



TELJESÍTMÉNY-NYILATKOZAT

DoP Nr. KEW - 2323-CPR-0037 - hu

1. A termék egyértelmű neve, kódja: Szigetelésrögzítő dübel acél szöggel TSD-V / TSD-V WS
2. Típus-, gyártási -, szériaszám, vagy más jelölés a termék egyértelmű azonosítására a 11. cikk 4. bekezdése szerint:
ETA-09/0184 melléklet A2
Gyártási szám: lásd csomagolás
3. Az építési termék gyártó által megadott felhasználása(i) a műszaki specifikáció alapján

Terméktípus	Szigetelésrögzítő dübel acél szöggel vakolt külső hőszigetelő rendszerek rögzítésére.
A felhasználás helye	ETA-08/0315 melléklet B1
Felhasználási kategória	ETA-08/0315 melléklet B1
Terhelés	ETA-08/0315 melléklet B1
Anyaga	ETA-08/0315 melléklet A4
Hőmérséklet-tartomány	ETA-08/0315 melléklet B1

4. A gyártó neve, bejegyzett kereskedelmi neve és címe a 11. cikk 5. bekezdése alapján:
KEW Kunststoffzeugnisse GmbH Wilthen
Dresdener Straße 19
02681 Wilthen
Germany
5. Az esetleges meghatalmazott neve a 12. cikk 2. bekezdése alapján:
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6. Az építési termék teljesítményének vizsgálatára és értékelésére alkalmazott rendszer(ek) a V melléklet szerint:
Rendszer 2+
7. A teljesítmény-nyilatkozathoz használt harmonizált szabvány:
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8.

A teljesítmény-nyilatkozat alapjául szolgáló tanúsítvány kibocsájtója:

DIBt Deutsches Institut für Bautechnik

Tanúsítvány:

ETA-08/0315

-tól

15.05.2019

A vizsgálati eljárás alapja:

ETAG 014 változat 2011

A tanúsítványt kiadó szerv

2323-CPR

a

Rendszer 2+

szerint feladatként határozta meg:

- i) A gyártó üzem és az üzemi gyártásellenőrzés megismerése;
- ii) Folyamatos ellenőrzés, az üzemi gyártásellenőrzés véleményezése, minősítése.

és az alábbi adta ki:

2323-CPR-0037

9. Tanúsított teljesítmény:

Fontos ismertetőjegyek	Mérési módszer	Teljesítmény		Harmonizált műszaki specifikáció
		Acél, horganyzott	Rozsdamentes acél A4	
Jellemző kihúzó értékek	ETAG 014mint EAD	ETA-08/0315 melléklet C1	ETA-08/0315 melléklet C1	ETAG 014mint EAD
Minimális tengely- és peremtávolságok	ETAG 014mint EAD	ETA-08/0315 melléklet B2	ETA-08/0315 melléklet B2	
Elmozdulás a használat során	ETAG 014mint EAD	ETA-08/0315 melléklet C2	ETA-08/0315 melléklet C2	
Tányérmerevség	ETAG 014mint EAD	ETA-08/0315 melléklet C2	ETA-08/0315 melléklet C2	

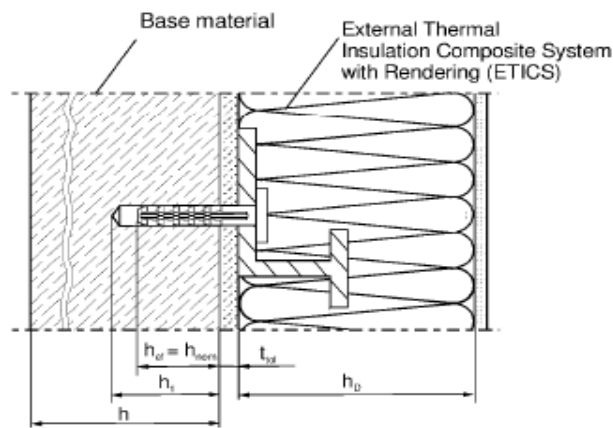
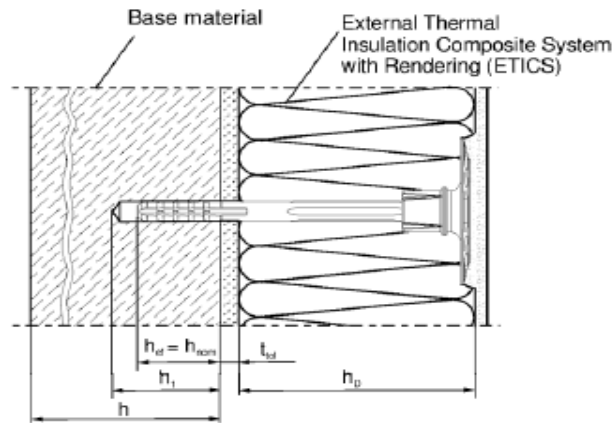
Ha a 37. vagy 38. cikk szerint a vizsgálathoz különleges műszaki specifikációt használtak, követelmények, amelyeknek a termék megfelel:

