Remain under the ETA holder's responsibility.
Ancillary components	Remain under the ETA holder's responsibility.	

Table 0: Components of the ETICS COM-CAL THERMWOOD - Lime & Wood Fiber ETICS.

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

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

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

The ETICS can be used on new or existing (retrofit) vertical building external walls ($\pm 5^\circ$ with respect to the vertical plane).

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

The product will be installed according to the manufacturer's instructions.

The provisions made in this ETA are based on an assumed working life of at least 25 years for COM-CAL THERMWOOD - Lime & Wood Fiber ETICS. These provisions are based upon the current state of the art and the available knowledge and experience.

The indications given on the working life cannot be interpreted as a guarantee given by the producer but are to be regarded only as a mean for choosing the right products in relation to the expected economically reasonable working life of the works.

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

Performance of the system COM-CAL THERMWOOD - Lime & Wood Fiber ETICS related to the basic requirements for construction works (hereinafter BWR) were determined according to EAD 040083-01-0404 for *External Thermal Insulation Composite Systems with rendering system*. Essential characteristics of COM-CAL THERMWOOD - Lime & Wood Fiber ETICS are indicated in the following sections.

Essential characteristic	ETA section	Performance
Basic Works Requirement 2: Safety in case of fire		
Reaction to fire	3.1.1	<u>Reaction to fire of ETICS:</u>
		B-s1,d0.
		See table 2 for details.
		<u>Reaction to fire of the thermal insulation product:</u>
Façade fire performance	--	Class E.
		<u>Reaction to fire performance of the PU-foam adhesives:</u>
		Not relevant.
		Not assessed.
Propensity to undergo continuous smouldering	--	Not assessed.

Essential characteristic	ETA section	Performance
Basic Works Requirement 3: Hygiene, health and the environment		
Content, emission and/or release of dangerous substances. Leachable substances	--	Not assessed.
Water absorption	3.2.1	<u>Water absorption of the base coat and the rendering system:</u> See tables 3a and 3b for results. <u>Water absorption of the thermal insulation product:</u> According to DoP: WS $[\leq 1,0 \text{ kg/m}^2]$ (see table A1).
Watertightness. Hygrothermal behaviour	--	Test passed (without defects). The ETICS is assessed as resistant to hygrothermal cycles (HWC).
Watertightness. Freeze-thaw resistance	--	According to the water absorption test results, all combinations are freeze-thaw resistant.
Impact resistance	3.2.2	See table 4 for results.
Water vapour permeability	3.2.3	<u>Water vapour permeability of the rendering system (equivalent air thickness):</u> See tables 5a and 5b for results. <u>Water vapour permeability of the thermal insulation product (water-vapour resistance factor):</u> According to DoP: MU3 (see table A1).
Basic Works Requirement 4: Safety and accessibility in use		
Bond strength between the base coat and the thermal insulation product	3.3.1	<u>Dry condition ($F_{B-I,dry}$):</u> < 80 kPa. Cohesive failure in the insulation product. <u>On the rig after HWC ($F_{B-I,HWC}$):</u> < 80 kPa. Cohesive failure in the insulation product. <u>After freeze-thaw cycles ($F_{B-I,F-T}$):</u> Not relevant. See table 6 for results.
Bond strength between the adhesive and the substrate	3.3.2	<u>Dry condition ($F_{A-S,dry}$):</u> $\geq 250 \text{ kPa}$. Cohesive rupture in the adhesive. <u>After immersion of the adhesive in water for 2 days and 2 h drying ($F_{A-S,2d,2h}$):</u> $\geq 80 \text{ kPa}$. Cohesive rupture in the adhesive. <u>After immersion of the adhesive in water for 2 days and at least 7 days drying ($F_{A-S,2d,7d}$):</u> $\geq 250 \text{ kPa}$. Cohesive rupture in the adhesive. See table 7 for results.

