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## European Technical Assessment

**ETA-14/0342  
of 11/09/2014**

### General Part

**Technical Assessment Body issuing the European Technical Assessment**

Instytut Techniki Budowlanej

**Trade name of the construction product**

ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M

**Product family to which the construction product belongs**

Nailed-in plastic anchors for fixing of external thermal insulation composite systems with rendering in concrete and masonry

**Manufacturer**

FRIULSIDER S.p.A  
Via Trieste 1  
I-33048 San Giovanni al Natisone (Udine)  
Italy

**Manufacturing plant(s)**

Manufacturing Plant RO

**This European Technical Assessment contains**

21 pages including 3 Annexes which form an integral part of this assessment

**This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of**

Guideline for European Technical Approval of "Plastic anchors for fixing of external thermal insulation composite systems with rendering", ETAG 014, Edition February 2011 used as European Assessment Document (EAD)

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## Specific Part

### 1 Technical description of the product

The ISOFAST KI-10 nailed-in plastic anchor consists of an anchor sleeve with a plate made of polypropylene and an accompanying specific nail as an expansion pin made of the glass fibre reinforced polypropylene.

The ISOFAST KI-10PA nailed-in plastic anchor consists of anchor sleeve with a plate made of polypropylene and an accompanying specific nail as an expansion pin made of glass fibre reinforced polyamide.

The ISOFAST KI-10M nailed in plastic anchor consists of anchor sleeve with a plate made of polypropylene and an accompanying specific steel nail as an expansion pin.

The plastic anchor sleeve is expanded by hammering a nail, which press the sleeve against the wall of the drilled hole.

The ISOFAST KI-10, ISOFAST KI-10PA and ISOFAST KI-10M anchors may in addition be combined with the plates KWL-90, KWL-110 and KWL-140.

The illustration and the description of the product are given in Annex A.

### 2 Specification of the intended use in accordance with the applicable EAD

The performances given in Annex C are only valid if the anchor is used in compliance with the specifications and conditions given in Annex B.

The provisions made in this European Technical Assessment are based on an assumed working life of the anchor of 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer or Technical Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

### 3 Performance of the product and references to the methods used for its assessment

#### 3.1 Performance of the product

##### 3.1.1 Mechanical resistance and stability (BWR 1)

Requirements with respect to the mechanical resistance and stability of non load bearing parts of the works are not included in this Basic Works Requirements but are under the Basic Works Requirement safety in use (BWR 4).

##### 3.1.2 Hygiene, health and the environment (BWR 3)

In addition to the clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Regulation (EU) No 305/2011, these requirements need also to be complied with, when and where they apply.

### 3.1.3 Safety in use (BWR 4)

Essential characteristic	Performance
Characteristic resistance	Annex C1
Edge distances and spacings	Annex B2
Point thermal transmittance	Annex C2
Plate stiffness	Annex C2
Displacements	Annex C3

### 3.1.4 Sustainable use of natural resources (BWR 7)

No performance determined (NPD).

### 3.2 Methods used for the assessment

The assessment of fitness of the anchor for the declared intended use in relation to the requirements for mechanical resistance and stability and safety in use in the sense of the Basic Requirement 4 has been made in accordance with the ETAG 014 "Plastic anchors for fixing of external thermal insulation composite systems with rendering".

## 4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

According to the Decision 97/463/EC of the European Commission of 27 June 1997 the system of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table applies:

Product	Intended use	Level or class	Attestation of conformity system
Plastic anchor for use in concrete and masonry	For use in systems, such as façade systems, for fixing or supporting elements which contribute to the stability of the systems	–	2+

## 5 Technical details necessary for the implementation of the AVCP system, as provided in the applicable EAD

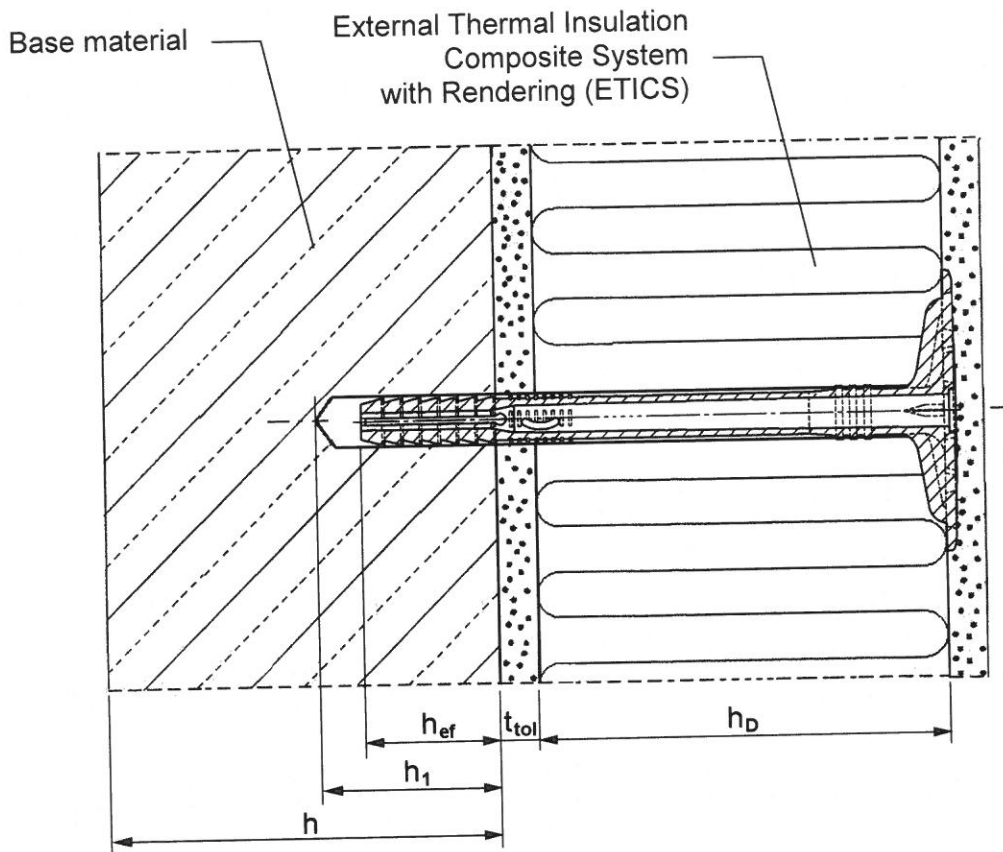
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited in Instytut Techniki Budowlanej.

