



EKSPLOATACINIŲ SAVYBIŲ DEKLARACIJA

Dop Nr. KEW - 1109-CPD-1010-1 - lt

1. Unikalus gaminio tipo identifikacijos kodas: ThermoScrew TS U8 Gecko
2. Statybos produkto tipas, partija, serijos numeris ar kitoks jį identifikuojantis elementas pagal 11(4) str.:

ETA-16/0100 A3 priedas
Partijos numeris: žr. ant pakuotės

3. Statybų produkto paskirtis arba paskirtys pagal taikomas mastu suderinta technines specifikacijas, kaip tai yra numatyta gamintojo:

bendrasis tipas	Įsuktas plastikinis inkaras, skirtas išorinėms šilumos izoliacijos kompozitinėms sistemos su tinko sluoksniu tvirtinti
skirtas naudoti	ETA-16/0100 B1 priedas
variantas / kategorija	ETA-16/0100 B1 priedas
sudėjimas	ETA-16/0100 B1 priedas
medžiaga	ETA-16/0100 A4 priedas
temperatūrų diapazonas	ETA-16/0100 B1 priedas

4. Gamintojo pavadinimas, registruotasis prekės ženklas arba registruotasis prekės ženklas ir kontaktinis adresas pagal 11(5) str.:

KEW Kunststoffzeugnisse GmbH Wilthen
Dresdener Straße 19
02681 Wilthen
Vokietija

5. Įgaliotojo atstovo, kurio turimas įgaliojimas apima tikslus, išvardintus 12(2) sk., vardas, pavardė ir kontaktinis adresas (jei taikoma):

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6. Statybų gaminio eksploatacinių savybių pastovumo vertinimo ir patvirtinimo sistema (-os), kaip nurodyta V priede:

2+ sistema

7. Jei statybos produktui, kuriam galioja suderintas standartas, yra išduota eksploatacinių savybių deklaracija:

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8. Jei statybos produktui, kuriam atliktas Europos techninis įvertinimas, yra išduota eksploatacinių savybių deklaracija:

yra išduota: DIBt Deutsches Institut für Bautechnik

koku pagrindu: ETA-16/0100 uz 05.04.2016

Notifikuotoji įstaiga: ETAG 014, 2011 m. vasario mėn. Redakcija

1109-CPD veikta 2+ sistema

- i) pradinis gamyklos patikrinimas ir gamyklos produkcijos kontrolė
- ii) nuolatinis gamyklos gamybos kontrolės stebėjimas, vertinimas ir patvirtinimas.

ir rodoma: 1109-CPD-1010-1

9. Deklaruotos eksploatacinės savybės:

Esminės charakteristikos	Dizaino metodas	Veikimas	Suderintos techninės specifikacijos
		Elektriniu būdu galvanizuotas plienas	
Būdingoji varža	ETAG 014	ETA-16/0100 C1 priedas	ETAG 014
Minimalus atstumas nuo krašto ir inkarų tvirtinimo tarpai	ETAG 014	ETA-16/0100 B2 priedas	
Poslinkis	ETAG 014	ETA-16/0100 C2 priedas	

Jei taikomos Specifinės techninės dokumentacijos 37 ar 38 str. nuostatos, kurių reikalavimus atitinka produktas:

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10. Produkto eksploatacinės savybės, nurodytos 1 ir 2 punkte, atitinka nurodytąsias eksploatacines savybes 9 punkte.

Ši atitikties deklaracija išduota išimtinai 4 punkte nurodyto gamintojo atsakomybe.

