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## European Technical Assessment

**ETA-04/0077**  
**of 19.06.2018**

General part

### Technical Assessment Body issuing the European Technical Assessment

Österreichisches Institut für Bautechnik (OIB)  
Austrian Institute of Construction Engineering

### Trade name of the construction product

webertherm family (with MW)  
webertherm prestige (with MW)  
webertherm freestyle (with MW)  
webertherm family grob (with MW)  
webertherm ETICS (with MW)

### Product family to which the construction product belongs

External Thermal Insulation Composite Systems  
with rendering on mineral wool (MW) for the use as  
external insulation to walls of buildings.

### Manufacturer

Saint-Gobain Weber  
Rue de Brie – B.P.84 - Servon  
77253 Brie-Compte-Robert cedex  
France

### Manufacturing plant

Saint-Gobain Weber Terranova GmbH  
Gleichentheilgasse 6  
1230 Wien  
Austria

### This European Technical Assessment contains

17 pages including 1 Annex

### This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

ETAG 004 used as European Assessment  
Document (EAD), edition June 2013

### This European Technical Assessment replaces

European Technical Approval ETA-04/0077  
with validity from 19.06.2013 to 18.06.2018

## **General part**

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## **Specific parts**

### **1. Technical description of the product**

#### **1.1 General**

This product 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 mineral insulation product to be bonded or bonded and mechanically fixed onto a wall. The methods of fixing and the relevant components are specified in the table below. The insulation product is faced with a rendering system consisting of one or more layers (site applied), one of which contains reinforcement. The rendering 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,...). 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.

## 1.2 Composition of the kit

### 1.2.1 Composition of the ETICS

	Components	Coverage (kg/m <sup>2</sup> )	Thickness (mm)
Insulation materials with associated methods of fixing	<b>Bonded ETICS</b> (partially or fully bonded. National application documents shall be taken into account)		
	➤ Insulation product 1: Standard mineral wool (slabs)	/	50 to 200
	➤ Insulation product 2: Standard mineral wool (lamellas)	/	50 to 200
	➤ Adhesives: - <b>webertherm family</b> : Mineral powder, cement base with silica sand, dispersion powder, additives	4,0 to 5,0 (powder)	/
	- <b>webertherm prestige</b> : Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm freestyle</b> : Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm family grob</b> : Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm blue comfort</b> : Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm bianco</b> : Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm minus 7</b> : Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/

	Components	Coverage (kg/m <sup>2</sup> )	Thickness (mm)
<b>Insulation materials with associated methods of fixing</b>	<b>Mechanically fixed ETICS with anchors and supplementary adhesive</b> (see § 2.3.3 a) for possible associations insulation product/anchors)		
	➤ Insulation product 1: Standard mineral wool (slabs)	/	50 to 200
	➤ Insulation product 2: Standard mineral wool (lamellas)	/	50 to 200
	➤ Adhesives: - <b>webertherm family:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	4,0 to 5,0 (powder)	/
	- <b>webertherm prestige:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm freestyle:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm family grob:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm blue comfort:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm bianco:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm minus 7:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
<b>Base coat</b>	➤ Anchors: - Anchors with valid ETA according to ETAG 014 "Plastic Anchors For Fixing Of External Thermal Insulation Composite Systems With Rendering"	/	/
	- <b>webertherm family:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	4,5 (powder)	/
	- <b>webertherm prestige:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm freestyle:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm family grob:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm blue comfort:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/
	- <b>webertherm bianco:</b> Mineral powder, cement base with silica sand, dispersion powder, additives	5,5 (powder)	/