Essential characteristic	ETA section	Performance
Bond strength between the adhesive and the thermal insulation product	--	Not assessed.
Bond strength of the PU-foam adhesives	--	Not relevant.
Fixing strength transverse displacement test	--	<u>With tension load:</u> Not assessed. <u>Without tension load:</u> Not assessed.
Wind load resistance	3.3.3	<u>Pull-through resistance:</u> Not assessed. <u>Static foam block resistance:</u> Test not necessary. <u>Dynamic wind uplift resistance:</u> See section 3.3.3 for results.
Tensile strength perpendicular to the faces of the thermal insulation product	3.3.4	<u>In dry conditions:</u> According to the DoP: TR10. See table 8 for results. <u>In wet conditions:</u> See table 8 for results.
Shear strength and shear modulus of elasticity of the thermal insulation product	--	Not assessed.
Pull-through resistance of mechanical fixing devices from profiles	--	Not relevant.
Render strip tensile test	--	Not assessed.
Shear strength and shear modulus of the PU-foam adhesives	--	Not relevant.
Post expansion behaviour of the PU-foam adhesives	--	Not relevant.
Basic Works Requirement 5: Protection against noise.		
Airborne sound insulation	--	Not assessed.
Dynamic stiffness of the thermal insulation product	--	Not assessed.

Essential characteristic	ETA section	Performance
Air flow resistance of the thermal insulation product	--	Not assessed.
Basic Works Requirement 6: Energy economy and heat retention.		
Thermal resistance of ETICS without influence of mechanical fixing devices	3.4.1	See section 3.4.
Thermal conductivity and thermal resistance of the thermal insulation product	Annex 1	According to the DoP (see table A1).
Thermal transmittance of fixing devices	--	<u>Not assessed.</u>
Aspects of durability		
Bond strength after ageing	3.5.1	<u>Of finishing layers tested on the rig:</u> < 80 kPa. Cohesive rupture in the insulation product. See table 10 for results.
Tensile strength and elongation of the glass fibre mesh at initial state and after ageing in alkali conditions	Annex 3	<u>Tensile strength of the glass fibre mesh:</u> See table A3 for results. <u>Protection of metal mesh:</u> Not relevant.

Table 1: Essential characteristics of the ETICS COM-CAL THERMWOOD - Lime & Wood Fiber ETICS.

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire of the ETICS

EAD 040083-01-0404, clause 2.2.1.1.

The reaction to fire of COM-CAL THERMWOOD - Lime & Wood Fiber ETICS according to EN 13501-1 is defined in table 2. The configuration tested was the worst case with regard to reaction to fire.

ETICS configuration	Reaction to fire classification according to EN 13501-1
Adhesive: Com-Cal Adherecal	B-s1,d0
Insulation: WF board	
Base coat: Com-Cal Adherecal	
Glass fibre mesh: Fiberglass mesh 160 (see Annex 1)	
Finishing coat:	
- Pintura de Cal - Com-Cal Lime Wash	
Note: None of the components of the system contains flame retardants.	

Table 2: Reaction to fire classification of COM-CAL THERMWOOD - Lime & Wood Fiber ETICS.

3.2 Hygiene, health and environment (BWR 3)

3.2.1 Water absorption of the base coat and the rendering system

EAD 040083-01-0404, clause 2.2.5.1.

	Water absorption [kg/m ²]	
	After 1 hour (W _{p,1h})	After 24 hours (W _{p,24h})
Water absorption of the base coat		
Com-Cal Adherecal	< 0,5 (test result: 0,1)	< 0,5 (test result: 0,2)
Water absorption of the rendering system		
Com-Cal Adherecal + Pintura de Cal	< 0,5 (test result: 0,2)	< 0,5 (test result: 0,3)
Com-Cal Adherecal + Com-Cal Lime Wash	< 0,5 (test result: 0,1)	< 0,5 (test result: 0,3)

Table 3: Water absorption test results (mean values).

3.2.2 Impact resistance

EAD 040083-01-0404, clause 2.2.8.