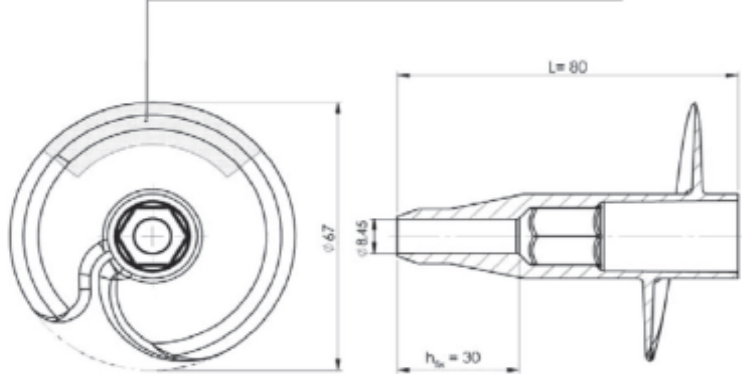
Pasirašyta už gamintoją ir jo vardu:

André Gerjan
(generalinis pardavimų ir rinkodaros direktorius)
Wilthen, 20.04.2018



Screw plate ThermoScrew TS U8 Gecko

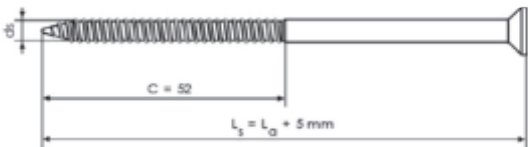
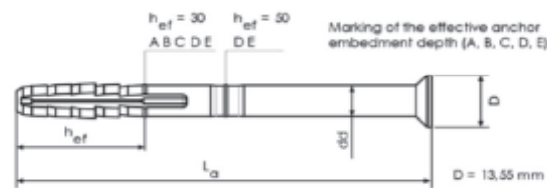
Labeling
Manufacturer: KSW
Product name: TS U8 Gecko
Use categories: A, B, C, D, E
Colors: red, white, green, yellow, orange, blue, black, grey



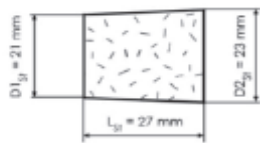
Anchor sleeve TSBD WSG with special screw (ETA-08/0314)

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

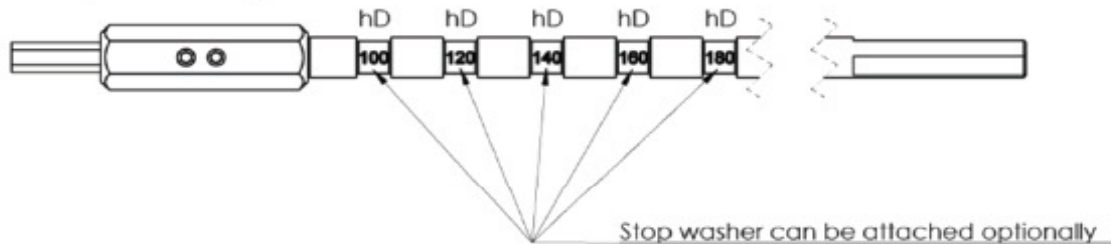
Anchor type	Anchor sleeve			Special screw		
	d _d [mm]	L _a [mm]	h _{ef} [mm]	d _s [mm]	c [mm]	L _s [mm]
TSBD WSG Use category (A-B-C-D-E)	8	100 - 250	30	5,5	52	L _a + 5mm
TSBD WSG Use category (D-E)	8	100 - 250	50	5,5	52	L _a + 5mm

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

Table A2: Materials

Element	Material
Screw plate	polyamide PA 6.6, colour: red, white, green, yellow, orange, blue, black, grey
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



Stop washer



ThermoScrew TS U8 Gecko

Product description
Dimensions, materials, setting tool

Annex A 4

Specifications of intended use

Anchorage 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 OLD RENDER

Anchor type		TSBD WSG
Use categories		A-B-C-D-E
Drill hole diameter	$d_0 =$ [mm]	8
Cutting diameter of drill bit	$d_{cut} \leq$ [mm]	8,45
Effective anchor embedment depth	$h_{ef} =$ [mm]	30
Thickness of equalizing layer	$t_{col} \leq$ [mm]	40 – 190
Position of screw plate	$t_{fix} \leq$ [mm]	30
Depth of drilled hole to deepest point ¹⁾	$h_1 \geq$ [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

