

PRODUCT DATA SHEET - ECO-DRIVE W-8



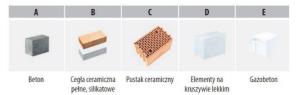
Section 1. PRODUCT DESCRIPTION

SCREWED-IN FASTENER WITH METAL PIN AND TELESCOPIC DESIGN SUPPORT WASHER – ECO-DRIVE W-8

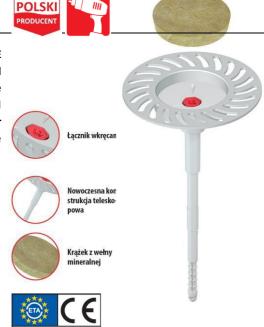
Screwed-in fastener with metal pin with telescopic design support washer ECO-DRIVE W-8 is made from polyamide, and the pin from galvanized steel, with the head sealed in glass-fibre reinforced polyamide which reduces spot thermal conductivity of the fastener. Use of telescopic design significantly shortens the installation time and ensures safety of the system. Fastener ECO-DRIVE W-8 should be used to transfer loads of wind suction forces and applied as an additional mechanical fixing for the whole system, recommended for:

- mineral wool
- mineral wool lamella

Types of substrates on which fastener ECO-DRIVE W-8 can be installed according to ETAG 014:

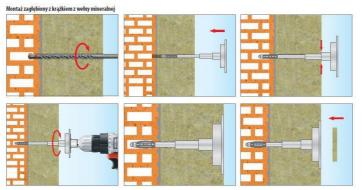


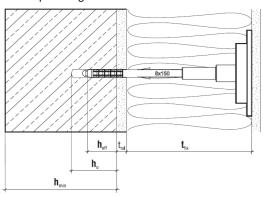
Fasteners hold European Technical Assessment: ETA-13/0107



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
- 3. Minimum length of the fastener is: L_d=t_{fix}+t_{tol}+h_{eff}+25mm (recess of the movable part of the connector's flange in the thermal insulation material), where: t_{fix} thickness of insulation material to be fixed, t_{tol} thickness of sub-crusts (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
- 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 WOOL:
 - up to the height of 15m from the ground, as minimum use 8pcs/m² in the middle area of a wall and 10pcs/m² in a corner area
 - above 15m from the ground, as minimum use 10pcs/m² in the middle area of a wall and 12pcs/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 touches mineral wool with the first ring underneath the washer
- 13. Then screw in the support washer using EDST-W tool and cover up the installation spot using the delivered





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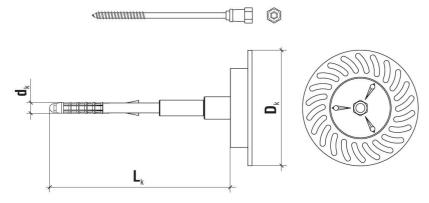


Section 3. TECHNICAL DATA

TECHNICAL PARAMETERS							
Parameter	Unit	Value					
Plug diameter	d _k [mm]	8					
Plate diameter	D _k [mm]	110					
Anchorage depth	h _{eff} [mm]	35/55*					
Drilled hole depth	h ₀ [mm]	45/65*					
Thermal conductivity	χ [W/K]	0.002					
Plate stiffness	S [kN/mm]	0.60					
Use categories	[-]	ABCDE					
Plug material	[-]	PA					
Pin material	[-]	Galvanized steel, head sealed in PA + GF					
European Technical Assessment	[-]	ETA-13/0107					

STRENGTH PARAMETERS							
Substrate category	Substrate type	Density [kg/dm³]	Characteristic pull-out resistance [kN]				
Α	Concrete C12/15	≥ 2.25	1.20				
А	Concrete C16/20 – C50/60	≥ 2.30	1.50				
В	Solid clay brick	≥ 2.00	1.50				
В	Calcium silica solid brick	≥ 2.00	1.50				
С	Calcium silicate hollow blocks	≥ 1.60	1.50				
С	Perforated brick	≥ 1.20	1.50				
С	Lightweight concrete hollow blocks	≥ 0.80	1.50				
D	Lightweight concrete blocks	≥ 1.05	0.90				
E	Autoclaved aerated concrete AAC2	≥ 0.35	0.60				
E	Autoclaved aerated concrete AAC7	≥ 0.65	1.20				

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



SELECTION TABLE								
Fastener Product code diameter and length (d _k × L _k)	Fastener	Insulation material thickness t _{fix} [mm]				Number of		
	diameter and	diameter and New b			uildings mm + 20mm of old plaster)	pieces in a box		
	length (uk x Ek)	Cat. A B C D	C	at. E	Cat. A B C D	DOX		
ECODRIVE-W-08150	8x150	80		60	60	50		
ECODRIVE-W-08170	8x170	100	80		80	50		
ECODRIVE-W-08190	8x190	120	100		100	50		
ECODRIVE-W-08210	8x210	140	120		120	50		
ECODRIVE-W-08230	8x230	160	140		140	50		
ECODRIVE-W-08250	8x250	180	160		160	50		
ECODRIVE-W-08270	8x270	200	180		180	50		
ECODRIVE-W-08290	8x290	220	200		200	50		
ECODRIVE-W-08310	8x310	240	220		220	50		
ECODRIVE-W-08330	8x330	260	240		240	50		
ECODRIVE-W-08350	8x350	280	260		260	50		
ECODRIVE-W-08370	8x370	300	280		280	50		
ECODRIVE-W-08390	8x390	320	300		300	50		
ECODRIVE-W-08410	8x410	340	320		320	50		
ECODRIVE-W-08430	8x430	360	340		340	50		

Section 4. REMARKS

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