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10. A termék teljesítménye az 1. és 2. pont szerint megfelel a 9. pontban leírtaknak. Ezen a teljesítmény-nyilatkozat kiadásáért egyedül a 4. pontban megadott gyártó felelős. A gyártó nevében aláírja:


André Gedjan
 (Kereskedelmi - és marketing igazgató)
 Wilthen, 13.06.2019





Legend

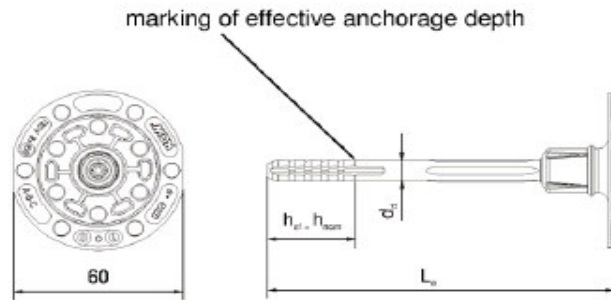
- h_{ef} = effective anchorage depth
- h_1 = depth of drill hole to deepest point
- h = thickness of base material (wall)
- h_D = thickness of insulation material
- t_{ol} = thickness of equalizing layer or non-load bearing coating

Insulation support – metal nail KEW TSD-V and KEW TSD-V WS

Product description
Installed condition

Annex A 1

TSD-V 8



Marking

Company logo – (KEW®)
 Anchor type – (TSD-V)
 diameter – (ø8)
 Length of anchor – (e.g. 160)

Special nail with special head



Table A1: Dimensions TSD-V

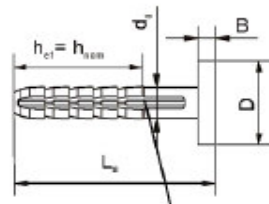
Anchor type	Anchor sleeve				Special nail		
	L _a min [mm]	L _a max [mm]	d _d [mm]	h _{ef} [mm]	d _s [mm]	c [mm]	l _s [mm]
KEW - TSD-V	100	300	8	30	4,0	35	L_a + 4mm
Determination of max. Thickness of insulation [mm]: $h_{Dmax} = L_a - h_{ef} - t_{tol}$							
e.g.:	L_a = 160		h_{ef} = 30		t_{tol} = 10		
TSD-V 8x160	thickness of insulation material h_{D max.} = 120						

Insulation support – metal nail KEW TSD-V and KEW TSD-V WS

Product description
 Marking and dimensions of the anchor sleeve
 spreading element / special nail

Annex A 2

TSD-V WS



$B \geq 2,5\text{mm}$
 $D \geq 16\text{mm}$

marking of effective anchorage depth

Special nail

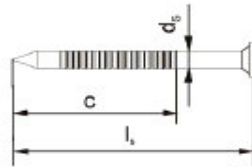


Table A2: Dimensions TSD-V WS

Anchor type	Anchor sleeve				Special nail		
	L_a min [mm]	L_a max [mm]	d_d [mm]	h_{eff} [mm]	d_s [mm]	c [mm]	l_s [mm]
KEW - TSD-V WS	50	250	8	30	4,0	35	$L_a + 4\text{mm}$

Insulation support – metal nail KEW TSD-V and KEW TSD-V WS

Product description
 Marking and dimensions of the anchor sleeve
 spreading element / special nail

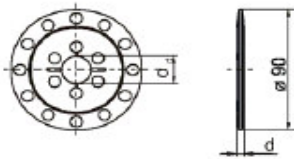
Annex A 3

Table A3: Materials

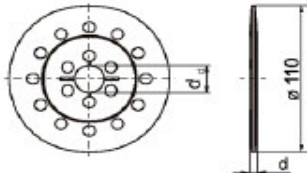
Member	Material
Anchor sleeve	Polypropylen, colour: papyrus white
Special nail	Steel, galvanized A2L or A2K according to EN ISO 4042:2001-01 $f_{yk} \geq 480 \text{ N/mm}^2$; $f_{tk} \geq 600 \text{ N/mm}^2$
	Stainless steel; mat.No. 1.4401 – 1.4571 according to EN ISO 3506:2010-04 $f_{yk} \geq 450 \text{ N/mm}^2$; $f_{tk} \geq 700 \text{ N/mm}^2$

