



EKSPLUATĀCIJAS ĪPAŠĪBU DEKLARĀCIJA

DoP Nr. KEW - 1109-BPR-2000 - lv

1. Produkta tipa unikālais identifikācijas kods: Ar āmuru iedzenams stiprinājums TSD
2. Tipa, partijas vai sērijas numurs vai jebkurš cits elements, kas ļauj identificēt būvizstrādājumu, kā to pieprasa 11(4) pants:
ETA-04/0030 pielikums A2
Partijas numurs: skatīt uz iepakojuma
3. Būvizstrādājuma paredzētais pielietojums saskaņā ar piemērojamo harmonizēto tehnisko specifikāciju, kā to paredzējis ražotājs:

| | |
|------------------------|--|
| vispārējs tips | ledzenams plastmasas enkurs ārējās siltumizolācijas kompozīta sistēmu ar |
| paredzēts lietošanai | ETA-04/0030 pielikums B1 |
| iespēja / kategorija | ETA-04/0030 pielikums B1 |
| ielādēšana | ETA-04/0030 pielikums B1 |
| materiāls | ETA-04/0030 pielikums A3 |
| temperatūras diapazons | ETA-04/0030 pielikums B1 |

4. Nosaukums, reģistrētais nosaukums vai reģistrētas tirdzniecības zīmes nosaukums un ražotāja kontaktadrese, kā to pieprasa 11(5). pants.
KEW Kunststoffzeugnisse 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 verificācijas sistēma vai sistēmas, kā norādīts V pielikumā:
Sistēma 2+
7. Eksploatācijas īpašību deklarācijas attiecībā uz būvizstrādājumu, uz ko attiecas harmonizētais standarts, gadījumā:
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8. Eksploatācijas īpašību deklarācijas, kas attiecas uz būvizstrādājumu, kam izsniegts Eiropas tehniskais novērtējums, gadījumā:

yra išduota: **DIBt Deutsches Institut für Bautechnik**

koku i pagrindu: **ETA-04/0030** uz **11.09.2014**

pamatojoties uz: **ETAG 014, 2011. gada februāra versija**

1109-BPR izpildīja **Sistēma 2+**

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

Paziņotā iestāde **1109-BPR-2000**

9. Deklarētās īpašības:

| Būtiskie raksturlielumi | Projektēšanas metode | Eksploatācijas īpašības | | Harmonizētā tehniskā specifikācija |
|---|----------------------|--------------------------------|--------------------------|------------------------------------|
| | | Elektrolītiski cinkots tērauds | nerūsējošais tērauds | |
| Raksturīgā noturība | ETAG 014 | ETA-04/0030 pielikums C1 | ETA-04/0030 pielikums C1 | ETAG 014 |
| Minimālais šķautnes attālums un enkuru savstarpējais attālums | ETAG 014 | ETA-04/0030 pielikums B2 | ETA-04/0030 pielikums B2 | |
| Nobīdes īpašības | ETAG 014 | ETA-04/0030 pielikums C3 | ETA-04/0030 pielikums C3 | |
| Spot siltuma caurlaidība ar | ETAG 014 | ETA-04/0030 pielikums C2 | ETA-04/0030 pielikums C2 | |
| Plātnes stingrība saskaņā ar | ETAG 014 | ETA-04/0030 pielikums C2 | ETA-04/0030 pielikums C2 | |

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

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10.