Rendering system indicated hereafter:	Impact energy	Impact Ø mark (mm)					Level of damage
		H1	H2	H3	H4	H5	
Com-Cal Adherecal (without finishing coat)	3 J	18,53	20,84	19,9	19,93	21,63	C _{10,HWC}
	10 J	53,52	52,21	35,78	39,61	34,15	
Com-Cal Adherecal + Pintura de Cal	3 J	23,57	18,53	17,49	17,62	16,84	C _{10,HWC}
	10 J	39,85	40,04	39,18	31,18	26,78	
Com-Cal Adherecal + Com-Cal Lime Wash	3 J	18,51	20,56	13,32	18,91	16,84	C _{10,HWC}
	10 J	44,53	44,6	39,94	34,06	31,28	

Note: Finishing coats tested on the rig subjected to hygrothermal cycles (HWC).

Table 4: Level of damage according to impact resistance test results.

3.2.3 Water vapour permeability of the rendering system (equivalent air thickness)

EAD 040083-01-0404, clause 2.2.9.1.

Product	Thickness (mm)	Equivalent air thickness, S _d (m)
Com-Cal Adherecal	6,0	0,1

Table 5a: Water vapour permeability test results of the base coat.

Rendering systems Base coat + finishing coats indicated hereafter:	Characteristics	Equivalent air thickness S _d (m)
Com-Cal Adherecal + Pintura de Cal	Particle size max. 40 µm. Plain painted aspect.	0,1
Com-Cal Adherecal + Com-Cal Lime Wash	Particle size max. 10 µm. Brushed water-colour aspect.	0,1

Table 5b: Water vapour permeability test results of the rendering system.

3.3 Safety and accessibility in use (BWR 4)

3.3.1 Bond strength between the base coat and the thermal insulation product

EAD 040083-01-0404, clause 2.2.10.1.

	Bond strength			
	Minimum value (*) (kPa)	Mean value (*) (kPa)	Failure mode	Required value (kPa)
On samples after 28 days drying under the same conditions of the rig ($F_{B-I,dry}$)	10	10	100% C	≥ 80 (A/B)
On the rig after hygrothermal cycles (HWC) ($F_{B-I,HWC}$)	10	10	100% C	or < 80 (C)
After freeze-thaw test ($F_{B-I,F-T}$)	Test not required because freeze-thaw cycles are not necessary.			

A: adhesive rupture.

B: cohesive rupture in adhesive.

C: cohesive rupture in insulation product.

(*)The measured bond strength values exceed the nominal tensile strength perpendicular to the faces of the thermal insulation product (TR10); the declared minimum and mean values are therefore limited to TR10 in accordance with EAD 040083-01-0404, clause I.1.3.

Table 6: Bond strength between the base coat and the thermal insulation product test results.

3.3.2 Bond strength between the adhesive and the substrate

EAD 040083-01-0404, clause 2.2.10.2.

	Bond strength				
	Adhesive thickness (mm)	Minimum value (kPa)	Mean value (kPa)	Failure mode	Required value (kPa)
Without supplementary conditioning in dry condition ($F_{A-S,dry}$)	5	680	752	100% B	≥ 250
2 days immersion in water + 2 h drying at $(23 \pm 2) ^\circ\text{C}$ and $(50 \pm 5) \% \text{RH}$ ($F_{A-S,2d,2h}$)	5	200	237	100% B	≥ 80
2 days immersion in water + 7 days drying at $(23 \pm 2) ^\circ\text{C}$ and $(50 \pm 5) \% \text{RH}$ ($F_{A-S,2d,7d}$)	5	658	883	100% B	≥ 250

A: adhesive rupture.

B: cohesive rupture in adhesive.

C: cohesive rupture in insulation product.

Table 7: Bond strength between the adhesive and the substrate results

3.3.3 Wind load resistance of mechanically fixed ETICS - Dynamic wind uplift resistance

EAD 040083-01-0404, clause 2.2.12.3.

No damages occurred in any of the specimens:

- The insulation panel did not break.
- There was not delamination in the insulation product or between the insulation product and the rendering.
- The rendering system did not detach.
- The insulation panel was not pulled off of the fastener.
- The mechanical fasteners were not torn out of the substrate.
- The insulation panel did not detach from the supporting structure.

Total thickness of the specimen: 68 mm.

Thermal insulation thickness 60 mm: Maximum load reached: $W_{100\%}$ of 15,5 kPa (Q_1).

Tensile strength perpendicular to the faces: see clause 3.3.4.

