

DECLARATION OF PERFORMANCE

		Dop Nr. KEW -	1109-CP	D-1010-1	- en				
1.	Unique identification c	ode of the product-type:	Therm	oScrew	TS U8 Gecko				
2.	Type, batch or serial nas required pursuant t	number or any other eleme o Article 11(4):	ent allowing identif	ication of the const	ruction product				
		` ,		A-16/0100 Annex A number: see packa					
3.		-	the construction product, in accordance with the applicable harmonised as foreseen by the manufacturer:						
	generic type	Screwed-in plastic ancho systems with rendering	or for fixing of exter	rnal thermal insulat	tion composite				
	for use in	ETA-16/0100 Annex B1							
	option / category	ETA-16/0100 Annex B1							
	loading	ETA-16/0100 Annex B1							
	material	ETA-16/0100 Annex A4							
	temperature range	ETA-16/0100 Annex B1							
4.		e name or registered trad rticle 11(5):							
			KEW Kunststoffer Dresdener Straße 02681 Wilthen Germany	rzeugnisse GmbH e 19	Wilthen				
5.	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):								
6.	System or systems of product as set out in A	assessment and verificati nnex V:	on of constancy o	f performance of th	ne construction				
7.	In case of the declarat	ion of performance conce	erning a construction	on product covered	I by a				

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment:

has been issued:

ETA-16/0100 of 05.04.2016
on the basis of:

ETAG 014, Edition February 2011

The notified body

DIBt Deutsches Institut für Bautechnik

ETA-16/0100 of 05.04.2016

Oscillation February 2011

The performed System 2+

i) initial inspection of factory and of factory production control

ii) continuouse surveillance, assessment and approval of factory production control.

and the following is displayed:

1109-CPD-1010-1

9. Declared performance:

Essential		Performance	Harmonized
Characteristics	Design Method	Steel electro-galvanized	Technical Specification
Characteristic	ETAG 014	ETA-16/0100	
resistance	217/0 014	Annex C1	
Minimum edge		ETA-16/0100	
distance and	ETAG 014	Annex B2	ETAG 014
anchor spacing		Alliex B2	
Discplacement ETAG 014		ETA-16/0100	
behavior	E1AG 014	Annex C2	

Where pursuant to Article 37 or 38 in the Specific Technical Documentation has been used, the requirements with which the product complies:

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4

Signed for and on behalf of the manufacturer by:

André Gegan

(managing director sales & marketing)

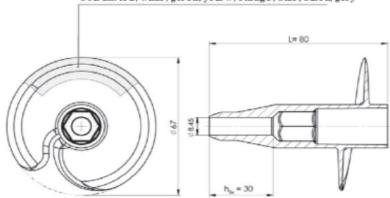
Wilthen, 29.04.2016



Screw plate ThermoScrew TS U8 Gecko

Labeling Manufacturer: KEW Product name: TSUSGecko Use categories: A, B, C, D, E

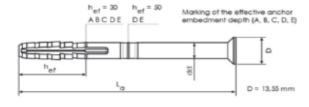
Colours: red, white, green, yellow, orange, blue, black, grey

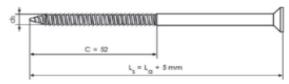


Anchor sleeve TSBD WSG with special screw (ETA-08/0314)

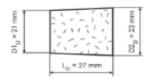
Anchor sleeve TSBD WSG

Special screw





Insulation plug



ThermoScrew TS U8 Gecko	
Product description Screw plate, anchor sleeve, special screw, insulation plug Marking	Annex A 3

Table A1: Dimensions

		Anchor sleeve			Special screw		
Anchor type	d _d [mm]	L _a [mm]	h _{ef} [mm]	d _s [mm]	c [mm]	L _s [mm]	
TSBD WSG Use category (A-B-C-D-E)	8	100 - 250	30	5,5	52	L _a + 5mm	
TSBD WSG Use category (D-E)	8	100 - 250	50	5,5	52	L _a + 5mm	

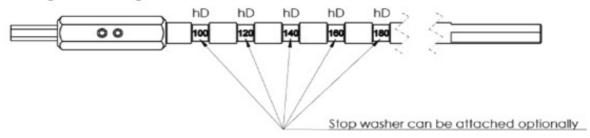
ì	Screw plate			
Anchor type	d [mm]	L [mm]	h _{fix} [mm]	
ThermoScrew TS U8 Gecko Use category (A-B-C-D-E)	67	80	30	

Table A2: Materials

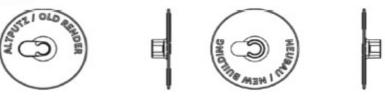
abic AL. materie			
Element	Material		
Screw plate polyamide PA 6.6, colour: red, white, green, yellow, orange, blue, b			
Anchor sleeve polypropylene PP, colour: papyrus white			
Special screw	galvanized steel. A2L or A2K according to EN ISO 4042:2001		
Insulation plug	polystyrene		

Setting and screwing tool TS SW

Front



Stop washer



ThermoScrew TS U8 Gecko	
Product description	Annex A 4
Dimensions materials setting tool	

Back

Specifications of intended use

Anchorages subject to:

 The anchor may only be used for transmission of wind suction loads and shall not be used for the transmission of dead loads of the thermal insulation composite system.