For type testing the results of the tests performed as part of the assessment for the European Technical Assessment shall be used unless there are changes in the production line or plant. In such cases the necessary type testing has to be agreed between Instytut Techniki Budowlanej and the notified body.

Issued in Warsaw on 11/09/2014 by Instytut Techniki Budowlanej

Michał Wójtowicz  
Head of ITB





**Intended Use**

Fixing of external thermal insulation composite systems in concrete and masonry

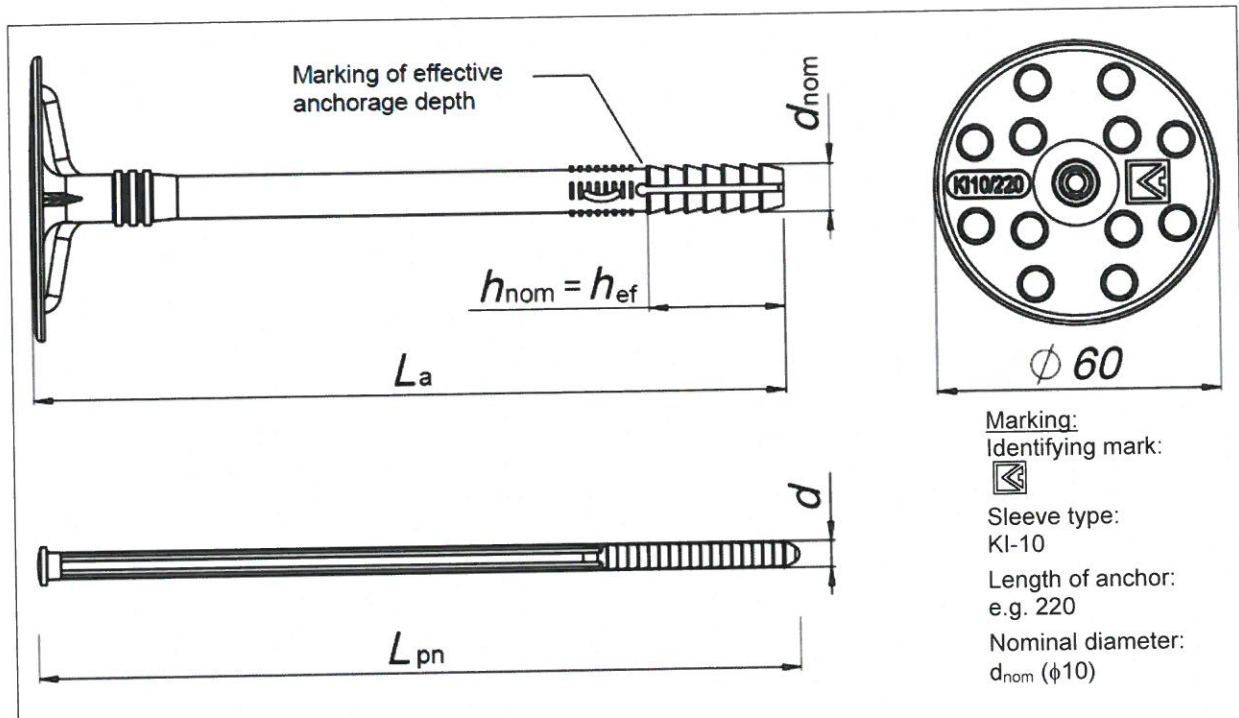
**Legend**

- $h_{ef}$  = effective anchorage depth
- $h_1$  = depth of drill hole in base material
- $h$  = thickness of base material
- $h_D$  = thickness of insulation material
- $t_{tol}$  = thickness of equalizing and/or non-load-bearing layer

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Product description**  
Installation conditions