Compressive strength at 10% of compression: see Table A1.

According to section 2.2.13.3 of the EAD, the admissible value of the characteristic resistance, R_k is:

$$R_k = Q_1 \times C_s \times C_a = 15.500 \times 0,97 \times 1 = 15.035 \text{ Pa}$$

Where:

$$Q_1 = 15,5 \text{ kPa}$$

$$C_s = 0,97$$

$$C_a = 1$$

The above given loads apply for all anchors if they meet the following criteria:

- plate diameter of anchor: 60 mm
- plate stiffness of anchor: 0,5 kN/mm
- load resistance of anchor plate: 1,02 kN

3.3.4 Tensile strength perpendicular to the faces of the thermal insulation product

EAD 040083-01-0404, clauses 2.2.13.

			WF board
Thickness (mm)			60
Dry conditions (according to DoP)			10
Tensile strength perpendicular to the faces (kPa)	Dry conditions	Mean ($\sigma_{mt,mean,dry}$)	23,7
		Min. ($\sigma_{mt,min,dry}$)	21,8
	Wet conditions after 7 days	Mean ($\sigma_{mt,mean,wet}$)	17,4
		Min. ($\sigma_{mt,min,wet}$)	16,4
	Wet conditions after 28 days	Mean ($\sigma_{mt,mean,wet}$)	14,0
		Min. ($\sigma_{mt,min,wet}$)	11,3

Table 8: Tensile strength perpendicular to the faces of the thermal insulation product.

3.4 Energy economy and heat retention (BWR 6)

3.4.1 Thermal resistance of ETICS without the influence of mechanical fixing devices

EAD 040083-01-0404, clause 2.2.20.1.

Insulation product	Thermal conductivity (λ_D) (W/m·K)	Thickness ¹ (mm)	Thermal resistance (m ² ·K/W) ⁽²⁾		
			R _{insulation}	R _{render}	R _{ETICS}
WF board	0,037	60	1,60	0,02	1,62
		200	5,40		5,42

(1) Minimum and maximum thickness considered in the ETA.

(2) R_{insulation}: Thermal resistance of the insulation panel (in accordance with the Declaration of Performance of the insulation panels).

R_{render}: Thermal resistance of the render (base coat + key coat + finishing coat). See section 2.2.20 of EAD 040083-01-0404.

R_{ETICS}: Thermal resistance of the ETICS (R_{ETICS} = R_{insulation} + R_{render}).

Table 9: Thermal resistance of the ETICS.

3.5 Aspects of durability

3.5.1 Bond strength after ageing of finishing layer tested on the rig

EAD 040083-01-0404, clause 2.2.21.1.

Rendering systems:		Bond strength		
Base coat + finishing coats indicated hereafter:	Minimum value (F _{min,HWC}) (*) (kPa)	Mean value (F _{mean,HWC}) (*) (kPa)	Failure mode	Required value
On the rig after the hygrothermal cycles (HWC)				
Com-Cal Adherecal + Pintura de Cal	10	10	100% C	≥ 80 (A/B)
Com-Cal Adherecal + Com-Cal Lime Wash	10	10	100% C	or < 80 (C)

A: adhesive rupture.

B: cohesive rupture in adhesive.

C: cohesive rupture in insulation product.

(*)The measured bond strength values exceed the nominal tensile strength perpendicular to the faces of the thermal insulation product (TR10); the declared minimum and mean values are therefore limited to TR10 in accordance with EAD 040083-01-0404, clause I.1.3.

Table 10: Bond strength after ageing test results.

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

According to the decision 97/556/EC amended by Decision 2001/596/EC, as amended of the European Commission¹, the systems of AVCP (see EC delegated regulation (EU) No 568/2014 amending Annex V to Regulation (EU) 305/2011) given in the table 11 applies.

Trade name of the system	Intended use(s)	Level(s) or class(es) (Reaction to fire)	AVCP system
COM-CAL THERMWOOD - LIME & WOOD FIBER ETICS	External Thermal Insulation Composite System with rendering system in external walls subject to fire regulations.	A1 ⁽²⁾ , A2 ⁽²⁾ , B ⁽²⁾ , C ⁽²⁾ , D, E, F or A1 ⁽³⁾ to E ⁽³⁾	1, 2+
	External Thermal Insulation Composite System with rendering system in external walls not subject to fire regulations.	Any	2+

(1) Products/material 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 note 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).