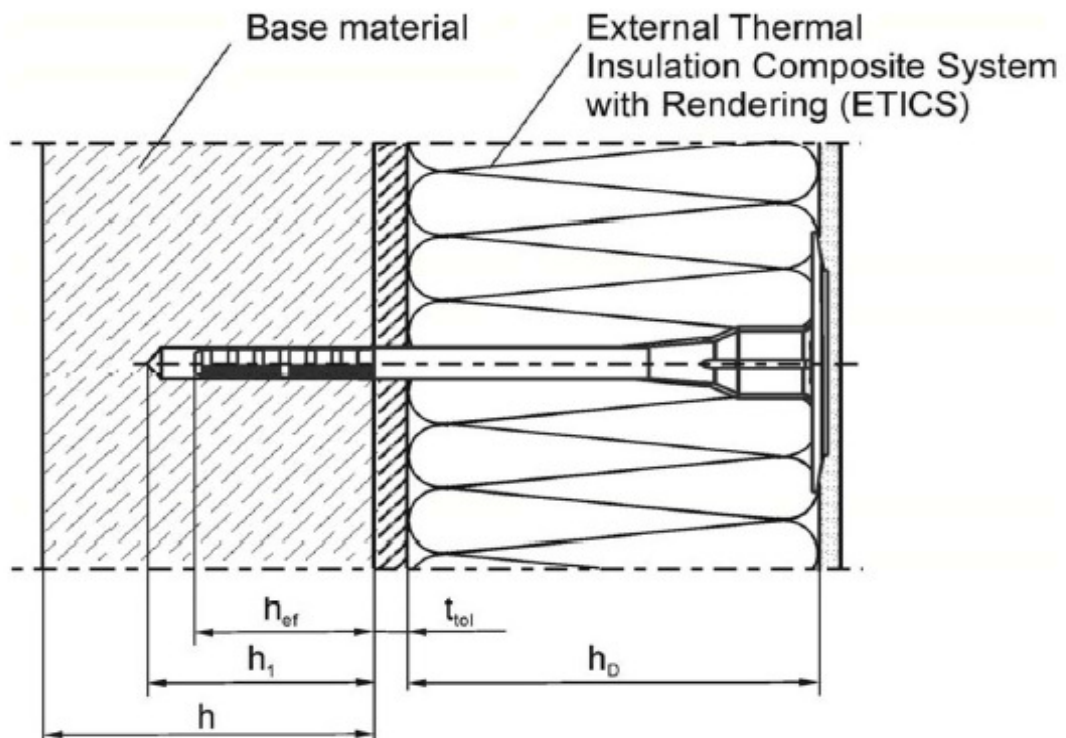
Produkta, kas identificēts 1. un 2. punktā, īpašības atbilst 9. punktā deklarētajām īpašībām.

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

Ražotāja vārdā parakstīja:

André Gedan
(ģenerālis parduvmu ir rinkodaros direktorius)
Witthen, 20.04.2018





Legend

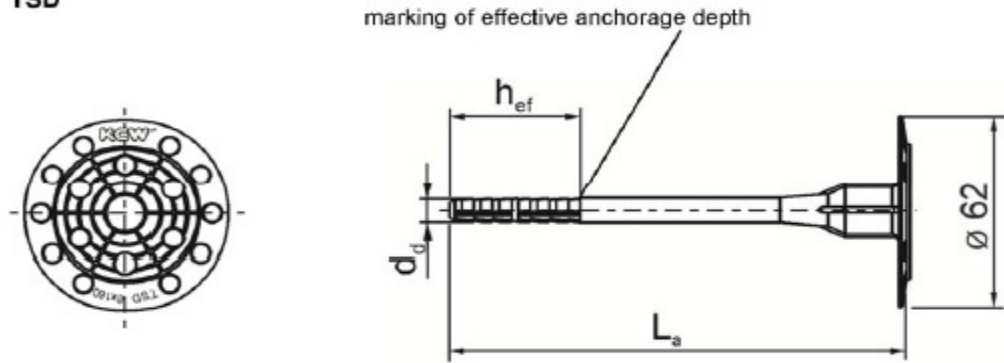
- h_D = thickness of insulation material
- h_{ef} = effective anchorage depth
- h = thickness of member
- h_1 = depth of drilled hole to deepest point
- t_{toi} = thickness of equalizing layer or non-load-bearing coating