**Annex A1**  
of European  
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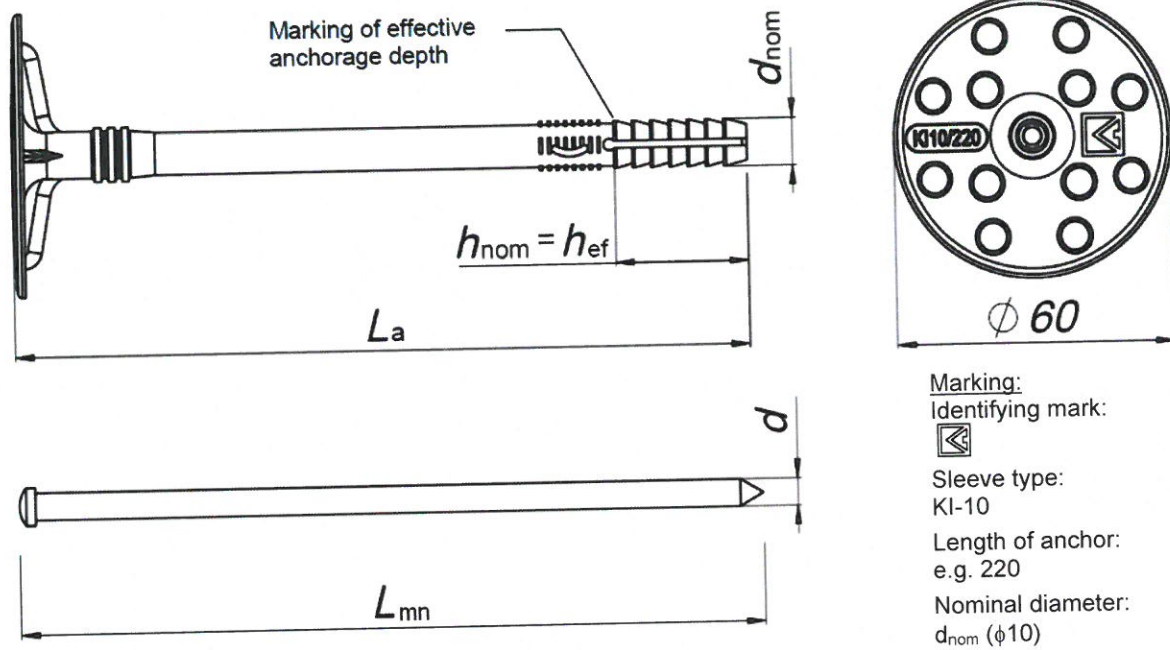


**Table A1: ISOFAST KI-10 and ISOFAST KI-10PA anchor types and dimensions [mm]**

Anchor type	Anchor sleeve			Expansion pin	
	$d_{nom}$	$L_a$	$h_{ef}$	$d$	$L_{pn}$
KI-10/70 or KI-10PA/70	$10_{\pm 0,5}$	$70_{\pm 2}$	25	$6,2_{\pm 0,2}$	$70_{\pm 2}$
KI-10/90 or KI-10PA/90	$10_{\pm 0,5}$	$90_{\pm 2}$	25	$6,2_{\pm 0,2}$	$90_{\pm 2}$
KI-10/120 or KI-10PA/120	$10_{\pm 0,5}$	$120_{\pm 2}$	25	$6,2_{\pm 0,2}$	$120_{\pm 2}$
KI-10/140 or KI-10PA/140	$10_{\pm 0,5}$	$140_{\pm 2}$	25	$6,2_{\pm 0,2}$	$140_{\pm 2}$
KI-10/160 or KI-10PA/160	$10_{\pm 0,5}$	$160_{\pm 2}$	25	$6,2_{\pm 0,2}$	$160_{\pm 2}$
KI-10/180 or KI-10PA/180	$10_{\pm 0,5}$	$180_{\pm 2}$	25	$6,2_{\pm 0,2}$	$180_{\pm 2}$
KI-10/200 or KI-10PA/200	$10_{\pm 0,5}$	$200_{\pm 2}$	25	$6,2_{\pm 0,2}$	$200_{\pm 2}$
KI-10/220 or KI-10PA/220	$10_{\pm 0,5}$	$220_{\pm 2}$	25	$6,2_{\pm 0,2}$	$220_{\pm 2}$

Determination of maximum thickness of insulation material:  $h_D = L_a - t_{tol} - h_{ef}$

<b>ISOFAST KI-10, ISOFAST KI-10PA and ISOFAST KI-10M</b>	<b>Annex A2</b> of European Technical Assessment ETA-14/0342
<b>Product description</b> Marking and dimensions of the anchor sleeve and expansion element of the ISOFAST KI-10 and ISOFAST KI-10PA anchors	



**Table A2: ISOFAST KI-10M anchor types and dimensions [mm]**

Anchor type	Anchor sleeve			Expansion pin	
	$d_{nom}$	$L_a$	$h_{ef}$	$d$	$L_{mn}$
KI-10M/70	$10_{\pm 0,5}$	$70_{\pm 2}$	25	$4,9_{\pm 0,1}$	$70_{+5}$
KI-10M/90	$10_{\pm 0,5}$	$90_{\pm 2}$	25	$4,9_{\pm 0,1}$	$90_{+5}$
KI-10M/120	$10_{\pm 0,5}$	$120_{\pm 2}$	25	$4,9_{\pm 0,1}$	$120_{+5}$
KI-10M/140	$10_{\pm 0,5}$	$140_{\pm 2}$	25	$4,9_{\pm 0,1}$	$140_{+5}$
KI-10M/160	$10_{\pm 0,5}$	$160_{\pm 2}$	25	$4,9_{\pm 0,1}$	$160_{+5}$
KI-10M/180	$10_{\pm 0,5}$	$180_{\pm 2}$	25	$4,9_{\pm 0,1}$	$180_{+5}$
KI-10M/200	$10_{\pm 0,5}$	$200_{\pm 2}$	25	$4,9_{\pm 0,1}$	$200_{+5}$
KI-10M/220	$10_{\pm 0,5}$	$220_{\pm 2}$	25	$4,9_{\pm 0,1}$	$220_{+5}$
KI-10M/260	$10_{\pm 0,5}$	$260_{\pm 2}$	25	$4,9_{\pm 0,1}$	$260_{+5}$

