

Wkręt-met KLIMAS

PRODUCT DATA SHEET – LMX-8

Section 1. PRODUCT DESCRIPTION



Section 2. METHOD OF INSTALLATION

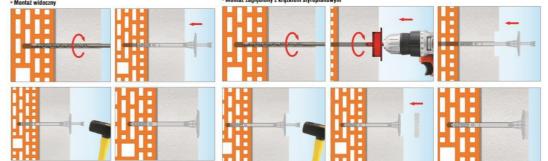
- 1. Before installation identify the substrate and select suitable fasteners
- 2. Select adequate length of the fastener so that expansion zone is in the construction material of the wall
- Minimum length of the fastener is: Ld=tfix+ttol+heff, where: tfix thickness of insulation material to be fixed, ttol thickness of subcrusts (adhesive + existing plaster), heff - 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; for WOOL number of fasteners should be increased in each area by 2pcs/m²

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. Fasteners can be installed in cut holes using plastic cutter for cutting holes in polystyrene **WK-FT** so-called immersed mount







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Section 3. TECHNICAL DATA

TECHNICAL PARAMETERS				STRENGTH PARAMETERS				
Unit	Value		Substrate	Substrate type	Density [kg/dm³]	Characteristic pull-out		
d _k [mm]	8		category	Substrate type		resistance [kN]		
D _k [mm]	60		А	Concrete C12/15	≥ 2.25	0.5		
h _{eff} [mm]	25/65*		А	Concrete C20/25 – C50/60	≥ 2.30	0.7		
h₀[mm]	35/75*		В	Solid clay brick	≥ 2.00	0.7		
χ [W/K]	Surface mount	immerged mount	В	Calcium silica solid brick	≥ 2.00	0.7		
	0.004	0.002	С	Calcium silicate hollow blocks	≥ 1.60	0.7		
S [kN/mm]	0.50		С	Perforated brick	≥ 1.20	0.6		
[-]	A B C D E		С	Porotherm 25	≥ 0.80	0.4		
[-]	PE		D	Lightweight concrete blocks	≥ 0.88	0.7		
[-]	Galvanized steel, head sealed in PA		E	Autoclaved aerated concrete AAC2		0.7		
[-]			E	Autoclaved aerated concrete AAC7	≥ 0.65	0.9		
	d _k [mm] D _k [mm] h _{eff} [mm] λ ₀ [mm] χ [W/K] S [kN/mm] [-] [-]	$\begin{array}{c c} d_k [mm] & & \\ \hline \\ D_k [mm] & & \\ \hline \\ h_{eff} [mm] & & 25 \\ \hline \\ h_0 [mm] & & 35 \\ \hline \\ \chi [W/K] & & \\ \hline \\ 0.004 & & \\ \hline 0.004$	$\begin{array}{c c c c c c } & & & & & & & & \\ \hline & & & & & & & \\ \hline & & & &$	dk [mm]8SubStrate categoryDk [mm] 60 Aheff [mm] $25/65*$ Ah_0 [mm] $35/75*$ B χ [W/K]Surface mountimmerged mount0.0040.002CS [kN/mm] 0.50 C[-]A B C D EC[-]PED[-]Galvanized steel, head sealed in PAE	dk [mm] \otimes Substrate categorySubstrate typeDk [mm] \odot AConcrete C12/15heff [mm] $25/65*$ AConcrete C20/25 - C50/60h_0 [mm] $35/75*$ BSolid clay brick χ [W/K]Surface mountimmerged mountBCalcium silica solid brick χ [W/K] 0.004 0.002 CCalcium silicate hollow blocksS [kN/mm] 0.50 CPerforated brick[-] $A \otimes C D \otimes C$ CPerforated brick[-] $Galvanized steel, head sealed in PA$ DLightweight concrete AAC2[-] E Autoclaved aerated concrete AAC2[-] E Autoclaved aerated concrete AAC2	dk [mm] \square Substrate categorySubstrate typeDensity [kg/dm3]Dk [mm] \square <		

*for substrate use category E (aerated concrete)

SELECTION TABLE									
Product code dia	Fastener		Number of						
	diameter and length (dk x Lk)	New buildings (t _{tol} adhesive layer of 10mm)		Old buildings (t _{tol} adhesive layer of 10mm + 20mm of old plaster)		pieces in a			
		Without cutter	With cutter	Without cutter	With cutter	507			
LMX-08095	8x95	60/20*	80/40*	40/-*	60/20*	200			
LMX-08115	8x115	80/40*	100/60*	60/20*	80/40*	200			
LMX-08135	8x135	100/60*	120/80*	80/40*	100/60*	200			
LMX-08155	8x155	120/80*	140/100*	100/60*	120/80*	200			
LMX-08175	8x175	140/100*	160/120*	120/80*	140/100*	200			
LMX-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.