	Components	Coverage (kg/m²)	Thickness (mm)
Glass fibre mesh	➤ Standard glass fibre mesh: - <b>webertherm Textilglasgitter</b> : - mesh size between 3 mm and 5 mm	/	/
Key coat	- <b>weberprim Putzgrund</b> : - ready to use pigmented liquid primer	~ 0,16 (l/m²)	/
Finishing coat	➤ Ready to use paste – silicate binder: - <b>weberpas Silikatputz</b> : particle size 1,5/2,0/2,5/3,0 mm	2,5 to 5,0 (paste)	Regulated by particle size
	➤ Ready to use paste – silicate binder/silicone resin: - <b>weberpas extraClean</b> : particle size 1,5/2,0/2,5/3,0 mm - <b>weberpas decofino</b> particle size 1,0 mm - <b>weberpas modelfino</b> particle size 0,5 mm	2,5 - 5,0 (paste) 1,8 (paste) 1,5 (paste)	
	➤ Ready to use paste - synthetic binder/silicone resin: - <b>weberpas Silikonharzputz</b> : particle size 1,5/2,0/2,5/3,0 mm	2,5 - 5,0 (paste)	
	➤ Ready to use pastes - synthetic binder: - <b>weberpas Kunstharzputz</b> particle size 1,5/2,0/2,5/3,0 mm - <b>weberpas topdry</b> particle size 1,5/2,0/2,5/3,0 mm - <b>webertex GRN+S</b> particle size 0,5 mm - <b>weberpas topdry AquaBalance</b> particle size 1,5/2,0/2,5/3,0 mm	2,5 - 5,0 (paste) 2,5 to 5,0 (paste) 0,8 - 1,2 (paste) 2,5 - 5,0 (paste)	
	➤ Powder render – lime/cement binder: - <b>webermin freestyle RP*</b> : particle size 1,5/2,0/3,0 mm - <b>webermin freestyle RIP*</b> : particle size 3,0 mm - <b>webermin freestyle KP*</b> : particle size 2,0/3,0 mm - <b>webercal estuco</b> lime, marble, dispersion powder	2,5 - 5,0 (powder) 9,0 (powder) 15 - 25 (powder) 3,0 (powder)	
Ancillary materials	Descriptions in accordance with § 3.2.2.5 of the ETAG 004 Remain under the ETA-holder responsibilities		

\* only on base-coat webertherm prestige, freestyle and family grob

### 1.2.2 Characteristics of the insulation product

Descriptions and characteristics	MW lamellas (insulation product 2)	MW slabs (insulation product 1)
	for bonded ETICS	for mechanically fixed ETICS with anchors
Reaction to fire / EN 13501-1	Euroclass A1 - Thickness: 50 mm to 200 mm - density: 110 kg/m <sup>3</sup> to 160 kg/m <sup>3</sup>	
Thermal resistance ((m <sup>2</sup> .K)/W)	Defined in the CE marking in reference to EN 13162 "Thermal insulation products for buildings" -Factory made mineral wool (MW) products	
Thickness (mm) / EN 823	MW-EN 13162 – T5	
Water absorption (partial immersion) / EN 1609	≤ 0,5 kg/m <sup>2</sup>	
Water vapour diffusion resistance factor (μ) / EN 12086	≤ 2	
Tensile strength perpendicular to the faces in dry conditions (kPa) / EN 1607	≥ 80 (MW-EN 13162 – TR80)	≥ 5 (MW-EN 13162 – TR5 and TR10)
Shear strength (N/mm <sup>2</sup> ) / EN 12090	≥ 0,02	-
Shear modulus (N/mm <sup>2</sup> ) / EN 12090	≥ 1,0	-

### 1.2.3 Anchors

Anchors used with valid ETA according to ETAG 014 "Plastic Anchors For Fixing Of External Thermal Insulation Composite Systems With Rendering" shown in the control plan and the declaration of performance.

### 1.2.4 Render

The average value of the crack width of the base coat with the glass fibre mesh, measured at a render strain value of 0,8 % is about 0,1 mm.

