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PRODUCT DATA SHEET – KW



Section 1. PRODUCT DESCRIPTION

UNIVERSAL PLUG WITH COUNTERSUNK HEAD SCREW - KW

Universal plug KW comprises sleeve made of polyamide and countersunk head steel screw with protective zinc coating. It is designed for fixing of light-duty interior finish systems, wooden strips and lightweight installations on most building substrates. The sleeve has antirotation lugs which keep the plug-in place when screwing in the screw.

Types of substrates on which universal plug KW can be installed:

- Concrete
- Solid clay brick and sand-lime brick
- Hollow clay brick and sand-lime brick
- Plasterboard

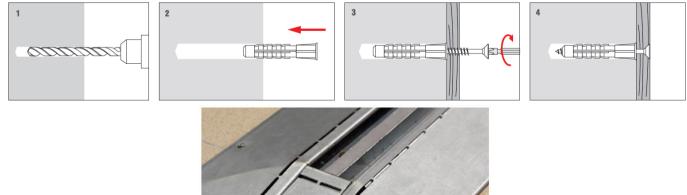


POLSKI

100% nylon

Section 2. METHOD OF INSTALLATION

- 1. Original plugs delivered by the manufacturer can be used only
- 2. Before installation identify a substrate in which the plug will be installed and compare loads which the plug will carry to resistance values given in Product Data Sheet or Technical Approval
- 3. Select an adequate length of the plug so that expansion zone is in the construction material of the wall (thickness of member being fixed matches max. usable length of the plug t_{fix})
- 4. Use proper method of drilling according to a substrate type (holes in masonry substrate made of hollow blocks should be drilled using a drill without impact)
- 5. Diameter of drilled holes should match diameter of the plugs used
- 6. Drilled holes in substrates of solid materials should be deeper by min. 10mm compared to the plug anchorage depth
- 7. Clean the holes in solid materials of drillings with a back and forth motion of the drill at a reduced speed
- 8. Then insert the plug into a drilled hole, and drive the screw through the element being fixed until it completely penetrates the sleeve (prefastening installation)



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*for KW 6/8/10 **for KW-10

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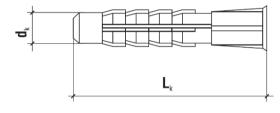
PRODUCT DATA SHEET – KW

Section 3. TECHNICAL DATA

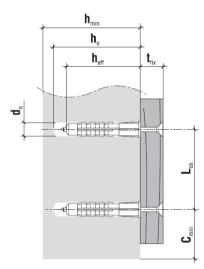
TECHNICAL PARAMETERS					
Parameter	Unit	Value			
Plug diameter	d _k [mm]	6/8/10			
Hole/drill diameter	d₀ [mm]	6/8/10			
Effective anchorage depth	h _{eff} [mm]	35/50/60*			
Drilled hole depth	h₀ [mm]	45/60/70*			
Drive type	[-]	PZ-2/PZ-3**			
Sleeve material	[-]	PA – polyamide			
Screw material	[-]	Zinc-plated steel			

RESISTANCE						
Substrate type	Design pull-out resistance [kN]					
Substrate type	KW-6	KW-8	KW-10			
Concrete C20/25	0,48	0,79	1,01			
Solid clay brick	0,33	0,52	0,70			
Hollow brick	0,20	0,22	0,24			
Plasterboard 12.5mm	0,23	0,28	0,29			

INSTALLATION PARAMETERS						
Plug type	Min. substrate thickness	Min. distance from edge	Min. axial distance			
	h _{min} [mm]	c _{min} [mm]	L _{os} [mm]			
KW-6	70	70	140			
KW-8	100	100	200			
KW-10	120	120	240			







SELECTION TABLE							
Sleeve diameter and Product code length		Screw diameter and length	Max. usable length	Drive type	Number of pieces in a box		
d _{k x} L _k [mm]	d _{k x} L _k [mm]	d _{w×} L _w [mm]	t _{fix} [mm]	[-]	[pcs]		
KW-06045	6x35	3,5x45	5	PZ-2	100		
KW-06060	6x50	3,5x60	20	PZ-2	100		
KW-08060	8x50	4,5x60	5	PZ-2	100		
KW-08080	8x50	4,5x80	25	PZ-2	100		
KW-10080	10x60	6,0x80	15	PZ-3	100		
KW-10100	10x60	6,0x100	35	PZ-3	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.