Determination of maximum thickness of insulation material:  $h_D = L_a - t_{tol} - h_{ef}$

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Product description**

Marking and dimensions of the anchor sleeve and expansion element of the ISOFAST KI-10M anchors

**Annex A3**  
of European  
Technical Assessment  
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**Table A3: Materials**

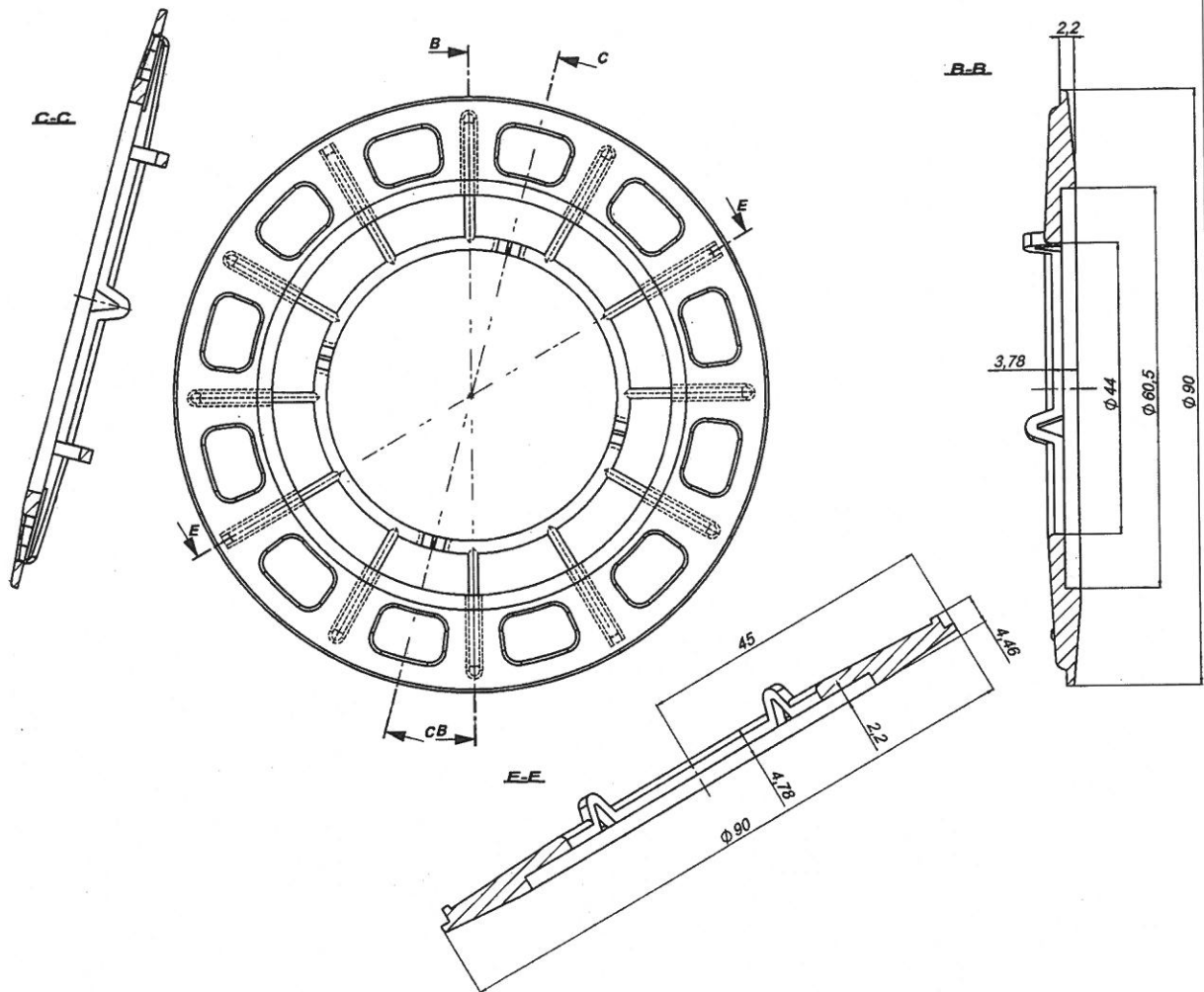
Designation	Material
Anchor sleeve	Polypropylene, with different colours <sup>1)</sup>
Expansion pin made of steel	Carbon steel ( $f_{y,k} = 180$ MPa, $f_{u,k} = 300$ MPa) galvanised $\geq 5$ $\mu\text{m}$ according to EN ISO 4042
Expansion pin made of plastic	Glass fibre reinforced polypropylene PPHGF30 nature (ISOFAST KI-10) or glass fibre reinforced polyamide PA6 GF30, nature (ISOFAST KI-10PA)
<sup>1)</sup> nature, blue "finke", blue 5010, brown 8017, red 3000, red 2008, white 9003, black, green 6029, yellow 1020, grey 7040, red	