Insulation support KEW TSD 8

Product description
Intended use

Annex A 1

TSD



Marking

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

Special nail with special head

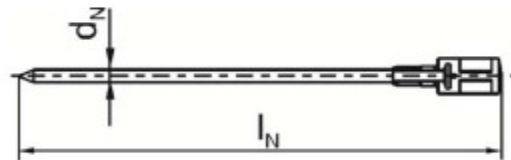


Table A1: Dimensions

| Anchor type | Anchor sleeve | | | | Special nail | |
|--|--|-------------------|---------------|------------------|---------------|--------------------|
| | L_a min [mm] | L_a max [mm] | d_d [mm] | h_{ef} [mm] | d_N [mm] | l_N [mm] |
| KEW - TSD | 80 | 300 | 8 | 40 | 4,2 | $L_a + 4\text{mm}$ |
| Determination of max thickness of insulation[mm]: $h_{D,max} = L_a - h_{ef} - t_{tol}$ | | | | | | |
| e.g.: | $L_a = 160$ | | $h_{ef} = 40$ | | $t_{tol} = 0$ | |
| TSD 8x160 | thickness of insulation material $h_{D,max} = 120$ | | | | | |

Insulation support KEW TSD 8

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

Annex A 2

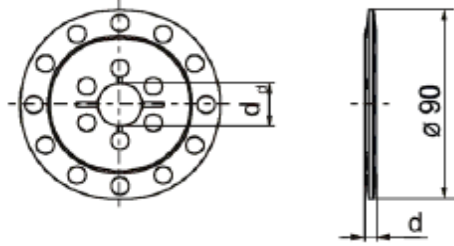
Table A2: Materials

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

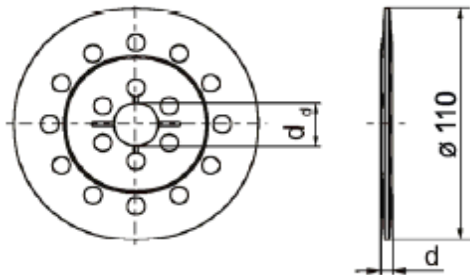
Insulation support KEW TSD 8**Product description**
Materials**Annex A 3**

Table A3: Additional plates, diameter und materials

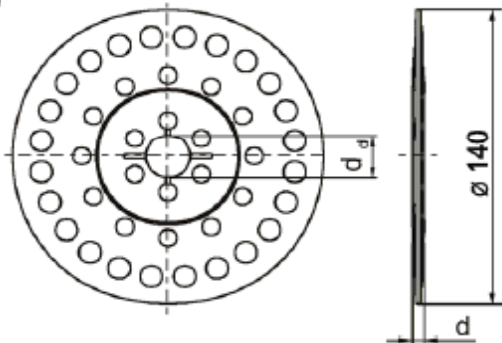
DSB 90



DSB 110



DSB 140



| Insulation discs | Ø D [mm] | Ø d _d [mm] | d [mm] | Materials |
|------------------|----------|-----------------------|--------|-----------|
| 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 KEW TSD 8

Product description
Additional plates in combination with KEW - TSD

Annex A 4

Specifications of intended use

Anchorage subject to:

- The anchors 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.
- Lightweight aggregate concrete (use category D), according to Annex C1.
- For other base materials of the use categories A, B, C or D 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 KEW TSD 8

Intended Use
Specifications

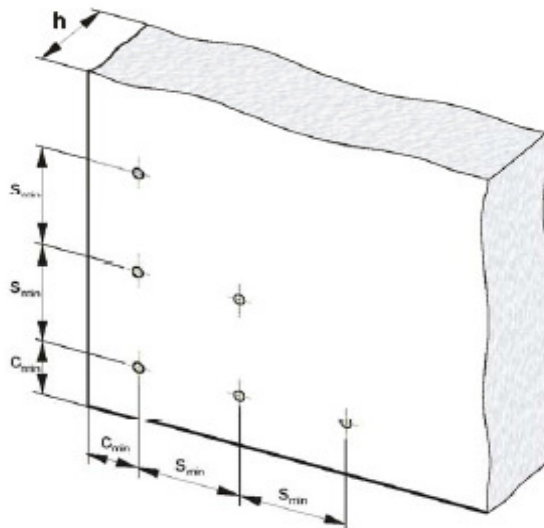
Annex B 1

Table B1: Installation parameters

| Anchor type | | KEW - TSD |
|--|---------------------|-----------|
| 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] | 50 |
| Effective anchorage depth | $h_{ef} =$ [mm] | 40 |

