

FRAME PLUGS Ø10

KPR-FAST 10 K



TX HEX HEAD SCREW

KPS-FAST 10 S



TX COUNTERSUNK HEAD SCREW



100% ^{pure material} nylon

100% secure fixing

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



length upto 300 mm



KPR-FAST 10 K

Frame plug Ø10 with hex head screw
ZINC PLATED SCREW

KPR-FAST 10 K A4

Frame plug Ø10 with hex head screw
A4 STEEL SCREW

KPR-FAST 10 K 00

Frame plug Ø10 with hex head screw
HOT-DIP GALVANIZED SCREW



ETA-12/0272

Description

Frame plug with flanged hex head screw for fixing of metal members

Technical data

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

Sleeve material / Protective coating



Features and advantages of the product



Screw length

We manufacture screws up to 300 mm long



Hex head with TX-40/SW-13 drive

TX drive ensures optimum transfer of torque and SW-13 hex head allows for tightening the screw with a given force (e.g. with torque wrench).



Reduced thread

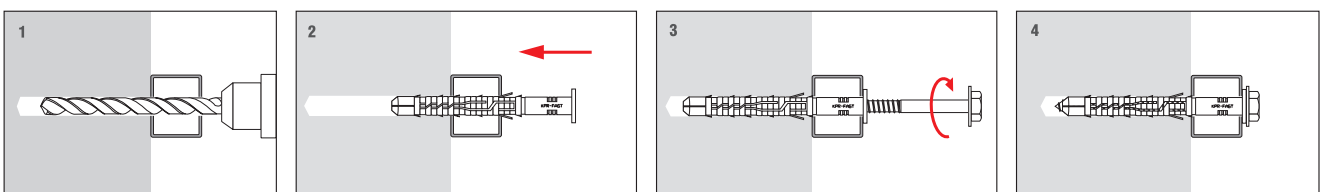
Precise installation of the screw
Increased expansion force in the second expansion zone.



Resistance to fire

For assembling facade systems the fastener has a sufficient fire resistance of at least 90 minutes (R90) if the permissible design load for a single anchorage $N_r \leq 0.8$ kN (without permanent longitudinal axial load).

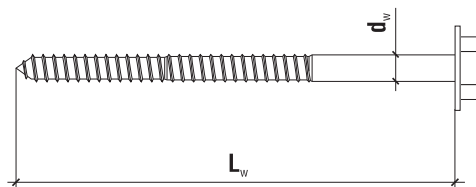
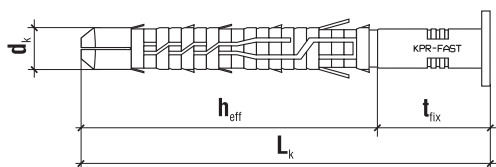
Installation



