

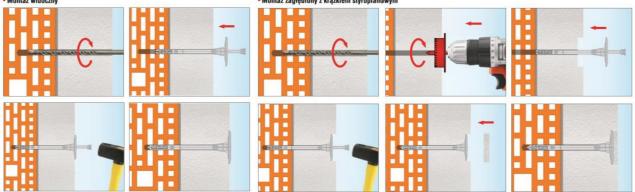
PRODUCT DATA SHEET – LTX-8



Section 1. PRODUCT DESCRIPTION

HAMMER DRIVEN FASTENER WITH PLASTIC PIN AND SHORT POLSKI RODUCEN **EXPANSION ZONE – LTX-8** NOWA III EPSZONA KONSTRUKCJA Hammer driven fastener with plastic pin and short expansion zone LTX-8 is made 25 i 65 mm from polyethylene, and the pin from glass fibre-reinforced polyamide which improves its strength. Fastener LTX-8 should be used to transfer loads of wind suction Ulepszona kon forces and applied as an additional mechanical fixing for the whole system, strukcja głó trzpienia recommended for: **EPS polystyrene** • XPS polystyrene Specjalny kołn łącznika Types of substrates on which fastener LTX-8 can be installed according to ETAG 014: trukcia koszulki Beton Cegła ceramiczna Pustak ceramiczny Elementy na Gazobeton pełne, silikatowe kruszywie lekkim Fasteners hold European Technical Assessment: ETA-16/0509 Section 2. METHOD OF INSTALLATION

- 1. Before installation identify the substrate and select suitable fasteners
- 2. Select adequate length of the fastener so that expansion zone is in the construction material of the wall
- Minimum length of the fastener is: L_d=t_{fix}+t_{tol}+h_{eff}, where: t_{fix} thickness of insulation material to be fixed, t_{tol} thickness of subcrusts (adhesive + existing plaster), h_{eff} - depth of fastener anchorage in the substrate (given in the sheet and in Technical Approval)
- 4. Before installation prepare the substrate as recommended by ETICS manufacturer
- 5. Fix thermal insulation panels correctly using an adhesive
- 6. Diameter of drilled holes should match diameter of the fasteners used
- 7. Drilled holes in substrates of solid materials should be deeper by min. 10 mm compared to the fastener anchorage depth
- 8. Clean the holes drilled in solid materials of drillings with a back and forth motion of the drill at a reduced speed, repeating it four times
- 9. Drill the holes in substrates of hollowed bricks and aerated concrete without impact as this will cause breakage of inner walls of the substrate and reduce pull-out resistance of fasteners
- 10. Number of fasteners per 1m² should be defined in thermal insulation design. Recommended number of fasteners: FOR POLYSTYRENE:
 - up to the height of 15m from the ground, as minimum use 6pcs/m² in the middle area of a wall and 8pcs/m² in a corner area
 above 15m from the ground, as minimum use 8pcs/m² in the middle area of a wall and 10pcs/m² in a corner area
 Recommendation shall not replace thermal insulation design!!
- 11. Fix the fasteners so that the installation spot matches the area where adhesive is placed on a thermal insulation panel
- 12. Embed the fastener body so that the fastener washer is faced with thermal insulation material
- 13. Then drive the fastener pin to firmly attach the fastener
- 14. Do not drive fasteners in when the pin is already driven as otherwise they may break
- 15. Fasteners can be installed in cut holes using plastic cutter for cutting holes in polystyrene **WK-FT** so-called immersed mount
 Montaż zagłębiony z krażkiem styropianowym



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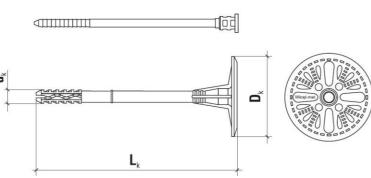
Section 3. TECHNICAL DATA

TECHNICAL PARAMETERS								
Parameter	Unit	Value						
Plug diameter	d _k [mm]	8						
Plate diameter	D _k [mm]	60						
Anchorage depth	h _{eff} [mm]	25/65*						
Drilled hole depth	h ₀ [mm]	35/75*						
Thermal conductivity	χ [W/K]	surface mount 0.000	immerged mount 0.000					
Plate stiffness	S [kN/mm]	0.50						
Use categories	[-]	ABCDE						
Plug material	[-]	PE						
Pin material	[-]	PA + GF						
European Technical Assessment	[-]	ETA-16/0509						

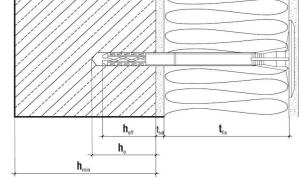
STRENGTH PARAMETERS							
Substrate category	Substrate type Density [kg/dm ³]		Characteristic pull-out resistance[kN]				
А	Concrete C12/15	≥ 2.25	0.50				
А	Concrete C20/25 – C50/60	≥ 2.30	0.75				
В	Solid clay brick	≥ 2.00	0.75				
В	Calcium silica solid brick	≥ 2.00	0.75				
С	Calcium silicate hollow blocks	≥ 1.60	0.75				
С	Perforated brick	≥ 1.20	0.60				
С	Porotherm 25	≥ 0.80	0.40				
D	Lightweight concrete blocks	≥ 0.88	0.60				
E	Autoclaved aerated concrete AAC2	≥ 0.35	0.75				
E	Autoclaved aerated concrete AAC7	≥ 0.65	0.90				

*for substrate use category E

(aerated concrete)



Partial safety factor $\gamma_M{=}2$ in absence of regulations



SELECTION TABLE								
Fastener Product code diameter and length (dk X Lk)	Fastener	stener	Insulation materia	Number of				
	New buildings (t _{tol} adhesive layer of 10mm		Old buildings (t _{tol} adhesive layer of 10mm + old plaster of 20mm		pieces in a			
		Without cutter	With cutter	Without cutter	With cutter	DOX		
LTX-08095	8x95	60/20*	80/40*	40/-*	60/20*	200		
LTX-08115	8x115	80/40*	100/60*	60/20*	80/40*	200		
LTX-08135	8x135	100/60*	120/80*	80/40*	100/60*	200		
LTX-08155	8x155	120/80*	140/100*	100/60*	120/80*	200		
LTX-08175	8x175	140/100*	160/120*	120/80*	140/100*	200		
LTX-08195	8x195	160/120*	180/140*	140/100*	160/120*	200		

*for substrate use category E (aerated concrete)

Section 4. REMARKS

1. All previous versions of this Product Data Sheet shall cease to be valid

2. Data given in this Product Data Sheet is in accordance with current knowledge and published in good faith. KLIMAS Sp. z o.o. is not responsible for correctness and quality of the fixing if recommendations regarding method of use and installation are not followed.