Table B2: Minimum distances and dimensions

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

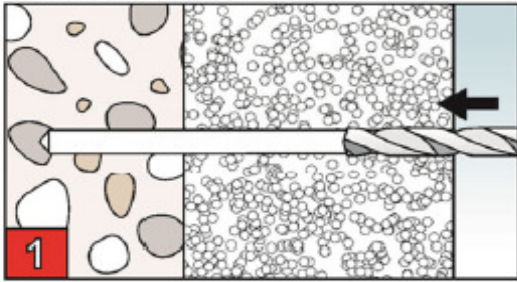


Insulation support KEW TSD 8

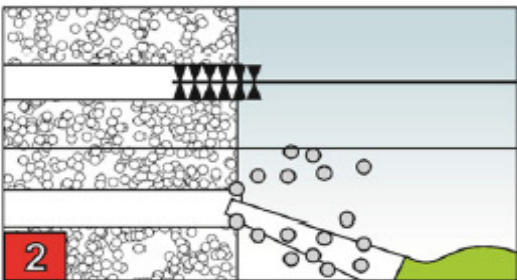
Intended Use
Installation parameters,
Minimum distances and dimensions of members

Annex B 2

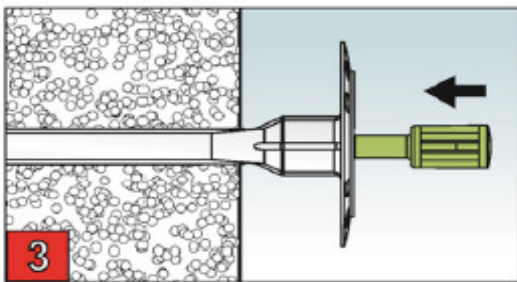
Installation instructions



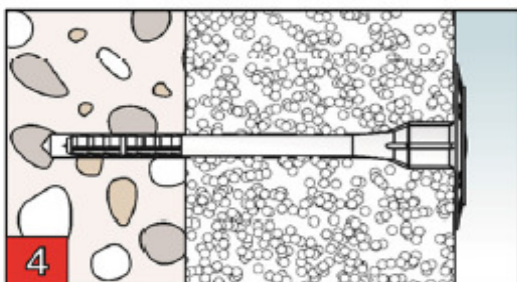
Create a hole about observation of the drill method according Annex C 1