### 1.2.5 Glass fibres meshes

	Alkali resistance			
	Residual resistance after ageing (N/mm)		Relative residual resistance: % (after ageing) of the strength in the as delivered state	
	Warp	Weft	Warp	Weft
<b>webertherm Textilglasgitter</b> Glass fibre mesh with mesh size between 3 mm and 5 mm	≥ 20	≥ 20	≥ 50	≥ 50

## 1.3 Manufacturing

The European Technical Assessment is issued for ETICS on the basis of agreed data/information, deposited with the Österreichisches Institut für Bautechnik, which identifies the ETICS that has been assessed and judged. Changes to the ETICS or production process, which could result in this deposited data/information being incorrect, shall be notified to the Österreichisches Institut für Bautechnik before the changes are introduced. The Österreichisches Institut für Bautechnik will decide whether or not such changes affect the ETA and consequently the validity of the CE marking on the basis of the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

#### **1.4 Design and installation**

The installation instructions including special installation techniques and provisions for the qualification of the personnel are given in the manufacturer's technical documentation. Design, installation and execution of ETICS are to be in conformity with national documents. Such documents and the level of their implementation in Member States' legislation are different.

Therefore, the assessment and declaration of performance are done taking into account general assumptions introduced in the chapter 7 of ETAG 004 used as EAD, which summarizes how information introduced in the ETA and related documents is intended to be used in the construction process and gives advice to all parties interested when normative documents are missing.

#### **1.5 Packaging, transport and storage**

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

#### **1.6 Use, maintenance and repair**

The finishing coat shall normally be maintained in order to fully preserve the ETICS performance. Maintenance includes at least:

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

Necessary repairs should be performed as soon as the need has been identified. It is important to be able to carry out maintenance as far as possible using readily available products and equipment, without spoiling appearance. Only products which are compatible with the ETICS shall be used.

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

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

This ETICS is intended for use as external insulation of buildings' walls. The walls are made of masonry (bricks, blocks, stones,...), concrete (cast on site or as prefabricated panels) or cement-bonded panels. The characteristics of 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 bonded and 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 elements. It does not contribute directly to the stability of the wall on which it is installed, but it can contribute to durability by providing enhanced protection from the effect of weathering.

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

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

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



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

#### 3.1 Reaction to fire

Configuration according to cl. 1.2.1	Maximum declared organic content of the rendering system	Minimum declared flame retardant content of the rendering system	Euroclass according to EN 13501-1 : 2002
<b>webertherm family</b> <i>(with MW)</i> <b>webertherm prestige</b> <i>(with MW)</i> <b>webertherm freestyle</b> <i>(with MW)</i> <b>webertherm family grob</b> <i>(with MW)</i> <b>webertherm ETICS</b> <i>(with MW)</i>	Base coat: 3,5 % Finishing coat: 8,0 %	Base coat: 0 % Finishing coat: 0 %	A2 – s1, d0

Note: A European reference fire scenario has not been laid down for facades. In some Member States, the classification of ETICS according to EN 13501-1: 2002 might not be sufficient for the use in facades. 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 State regulations, until the existing European classification system has been completed.

#### 3.2 Water absorption (capillarity test)

- Base coat: **All base coat according to clause 1.2.1**
  - Water absorption after 1 hour < 1 kg/m<sup>2</sup>
  - Water absorption after 24 hours < 0,5 kg/m<sup>2</sup>
- Rendering system:

		Water absorption after 24 hours	
		< 0,5 kg/m <sup>2</sup>	≥ 0,5 kg/m <sup>2</sup>
<b>Rendering systems:</b> base coat <i>(including key coat acc. to clause 1.2.1)</i> + finishing coats indicated hereafter:	<b>weberpas Silikatputz</b>	X	
	<b>weberpas extraClean</b>	X	
	<b>weberpas decofino</b>	X	
	<b>weberpas modelfino</b>	X	
	<b>weberpas Silikonharzputz</b>	X	
	<b>weberpas Kunstharzputz</b>	X	
	<b>webermin freestyle RP</b>	X	
	<b>webermin freestyle RIP</b>	X	
	<b>webermin freestyle KP</b>	X	
	<b>webercal estuco</b>	X	
	<b>weberpas topdry</b>	X	
	<b>weberpas topdry AquaBalance</b>	X	
	<b>webertex GRN+S</b>	X	

#### 3.3 Watertightness

Passed without defects.