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Product description  
Materials**

**Annex A4**  
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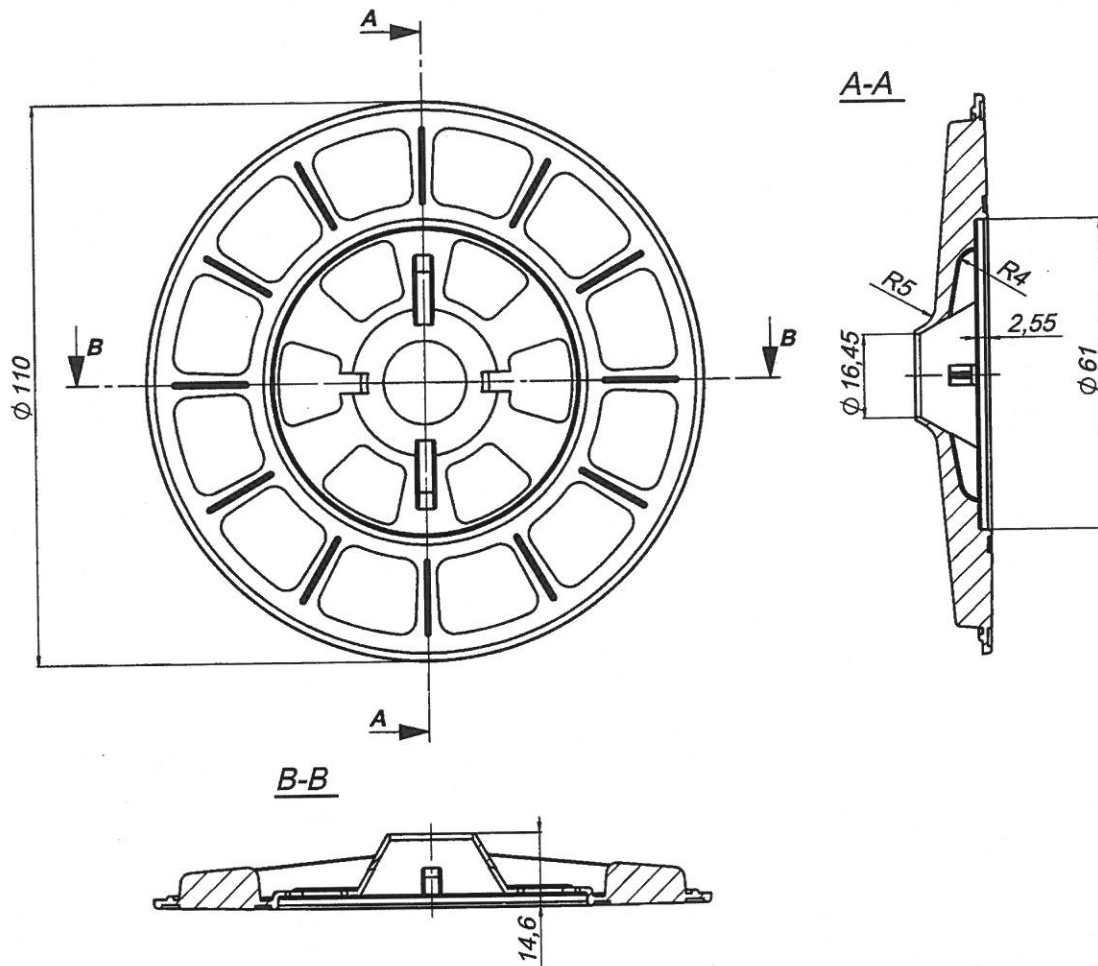
**Table A4: Additional plate KWL-90**

Plate type	Outer diameter [mm]	Material
KWL-90	90	Glass fibre reinforced polyamide PA6 GF30, nature or polypropylene, nature

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Product description**  
Additional plate KWL-90 in combination with anchor sleeve