Base materials:

- Normal weight concrete (use category A) according to Annex C 1
- · Solid masonry (use category B), according to Annex C 1 and C 3
- · Hollow or perforated masonry (use category C), according to Annex C 1 and C 3
- Lightweight aggregate concrete (use category D), according to Annex C 1
- Autoclaved aerated concrete (use category E), according to Annex C 1
- For other base materials of the use categories A, B, C, D or E the characteristic resistance of the anchor may be determined by job site tests according to ETAG 014 Edition February 2011, Annex D.

Temperature Range:

0°C to +40°C (max. short term temperature +40°C and max. long term temperature +24°C)

Design:

- The anchorages are designed in accordance with the ETAG 014 Edition February 2011 under the responsibility of an engineer experienced in anchorages and masonry work.
- Verifiable calculation notes and drawings are prepared taking account of the loads to be anchored. The
 position of the anchor is indicated on the design drawings.
- · Fasteners are only to be used for multiple fixings of thermal insulation composite systems.

Installation:

- · Hole drilling by the drill modes according to Annex C 1.
- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site.
- Installation temperature from 0°C to +40°C
- Exposure to UV due to solar radiation of the anchor not protected by rendering ≤ 6 weeks

ThermoScrew TS U8 Gecko	
Intended use Specifications	Annex B 1

Table B1: Installation	parameters for	r OLD RENDER
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Anchor type			TSBD WSG
Use catagories			A-B-C-D-E
Drill hole diameter	d ₀ =	[mm]	8
Cutting diameter of drill bit	d _{cut} ≤	[mm]	8,45
Effective anchor embedment depth	h _{ef} =	[mm]	30
Thickness of equalizing layer	$t_{\text{tol}} \leq$	[mm]	40 – 190
Position of screw plate	t _{fix} ≤	[mm]	30
Depth of drilled hole to deepest point 1)	h₁≥	[mm]	80 – 230
Required length of anchor 2)	L _a =	[mm]	100 – 250
Thickness of insulation material	h _D =	[mm]	100 – 400
Total borehole depth	h _b =	[mm]	h _D + h ₁

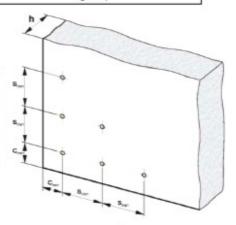
Table B2: Installation parameters for NEW BUILDING

Anchor type		TSBD WSG			
Use catagories	catagories		A-B-C-D-E	D-E	
Drill hole diameter	d ₀ =	[mm]	8	8	
Cutting diameter of drill bit	$d_{cut} \leq$	[mm]	8,45	8,45	
Effective anchorage depth	h _{ef} =	[mm]	30	50	
Thickness of equalizing layer	t _{tol} ≤ [mm]		20		
Position of screw plate	t _{fix} ≤	[mm]	50	30	
Depth of drilled hole to deepest point 1)	h₁≥	[mm]	60	80	
Required length of anchor 2)	L _a =	[mm]	100		
Thickness of insulation material	h _D =	[mm]	100 – 400		
Total borehole depth	h _b =	[mm]	h _D +	h ₁	

¹⁾ h₁= h_{ef} + t_{tol} + 10 mm ²⁾ L_a= h_{ef} + t_{tol} + t_{fix}

Table B3: Scheme of distances and spacing

			TSBD WSG
Minimum thickness of the base material	h≥	[mm]	100
Minimum allowable spacing	s _{min} =	[mm]	100
Minimum allowable edge distance	c _{min} =	[mm]	100



ThermoScrew TS U8 Gecko	
Intended use	Annex B 2
Installation parameters	
Distance and dimensions of the base material	