### 3.4 Impact resistance

		Single standard mesh	Double standard mesh
<b>Rendering systems:</b> base coat (including key coat acc. to clause 1.2.1) + finishing coats indicated hereafter:	weberpas Silikatputz	<b>Category I</b>	
	weberpas extraClean		
	weberpas decofino		
	weberpas modelfino		
	weberpas Silikonharzputz		
	weberpas Kunstharzputz		
	webermin freestyle RP		
	webermin freestyle RIP		
	webermin freestyle KP		
	webercal estuco		
	weberpas topdry		
	weberpas topdry AquaBalance		
	webertex GRN+S*	<b>Category III</b>	<b>Category II</b>

### 3.5 Water vapour permeability

		Equivalent air thickness (m)
<b>Rendering systems:</b> webertherm family (including key coat acc. to clause 1.2.1) + finishing coats indicated hereafter:	weberpas Silikatputz	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,4 m)
	weberpas Silikonharzputz	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,5 m)
	weberpas Kunstharzputz	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,5 m)
	weberpas extraClean	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,3 m)
	weberpas decofino	$\leq 1,0 \text{ m}$ (test result obtained with particle size 1,0 mm: 0,3 m)
	weberpas modelfino	$\leq 1,0 \text{ m}$ (test result obtained with particle size 0,5 mm: 0,3 m)
	weberpas topdry	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,4 m)
	weberpas topdry AquaBalance	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,4 m)
<b>Rendering systems:</b> webertherm freestyle, prestige, family grob, bianco & blue comfort (including key coat acc. to clause 1.2.1) + finishing coats indicated hereafter:	weberpas Silikatputz	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,3 m)
	weberpas Silikonharzputz	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,5 m)
	weberpas Kunstharzputz	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,5 m)
	weberpas extraClean	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,2 m)
	weberpas decofino	$\leq 1,0 \text{ m}$ (test result obtained with particle size 1,0 mm: 0,2 m)
	weberpas modelfino	$\leq 1,0 \text{ m}$ (test result obtained with particle size 0,5 mm: 0,2 m)
	webermin freestyle RP	$\leq 1,0 \text{ m}$ (test result obtained with particle size 3,0 mm: 0,2 m)
	webermin freestyle RIP	$\leq 1,0 \text{ m}$ (test result obtained with particle size 3,0 mm: 0,2 m)
	webermin freestyle KP	$\leq 1,0 \text{ m}$ (test result obtained with particle size 3,0 mm: 0,2 m)
	webercal estuco	$\leq 1,0 \text{ m}$ (test result obtained with particle size 3,0 mm: 0,2 m)
	weberpas topdry	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,4 m)
	weberpas topdry AquaBalance	$\leq 1,0 \text{ m}$ (test result obtained with particle size 2,0 mm: 0,4 m)
	webertex GRN+S* only on base coat webertherm B1 (see Annex 1)	$\leq 1,0 \text{ m}$ (test result obtained with particle size 0,5 mm: 0,2 m)

### 3.6 Dangerous substances

Release of dangerous substances

According to the manufacturer's declaration the assessed system does not contain dangerous substances detailed in Council Directive 67/548/EEC and Regulation (EC) no 1272/2008 as well as EOTA TR 034 (General ER 3 Checklist for ETAGs/CUAPs/ETAs- Content and/or release of dangerous substances in products/kits), edition March 2012.

A written declaration in this respect was submitted by the ETA-holder.

In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

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

➤ Base coat onto insulation product 1

Conditionings	
Initial state	After the hygrothermal cycles (on the rig)
< 0,08 MPa but failure into insulation product	< 0,08 MPa but failure into insulation product

➤ Base coat onto insulation product 2

Conditionings	
Initial state	After the hygrothermal cycles (on the rig)
≥ 0,08 MPa	< 0,08 MPa but failure into insulation product