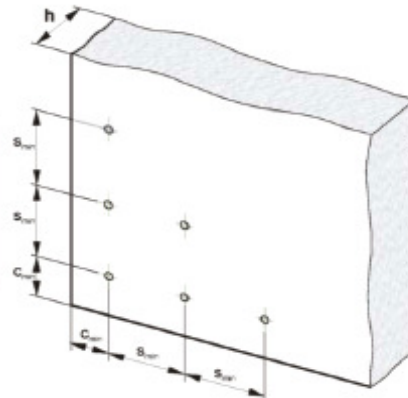
Anchor type		TSBD WSG	
Use categories		A-B-C-D-E	D-E
Drill hole diameter	$d_0 =$ [mm]	8	8
Cutting diameter of drill bit	$d_{cut} \leq$ [mm]	8,45	8,45
Effective anchorage depth	$h_{ef} =$ [mm]	30	50
Thickness of equalizing layer	$t_{col} \leq$ [mm]	20	
Position of screw plate	$t_{fix} \leq$ [mm]	50	30
Depth of drilled hole to deepest point ¹⁾	$h_1 \geq$ [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⁾ $h_1 = h_{ef} + t_{col} + 10$ mm

²⁾ $L_a = h_{ef} + t_{col} + t_{fix}$

Table B3: Scheme of distances and spacing

		TSBD WSG
Minimum thickness of the base material	$h \geq$ [mm]	100
Minimum allowable spacing	$s_{min} =$ [mm]	100
Minimum allowable edge distance	$c_{min} =$ [mm]	100



ThermoScrew TS U8 Gecko

Intended use
Installation parameters
Distance and dimensions of the base material

Annex B 2

Table C1: Characteristic resistance to tension loads N_{Rk} in [kN] for each single anchor

Base material	Bulk density class ρ [kg/dm ³]	Minimum compressive strength f_b [N/mm ²]	Remarks	Drill method	N_{Rk} [kN]
Concrete C12/15 EN 206-1:2000				Hammer drilling	1,5
Concrete C16/20 – C50/60 EN 206-1:2000					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 Hlz 250x380x235	≥ 1.0	6	According to Annex C 3		0,5
Lightweight aggregate concrete, LAC 4 e.g. acc. to EN 1520:2011-06 / EN 771-3:2011	≥ 1.0	4	$h_{ef} \geq 30$ mm	Hammer drilling	0,4
			$h_{ef} \geq 50$ mm		0,9
Lightweight aggregate concrete , LAC 6 e.g. acc. to EN 1520:2011-06 / EN 771-3:2011	≥ 1.0	6	$h_{ef} \geq 30$ mm		0,5
			$h_{ef} \geq 50$ mm		1,2
Autoclaved aerated concrete, PP4-05 e.g. acc. to DIN V 4165-100:2005-10 / EN 771-4:2011	≥ 0.5	4	$h_{ef} \geq 30$ mm	Rotary drilling	0,3
			$h_{ef} \geq 50$ mm		0,75

ThermoScrew TS U8 Gecko
Performances

Characteristic resistance of the anchor

Annex C 1

Table C2: Displacements

Base material	Bulk density class ρ [kg/dm ³]	Minimum compressive strength f_b [N/mm ²]	Tension load N [kN]	Displacements $\delta_m(N)$ [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 EN 1520:2011-06 / EN 771-3:2011	≥ 1.0	4	$h_{ef} > 30 \text{ mm}$: 0,15	0,5
			$h_{ef} \geq 50 \text{ mm}$: 0,30	1,1
Lightweight aggregate concrete, LAC 6 EN 1520:2011-06 / EN 771-3:2011	≥ 1.0	6	$h_{ef} > 30 \text{ mm}$: 0,15	0,5
			$h_{ef} \geq 50 \text{ mm}$: 0,40	1,3
Autoclaved aerated concrete, PP4-05 DIN V 4165-100:2005-10 / EN 771-4:2011	≥ 0.5	4	$h_{ef} > 30 \text{ mm}$: 0,10	0,5
			$h_{ef} \geq 50 \text{ mm}$: 0,25	0,7

ThermoScrew TS U8 Gecko
Performances
Displacements

Annex C 2