Table A4: Insulation discs, diameters and material

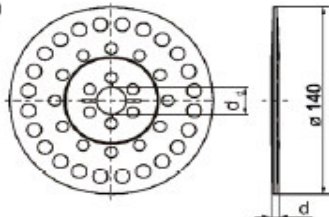
DSB 90



DSB 110



DSB 140



Insulation discs	$\varnothing D$ [mm]	$\varnothing d_i$ [mm]	d [mm]	Material
DSB 90	90	20	5	PA 6, PP
DSB 110	110	20	5	PA 6, PP
DSB 140	140	20	5	PA 6, PP

Insulation support – metal nail KEW TSD-V and KEW TSD-V WS

Product description

Materials

Additional plates in combination with KEW TSD-V

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 C1.
- Solid masonry (use category B), according to Annex C1.
- Hollow or perforated masonry (use category C), according to Annex C1.
- For other base materials of the use categories A, B or C 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 C1.
- 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

Insulation support – metal nail KEW TSD-V and KEW TSD-V WS

Intended Use
Specifications

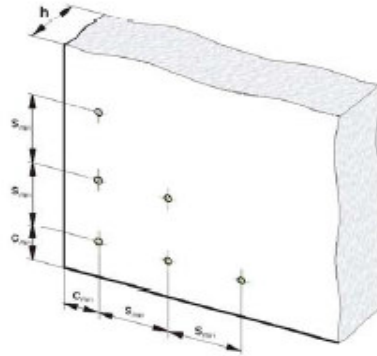
Annex B 1

Table B1: Installation parameters

Anchor type		KEW- TSD-V
Drill hole diameter	$d_0 =$ [mm]	8
Cutting diameter of drill bit	$d_{cut} \leq$ [mm]	8,45
Depth of drilled hole to deepest point	$h_1 \geq$ [mm]	40
Effective anchorage depth	$h_{ef} =$ [mm]	30

Table B2: Anchor distances and dimensions of members

		KEW- TSD-V
Thickness of member	$h \geq$ [mm]	100
Minimum allowable spacing	$s_{min} =$ [mm]	100
Minimum allowable edge distance	$c_{min} =$ [mm]	100

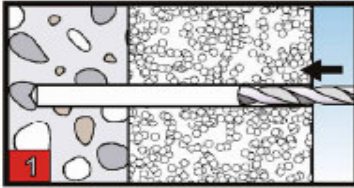


Insulation support – metal nail KEW TSD-V and KEW TSD-V WS

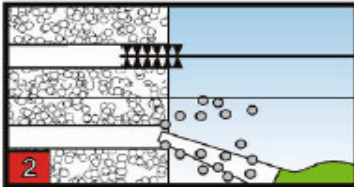
Intended Use
 Installation parameters,
 Anchor distances and dimensions of members

Annex B 2

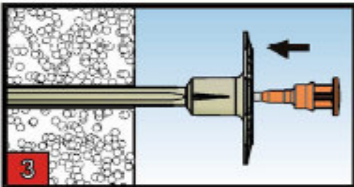
Installation instructions



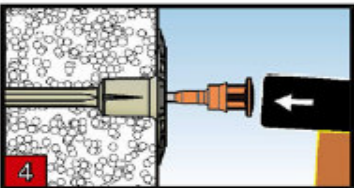
Create a hole about observation of the drill method according Annex C 1



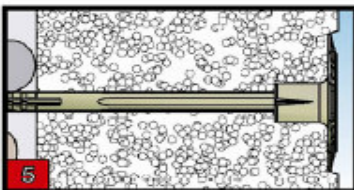
Holes to be cleaned of drilling dust.



Insert the anchor into the hole until the plate rests on the insulation.