### 3.8 Adhesives onto substrate and insulation product (safety in use of the bonded ETICS)

		Conditionings		
		Initial state	48 h immersion in water + 2 h 23 °C/50 % RH	48 h immersion in water + 7 days 23 °C/50 % RH
<b>webertherm family</b>	Concrete	≥ 0,25 MPa	≥ 0,08 MPa	≥ 0,25 MPa
	Insulation product 1	< 0,08 MPa but failure into insulation product	< 0,03 MPa but failure into insulation product	< 0,08 MPa but failure into insulation product
	Insulation product 2	≥ 0,08 MPa	≥ 0,03 MPa*	≥ 0,08 MPa
<b>webertherm prestige</b>	Concrete	≥ 0,25 MPa	≥ 0,08 MPa	≥ 0,25 MPa
	Insulation product 1	< 0,08 MPa but failure into insulation product	< 0,03 MPa but failure into insulation product	< 0,08 MPa but failure into insulation product
	Insulation product 2	≥ 0,08 MPa	≥ 0,03 MPa*	≥ 0,08 MPa
<b>webertherm freestyle</b>	Concrete	≥ 0,25 MPa	≥ 0,08 MPa	≥ 0,25 MPa
	Insulation product 1	< 0,08 MPa but failure into insulation product	< 0,03 MPa but failure into insulation product	< 0,08 MPa but failure into insulation product
	Insulation product 2	≥ 0,08 MPa	≥ 0,03 MPa*	≥ 0,08 MPa

		Conditionings		
		Initial state	48 h immersion in water + 2 h 23 °C/50 % RH	48 h immersion in water + 7 days 23 °C/50 % RH
<b>webertherm family grob</b>	Concrete	≥ 0,25 MPa	≥ 0,08 MPa	≥ 0,25 MPa
	Insulation product 1	< 0,08 MPa but failure into insulation product	< 0,03 MPa but failure into insulation product	< 0,08 MPa but failure into insulation product
	Insulation product 2	≥ 0,08 MPa	≥ 0,03 MPa *	≥ 0,08 MPa
<b>webertherm blue comfort</b>	Concrete	≥ 0,25 MPa	≥ 0,08 MPa	≥ 0,25 MPa
	Insulation product 1	< 0,08 MPa but failure into insulation product	< 0,03 MPa but failure into insulation product	< 0,08 MPa but failure into insulation product
	Insulation product 2	≥ 0,08 MPa	≥ 0,03 MPa *	≥ 0,08 MPa
<b>webertherm bianco</b>	Concrete	≥ 0,25 MPa	≥ 0,08 MPa	≥ 0,25 MPa
	Insulation product 1	< 0,08 MPa but failure into insulation product	< 0,03 MPa but failure into insulation product	< 0,08 MPa but failure into insulation product
	Insulation product 2	≥ 0,08 MPa	≥ 0,03 MPa *	≥ 0,08 MPa
<b>webertherm minus 7</b>	Concrete	≥ 0,25 MPa	≥ 0,08 MPa	≥ 0,25 MPa
	Insulation product 1	< 0,08 MPa but failure into insulation product	< 0,03 MPa but failure into insulation product	< 0,08 MPa but failure into insulation product
	Insulation product 2	≥ 0,08 MPa	≥ 0,03 MPa *	≥ 0,08 MPa
* Test obtained at a bonded surface of 100%				

### 3.9 Fixing strength (displacement test)

$U_e$  (displacement corresponding to the elasticity limit) = 2,5 mm

### 3.10 Wind load resistance

Safety in use of mechanically fixed ETICS **using anchors**

The following values only apply for the combination (anchor plate characteristics) / (insulation product characteristics) mentioned in this table. All anchors which shall be used are shown in the control plan and the declaration of performance.

<b>Anchors for which the following failure loads apply</b>	Trade name	according to cl. 1.2.2 of the ETA
	Plate diameter (mm)	≥ 60
<b>Characteristics of the insulation product panels for which the following failure loads apply</b>	Thickness (mm)	≥ 50
	Tensile strength perpendicular to the face (kPa)	≥ 5

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

- valid ETA according to ETAG 014
- hit or screw anchors
- plate stiffness of anchors ≥ 0,3 kN/mm
- load resistance of anchor plate ≥ 1,0 kN
- anchors mounted on the insulation panel surface or with the minimal residual thickness of the insulation product as stated above

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

$$R_d = \frac{4,0}{m} \text{ kN/m}^2$$

$$R_d \geq S_d$$

Where:

$R_d$  design resistance

$S_d$  wind load suction

$m$  national safety factor of resistance for normal materials (partial safety factor to be chosen in function of the type of failure which occurred and the ageing of material properties concerned).

