

Section 1. PRODUCT DESCRIPTION

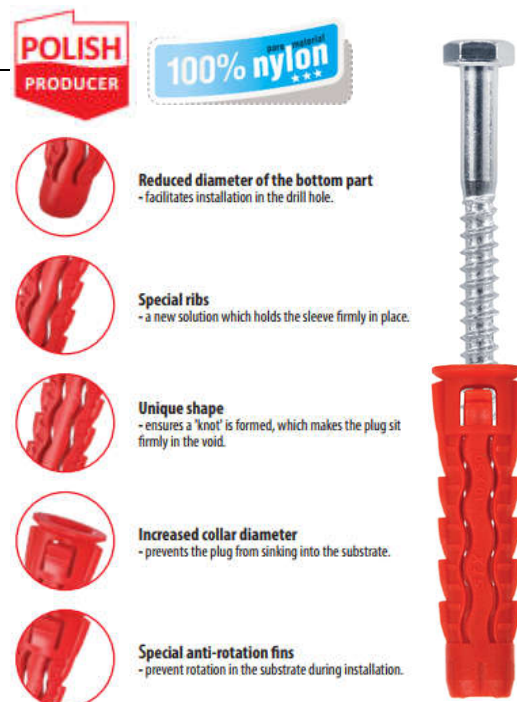
UNIVERSAL PLUG WITH HEX HEAD SCREW – SFXK

Universal plug SFXK comprises sleeve made of polyamide and hex head steel screw with protective zinc coating. It is designed for fixing of light-duty interior finish systems and lightweight installations on all building substrates. The sleeve has ribs and stabilising fins which prevent rotation of sleeve during installation and provide initial fixation in the substrate. Unique shape of the sleeve allows for installation in both solid materials (by expansion of the sleeve) and materials with voids (by shape fixation provides a “knot” formation).

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

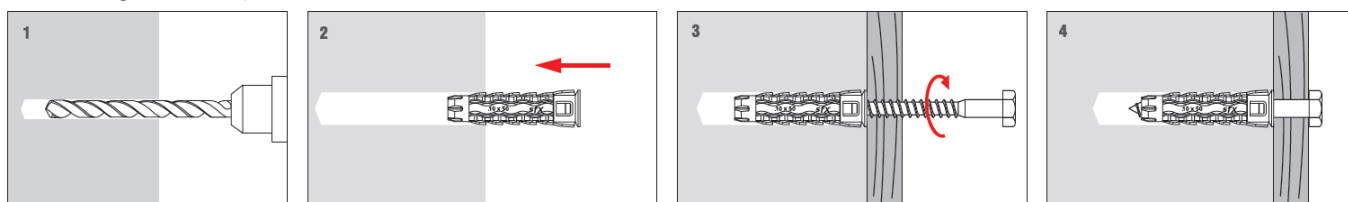
- Concrete
- Solid clay brick and sand-lime brick
- Hollow clay brick
- Hollow sand-lime brick
- Autoclaved aerated concrete
- Fibre-cement board, plasterboard

Universal plugs hold National Technical Assessment:
ITB-KOT-2021/1847 edition 1



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 National Technical Assessment
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 brickwork substrate made of hollow or autoclaved aerated concrete 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 (pre-fastening installation)



MATERIALS WITH VOIDS (e.g. hollow clay brick)



SOLID MATERIALS (e.g. concrete, aerated concrete) PLASTERBOARD



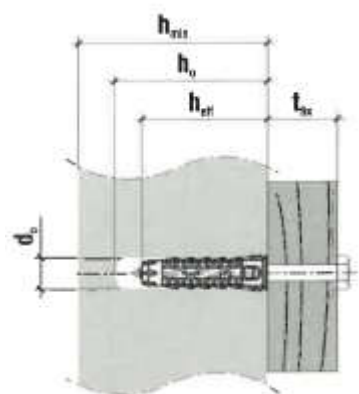
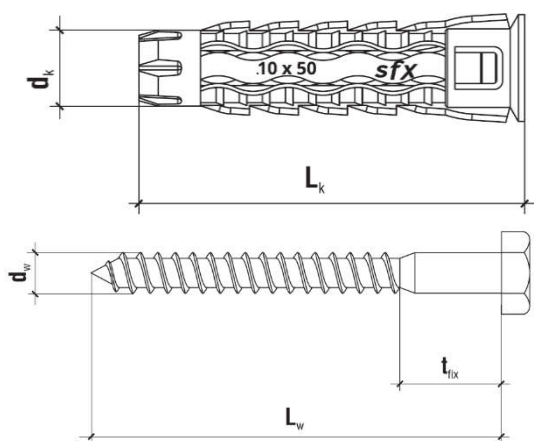
PRODUCT DATA SHEET – SFXK

Section 3. TECHNICAL DATA

TECHNICAL PARAMETERS		
Parameter	Unit	Value
Plug diameter	d_k [mm]	10
Hole/drill diameter	d_o [mm]	10
Effective anchorage depth*	h_{eff} [mm]	50/60
Drilled hole depth	h_o [mm]	60/70
Drive type	[-]	SW-10
Sleeve material	[-]	PA - polyamide
Screw material	[-]	Zinc-plated steel
National Technical Assessment	[-]	ITB-KOT-2021/1847 edition 1

*for plasterboards and fibre-cement boards, h_{eff} = board thickness

RESISTANCE		
Substrate type	Characteristic pull-out resistance from the substrate and shear [kN]	
	10x50	10x60
Concrete C20/25 – C50/60	0,75	0,75
Solid clay brick	1,5	1,5
Solid sand-lime brick	1,5	1,5
Hollow clay brick	0,9	0,9
Hollow sand-lime brick	0,9	0,9
Autoclaved aerated concrete	1,5	1,5
Plasterboard 12.5mm	0,4	0,4
Plasterboard 2x12.5mm	0,9	0,9
Fibre-cement board 12.5mm	0,4	0,4



SELECTION TABLE					
Product code	Sleeve diameter and length	Screw diameter and length	Max. usable length	Drive type	Number of pieces in a box
	$d_k \times L_k$ [mm]	$d_w \times L_w$ [mm]	t_{fix} [mm]	[-]	[pcs]
SFXK-10050060	10x50	6x60	10	SW-10	25
SFXK-10050070	10x50	6x70	20	SW-10	25
SFXK-10060070	10x60	6x70	10	SW-10	25
SFXK-10060080	10x60	6x80	20	SW-10	25

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.