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

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PRODUCT DATA SHEET - KPK

Section 1. PRODUCT DESCRIPTION

FRAME PLUG WITH HEX HEAD SCREW - KPK

POLSKI PRODUCEN

Sleeves of frame plug are made of polyamide with a specially shaped zinc-plated hex head screw. Frame plug is designed for fixing of wood members (square timber, planks, battens), ventilated façade members and steel members (profiles, sheets). Frame plug is characterized by very high resistance and problem-free installation in various materials.



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

- Solid clay brick
- Porous block
- Autoclaved aerated concrete

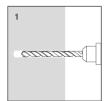


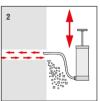


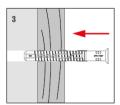
Frame plugs KPK hold National Technical Assessment: ITB-KOT-2018/0528 Rev. 2

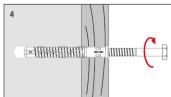
Section 2. METHOD OF INSTALLATION

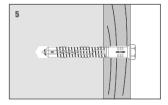
- Original frame plugs delivered by the manufacturer can be used only
- 2. Before installation identify a substrate in which the plug will be installed and compare loads which the plug will carry to resistance values given in Product Data Sheet or National Technical Assessment
- Select an adequate length of the plug so that expansion zone is in the construction material of the wall (thickness of member being fixed 3. matches max. usable length of the plug – t_{fix})
- 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)
- 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
- 8. Then insert the plug into a drilled hole, and drive the screw until it completely penetrates the sleeve
- Forceful tightening of the screw can result in its failure which is not covered by the manufacturer's warranty 9.
- 10. While the plug is being installed the temperature should be higher than 0°C (this applies to substrate temperature)











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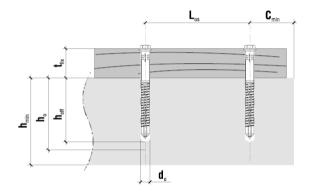
PRODUCT DATA SHEET - KPK

Section 3. TECHNICAL DATA

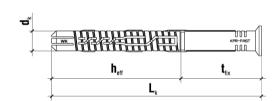
| TECHNICAL PARAMETERS | | | | | | | |
|----------------------------------|-----------------------|-------------------|--|--|--|--|--|
| Parameter | Unit | Value | | | | | |
| Plug diameter | d _k [mm] | 12 | | | | | |
| Hole/drill diameter | d ₀ [mm] | 12 | | | | | |
| Effective anchorage depth | h _{eff} [mm] | 70 | | | | | |
| Drilled hole depth | h ₀ [mm] | 80 | | | | | |
| Wrench size | [-] | SW-13 | | | | | |
| Sleeve material | [-] | PA - polyamide | | | | | |
| Screw material | [-] | Zinc-plated steel | | | | | |
| National Technical Assessment | [-] | ITB-KOT-2018/0528 | | | | | |

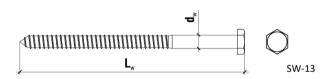
| RESISTANCE | | | | | | |
|---------------------------------|------------------------|-----------|--|--|--|--|
| | Design resistance [kN] | | | | | |
| Substrate type | KPK | | | | | |
| | $N_{R,d}$ | $V_{R,d}$ | | | | |
| Solid clay brick (1) | 0,6 | 1,2 | | | | |
| Porous block (2) | 0,48 | 0,96 | | | | |
| Autoclaved aerated concrete (3) | 0,45 | 0,72 | | | | |

⁽¹⁾ class 25 according to PN-EN 771-1+A1:2015



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





| 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 x} L _k [mm] | d _{w x} L _w [mm] | t _{fix} [mm] | [-] | [pcs] | | |
| KPK-12100 | 12x100 | 8x100 | 30 | SW-13 | 25 | | |
| KPK-12120 | 12x120 | 8x120 | 50 | SW-13 | 25 | | |
| KPK-12140 | 12x140 | 8x140 | 70 | SW-13 | 25 | | |
| KPK-12160 | 12x160 | 8x160 | 90 | SW-13 | 25 | | |
| KPK-12180 | 12x180 | 8x180 | 110 | SW-13 | 25 | | |
| KPK-12200 | 12x200 | 8x200 | 130 | SW-13 | 25 | | |

Section 4. REMARKS

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

 $^{^{(2)}}$ class 15 according to PN-EN 771-1+A1:2015, with wall thickness 12mm

 $^{^{(3)}}$ type 600 and class 4 according to PN-EN 771-4+A1:2015