### 3.11 Thermal resistance

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

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

Where:  $\chi_p \cdot n$  has only to be taken into account if it is greater than 0,04 W/(m<sup>2</sup>·K)

$U$ : global thermal transmittance of the covered wall (W/ (m<sup>2</sup>·K))

$n$ : number of anchors (through insulation product) per m<sup>2</sup>

$\chi_p$ : local influence of thermal bridge caused by an anchor. The values listed below can be taken into account if not specified in the anchor's ETA:

= 0,002 W/K for anchors with a stainless steel screw covered by plastic anchors and for anchors with an air gap at the head of the screw ( $\chi_p \cdot n$  negligible for  $n < 20$ )

= 0,004 W/K for anchors with a galvanized steel screw with the head covered by a plastic material ( $\chi_p \cdot n$  negligible for  $n < 10$ )

= negligible for anchors with plastic nails (reinforced or not with glass fibres ...)

$U_c$ : thermal transmittance of the current part of the covered wall (excluding thermal bridges) (W/ (m<sup>2</sup>·K)) determined as follows:

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

Where:  $R_i$ : thermal resistance of the insulation product (according to declaration in reference to EN 13163) in (m<sup>2</sup>·K)/W

$R_{render}$ : thermal resistance of the render (about 0.02 in (m<sup>2</sup>·K)/W)

$R_{substrate}$ : thermal resistance of the substrate of the building (concrete, brick ...) in (m<sup>2</sup>·K)/W

$R_{se}$ : external superficial thermal resistance in (m<sup>2</sup>·K)/W

$R_{si}$ : internal superficial thermal resistance in (m<sup>2</sup>·K)/W

The value of thermal resistance of each insulation product shall be given in the Declaration of performance 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.

### 3.12 Airborne sound insulation

Single improvement values determined by testing, ETICS configuration and substrate characteristics for which the values are valid:

Insulation product	Rendering system	ETICS fixing	Substrate description	ETICS performance
Insulation type: MW slabs  Range of thickness: 50 to 200 mm  maximum dynamic stiffness: NPD  air flow resistance: NPD	minimum mass of the rendering system:  depending on ETICS-thickness	<b><i>mechanical fixing</i></b>  type: anchors acc. to ETAG 014  maximum number per m <sup>2</sup> : depending on calculation  <b><i>bonding by adhesives</i></b>  maximum bonded surface area: see clause 3.7	type: heavy wall - mass per unit: depending on wall construction	$\Delta R_w = \text{NPD}$ $\Delta R_w + C = \text{NPD}$ $\Delta R_w + C_{tr} = \text{NPD}$

### 3.13 Bond strength after ageing

- Base coat + finishing coat after ageing onto insulation product 1

		after hygrothermal cycles (on the rig) or after 7 days immersion in water + 7 days 23 °C/50 % RH
<b>Rendering systems:</b> base coat (including key coat acc. to clause 1.2.1) + finishing coats indicated hereafter:	<b>weberpas Silikatputz</b>	$< 0,08 \text{ MPa}$ but failure into insulation product
	<b>weberpas extraClean</b>	
	<b>weberpas decofino</b>	
	<b>weberpas modelfino</b>	
	<b>weberpas Silikonharzputz</b>	
	<b>weberpas Kunstharpzputz</b>	
	<b>webermin freestyle RP*</b>	
	<b>webermin freestyle RIP*</b>	
	<b>webermin freestyle KP*</b>	
	<b>webercal estuco</b>	
	<b>weberpas topdry</b>	
	<b>weberpas topdry AquaBalance</b>	
		<b>webertex GRN+S**</b>
* only on base-coat webertherm prestige, freestyle, family grob, blue comfort and bianco ** only on base-coat webertherm B1 (see Annex 1)		

