

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
- lamellar wool

Types of substrates on which the ECO-DRIVE W-8 fastener can be installed according to EAD 330196-01-0604 :

A	B	C	D	E
				
Concrete	Solid ceramic brick, silicate	Ceramic block	Elements made of lightweight aggregate	Aerated concrete



screw fastener, TORX-40 socket



modern telescopic structure



wool disc

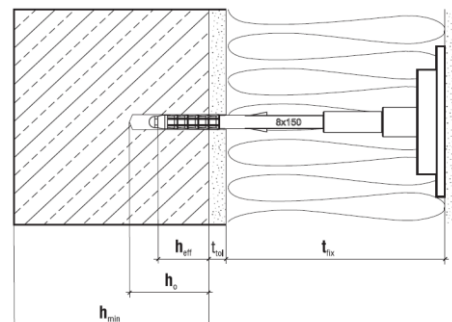
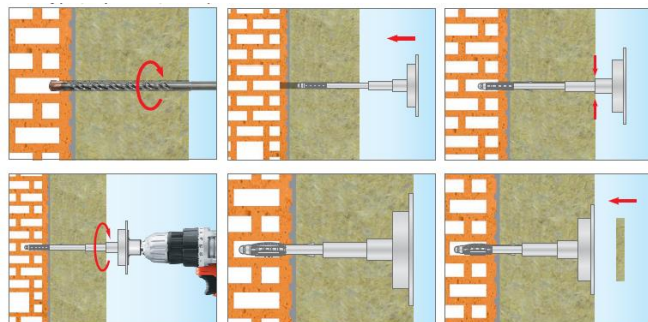


The fasteners have the European Technical Assessment: ETA-13/0107

Section 2. INSTALLATION METHOD

1. Before starting the installation, it is necessary to recognize the support and select the fasteners intended for it.
2. The appropriate length of the fastener must be chosen so that the expansion zone is located in the building material of the wall.
3. The minimum length of the fastener is: $L_d = t_{fix} + t_{tol} + h_{eff} + 25mm$ (immersion of the movable part of the fastener flange in the heat-insulating material), where: t_{fix} - thickness of the attached heat insulation, t_{tol} - thickness of the levelling layers (adhesive mortar + existing plaster), h_{eff} - anchoring depth of the fastener in the substrate (reported in the data sheet and in the technical approval)
4. Before installation, the substrate must be prepared according to the recommendations of the ETICS insulation system manufacturer.
5. The thermal insulation panels must be properly 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 should be cleaned of drilling debris using a back and forth motion of the drill at a slow speed, repeating the operation four times.
9. Holes in substrates with voids and aerated concrete should be drilled without the use of a hammer, as this would cause the internal walls of the substrate to crack, reducing the pull-out strength of the fasteners.
10. The fasteners must be fixed so that the installation location coincides with the position of the adhesive mortar on the heat-insulating panel.
11. The fastener body must be positioned so that the fastener rests on the mineral wool with the first ring under the plate.
12. Then screw the fastener pressure plate using the **EDST-W device** and close the mounting point with the included **EDKW** mineral wool disc.

Recessed installation with mineral wool disc



PRODUCT DATA SHEET – ECO-DRIVE W-8

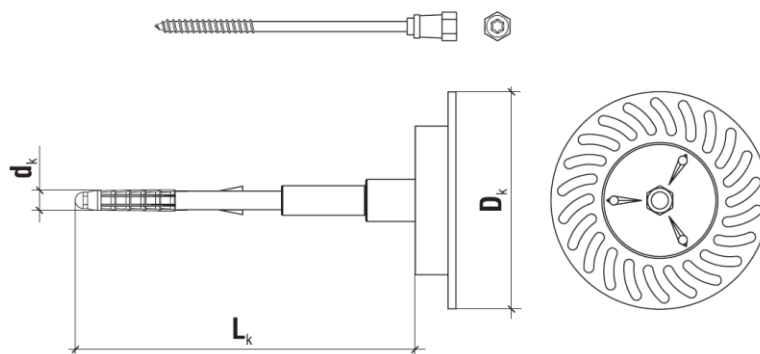
Section 3. SPECIFICATIONS

TECHNICAL PARAMETERS		
Parameter	Unit	Value
Fastener diameter	d_k [mm]	8
Plate diameter	D_k [mm]	110
Anchoring depth	h_{eff} [mm]	35/55*
Depth of the hole	h_0 [mm]	45/65*
Point thermal conductivity	χ [W/K]	0.002
Plate stiffness	S [kN/mm]	0.60
Utility Categories	[-]	ABCDE
Fastener material	[-]	PA
Stem material	[-]	Galvanized steel, head covered in PA+GF
European Technical Assessment	[-]	ETA-13/0107

*for category E supports (aerated concrete)

FORCE PARAMETERS			
Substrate Category	Substrate type	Density [kg/dm³]	Characteristic load capacity [kN]
A	Concrete C12/15	≥ 2.25	1.20
A	Concrete C16/20 – C50/60	≥ 2.30	1.50
B	Solid ceramic brick	≥ 2.00	1.50
B	Solid silicate brick	≥ 2.00	1.50
C	Silicate channel blocks	≥ 1.60	1.50
C	Hollow ceramic brick	≥ 1.20	1.50
C	Lightweight concrete blocks	≥ 0.80	1.50
D	Lightweight concrete blocks	≥ 1.05	0.90
E	AAC2 aerated concrete	≥ 0.35	0.60
E	AAC7 aerated concrete	≥ 0.65	1.20

Partial safety factor $\gamma_M = 2$ in the absence of regulation



SELECTION TABLE					
Product code	Fastener diameter and length (d _k x L _k)	Thickness of thermal insulation material t _{fix} [mm]			Quantity in the package [pcs]
		New buildings (t _{tol} adhesive layer of 10mm)		Old buildings (t _{tol} adhesive layer of 10mm + 20mm of old plaster)	
		Cat. A B C D	Cat. E	Cat. A B C D	
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 Technical Data Sheet are no longer valid
2. The data given in this Product Data Sheet are in accordance with the current state of knowledge and are provided in good faith. If the recommendations on how to use and install the product are not followed, KLIMAS Sp. z o.o. is not responsible for the correctness and quality of the connection.