**Annex A5**  
of European  
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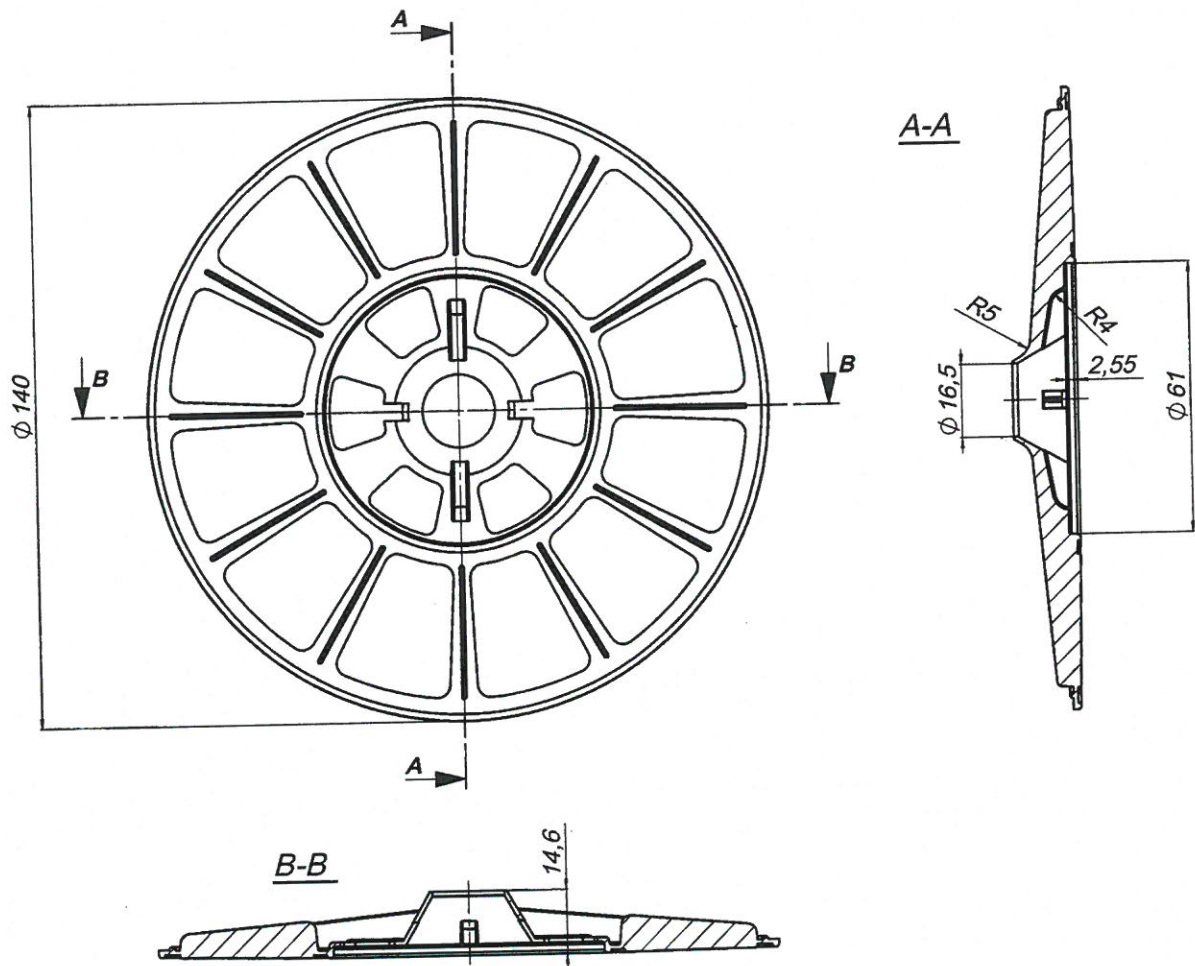
**Table A5: Additional plate KWL-110**

Plate type	Outer diameter [mm]	Material
KWL-110	110	Glass fibre reinforced polyamide PA6 GF30, nature or polypropylene, nature

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Product description**  
Additional plate KWL-110 in combination with anchor sleeve

**Annex A6**  
of European  
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**Table A6: Additional plate KWL-140**

Plate type	Outer diameter [mm]	Material
KWL-140	140	Glass fibre reinforced polyamide PA6 GF30, nature or polypropylene, nature

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Product description**  
Additional plate KWL-140 in combination with anchor sleeve

**Annex A7**  
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**Specification of intended use**

**Anchorage subject to:**

- Wind suction loads.  
 Note: Dead loads have to be transmitted by the adhesion of the relevant external 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.
- Autoclaved aerated concrete (use category E), according to Annex C1.
- 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 into 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 for non-structural application, according to ETAG 014, edition February 2011.

**Installation:**

- Hole shall be drilled by the drill modes according to Annex C1.
- Anchor installation shall be carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site.
- Installation shall be executed in temperature from 0°C to +40°C.
- Exposure to UV due to solar radiation of the anchor not protected by rendering by the mortar shall not exceed  $\leq 6$  weeks.

<b>ISOFAST KI-10, ISOFAST KI-10PA and ISOFAST KI-10M</b>	<b>Annex B1</b> of European Technical Assessment ETA-14/0342
<b>Intended use Specifications</b>	

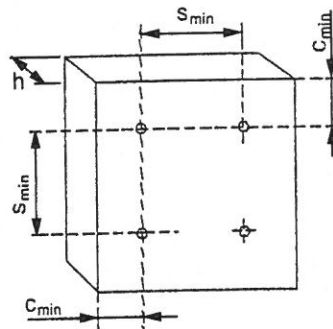
**Table B1: Installation characteristics**

Anchor type		KI-10, KI-10PA and KI-10M		
Use category for infendent use		ABC	D	E
Nominal diameter of drill bit	$d_o$ [mm]	10		
Cutting diameter of drill bit	$d_{cut}$ [mm]	$\leq 10,45$		
Depth of drill hole	$h_1$ [mm]	$\geq 35$	$\geq 50$	$\geq 70$
Effective anchorage depth	$h_{ef}$ [mm]	$\geq 25$	$\geq 40$	$\geq 60$

**Table B2: Minimum thickness of base material, edge distance and anchor spacing**

Anchor type		KI-10, KI-10PA and KI-10M
Minimum thickness of base material	$h$ [mm]	100
Minimum spacing	$s_{min}$ [mm]	100
Minimum edge distance	$c_{min}$ [mm]	100