- Base coat + finishing coat after ageing onto insulation product 2

		after hygrothermal cycles (on the rig) or after 7 days immersion in water + 7 days 23 °C/50 % RH
<b>Rendering systems:</b> base coat (including key coat acc. to clause 1.2.1) + finishing coats indicated hereafter:	weberpas Silikatputz	$< 0,08 \text{ MPa}$ but failure into insulation product
	weberpas extraClean	
	weberpas decofino	
	weberpas modelfino	
	weberpas Silikonharzputz	
	weberpas Kunstharzputz	
	webermin freestyle RP*	
	webermin freestyle RIP*	
	webermin freestyle KP*	
	webercal estuco	
	weberpas topdry	
	weberpas topdry AquaBalance	
	webertex GRN+S**	
* only on base-coat webertherm prestige, freestyle, family grob, blue comfort and bianco ** only on base-coat webertherm B1 (see Annex 1)		

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

According to the European Commission decision 97/556/EC amended by the the European Commission decision 2001/596/EC, the AVCP systems (further described in Annex V to Regulation (EU) No 305/2011) 1 and 2+ apply.

Product(s)	Intended use(s)	Level(s) or class(es) (Reaction to fire)	System(s)
External thermal insulation composite systems/kits (ETICS) with rendering	in external wall subject to fire regulations	A1 <sup>(1)</sup> , A2 <sup>(1)</sup> , B <sup>(1)</sup> , C <sup>(1)</sup>	1
		A1 <sup>(2)</sup> , A2 <sup>(2)</sup> , B <sup>(2)</sup> , C <sup>(2)</sup> , D, E, (A1 to E) <sup>(3)</sup> , F	2+
	in external wall not subject to fire regulations	any	2+

<sup>(1)</sup> Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material)

<sup>(2)</sup> Products/materials not covered by footnote (1)

<sup>(3)</sup> Products/materials that do not require to be tested for reaction to fire (e.g. Products/materials of Classes A1 according to Commission Decision 96/603/EC)

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

In order to help the Notified Body to make an evaluation of conformity, the Technical Assessment Body issuing the ETA shall supply the information detailed below. This information together with the requirements given in EC Guidance Paper B will generally form the basis on which the factory production control (FPC) is assessed by the Notified Body.

This information shall initially be prepared or collected by the Technical Assessment Body and shall be agreed with the manufacturer. The following gives guidance on the type of information required:

1) The ETA

Where confidentiality of information is required, this ETA makes reference to the manufacturer's technical documentation which contains such information.

2) Basic manufacturing process

The basic manufacturing process is described in sufficient detail to support the proposed FPC methods.

The different components of ETICS are generally manufactured using conventional techniques. Any critical process or treatment of the components which affects performance are highlighted in the manufacturer's documentation.

3) Product and materials specifications

The manufacturer's documentation includes:

- detailed drawings (possibly including manufacturing tolerances),
- incoming (raw) materials specifications and declarations,
- references to European and/or international standards,
- technical data sheets.

4) Control Plan (as a part of FPC)

The manufacturer and the Österreichisches Institut für Bautechnik have agreed a Control Plan which is deposited with the Österreichisches Institut für Bautechnik in documentation which accompanies the ETA. The Control Plan specifies the type and frequency of checks/tests conducted during production and on the final product. This includes the checks conducted during manufacture on properties that cannot be inspected at a later stage and for checks on the final product.

Products not manufactured by the ETICS manufacturer shall also be tested according to the Control Plan. It must be demonstrated to the Notified Body that the FPC system contains elements securing that the ETICS manufacturer takes products conforming to the Control Plan from his supplier(s).

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

In cases where the provisions of the European Technical Assessment and its Control Plan are no longer fulfilled, the Notified Body shall withdraw the certificate and inform the Österreichisches Institut für Bautechnik without delay.

