EKSPLUATĀCIJAS ĪPAŠĪBU DEKLARĀCIJA

DoP Nr. KEW - 1109-CPR-2004 **- lv**

1. Produkta tipa unikālais identifikācijas kods: Ar āmuru iedzenams stiprinājums TSDL-V / TSD-V WS

2. Tipa, partijas vai sērijas numurs vai jebkurš cits elements, kas ļauj identificēt būvizstrādājumu, kā to pieprasa 11(4) pants:

   ETA-12/0148 pielikums A2/A3
   Partijas numurs: skatīt uz iepakojuma

3. Būvizstrādājuma paredzētais pielietojums saskaņā ar piemērojamo harmonizēto tehnisko specifikāciju, kā to paredzējis ražotājs:

vispārējs tips	Iedzenams plastmasas enkurs ārējās siltumizolācijas kompozīta sistēmu ar apmetumu stiprināšanai
paredzēts lietošanai	ETA-12/0148 pielikums B1
iespēja / kategorija	ETA-12/0148 pielikums B1
ielādēšana	ETA-12/0148 pielikums B1
materiāls	ETA-12/0148 pielikums A4
temperatūras diapazons	ETA-12/0148 pielikums B1

4. Nosaukums, reģistrētais nosaukums vai reģistrētas tirdzniecības zīmes nosaukums un ražotāja kontaktadrese, kā to pieprasa 11(5). pants.

   KEW Kunststofferzeugnisse GmbH Wilthen
   Dresdener Straße 19
   02681 Wilthen
   Vācija

5. Ja piemēro, autorizētā pārstāvja, kas ir pilnvarots veikt 12(2) pantā norādītos uzdevumus, nosaukums un kontaktadrese:

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6. Būvizstrādājuma īpašību nemainīguma novērtēšanas un verifikācijas sistēma vai sistēmas, kā norādīts V pielikumā:

   Sistēma 2+

7. Ekspluatācijas īpašību deklarācijas attiecībā uz būvizstrādājumu, uz ko attiecas harmonizētais standarts, gadījumā:

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8. Ekspluatācijas īpašību deklarācijas, kas attiecas uz būvizstrādājumu, kam izsniegts Eiropas tehniskais novērtējums, gadījumā:

yra išduota: DIBt Deutsches Institut für Bautechnik

kokiu pagrindu: ETA-12/0148 uz 22.03.2017

pamatojoties uz: EAD 330335-00-0604

1109-CPR izpildīja Sistēma 2+

i) sākotnējā ražotnes apskate un ražošanas procesa kontrole
ii) nepārtraukta ražošanas procesa kontroles uzraudzība, novērtēšana un apstiprināšana

Paziņotā iestāde 1109-CPR-2004

9. Deklarētās īpašības:

Būtiskie raksturlielumi	**Projektēšanas metode**	**Ekspluatācijas īpašības**		**Harmonizētā tehniskā specifikācija**
		Elektrolītiski cinkots tērauds	**nerūsējošais tērauds**	
Raksturīgā noturība	EAD 330335-00-0604	ETA-12/014 pielikums C1	ETA-12/014 pielikums C1	EAD 330335-00-0604
Minimālais šķautnes attālums un enkuru savstarpējais attālums	EAD 330335-00-0604	ETA-12/014 pielikums B2	ETA-12/014 pielikums B2	
Nobīdes īpašības	EAD 330335-00-0604	ETA-12/014 pielikums C2	ETA-12/014 pielikums C2	
Spot siltuma caurlaidība ar	EAD 330335-00-0604	ETA-12/014 pielikums C2	ETA-12/014 pielikums C2	
Plātnes stingrība saskaņā ar	EAD 330335-00-0604	ETA-12/014 pielikums C2	ETA-12/014 pielikums C2	

Ja izmanto 37. vai 38. pantā norādīto speciālo tehnisko dokumentāciju – prasības, kurām atbilst produkts: --