Diagram of spacing

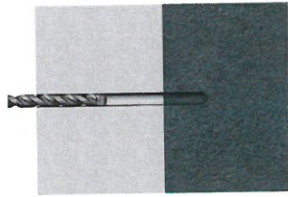


**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

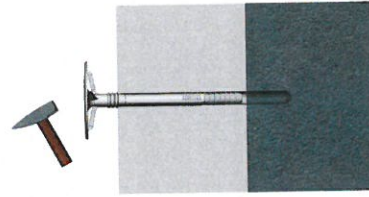
**Intended use**  
Installation characteristics, minimum thickness  
of base material, edge distance and spacing

**Annex B2**  
of European  
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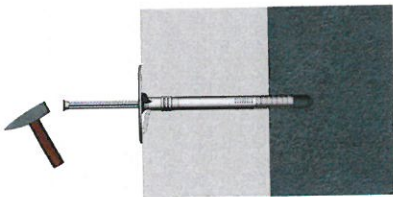
### Installation instruction



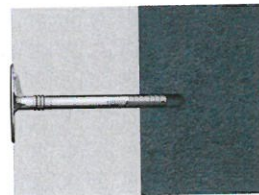
1. Drill hole by corresponding drilling method



2. Set-in anchor manually



3. Set anchor by hammer blows






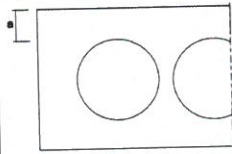

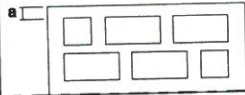
4. Correctly installed anchor

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Intended use**  
Installation instruction

**Annex B3**  
of European  
Technical Assessment  
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**Table C1: Characteristic resistance to tension loads  $N_{Rk}$ , kN in concrete and in masonry for single anchor**


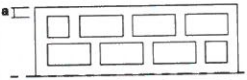

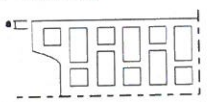
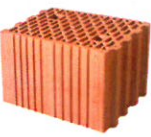

Base material	Bulk density [kg/dm <sup>3</sup> ]	Min. compressive strength [N/mm <sup>2</sup> ]	Referring standard	$N_{Rk}$ [kN]			Drill method
				KI-10	KI-10PA	KI-10M	
Concrete C12/15			EN 206-1	0,5	0,4	0,5	hammer
Concrete C16/20 + C50/60			EN 206-1	0,5	0,4	0,5	
Clay brick 	≥ 1,70	30,0	EN 771-1	0,5	0,4	0,4	hammer
Calcium silicate brick (for example Kalksandstein KS NF 20-2.0 Vollstein according to DIN 106) 	≥ 2,00	20,0	EN 771-2	0,6	0,4	0,6	hammer
Calcium silicate hollow block (for example Kalksandstein KS L-R(P) 8 DF Lochstein according to DIN 106)  a <sup>1)</sup> = 30 mm 	≥ 1,60	12,0	EN 771-2	0,6	0,4	0,5	rotary
Perforated ceramic brick (for example Hz B – 1.0 1NF 12-1 according to DIN 105)  a <sup>1)</sup> = 13 mm 	≥ 0,95	12,0	EN 771-1	0,4	0,3	0,4	rotary

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Performances**  
Characteristic resistance

**Annex C1**  
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**Extension of Table C1**

Base material	Bulk density [kg/dm <sup>3</sup> ]	Min. compressive strength [N/mm <sup>2</sup> ]	Referring standard	N <sub>Rk</sub> [kN]			Drill method
				KI-10	KI-10PA	KI-10M	
Perforated ceramic brick (for example Hz B – 1.0 3NF 12-1 according to DIN 105)  a <sup>1)</sup> = 13 mm 	≥ 0,95	12,0	EN 771-1	0,4	0,4	0,4	rotary
Vertically perforated porosited block (for example Porotherm 25 P+W)  a <sup>1)</sup> = 10 mm 	≥ 0,80	15,0	EN 771-1	0,4	0,4	0,3	rotary
Vertically perforated ceramic block (for example MEGA-MAX 250)  a <sup>1)</sup> = 12 mm 	≥ 0,80	15,0	EN 771-1	0,3	0,4	0,3	rotary

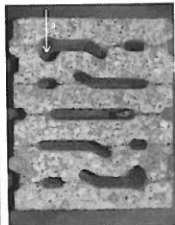
**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Performances**  
Characteristic resistance

**Annex C1**  
of European  
Technical Assessment  
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**Extension of Table C1**

Base material	Bulk density [kg/dm <sup>3</sup> ]	Min. compressive strength [N/mm <sup>2</sup> ]	Referring standard	N <sub>RK</sub> [kN]			Drill method
				KI-10	KI-10PA	KI-10M	
Lightweight concrete hollow block (for example Hbl according to DIN 18151) a <sup>1)</sup> = 30 [mm] 	≥ 0,80	2,0	EN 771-3	0,4	0,4	0,4	rotary
Lightweight concrete block	≥ 1,56	20,0	EN 771-3	0,5	0,75	0,6	hammer
Autoclaved aerated concrete block	≥ 0,35	2,0	EN 771-4	0,1	0,1	0,1	rotary
Partial safety factor for anchor resistance, γ <sub>M</sub> <sup>2)</sup>	2,0						
<sup>1)</sup> Minimum values "a". For elements with lower value of "a" the load tests on the construction are required <sup>2)</sup> Valid in absence of national regulations							

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Performances**  
Characteristic resistance

**Annex C1**  
of European  
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**Table C2: Point thermal transmittance according to EOTA Technical Report TR 025**

