



PRODUCT DATA SHEET – WKTHERM-8

Section 1. PRODUCT DESCRIPTION

HAMMER DRIVEN FASTENER WITH METAL PIN AND SHORT EXPANSION ZONE -POLSK WKTHERM-8 Hammer driven fastener with metal pin and short expansion zone WKTHERM-8 is Główka trzpienia made from polyethylene, and the pin from galvanized steel, with the head sealed in metalowego pokryta tworzywem glass-fibre reinforced polyamide which reduces spot thermal conductivity of the fastener. Sealing rings on the head of the pin protect it against corrosion. Fastener WKTHERM-8 should be used to transfer loads of wind suction forces and applied as nnowacyjna konan additional mechanical fixing for the whole system, recommended for: strukcia koszulki **EPS polystyrene** ٠ **XPS** polystyrene Krótka strefa rozmineral wool (with support washer TDX-90 and TDX-140) porowa, średnica 8mm mineral wool lamella board (with support washer TDX-90 and TDX-140) Types of substrates on which fastener WKTHERM-8 can be installed according to ETAG 014: Łaczniki wstepnie zmontowan A B C

Fasteners hold European Technical Assessment: ETA-11/0232

Cegła ceramiczna

Section 2. METHOD OF INSTALLATION

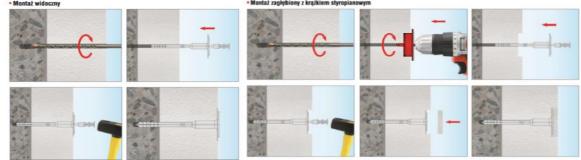
Pustak ceramiczny

- 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 without impact as this will cause breakage of inner walls of the substrate and reduce pull-out resistance of fasteners
- 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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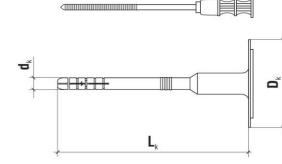
Section 3. TECHNICAL DATA

TECHNICAL PARAMETERS							
Parameter	Unit	Value					
Plug diameter	d _k [mm]	8					
Plate diameter	D _k [mm]	60					
Anchorage depth	h _{eff} [mm]	25					
Drilled hole depth	h₀[mm]	35					
Thermal conductivity	χ [W/K]	0.002/0.001*					
Plate stiffness	S [kN/mm]	0.60					
Use categories	[-]	A B C					
Plug material	[-]	PE					
Pin material	[-]	Galvanized steel, head sealed in PA + GF					
European Technical Assessment	[-]	ETA-11/0232					

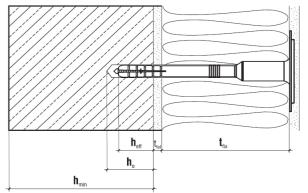
STRENGTH PARAMETERS							
Substrate category	Substrate type	Density [kg/dm³]	Characteristic pull-out resistance [kN]				
А	Concrete C12/15	≥ 2.25	1.20				
А	Concrete C16/20 – C50/60	≥ 2.30	1.50				
В	Solid clay brick	≥ 1.70	1.50				
В	Calcium silica solid brick	≥ 2.00	1.50				
С	Calcium silicate hollow blocks	≥ 1.60	1.20				
С	Perforated brick	≥ 0.95	0.60				
С	Porotherm 25	≥ 0.80	0.60				
С	MEGA-MAX 250	≥ 0.80	0.60				

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

* for immersed mount







SELECTION TABLE							
	Fastener		Insulation material thickness t _{fix} [mm]				
Product code diameter and length (d _k × L _k)		New buildings (t _{tol} adhesive layer of 10mm)		Old buildings (t _{tol} adhesive layer of 10mm + 20mm of old plaster)		Number of pieces in a box	
len		Without cutter	With cutter	Without cutter	With cutter	200	
WKTHERM-08095	8x95	60	80	40	60	200	
WKTHERM-08115	8x115	80	100	60	80	200	
WKTHERM-08135	8x135	100	120	80	100	200	
WKTHERM-08155	8x155	120	140	100	120	200	
WKTHERM-08175	8x175	140	160	120	140	200	
WKTHERM-08195	8x195	160	180	140	160	200	
WKTHERM-08215	8x215	180	200	160	180	100	
WKTHERM-08235	8x235	200	220	180	200	100	
WKTHERM-08255	8x255	220	240	200	220	100	
WKTHERM-08275	8x275	240	260	220	240	100	
WKTHERM-08295	8x295	260	280	240	260	100	

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.