FOR SPECIAL APPLICATIONS

FRAME PLUGS Ø10 STRONG





KPR-<mark>STRONG</mark> 10 K



TX-40/SW-13 HEX HEAD SCREW

KPS-<mark>strong</mark> 10 s





100% secure fixing

NEW STRONGER

Improved, hardened screw has better torsional and bending strength, which eliminates the problem of head failure when installing the screw in very hard materials. The TX drive head for use with wrench enables fast installation without the risk of damaging the drive.

etag 020 A B





R90



ZINC PLATED SCREW

A4 STEEL SCREW

Frame plug Ø10 with hex head screw

Frame plug Ø10 with hex head screw

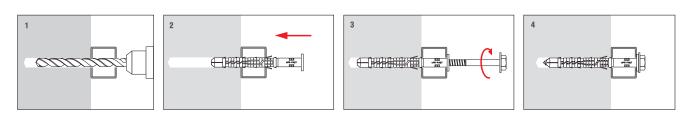
Frame plug Ø10 with hex head screw

HOT-DIP GALVANIZED SCREW

KPR-STRONG 10 K KPR-STRONG 10 K A4 KPR-STRONG 10 K 00

Description ETAG 020 🛞 (E POLISH AB PRODUCER Frame plug with flanged hex head screw for fixing of metal members ETA-12/0272 Technical data NEW. Type of installation push-through installation Substrate concrete, solid clay brick Sleeve material / Protective coating 100% nylon Blue zinc **HOT-DIP GALVANIZED STAINLESS STEEL A4** Features and advantages of the product GALVANIZED ZINC PLATED 300 mm Screw We manufacture screws up to 300 mm long length Hex head with TX drive ensures optimum transfer of torgue while TX-40/SW-13 SW-13 hex head allows for tightening the screw with drive a given force (e.g. with torque wrench). Improved, hardened screw has better torsional and bending strength, which eliminates the problem of NEW head failure when installing the screw in very hard STRONGER materials. The TX drive head for use with wrench SCREW! enables fast installation without the risk of damaging the drive. For assembling facade systems the fastener has a **R90** Resistance sufficient fire resistance of at least 90 minutes (R90) if to fire the permissible design load for a single anchorage Nr \leq 0.8 kN (without permanent longitudinal axial load).

Installation



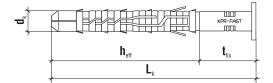
FRAME AND GENERAL PURPOSE FIXINGS PRODUCTION PROGRAMME - FRAME FIXINGS

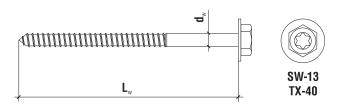


TECHNICAL DATA

Product marking







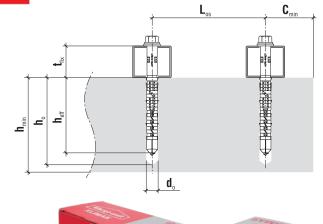
	Code BLUE ZINC PLATED	Code A4 STAINLESS STEEL	Code HOT-DIP GALVANIZED	d _k x L _k [mm]	d x L [mm]	Max. fixture thickness t _{fix} [mm]	Drive	type	Pos 🛅
ø 10	KPR-STRONG-10080K	KPR-STRONG-10080K-A4	KPR-STRONG-10080K-00	10 x 80	7.0 x 85	10	TX-40	SW-13	50
	KPR-STRONG-10100K	KPR-STRONG-10100K-A4	KPR-STRONG-10100K-00	10 x 100	7.0 x 105	30	TX-40	SW-13	50
	KPR-STRONG-10120K	KPR-STRONG-10120K-A4	KPR-STRONG-10120K-00	10 x 120	7.0 x 125	50	TX-40	SW-13	50
	KPR-STRONG-10140K	KPR-STRONG-10140K-A4	KPR-STRONG-10140K-00	10 x 140	7.0 x 145	70	TX-40	SW-13	50
	KPR-STRONG-10160K	KPR-STRONG-10160K-A4	KPR-STRONG-10160K-00	10 x 160	7.0 x 165	90	TX-40	SW-13	50
	KPR-STRONG-10180K	KPR-STRONG-10180K-A4	KPR-STRONG-10180K-00	10 x 180	7.0 x 185	110	TX-40	SW-13	25
	KPR-STRONG-10200K	KPR-STRONG-10200K-A4	KPR-STRONG-10200K-00	10 x 200	7.0 x 205	130	TX-40	SW-13	25
	KPR-STRONG-10230K	KPR-STRONG-10230K-A4	KPR-STRONG-10230K-00	10 x 230	7.0 x 235	160	TX-40	SW-13	25
	KPR-STRONG-10260K	KPR-STRONG-10260K-A4	KPR-STRONG-10260K-00	10 x 260	7.0 x 265	190	TX-40	SW-13	25
	KPR-STRONG-10300K	KPR-STRONG-10300K-A4	KPR-STRONG-10300K-00	10 x 300	7.0 x 305	230	TX-40	SW-13	25
	MADE TO ORDER	MADE TO ORDER	MADE TO ORDER						

TECHNICAL DATA

Parameter	Unit	Value		
Plug diameter	d _k [mm]	10		
Hole/drill diameter	d _。 [mm]	10		
Effective anchorage depth	h _{eff} [mm]	70		
Depth of drill hole	h₀[mm]	80		
Drive/key type	х	TX-40/SW-13		
Use categories	х	A B		
Sleeve material	х	PA		
Screw material	X	A4, hot-dip galvanized, steel		
Approval	х	ETA-12/0272		

SUBSTRATE - MINIMUM THICKNESS, DISTANCE

Substrate	Min. member thickness h _{min} [mm]	Min. edge distance c _{min} [mm]
Concrete ≥C16/20	100	60
Solid clay brick	120	100
Solid sand-lime brick	120	100





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

Pre-assembled products means:

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



RESISTANCE KPR-STRONG-10 K / KPS-STRONG-10 S

Type of substrate according to ETAG020		Description	Density [kg/dm³]	Standard	Characteristic pull-out resistance [kN]	
		Description	Delisity [kg/ulii]	Standard	KPR-STRONG 10 K	KPS-STRONG 10 S
A		Concrete \geq C16/20	≥ 1.8	EN 206-1	4.5*	
		Concrete C20/25	≥ 2.3	EN 206-1	6.0 [*]	
B		Solid clay brick (e.g. MZ Rd 2.0/20)-DIN 106)	≥ 2.0	EN 771-1	3.	5
В		Solid sand-lime brick (e.g. Kalksandstein KS NF 20-2.0 Vollstein- DIN 106)	≥2.0	EN 771-2	3.	5

* cracked concrete