

Section 1. PRODUCT DESCRIPTION

FRAME PLUG WITH HEX/COUNTERSUNK HEAD SCREW AND TX DRIVE – KPR-FAST 14 K/KPS-FAST 14 S

Sleeves of frame plugs are made of polyamide with a specially shaped steel screw type K (hex head) or S (countersunk head) for fixing of members on all substrate types. Screws are made of zinc-plated hardened steel. Frame plugs are characterized by very high resistance and problem-free installation in various materials. Plugs with hex head (K) are used for fixing of metal members, and plugs with countersunk head (S) for fixing of wood members. The sleeve is pre-assembled with the screw.

Substrates on which frame plug KPR-FAST 14 K/KPS-FAST 14 S can be installed according to ETAG 020:

- Category A – concrete
- Category B – solid clay brick and sand-lime brick
- Category C – hollow clay and sand-lime brick, porous block
- Category D – lightweight concrete blocks, autoclaved aerated concrete



Redukcja gwintu

Ocynk biały

100% nylon

360mm długość aż do

ETAG 020

A B C D



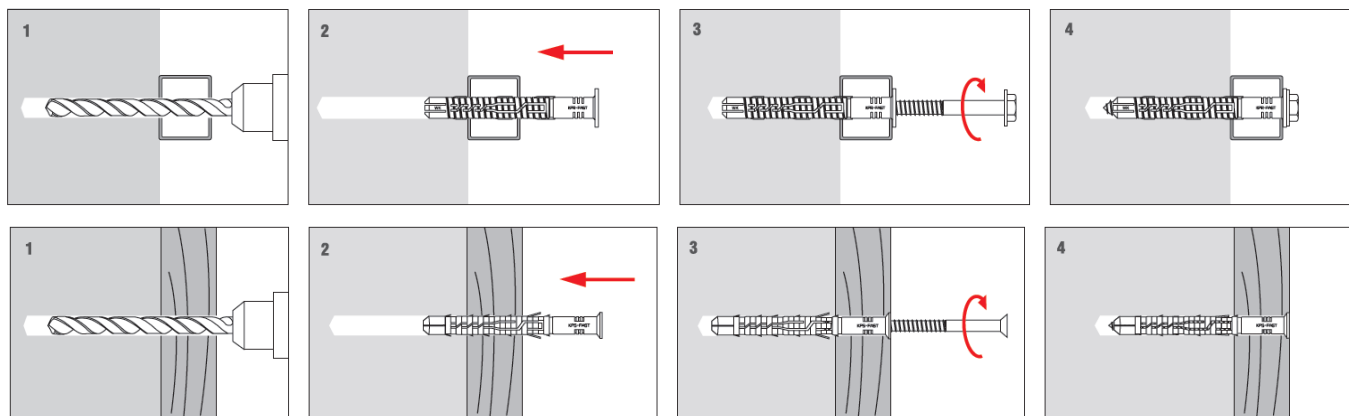
KPR-FAST 14 K KPS-FAST 14 S



Frame plugs hold European Technical Assessment: ETA-12/0272

Section 2. METHOD OF INSTALLATION

1. Original frame plugs delivered by the manufacturer can be used only
2. Before installation identify a substrate on which the plug will be installed and compare loads which the plug will carry to resistance values given in Product Data Sheet or European 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 until it completely penetrates the sleeve
9. Forceful tightening of the screw can result in its failure which is not covered by the manufacturer's warranty
10. While the plug is being installed the temperature should be higher than 0°C (this applies to substrate temperature)



PRODUCT DATA SHEET – KPR-FAST 14 K/KPS-FAST 14 S

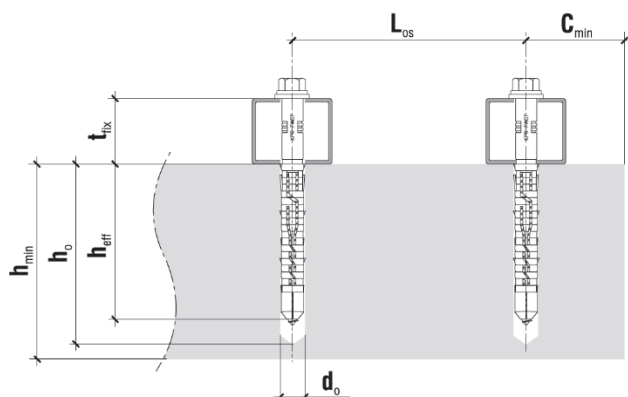
Section 3. TECHNICAL DATA

TECHNICAL PARAMETERS		
Parameter	Unit	Value
Plug diameter	d_k [mm]	14
Hole/drill diameter	d_o [mm]	14
Effective anchorage depth	h_{eff} [mm]	70
Drilled hole depth	h_o [mm]	80
Drive type	[-]	(TX-50/SW-17)/(TX-50)*
Use categories	[-]	A B C D
Sleeve material	[-]	PA – polyamide
Screw material	[-]	Zinc-plated steel
European Technical Assessment	[-]	ETA-12/0272