Anchor type	Insulation thickness $H_D$ [mm]	Point thermal transmittance $\chi$ [W/K]
KI-10 and KI-10PA	45 – 195	0
KI-10M	45	0,006
	150	0,004
	195	0,004
	235	0,003

**Table C3: Plate stiffness according to EOTA Technical Report TR 026**

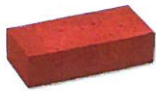


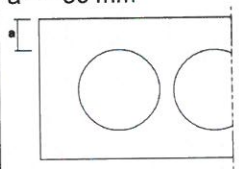
Anchor type	Diameter of the anchor plate $d_{plate}$ [mm]	Load resistance of the anchor plate $N_{u,m}$ [kN]	Plate stiffness $N_{0,m}$ [kN/mm]
KI-10 and KI-10PA	60	2,1	0,5
KI-10M	60	2,6	0,4

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Performances**  
Point thermal transmittance and plate stiffness

**Annex C2**  
of European  
Technical Assessment  
ETA-14/0342

**Table C4: Displacement behaviour**


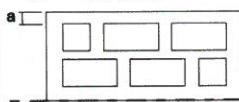

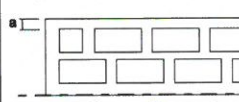


Base material	Bulk density [kg/dm <sup>3</sup> ]	Compressive strength [N/mm <sup>2</sup> ]	$\frac{N_{Rk}}{3}$ , [kN]			$\delta\left(\frac{N_{Rk}}{3}\right)$ [mm]		
			KI-10	KI-10PA	KI-10M	KI-10	KI-10PA	KI-10M
Concrete C20/25	–	–	0,17	0,13	0,17	0,60	0,95	0,63
Concrete C50/60	–	–	0,17	0,13	0,17	0,60	0,95	0,63
Clay brick 	≥ 1,70	≥ 30,0	0,17	0,13	0,13	0,93	1,05	0,76
Calcium silicate brick (for example Kalksandstein KS NF 20-2.0 Vollstein according to DIN 106) 	≥ 2,00	≥ 20,0	0,20	0,13	0,20	0,86	0,96	0,75
Calcium silicate hollow block (for example Kalksandstein KS L-R(P) 8 DF Lochstein according to DIN 106)  a <sup>1</sup> = 30 mm 	≥ 1,60	≥ 12,0	0,20	0,13	0,17	0,73	0,90	0,57

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**


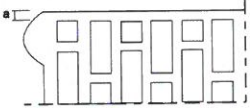

**Performances  
Displacements**

**Annex C3  
of European  
Technical Assessment  
ETA-14/0342**

Extension of Table C4

Base material	Bulk density [kg/dm <sup>3</sup> ]	Compressive strength [N/mm <sup>2</sup> ]	$\frac{N_{Rk}}{3}$ , [kN]			$\delta\left(\frac{N_{Rk}}{3}\right)$ , [mm]		
			KI-10	KI-10PA	KI-10M	KI-10	KI-10PA	KI-10M
Perforated ceramic brick (for example Hz B – 1,0 1NF 12-1 according to DIN 105)  $a^1 = 13 \text{ mm}$ 	≥ 0,95	≥ 12,0	0,13	0,10	0,13	0,84	0,67	0,52
Perforated ceramic brick (for example Hz B – 1,0 3NF 12-1 according to DIN 105)  $a^1 = 13 \text{ mm}$ 	≥ 0,95	≥ 12,0	0,13	0,13	0,13	0,59	0,84	0,64
Vertically perforated porosited block (for example Porotherm 25 P+W)  $a^1 = 10 \text{ mm}$ 	≥ 0,80	≥ 15,0	0,13	0,13	0,10	0,56	0,60	0,49
<b>ISOFAST KI-10, ISOFAST KI-10PA and ISOFAST KI-10M</b>						<b>Annex C3</b> of European Technical Assessment ETA-14/0342		
<b>Performances</b> Displacements								

**Extension of Table C4**

Base material	Bulk density [kg/dm <sup>3</sup> ]	Compressive strength [N/mm <sup>2</sup> ]	$\frac{N_{Rk}}{3}$ , [kN]			$\delta\left(\frac{N_{Rk}}{3}\right)$ , [mm]		
			KI-10	KI-10PA	KI-10M	KI-10	KI-10PA	KI-10M
Vertically perforated ceramic block (for example MEGA-MAX 250 )  a <sup>1)</sup> = 12 mm 	≥ 0,80	≥ 15,0	0,10	0,13	0,10	0,61	0,64	0,74
Lightweight concrete hollow block (for example Hbl according to DIN 18151) a <sup>1)</sup> = 30 [mm] 	≥ 0,80	≥ 2,0	0,13	0,13	0,13	0,53	0,72	0,57
Lightweight concrete block	≥ 1,56	≥ 20,0	0,17	0,25	0,20	0,99	0,92	0,61
Autoclaved aerated concrete block	≥ 0,35	≥ 2,0	0,03	0,03	0,03	0,50	0,41	0,40
<sup>1)</sup> Minimum values "a". For elements with lower value of "a" the load tests on the construction are required								

**ISOFAST KI-10, ISOFAST KI-10PA  
and ISOFAST KI-10M**

**Performances  
Displacements**

**Annex C3**  
of European  
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