TECHNICAL DATA

Product marking

KPR-FAST	10	080	K	00
Type	Diameter	Length	Head type	Type of steel and coating



SW-13
TX-40

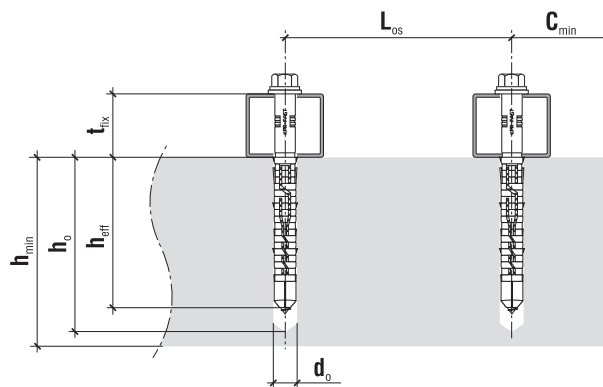
Ø10	Code BLUE ZINC PLATED	Code A4 STAINLESS STEEL	Code HOT-DIP GALVANIZED	$d_k \times L_k$ [mm]	$d_w \times L_w$ [mm]	Max. fixture thickness t_{fix} [mm]	Drive type		Pcs
	KPR-FAST-10080K	KPR-FAST-10080K-A4	KPR-FAST-10080K-00	10 x 80	7.0 x 85	10	TX-40	SW-13	50
	KPR-FAST-10100K	KPR-FAST-10100K-A4	KPR-FAST-10100K-00	10 x 100	7.0 x 105	30	TX-40	SW-13	50
	KPR-FAST-10120K	KPR-FAST-10120K-A4	KPR-FAST-10120K-00	10 x 120	7.0 x 125	50	TX-40	SW-13	50
	KPR-FAST-10140K	KPR-FAST-10140K-A4	KPR-FAST-10140K-00	10 x 140	7.0 x 145	70	TX-40	SW-13	50
	KPR-FAST-10160K	KPR-FAST-10160K-A4	KPR-FAST-10160K-00	10 x 160	7.0 x 165	90	TX-40	SW-13	50
	KPR-FAST-10180K	KPR-FAST-10180K-A4	KPR-FAST-10180K-00	10 x 180	7.0 x 185	110	TX-40	SW-13	25
	KPR-FAST-10200K	KPR-FAST-10200K-A4	KPR-FAST-10200K-00	10 x 200	7.0 x 205	130	TX-40	SW-13	25
	KPR-FAST-10230K	KPR-FAST-10230K-A4	KPR-FAST-10230K-00	10 x 230	7.0 x 235	160	TX-40	SW-13	25
	KPR-FAST-10260K	KPR-FAST-10260K-A4	KPR-FAST-10260K-00	10 x 260	7.0 x 265	190	TX-40	SW-13	25
	KPR-FAST-10300K	KPR-FAST-10300K-A4	KPR-FAST-10300K-00	10 x 300	7.0 x 305	230	TX-40	SW-13	25

MADE TO ORDER

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TECHNICAL DATA

Parameter	Unit	Value
Plug diameter	d_k [mm]	10
Hole diameter	d_o [mm]	10
Effective anchorage depth	h_{eff} [mm]	70
Depth of drill hole	h_o [mm]	80
Drive type	x	TX-40/SW-13
Use categories	x	A B C D
Sleeve material	x	PA
Screw material	x	A4, hot-dip galvanized, steel
Approval	x	ETA-12/0272



SUBSTRATE - MINIMUM THICKNESS, DISTANCE

Substrate	Min. member thickness h_{min} [mm]	Min. edge distance c_{min} [mm]
Concrete \geq C16/20	100	60
Solid clay brick	120	100
Solid sand-lime brick	120	100
Perforated clay brick	180	100
Autoclaved aerated concrete	100	100

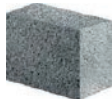










From now all our framework fasteners Fast and Strong are **PRE-ASSEMBLED**.

Pre-assembled products means:

- ✓ easier and faster mounting
- ✓ no wasting time for assembling
- ✓ no mistake in choosing sleeve to the screw

RESISTANCE **KPR-FAST-10 K / KPS-FAST-10 S**

Type of substrate according to ETAG020	Description	Density [kg/dm ³]	Standard	Characteristic pull-out resistance [kN]	
				KPR-FAST 10 K	KPS-FAST 10 S
A	 Concrete C 12/15	≥ 1.8	EN 206-1	3.0*	
	Concrete ≥C 16/20	≥ 2.3	EN 206-1	4.0*	
B	 Solid clay brick	≥ 1.7	EN 771-1	3.5	
	Solid clay brick (e.g. MZ Rd 2.0/20)-DIN 106)	≥ 2.0	EN 771-1	3.5	
B	 Solid sand-lime brick (e.g. Kalksandstein KS NF 20-2.0 Vollstein - DIN 106)	≥ 2.0	EN 771-2	3.5	
C	 Hollow sand-lime blocks KSL (e.g. Kalksandstein KS L-R(P) 8 DF Lochstein - DIN 106)	≥ 1.6	EN 771-2	2.5	
C	 Porous blocks (e.g. Porotherm 25 P+W)	≥ 0.8	EN 771-1	0.9	
C	 Hollow clay brick (e.g. MAX 250)	≥ 0.8	EN 771-1	0.9	
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	1.5	
D	 Autoclaved aerated concrete AAC2	≥ 0.35	EN 771-4	0.6	
	Autoclaved aerated concrete AAC7	≥ 0.65	EN 771-4	1.5	

* cracked concrete