Issued in Vienna, on 19.06.2018

Rainer Mikulits  
Managing Director



## Annex 1

### Further trade names

Components	Trade names acc. to clause 1.1	Further trade names
Adhesive	webertherm family	webertherm 303 weberguard MW Max webertherm pro webertherm glue webertherm clima webertherm A1 plus
	webertherm prestige webertherm freestyle webertherm family grob webertherm blue comfort webertherm bianco	webertherm 301 webertherm base weber P40 max <sup>2</sup> webertherm prestige (SRB) Marmoran ISO-Combi-Mörtel KK70, KK71, KK72
	webertherm minus 7	
Base coat	webertherm family	webertherm 303 weberguard MW Max webertherm pro webertherm clima
	webertherm prestige webertherm freestyle webertherm family grob webertherm blue comfort webertherm bianco	webertherm 301 webertherm base webertherm B1 plus <sup>1</sup> weber R40 max <sup>22</sup> webertherm prestige (SRB) <sup>3</sup> Marmoran ISO-Combi-Mörtel KK70, KK71, KK72
Glass fibre mesh	webertherm Textilglasgitter	webertherm 311 webertherm 117 webertherm 311 webertherm malla 160, 200, 320 webertherm amirna mreža 9901 webertherm armirna mrežica webertherm rede normal webertherm mesh webemesh prestige webertherm Стъклотекстилна мрежа Marmoran Glasgittergewebe
Key coat	weberprim Putzgrund	weberprim 403 weber CS plus weberpas Grund weberpas UNI weber osnovni premaz G700/705 weberprim XT weber G700 weberpas PR SIL weberpas deco 300 PR weberprim regulador plus weberprim regulador weberprim C 100 weberprim akril G weberprim S&S G weberprim S&S weberpas Грунд Silicon Putzgrund G210 Marmoran Grund G111 Silcanova-topdry-Grund G710

<sup>1</sup> Impact class III (single layer mesh) class II (double layer mesh)

<sup>2</sup> Impact class npd

<sup>3</sup> only in combination with webertene fresh, webertene elastic, webertene komfort (impact class II) and webermin classic PLUS (impact class III)

## Annex 1

### Further trade names

Components	Trade names acc. to clause 1.1	Further trade names
Finishing coat	weberpas Silikatputz weberpas extraClean weberpas decofino weberpas modelfino	weberpas 460, 461 weberpas 460 top, 461 top weberpas 460 AquaBalance weberpas 461 AquaBalance webertene micro, weberpas Silicat weberpas Силикатна мазилка weberpas Silikat weberpas silicate weberpas Rock weberpas deco SIL weberpas sisi, weberpas SiLSi weberpas silikatni omet webertene fresh
	weber Silikonharzputz	weberpas 480, 481 weberpas 480 top, 481 top weberpas 480 AquaBalance weberpas 481 AquaBalance webertene habitat weberpas Silicon weberpas Силиконова мазилка weberpas silikonski omet Marmoran Silicon webertene elastic weberpas ActiveAir
	weberpas Kunstharzputz	weberpas 430, 431, 432 webertene stilo, webertene geos webertene cromasil weberpas akrylat weberpas AcryLoxane weberpas akrilni omet webertene komfor weberplast decor weberplast decor plus weberpas deco 310, 330, 350; 355, GM Marmoran Carrara weberpas Elastic
	weberpas topdry	weberpas 430 top, 431 top weberpas 430 AquaBalance weberpas 431 AquaBalance weberpas Clima weberplast decor plus
	weberpas topdry AquaBalance	Marmoran Silcanova topdry weberpas PerSil
	webermin freestyle RP	weber.star 223, webermin 200 (PT) webermin (with webertex sil) webermin classic PLUS webermin freestyle zaribani omet webercal DF, webercal SP webercal 210, webercal 240 webercal palm, webercal stone webercal estuco
	webermin freestyle RIP	webermin freestyle reliefni omet
	webermin freestyle KP	webertherm clima webertherm color webermin freestyle praskani omet webermin Индивидуален стил
	webercal estuco	weber.rev kal
	webertex GRN+S	

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