Hammer in the Nail with a matching hammer



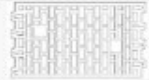
Mounted

Insulation support – metal nail KEW TSD-V and KEW TSD-V WS

Intended Use
Installation instructions

Annex B 3

Table C1: Characteristic resistance N_{Rk} in concrete and masonry for a single anchor in kN

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	1,2
Concrete C16/20 – C50/60			EN 206-1:2000	Hammer drilling	1,5
Sand-lime solid bricks, KS e.g. acc. to DIN V106:2005-10/ EN 771-2:2011	≥ 1.8	12	Vertically perforation up to 15%	Hammer drilling	1,5
Clay bricks, Mz e.g. acc. to DIN 105-100:2012-01/ EN 771-1:2011	≥ 1.7	12	Vertically perforation up to 15%	Hammer drilling	1,5
Vertically perforated clay bricks, HLz e.g. acc. to DIN 105-100:2012-01/ EN 771-1:2011 with 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 KS L, e.g. acc. to DIN V106:2005-10/ EN 771-2:2011 with outer web thickness ≥ 20 mm	≥ 1.4	12	Vertically perforation more than 15%	Rotary drilling	1,2
Lightweight concrete hollow blocks e.g. acc. to DIN V 18151-100:2005-10/ EN 771-3:2011 1K Hbl 2-0.8-12, 495 x 175 x 248	≥ 0.8	2	according to Annex C 3	Rotary drilling	0,6
Vertically perforated clay bricks e.g. acc. to ÖNORM B6124:2013-12-15 with outer web thickness ≥ 10 mm	≥ 0.9	12		Rotary drilling	0,75
Lightweight concrete solid blocks, Vbl 2 e.g. acc. to DIN V 18152-100:2005-10	≥ 0.8	2	according to Annex C 3	Hammer drilling	0,6

Insulation support – metal nail KEW TSD-V and KEW TSD-V WS

Performances

Characteristic bending resistance of the anchor

Annex C 1

Table C2: Plate stiffness according to EOTA Technical Report TR 026:2007-06

Anchor type	Diameter of anchor plates [mm]	Load resistance of anchor plates [kN]	Plate stiffness [kN/mm]
KEW – TSD-V	60	1,75	1,24

Table C3: Displacements

Base material	Bulk-density-class ρ [kg/dm ³]	Minimum compressive strength f_b [N/mm ²]	Tension load N [kN]	Displacements $\delta_m(\mathbf{N})$ [mm]
Concrete C12/15 EN 206-1:2000			0,4	0,2
Concrete C16/20 – C50/60 EN 206-1:2000			0,5	0,2
Sand-lime solid bricks, KS e.g. acc. to DIN V106:2005-10/ EN 771-2:2011	≥ 1.8	12	0,5	0,3
Clay bricks, Mz e.g. acc. to DIN 105-100:2012-01/ EN 771-1:2011	≥ 1.7	12	0,5	0,3
Vertically perforated clay bricks, HLz e.g. acc. to DIN 105-100:2012-01/ EN 771-1:2011 with outer web thickness ≥ 12 mm	≥ 1.0	12	0,3	0,1
Vertically perforated sand-lime bricks KS L, e.g. acc. to DIN V106:2005-10/ EN 771-2:2011 with outer web thickness ≥ 20 mm	≥ 1.4	12	0,4	0,3
Lightweight concrete hollow blocks e.g. acc. to DIN V 18151-100:2005-10/ EN 771-3:2011 1K Hbl 2-0.8-12, 495 x 175 x 248	≥ 0.8	2	0,2	0,2
Vertically perforated clay bricks e.g. acc. to ÖNORM B6124:2013-12-15 with outer web thickness ≥ 10 mm	≥ 0.9	12	0,25	0,1
Lightweight concrete solid blocks, Vbl 2 e.g. acc. to DIN V 18152-100:2005-10	≥ 0.8	2	0,2	0,1

Insulation support – metal nail KEW TSD-V and KEW TSD-V WS

Performances
Plate stiffness and displacements

Annex C 2

Table C4: Assignment type of anchor for lightweight concrete hollow blocks according to DIN V 18151-100:2005-10


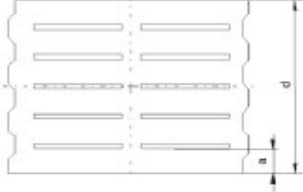
Geometry	Thickness of brick d [mm]	Outer web in longitudinal direction a [mm]
	175	50
The anchor shall be placed in a way the spreading part is anchored in the web of the brick		

Table C5: Geometry of lightweight concrete solid blocks according to DIN 18152-100:2005-10

Geometry	Thickness of brick d [mm]	Outer web in longitudinal direction a [mm]
	248 300 370	≥43

Insulation support – metal nail KEW TSD-V and KEW TSD-V WS

Performances

Geometry and dimensions of hollow or perforated brick

Annex C 3