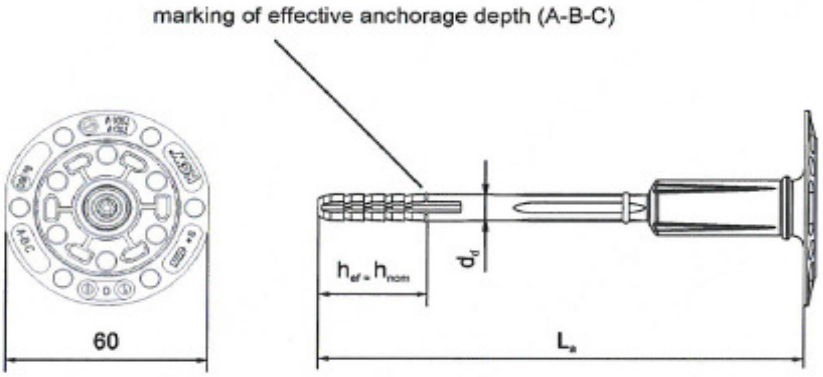
10. Produkta, kas identificēts 1. un 2. punktā, īpašības atbilst 9. punktā deklarētajām īpašībām.

Šī ekspluatācijas īpašības deklarācija ir izdota ar pilnu ražotāja, kas identificēts 4. punktā, atbildību.

Ražotāja vārdā parakstīja:

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

TSDL-V



Marking

Company logo – (KEW®)
Anchor type – (TSDL-V)
Diameter of drill hole – (ø8)
Length of anchor – (e.g. 160)

Special nail with special head

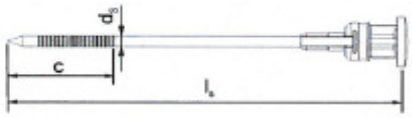
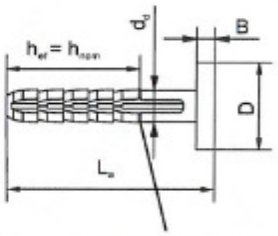


Table A1: Dimensions TSDL-V

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 - TSDL-V	**120**	**300**	**8**	**30**	**4,0**	**35**	**L_a + 4mm**
Determination of max. Thinkness of insulation [mm]: $h_{Dmax} = L_a - h_{ef} - t_{tol}$							
e.g.: TSDL-V 8x160	**L_a= 160**		**h_{ef}= 30**		**t_{tol}= 10**		
	thickness of insulation material **$h_{D\,max.}$ = 120**						

Insulation support – metal nail KEW TSDL-V and KEW TSD-V WS	**Annex A 2**
Product description Marking and dimensions of the anchor sleeve TSDL-V spreading element / special nail	

TSD-V WS



B ≥ 2,5mm
D ≥ 16mm

marking of effective anchorage depth

Special nail

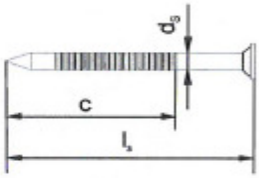


Table A2: Dimensions TSD-V WS

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

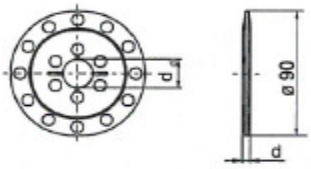
Insulation support – metal nail KEW TSDL-V and KEW TSD-V WS	**Annex A 3**
Produktbeschreibung Marking and dimensions of the anchor sleeve TSD-V WS spreading element / special nail	

Table A3: Materials

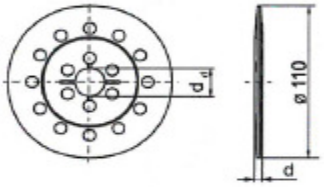
Member	Material
Anchor sleeve	Polypropylen, colour: papyrus white
Special nail	Steel, galvanized A2L or A2K according to EN ISO 4042:2001
	Stainless steel; mat.No. 1.4401, 1.4571 according to EN ISO 3506:2010

Table A4: Insulation discs, diameters and material

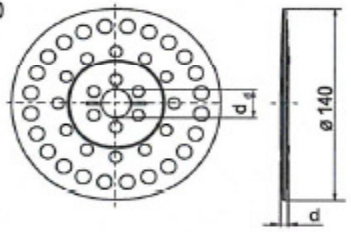
DSB 90



DSB 110



DSB 140



Insulation discs	Ø D [mm]	Ø d_d [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 TSDL-V and KEW TSD-V WS	**Annex A 4**
Product description Materials Additional plates in combination with KEW TSDL-V	

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 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 EOTA Technical Report TR 051 edition December 2016.

