FRAME PLUGS Ø14

POLISH PRODUCER

ETA CE

KPR-FAST 14 K

TX HEX HEAD SCREW

KPS-FAST 14 S

TX COUNTERSUNK HEAD SCREW

100% secure fixing

100% pure material nylon

REDUCED THREAD

- precise installation of the screw
- increased expansion force in the second expansion zone

length up to 360 mm

ETAG 020 A B C D

all Directions expansion zone

strong plus

KPR-FAST 14 K
Frame plug Ø14 with hex head screw

KPS-FAST 14 S
Frame plug Ø14 with countersunk head screw

POLISH PRODUCER

ETA-12/0272

ETAG 020 A B C D

Description

Frame plug with flanged hex head screw for fixing of metal members, frame plug with countersunk head screw for fixing of wood

Technical data

Type of installation	push-through installation
Substrate	concrete, solid clay brick, perforated clay brick, autoclaved aerated concrete

Sleeve material / Protective coating

100% nylon

Blue zinc

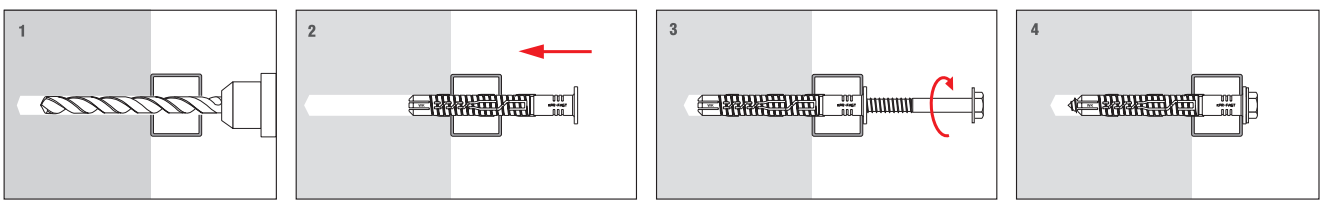
Features and advantages of the product

360 mm — **Screw length** — **We manufacture screws up to 360 mm long**

Hex head with TX-50/SW-17 drive — TX drive ensures optimum transfer of torque while SW-17 hex head allows for tightening the screw with a given force (e.g. with torque wrench).

Reduced thread — Precise installation of the screw
Increased expansion force in the second expansion zone.

