KLIMAS Sp. z o.o. ul. W. Witosa 135/137 Kuźnica Kiedrzyńska 42-233 Mykanów

tel. +48 34 377 71 00, fax. +48 34 328 01 73 Infolinia: 801 477 477, www.wkret-met.com



PRODUCT DATA SHEET - KPD

Section 1. PRODUCT DESCRIPTION

FRAME PLUG WITH DOUBLE THREADED SCREW - KPD

Sleeves of frame plug are made of polyamide with a specially shaped zinc-plated double threaded screw. It is designed for fixing of downpipe clamping harnesses, ventilation ducts or cable containment systems. Used metric thread M8 enables installation of most clips and clamps. Frame plug features very high strength and can be installed problem-free in various materials.

biały 100% nylon

PRODUCEN

0cynk

Types of substrates on which frame plug KPD can be installed:

- **Normal concrete**
- Solid clay brick
- Perforated ceramic brick
- **Autoclaved aerated concrete**

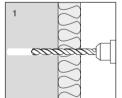


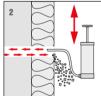


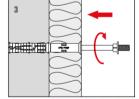
Frame plugs KPD hold National Technical Assessment: ITB-KOT-2018/0528 Rev. 2

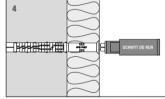
Section 2. METHOD OF INSTALLATION

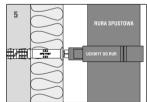
- Original frame plugs delivered by the manufacturer can be used only 1
- Before installation identify a substrate in which the plug is to be installed and compare loads which the plug carries to load-bearing 2. capacity values given in Product Data Sheet or National Technical Assessment
- 3. Select 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
- Drilled holes in substrates of solid materials should be deeper by min. 10mm compared to the plug anchorage depth 6.
- 7. Clean the holes in solid materials of drillings with a back and forth motion of the drill at a reduced speed
- Then insert the plug into a drilled hole, and drive the screw until it completely penetrates the sleeve 8.
- 9. Forceful tightening of the screw can result in its failure which is not covered by the manufacturer's warranty













KLIMAS Sp. z o.o. ul. W. Witosa 135/137 Kuźnica Kiedrzyńska 42-233 Mykanów

tel. +48 34 377 71 00, fax. +48 34 328 01 73 Infolinia: 801 477 477, www.wkret-met.com



PRODUCT DATA SHEET - KPD

Section 3. TECHNICAL DATA

TECHNICAL PARAMETERS					
Parameter	Unit	Value			
Plug diameter	d _k [mm]	10/12*			
Hole/drill diameter	d₀ [mm]	10/12*			
Anchorage depth	h _{eff} [mm]	70			
Drilled hole depth	h₀ [mm]	80			
Thread diameter	D [mm]	M8			
Wrench size	[-]	SW-10			
Sleeve material	[-]	PA - polyamide			
Screw material	[-]	Zinc-plated steel			
National Technical Assessment	[-]	ITB-KOT-2018/0528			

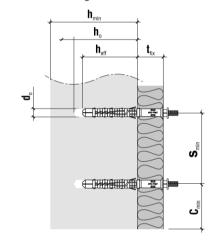
*for	KPD	10/KPD	12
------	------------	--------	----

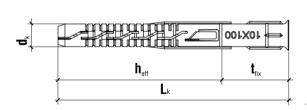
INSTALLATION PARAMETERS					
Substrate type	Min. substrate thickness	Min. distance from edge	Min. axial distance		
	h _{min} [mm]	c _{min} [mm]	Los [mm]		
Normal concrete	105	140	140		
Solid clay brick	105	140	210		
Perforated ceramic brick	105	140	210		
Autoclaved aerated concrete	105	140	210		

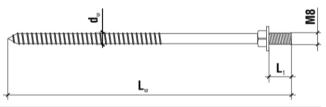
RESISTANCE					
	Design resistance [kN]				
Substrate type	KPD 10		KPD 12		
	$N_{R,d}$	$V_{R,d}$	$N_{R,d}$	$V_{R,d}$	
Normal concrete (1)	0,83	1,2	0,83	1,2	
Solid clay brick (2)	1,0	2,0	0,8	1,6	
Perforated ceramic brick (3)	0,48	0,96	0,48	0,96	
Autoclaved aerated concrete ⁽⁴⁾	1,0	1,6	1,0	1,6	

 $^{^{(1)}}$ class C20/25 \div C50/60 according to PN-EN 206+A1:2016

 $^{^{\}rm (4)}$ type 600 and class 4 according to PN-EN 771-4+A1:2015







SELECTION TABLE						
Product code	Sleeve diameter and length	Screw diameter and length	Max. usable length	Length of metric thread	Drive type	Number of pieces in a box
	d _{k x} L _k [mm]	d _{w x} L _w [mm]	t _{fix} [mm]	L ₁ [mm]	[-]	[pcs]
KPD-10100	10x100	7x105	30	8 ±1	SW-8	50
KPD-10160	10x160	7x165	90	8 ±1	SW-8	50
KPD-10200	10x200	7x205	130	8 ±1	SW-8	25
KPD-12100	12x100	8x105	30	13 ±1	SW-8	25
KPD-12160	12x160	8x165	90	13 ±1	SW-8	25
KPD-12200	12x200	8x205	130	13 ±1	SW-8	25
KPD-12260	12x260	8x265	190	13 ±1	SW-8	25
KPD-12300	12x300	8x305	230	13 ±1	SW-8	25

 $^{^{(2)}\,\}text{class}$ 25 according to PN-EN 771-1+A1:2015

 $^{^{\}rm (3)}$ class 15 according to PN-EN 771-1+A1:2015, with wall thickness 12mm



KLIMAS Sp. z o.o. ul. W. Witosa 135/137 Kuźnica Kiedrzyńska 42-233 Mykanów

PRODUCT DATA SHEET - KPD

tel. +48 34 377 71 00, fax. +48 34 328 01 73 Infolinia: 801 477 477, www.wkret-met.com



Section 4. REMARKS

- 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.