Table 11: Applicable AVCP system.

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

All the necessary technical details for the implementation of the AVCP system are laid down in the *Control Plan* deposited with the ITeC², with which the factory production control shall be in accordance.

Products not manufactured by the kit manufacturer shall also be controlled according to the Control Plan.

Where materials/components are not manufactured and tested by the supplier in accordance with agreed methods, then they shall be subject to suitable checks/tests by the kit manufacturer before acceptance.

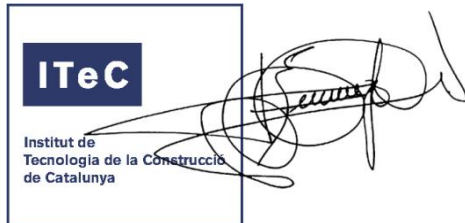
Any change in the manufacturing procedure which may affect the properties of the product shall be notified and the necessary type-testing revised according to the *Control Plan*.

¹ Official Journal of the European Union (OJEU) L229/15 of 20/08/1997.

Official Journal of the European Union (OJEU) L209/33 of 02/08/2011.

² The *Control Plan* is a confidential part of the ETA and is only handed over to the notified certification body involved in the assessment and verification of constancy of performance.

Issued in Barcelona on 25 March 2026
by the Catalonia Institute of Construction Technology.



Ferran Bermejo Nualart
Technical Director, ITeC

ANNEX 1: Insulation product characteristics

Descriptions and characteristics	Performance
Description	Generic factory-prefabricated uncoated boards with straight edges for mechanically fixed ETICS, made of Wood Fibre (WF) according to EN 13171.
Reaction to fire EN 13501-1 (*)	E
Thermal resistance ((m ² ·K)/W)	1,60 (60) 2,15 (80) 2,70 (100) 3,20 (120) 3,75 (140) 3,90 (145) 4,30 (160) 4,85 (180) 5,40 (200)
Thermal conductivity (W/(m·K)) (*)	0,037
Thickness EN 823 (*)	T5 [-1% or -1 mm and + 3 mm]
Tensile strength (kPa) (*) EN 1607	TR10
Compressive strength (kPa) (*) EN 826	CS(10\Y)50
Short-term water absorption (by partial immersion) EN ISO 29767	WS1,0 [≤ 1,0 kg/m ²]
Dimensional stability (*) EN 1604	DS(70,90)3
Density ρ [kg/m ³]	aprox. 110
Water vapour diffusion resistance factor (μ) EN 12086	MU3

(*) Characteristics of the insulation products declared in the DoP.

Table A1: Characteristics of insulation product.

ANNEX 2: Anchors characteristics

Anchors with an ETA according to EAD 330196-01-0604.

The anchors are composed of a plastic expansion sleeve with a plate with a 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.

Other characteristics:

- Mounting: surface assembly.
- Plate stiffness: $\geq 0,5$ kN/mm.
- Load resistance $\geq 1,02$ kN.

ANNEX 3: Glass fibre mesh characteristics

Fiberglass mesh 160 g/m².

Mesh size: 4,5 mm ± 0,2 mm (warp) x 4,5 mm ± 0,2 mm (weft).

Weight per unit area: 160 g/m² (± 5 %).

Heat of combustion: 8,2 MJ/kg.

Coverage ratio: 38,5 %.

	Fiberglass mesh 160 g/m ²		Required value
	Warp	Weft	
Tensile strength in the as-delivered state (mean value)	≥ 51 N/mm	≥ 57 N/mm	--
Tensile strength after artificial ageing (mean value)	≥ 23 N/mm	≥ 29 N/mm	≥ 20 N/mm
Residual strength after artificial ageing	53 %	62 %	≥ 50%
Elongation after artificial ageing (mean value)	3,7 %	3,5 %	--

Table A3: Mechanical characteristics of the Fiberglass mesh 160 g/m² and required values stated in the EAD 040016-01-0404.