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 EAD 330335-00-0604 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

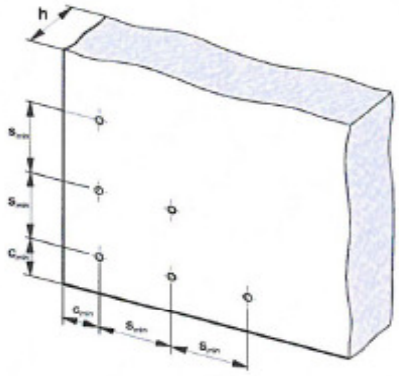
Insulation support – metal nail KEW TSDL-V and KEW TSD-V WS	**Annex B 1**
Intended use Specifications	

Table B1: Installation parameters

Anchor type			KEW- TSDL-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

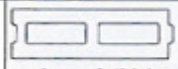
Table B2: Anchor distances and dimensions of members

			KEW- TSDL-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 TSDL-V and KEW TSD-V WS	Annex B 2
Intended use Installation parameters, Anchor distances and dimensions of members	

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

Base material	Bulk density ρ [kg/dm³]	Minimum Compressive strength f_b [N/mm²]	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 EN 771-2:2011	≥1.8	12	Vertically perforation up to 15%	Hammer drilling	1,5
Clay bricks, Mz e.g. acc. to EN 771-1:2011	≥1.7	20	Vertically perforation up to 15%	Hammer drilling	1,5
Vertically perforated clay bricks, HLz e.g. acc. to EN 771-1:2011	≥1.0	12	Vertically perforation more than 15% and less than 50% outer web thickness ≥ 12mm	Rotary drilling	0,9
Vertically perforated sand-lime bricks KS L, e.g. acc. to EN 771-2:2011	≥1.4	12	Vertically perforation more than 15% outer web thickness ≥ 22mm	Rotary drilling	1,2
Lightweight concrete hollow blocks, Hbl e.g. acc. to EN 771-3:2011	≥0.8	2	 outer web thickness ≥ 50mm	Rotary drilling	0,6
Vertically perforated clay bricks, HLz e.g. acc. to EN 771-1:2011	≥0.9	12	 outer web thickness ≥ 10mm	Rotary drilling	0,75
Lightweight concrete solid blocks, Vbl e.g. acc. to EN 771-3:2011	≥0.8	2	 outer web thickness ≥ 43mm	Hammer drilling	0,6

Insulation support – metal nail KEW TSDL-V and KEW TSD-V WS	**Annex C 1**
Performances Characteristic resistance of the anchor in concrete and masonry	

Table C2: Displacements

Base material	Bulk-density-class ρ [kg/dm³]	Minimum compressive strength f_b [N/mm²]	Tension load N [kN]	Displacements $\delta_m(N)$ [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 EN 771-2:2011	≥1.8	12	0,5	0,3
Clay bricks, Mz e.g. acc. to EN 771-1:2011	≥1.7	12	0,5	0,3
Vertically perforated clay bricks, HLz e.g. acc. to EN 771-1:2011	≥1.0	12	0,3	0,1
Vertically perforated sand-lime bricks KS L, e.g. acc. to EN 771-2:2011	≥1.4	12	0,4	0,3
Lightweight concrete hollow blocks, Hbl e.g. acc. to EN 771-3:2011	≥0.8	2	0,2	0,2
Vertically perforated clay bricks, HLz e.g. acc. to EN 771-1:2011	≥0.9	12	0,25	0,1
Lightweight concrete solid blocks, Vbl e.g. acc. to EN 771-3:2011	≥0.8	2	0,2	0,1

Table C3: Point thermal transmittance according to EOTA Technical Report TR 025:2007-06

Anchor type	Thickness of insulation h_D [mm]	Point thermal transmittance χ [W/K]
KEW TSDL-V (galvanized steel)	50[1] - 270	0,002
KEW TSDL-V (stainless steel)	50[2] - 270	0,001

[1] for vertically perforated bricks and h_D = 50 mm: χ = 0,001 W/K
[2] for concrete and h_D = 50 mm: χ = 0,002 W/K

Table C4: Plate stiffness according to EOTA Technical Report TR 026:2007-06

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

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

Performances
Displacements, point thermal transmittance, plate stiffness

Annex C 2