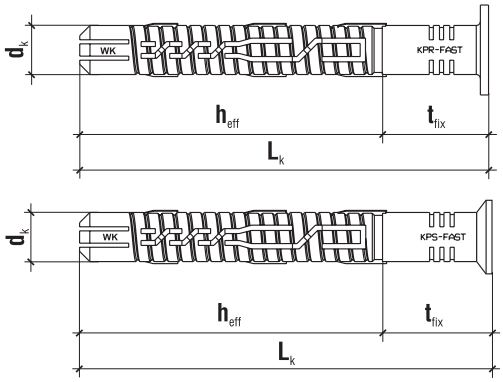
Installation

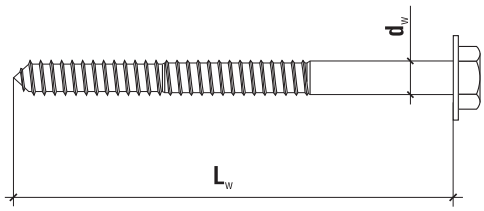


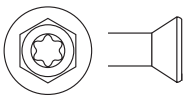
TECHNICAL DATA

Product marking

KPR-FAST	14	080	K
Type	Diameter	Length	Head type







SW-17
TX-50

TX-50

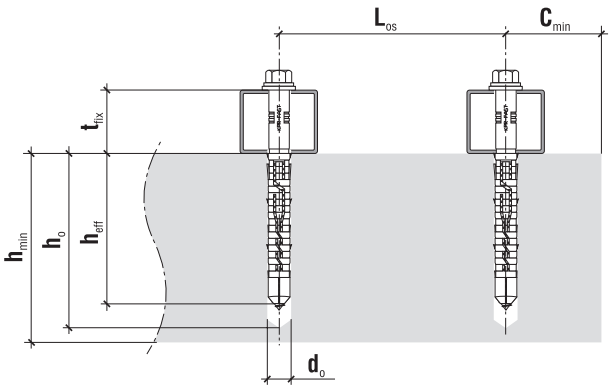
	Code KPR-FAST 14 K	Code KPS-FAST 14 S	d_k x L_k [mm]	d_w x L_w [mm]	Max. fixture thickness t_{fix} [mm]	Drive type KPR-FAST 14 K		Drive type KPS-FAST 14 S	Pcs	
									KPR-FAST 14K	KPS-FAST 14S
ø14	KPR-FAST-14080K	KPS-FAST-14080S	14 x 80	10 x 85	10	TX-50	SW-17	TX-50	20	20
	KPR-FAST-14100K	KPS-FAST-14100S	14 x 100	10 x 105	30	TX-50	SW-17	TX-50	20	20
	KPR-FAST-14120K	KPS-FAST-14120S	14 x 120	10 x 125	50	TX-50	SW-17	TX-50	20	25
	KPR-FAST-14140K	KPS-FAST-14140S	14 x 140	10 x 145	70	TX-50	SW-17	TX-50	25	25
	KPR-FAST-14160K	KPS-FAST-14160S	14 x 160	10 x 165	90	TX-50	SW-17	TX-50	25	25
	KPR-FAST-14180K	KPS-FAST-14180S	14 x 180	10 x 185	110	TX-50	SW-17	TX-50	25	25
	KPR-FAST-14200K	KPS-FAST-14200S	14 x 200	10 x 205	130	TX-50	SW-17	TX-50	15	15
	KPR-FAST-14230K	KPS-FAST-14230S	14 x 230	10 x 235	160	TX-50	SW-17	TX-50	15	15
	KPR-FAST-14260K	KPS-FAST-14260S	14 x 260	10 x 265	190	TX-50	SW-17	TX-50	15	15
	KPR-FAST-14300K	KPS-FAST-14300S	14 x 300	10 x 305	230	TX-50	SW-17	TX-50	10	10
	KPR-FAST-14330K	KPS-FAST-14330S	14 x 330	10 x 335	260	TX-50	SW-17	TX-50	10	10
	KPR-FAST-14360K	KPS-FAST-14360S	14 x 360	10 x 365	290	TX-50	SW-17	TX-50	10	10

TECHNICAL DATA

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

SUBSTRATE - MINIMUM THICKNESS, DISTANCE

Substrate	Min. member thickness h_{min} [mm]	Min. edge distance c_{min} [mm]
Concrete ≥C20/25	100	100
Solid clay brick	120	100
Solid sand-lime brick	120	100
Perforated clay brick	180	100
Autoclaved aerated concrete	180	100



RESISTANCE KPR-FAST 14 K / KPS-FAST 14 S

Type of substrate according to ETAG020		Description	Density [kg/dm³]	Standard	Characteristic pull-out resistance [kN]	
					KPR-FAST 14 K	KPS-FAST 14 S
A		Concrete C12/15	≥ 1.8	EN 206-1	5.5*	
		Concrete ≥C16/20	≥ 2.3	EN 206-1	8.0*	
B		Solid clay brick	≥ 1.7	EN 771-1	4.0	
		Solid clay brick (e.g. MZ Rd 2.0/20)	≥ 2.0	EN 771-1	4.0	
B		Solid sand-lime brick (e.g. Kalksandstein KS NF 20-2.0 Vollstein - DIN 106)	≥ 2.0	EN 771-2	4.0	
C		Hollow sand-lime blocks KSL (e.g. Kalksandstein KS L-R(P) 8 DF Lochstein - DIN 106)	≥ 1.6	EN 771-2	3.5	
C		Vertically perforated clay brick (e.g. Hlz Rd1 1.2/12)	≥ 1.2	EN 771-1	2.0	
D		Lightweight concrete hollow blocks (e.g. HBL 2/0.8)	≥ 0.8	EN 771-3	2.0	
D		Autoclaved aerated concrete AAC2	≥ 0.35	EN 771-4	0.9	
		Autoclaved aerated concrete AAC7	≥ 0.65	EN 771-4	3.0	

* cracked concrete