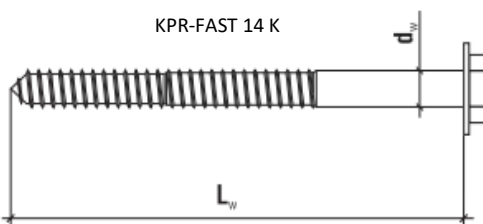
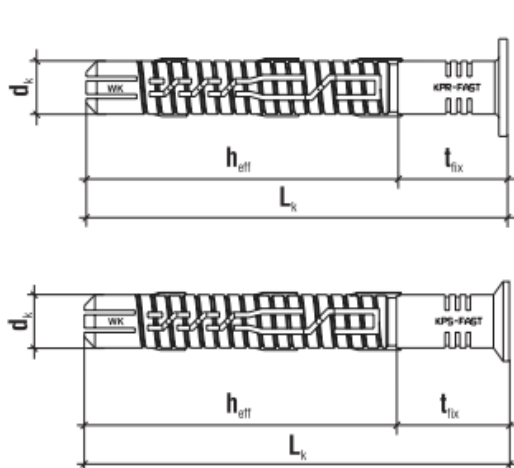
*for KPR-FAST 14 K/KPS-FAST 14 S

RESISTANCE				
Use categories	Substrate type	Density [kg/dm³]	Characteristic resistance [kN]	
			KPR-FAST K	KPS-FAST S
A	Concrete C12/15	$\geq 2,25$	5,5*	
A	Concrete C16/20	$\geq 2,30$	8,0*	
B	Solid clay brick	$\geq 2,00$	4,0	
B	Solid sand-lime brick	$\geq 2,00$	4,0	
C	Hollow sand-lime block	$\geq 1,60$	3,5	
C	Hollow brick	$\geq 1,20$	2,0	
D	Lightweight concrete	$\geq 0,80$	2,0	
D	Autoclaved aerated	$\geq 0,35$	0,9	
D	Autoclaved aerated	$\geq 0,65$	3,0	

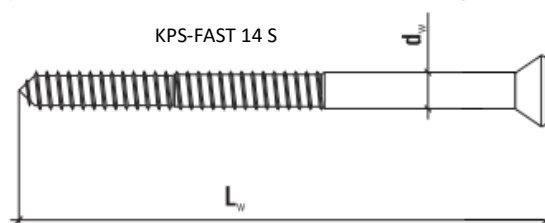
*cracked concrete



INSTALLATION PARAMETERS			
Substrate type	Min. substrate thickness	Min. distance from edge	Min. axial distance
	h_{min} [mm]	C_{min} [mm]	L_{os} [mm]
Concrete C12/15	100	140	140
Concrete C16/20	100	100	100
Solid clay brick	120	100	200
Solid sand-lime brick	120	100	200
Hollow brick	180	100	200
Autoclaved aerated concrete	100	100	200



SW-17
TORX-50



TORX-50

PRODUCT DATA SHEET – KPR-FAST 14 K/KPS-FAST 14 S

SELECTION TABLE – KPR-FAST 14 K/KPS-FAST 14 S						
Product code		Sleeve diameter and length	Screw diameter and length	Max. usable length	Drive type	Number of pieces in a box
KPR-FAST 14 K	KPS-FAST 14 S	d _k x L _k [mm]	d _w x L _w [mm]	t _{fix} [mm]	[-]	[pcs]
KPR-FAST-14080K	KPS-FAST-14080S	14x80	10x85	10	(TX-50/SW-17)/(TX-50)	20
KPR-FAST-14100K	KPS-FAST-14100S	14x100	10x105	30	(TX-50/SW-17)/(TX-50)	20
KPR-FAST-14120K	KPS-FAST-14120S	14x120	10x125	50	(TX-50/SW-17)/(TX-50)	25
KPR-FAST-14140K	KPS-FAST-14140S	14x140	10x145	70	(TX-50/SW-17)/(TX-50)	25
KPR-FAST-14160K	KPS-FAST-14160S	14x160	10x165	90	(TX-50/SW-17)/(TX-50)	25
KPR-FAST-14180K	KPS-FAST-14180S	14x180	10x185	110	(TX-50/SW-17)/(TX-50)	25
KPR-FAST-14200K	KPS-FAST-14200S	14x200	10x205	130	(TX-50/SW-17)/(TX-50)	15
KPR-FAST-14230K	KPS-FAST-14230S	14x230	10x235	160	(TX-50/SW-17)/(TX-50)	15
KPR-FAST-14260K	KPS-FAST-14260S	14x260	10x265	190	(TX-50/SW-17)/(TX-50)	15
KPR-FAST-14300K	KPS-FAST-14300S	14x300	10x305	230	(TX-50/SW-17)/(TX-50)	10
KPR-FAST-14330K	KPS-FAST-14330S	14x330	10x335	260	(TX-50/SW-17)/(TX-50)	10
KPR-FAST-14360K	KPS-FAST-14360S	14x360	10x365	290	(TX-50/SW-17)/(TX-50)	10



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.