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



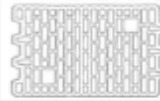
Mounted

Insulation support KEW TSD 8

Intended Use
Installation instructions

Annex B 3

Table C1: Characteristic resistance N_{Rk} in [kN] to tension loads for a 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 | 0,5 |
| Concrete C16/20 - C50/60 | | | EN 206-1:2000 | Hammer drilling | 0,75 |
| Clay bricks, Mz e.g. according to DIN 105-100:2012-01 / EN 771-1:2011 | $\geq 1,8$ | 20 | Vertically perforation up to 15% | Hammer drilling | 0,6 |
| Sand-lime solid bricks (calcium silicate), KS e.g. according to DIN V 106:2005-10 / EN 771-2:2011 | $\geq 1,8$ | 12 | Vertically perforation up to 15% | Hammer drilling | 0,8 |
| Prefabricated reinforced components of lightweight aggregate concrete with open structure according to EN 1520:2011 | $\geq 0,9$ | 4,0 | | Hammer drilling | 0,4 |
| Lightweight concrete solid blocks, V e.g. according to DIN V 18152-100: 2005-10 / EN 771-3:2011 | $\geq 0,9$ | 4,0 | Proportion of handle hole up to 10%, maximum extension of handle hole: length = 110mm; wide = 45mm | Rotary drilling | 0,4 |
| Vertical perforated sand-lime-bricks, KSL e.g. according to DIN V 106:2005-10/ EN 771-2:2011 outer web thickness ≥ 22 mm | $\geq 1,4$ | 12 | Vertically perforation up to 15% | Rotary drilling | 0,4 |
| Vertically perforated clay bricks, HLz e.g. according to DIN 105-100:2012-01 / EN 771-1:2011 outer web thickness ≥ 11 mm | $\geq 1,0$ | 12 | Vertically perforation more than 15% and less than 50% | Rotary drilling | 0,4 |
| Vertically perforated clay bricks, HLz 250mm x 380mm x 235mm outer web thickness ≥ 16 mm | $\geq 0,8$ | 6 |  | Rotary drilling | 0,3 |

Insulation support KEW TSD 8

Performances
Characteristic tension resistance of the anchor

Annex C 1

Table C2: Point thermal transmittance according EOTA Technical Report TR 025:2007-06

| Anchor type | insulation thickness h_D [mm] | point thermal transmittance χ [W/K] |
|--|---------------------------------------|--|
| KEW – TSD with specific nail, galvanized steel | 40 - 260 | 0,002 |
| KEW – TSD with specific nail, stainless steel | 40 - 150 | 0,002 |
| | 150 - 260 | 0,001 |

Table C3: Plate stiffness according EOTA Technical Report TR 026:2007-06

| Anchor type | diameter of the anchor plate [mm] | load resistance of the anchor plate [kN] | plate stiffness [kN/mm] |
|-------------|---|--|----------------------------|
| KEW – TSD | 60 | 1,6 | 0,6 |

Insulation support KEW TSD 8

Performances
Point thermal transmittance
Plate stiffness

Annex C 2

Table C4: Displacements

| Base material | Bulk-density-class | Minimum compressive strength | Tension load | Displacements |
|--|---------------------------------|-------------------------------|--------------|-----------------------|
| | ρ [kg/dm ³] | f_b [N/mm ²] | N [kN] | $\delta_m(N)$ [mm] |
| Concrete C12/15 EN 206-1:2000 | | | 0,16 | 0,3 |
| Concrete C16/20 - C50/60 EN 206-1:2000 | | | 0,25 | 0,3 |
| Clay bricks, Mz e.g. according to DIN 105-100:2012-01/ EN 771-1:2011 | ≥ 1.8 | 20 | 0,20 | 0,2 |
| Sand-lime solid bricks (calcium silicate), KS e.g. according to DIN V 106:2005-10 / EN 771-2:2011 | ≥ 1.8 | 12 | 0,25 | 0,5 |
| Prefabricated reinforced components of lightweight aggregate concrete according to DIN EN 1520:2011 | ≥ 0.9 | 4,0 | 0,13 | 0,4 |
| Lightweight concrete solid blocks, V e.g. according to DIN V 18152-100:2005-10 / EN 771-3:2011 | ≥ 0.9 | 4,0 | 0,13 | 0,4 |
| Vertically perforated sand-lime-bricks, KSL e.g. according to DIN V 106:2005-10/ EN 771-2:2011 outer web thickness ≥ 22 mm | ≥ 1.4 | 12 | 0,13 | 0,13 |
| Vertically perforated clay bricks e.g. according to DIN 105-100:2012-01/ EN 771-1:2011 outer web thickness ≥ 11 mm | ≥ 1.0 | 12 | 0,13 | 0,11 |
| Vertically perforated clay bricks, HLz 250mm x 380mm x 235mm outer web thickness ≥ 16 mm | ≥ 0.8 | 6 | 0,10 | 0,06 |

Insulation support KEW TSD 8**Performances**
Displacements**Annex C 3**