

# Wkręt-met KLIMAS

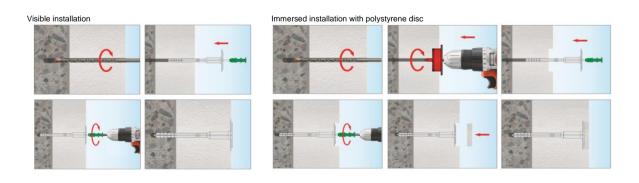
## **PRODUCT DATA SHEET - WKTHERM S-8**

#### Section 1. PRODUCT DESCRIPTION



#### 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
- The minimum length of the fastener is: L<sub>d</sub>=t<sub>fix</sub>+t<sub>tol</sub>+h<sub>eff</sub>, where: t<sub>fix</sub> thickness of the applied thermal insulation, t<sub>tol</sub> thickness of the levelling layers (adhesive mortar + existing plaster), h<sub>eff</sub> 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 times.
- 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 screw in the pin, gently tightening the fastener to the thermal insulation (TORX-40 socket).
- 13. polystyrene cutter WK-FT , so-called flush-mounted installation
- 14. 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 <sub>k</sub> [mm]	8					
Plate diameter	D <sub>k</sub> [mm]	60					
Anchorage depth	h <sub>eff</sub> [mm]	25/65*					
Depth of hole	h₀ [mm]	35/75*					
Point thermal conductivity	χ [W/K]	0,002					
Plate rigidity	S [kN/mm].	0,60					
Utility categories	[-]	ABCDE					
Fastener material	[-]	PE					
Stem material	[-]	Galvanised steel, PA+GF coated header					
European Technical Assessment	[-]	ETA-13/0724					

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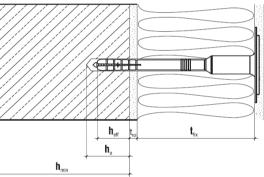
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\*for category E substrates (aerated concrete)

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STRENGTH PARAMETERS						
Substrate category	Type of substrate	Density [kg/dm³]	Characteristic load capacity [kN]			
А	Concrete C12/15	≥ 2,25	1.20			
А	Concrete C16/20-C50/60	≥ 2,30 1,50				
В	Solid ceramic brick	≥ 2,00	1,50			
В	Solid silicate brick	≥ 2,00	1,50			
С	Silicate channel blocks	≥ 1,60	0,90			
С	Ceramic hollow brick	≥ 1,20	0,75			
С	Lightweight concrete	≥ 0,80	0,75			
D	Lightweight concrete	≥ 1,05	0,90			
E	AAC2 aerated concrete	≥ 0,35	0,60			
E	AAC7 aerated concrete	≥ 0,65	1.20			

Partial safety factor  $\gamma_{\mathsf{M}}$  =2 in the absence of regulation



SELECTION TABLE									
	Fastener	Thickness of thermal insulation material t <sub>fix</sub> [mm]							
Product code	diameter	New buildings (t <sub>toll</sub> includes 10 mm of glue)		Old buildings		Quantity in pack [pcs.]			
	and length			(t <sub>tol</sub> includes 10 mm of glue + 20 mm of old plaster)					
	(d <sub>k</sub> x L <sub>k</sub> )	Without cutter	With cutter	Without cutter	With cutter				
WKTHERM-S-08095	8x95	60/20*	80/40*	40/-*	60/20*	200			
WKTHERM-S-08115	8x115	80/40*	100/60*	60/20*	80/40*	200			
WKTHERM-S-08135	8x135	100/60*	120/80*	80/40*	100/60*	200			
WKTHERM-S-08155	8x155	120/80*	140/100*	100/60*	120/80*	200			
WKTHERM-S-08175	8x175	140/100*	160/120*	120/80*	140/100*	200			
WKTHERM-S-08195	8x195	160/120*	180/140*	140/100*	160/120*	200			
WKTHERM-S-08215	8x215	180/140*	200/160*	160/120*	180/140*	100			
WKTHERM-S-08235	8x235	200/160*	220/180*	180/140*	200/160*	100			
WKTHERM-S-08255	8x255	220/180*	240/200*	200/160*	220/180*	100			
WKTHERM-S-08275	8x275	240/200*	260/220*	220/180*	240/200*	100			
WKTHERM-S-08295	8x295	260/220*	280/240*	240/200*	260/220*	100			

\*for category E substrates (aerated concrete)

## Section 4. NOTES

- 1. All previous versions of this Data Sheet are no longer 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.