

PRODUCT DATA SHEET - LTX-10



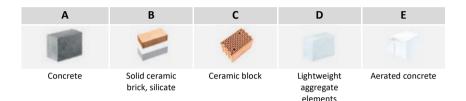
Section 1. PRODUCT DESCRIPTION

PLASTIC PIN ACTUATED FASTENER WITH SHORT EXPANSION ZONE - LTX-10

Hammer driven fastener with plastic pin and short expansion zone LTX-10 is made from polyethylene, and the pin from glass fibre-reinforced polyamide which improves its strength. Fastener LTX-10 should be used to transfer loads of wind suction forces and applied as an additional mechanical fixing for the whole system, recommended for:

- Polystyrene EPS
- XPS polystyrene

Types of substrates on which the LTX-10 fastener can be installed according to EAD 330196-01-0604:













glass-fibre reinforced pin



special connection flange



innovative sleeve design

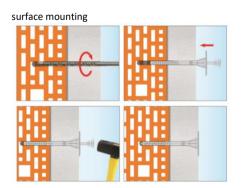


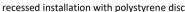


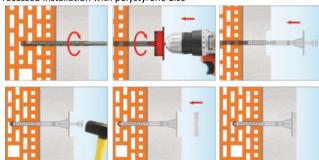
The fasteners have the European Technical Assessment: ETA-16/0509

Section 2. INSTALLATION METHOD

- 1. Before starting the installation, it is necessary to recognise the support and select the fasteners intended for it
- 2. The appropriate fastener length must be chosen so that the expansion zone is in the wall construction material
- 3. The minimum length of the fastener is: $\mathbf{L}_{d} = \mathbf{t}_{fix} + \mathbf{t}_{tol} + \mathbf{h}_{eff}$, where: \mathbf{t}_{fix} thickness of attached thermal insulation, \mathbf{t}_{tol} thickness of levelling layers (adhesive mortar + existing plaster), \mathbf{h}_{eff} anchorage depth of the fastener in the substrate (stated in the data sheet and technical approval)
- 4. Before installation, the substrate must be prepared according to the recommendations of the ETICS insulation system manufacturer
- 5. Thermal insulation panels must be adequately fixed with adhesive mortar
- 6. The diameter of the holes drilled must correspond to the diameter of the fasteners used
- 7. Holes in substrates made of solid materials should be at least 10 mm deeper than the anchoring depth of the fastener
- 8. Holes in solid materials must be cleaned of drill residue using a back-and-forth motion of the drill at reduced speed, repeating the operation four
- 9. Holes in substrates with voids and aerated concrete must be drilled without the use of a hammer, as this would cause the inner walls of the substrate to crack, reducing the tear resistance of the fasteners.
- 10. The fasteners must be fixed so that the installation location coincides with the position of the adhesive mortar on the thermal insulation board.
- 11. The fastener body must be positioned so that the fastener pressure plate is flush with the heat-insulating material.
- 12. Then insert the fastener pin to fix it permanently
- 13. Do not hammer fasteners with an embedded pin, as this may cause them to break.
- 14. polystyrene cutter WK-FT, so-called flush-mounted installation
- 15. After installing the fastener, cover the mounting point with a KS/KSG polystyrene disc, the so-called recessed installation









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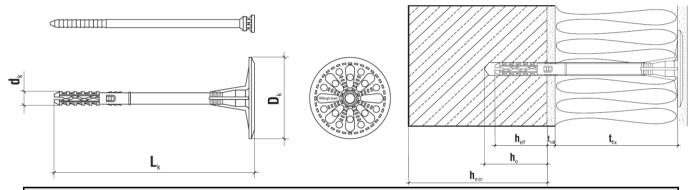
Section 3. SPECIFICATIONS

TECHNICAL PARAMETERS								
Parameter	Unit	Value						
Fastener diameter	d _k [mm]	10						
Plate diameter	D _k [mm]	60						
Anchorage depth	h _{eff} [mm]	30/50*						
Depth of hole	h ₀ [mm]	40/60*						
Point thermal conductivity	χ [W/K]	Surface mounting	Built-in installation					
		0,001	0.000					
Plate rigidity	S [kN/mm]	0,50						
Utility categories	[-]	ABCDE						
Fastener material	[-]	PE						
Stem material	[-]	PA+GF						
European Technical	[-]	ETA-16/0509						

STRENGTH PARAMETERS							
Substrate category	Type of substrate	Density [kg/dm³]	Characteristic load capacity [kN]				
Α	Concrete C12/15	≥ 2,25	0,50				
Α	Concrete C20/25-C50/60	≥ 2,30	0,75				
В	Solid ceramic brick	≥ 2,00	0,75				
В	Solid silicate brick	≥ 2,00	0,60				
С	Silicate channel blocks	≥ 1,60	0,60				
С	Ceramic hollow brick	≥ 1,20	0,60				
С	Porotherm 25	≥ 0,80	0,40				
D	Lightweight concrete blocks	≥ 0,88	0,60				
E	AAC2 aerated concrete	≥ 0,35	0,50				
Е	AAC7 aerated concrete	≥ 0,65	0,60				

Partial safety factor $y_M = 2$ in the absence of regulation

^{*}for category E substrates (aerated concrete)



SELECTION TABLE								
	Fastener	Thickness of thermal insulation material t _{fix} [mm]				Quantity in pack [pcs.]		
Product code diameter and length (d _k x L _k)		New buildings (t _{tol} adhesive layer of 10mm included)		Old buildings (t _{tol} adhesive layer of 10mm + 20mm of old plaster included)				
	(Uk X Lk)	Without cutter	With cutter	Without cutter	With cutter			
LTX-10070	10x70	30/10*	50/30*	10/-*	30/10*	200		
LTX-10090	10x90	50/30*	70/50*	30/10*	50/30*	200		
LTX-10110	10x110	70/50*	90/70*	50/30*	70/50*	200		
LTX-10120	10x120	80/60*	100/80*	60/40*	80/60*	200		
LTX-10140	10x140	100/80*	120/100*	80/60*	100/80*	200		
LTX-10160	10x160	120/100*	140/120*	100/80*	120/100*	200		
LTX-10180	10x180	140/120*	160/140*	120/100*	140/120*	200		
LTX-10200	10×200	160/140*	180/160*	140/120*	160/140*	200		
LTX-10220	10x220	180/160*	200/180*	160/140*	180/160*	100		
LTX-10260	10×260	220/200*	240/220*	200/180*	220/200*	100		

^{*}for category E substrates (aerated concrete)

Section 4. NOTES

- All previous versions of this Data Sheet are no longer valid
- The data in this Product Data Sheet are in accordance with the current state of knowledge and are given in good faith. If the recommendations on how to use and install the product are not followed, KLIMAS Sp. z o.o. is not responsible for the correctness and quality of the connection.