Base material	Bulk density class p [kg/dm³]	Minimum compressive strength f _b [N/mm²]	Remarks	Drill method	N _{Rk}
Concrete C12/15					1,5
EN 206-1:2000					
Concrete C16/20 - C50/60 EN 206-1:2000				Hammer .	1,5
Sand-lime solid bricks, KS e.g. acc. to DIN V 106:2005-10 / EN 771-2:2011	≥1.8	12	Vertically perforation up to 15 %		1,5
Clay bricks, Mz e.g. acc. to DIN V 105-100:2012-01 / EN 771-1:2011	≥1.7	12	Vertically perforation up to 15 %		1,5
Lightweight concrete solid blocks, Vbl 2 e.g. acc. to DIN V 18152-100:2005-10 / EN 771-3:2011	≥0.8	2	According to Annex C 3		0,75
Lightweight concrete solid blocks, Vbl 4 e.g. acc. to DIN V 18152-100:2005-10 / EN 771-3:2011	≥0.8	4	According to Annex C 3		1,2
Vertically perforated clay bricks, HLz e.g. acc. to DIN 105-100:2012-01 / EN 771-1:2011 outer web thickness ≥ 12 mm	≥1.0	12	Vertically perforation more than 15 % and less than 50 %	Rotary drilling	0,9
Vertically perforated sand-lime bricks, KSL e.g. acc. to DIN V 106:2005-10 / EN 771-2:2011 outer web thickness ≥ 20 mm	≥1.4	12	Vertically perforation more than 15 % and less than 50 %		1,5
Lightweight concrete hollow blocks, 4K Hbl e.g. acc. to DIN V 18151-100:2005-10 / EN 771-3:2011	≥0.9	2	According to Annex C 3		0,75
Lightweight concrete hollow blocks, 1K Hbl e.g. acc. to DIN V 18151-100:2005-10 / EN 771-3:2011	≥0.8	2	According to Annex C 3		0,9
Vertically perforated clay bricks HIz 250x380x235	≥1.0	6	According to Annex C 3		0,5
Lightweight aggregate concrete, LAC 4	3725744	20 - Open	h _{ef} ≥ 30 mm	Hammer	0,4
e.g. acc. to EN 1520:2011-06 / EN 771-3:2011	310 1	4	h _{ef} ≥ 50 mm		0,9
Lightweight aggregate concrete , LAC 6	aggregate concrete . LAC 6		h _{ef} ≥ 30 mm	drilling	0,5
e.g. acc. to EN 1520:2011-06 / EN 771-3:2011	≥1.0	6	h _{ef} ≥ 50mm		1,2
Autoclaved aerated concrete, PP4-05		20.00	h _{ef} ≥ 30mm	Rotary	0,3
e.g. acc. to DIN V 4165-100:2005-10 / EN 771-4:2011	>0.5 4	4	h _{ef} ≥ 50mm	drilling	0,75

ThermoScrew TS U8 Gecko	
Performances Characteristic resistance of the anchor	Annex C 1

lable Cz. Displacement	Table C2:	Displacements
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Base material	Bulk density class p [kg/dm³]	Minimum compressive strength f _b [N/mm ²]	Tension load N [kN]	Displacements δ _m (N) [mm]
Concrete C12/15-C50/60 EN 206-1:2000			0,50	1,6
Sand-lime solid bricks, KS DIN V 106:2005-10 / EN 771-2:2011	≥1.8	12	0,50	1,7
Clay bricks, Mz DIN 105-100:2012-01 / EN 771-1:2011	≥1.7	12	0,50	1,7
Lightweight concrete blocks, Vbl 2 DIN V 18152-100:2005-10 / EN 771-3:2011	≥0.8	2	0,25	1,0
Lightweight concrete block, Vbl 4 DIN V 18152-100:2005-10 / EN 771-3:2011	≥0.8	4	0,40	1,5
Vertically perforated clay brick, HLz DIN 105-100:2012-01 / EN 771-1:2011	≥1.0	12	0,30	1,0
Vertically perforated sand-lime bricks, KSL DIN V 106:2005-10 / EN 771-2:2011	≥1.4	12	0,50	1,7
Lightweight concrete hollow block, 4K Hbl DIN V 18151-100:2005-10 / EN 771-3:2011	≥0.9	2	0,25	0,8
Lightweight concrete hollow block, 1K Hbl DIN V 18151-100:2005-10 / EN 771-3:2011	≥0.8	2	0,30	1,1
Vertically perforated clay bricks Hlz 250x380x235	≥1.0	6	0,15	0,6
Lightweight aggregate concrete, LAC 4	>10	4	h _{ef} > 30 mm: 0,15	0,5
EN 1520:2011-06 / EN 771-3:2011	≥1.0	4	h _{ef} ≥ 50 mm: 0,30	1,1
Lightweight aggregate concrete, LAC 6 EN 1520:2011-06 / EN 771-3:2011	≥1.0	6	h _{ef} > 30 mm: 0,15 h _{ef} ≥ 50 mm: 0,40	0,5
		G 22	h _{ef} > 30 mm: 0.40	0.5
Autoclaved aerated concrete, PP4-05 DIN V 4165-100:2005-10 / EN 771-4:2011	≥0.5	4	h _{ef} ≥ 50 mm: 0,25	0,7

ThermoScrew TS U8 Gecko	
Performances Displacements	Annex C 2