Frame plug **Fassad SK & KB**

Features

- All-purpose for almost all building materials
- Approved by the building authorities
- Also approved for the fixing of ceiling substructures
- 70 mm anchoring depth for secure hold in perforated brick
- Fire resistance class R90 (in concrete)
- Optimised spreading geometry
- Can be processed down to -20 °C
- Also suitable for natural stone with dense structure

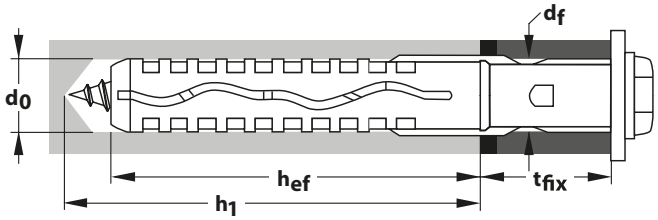
Fassad SK:

- Countersunk screw with internal drive TX40 for flush installations

Fassad KB:

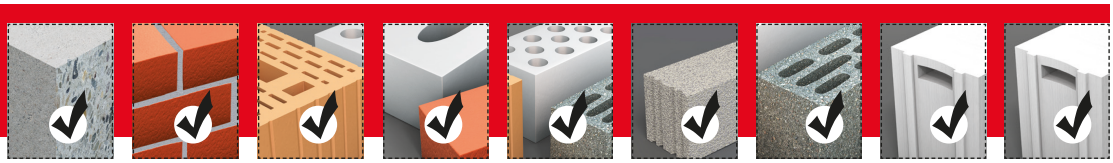
- Lag bolt SW13 with internal drive TX40 for narrow components and pressed-on washer for optimum force transmission

ETA-17/1002
ETAG 020,
use category a, b, c, d



Pack	Item No.	Type	Content Plug	Content Screw	Plug Ø	Plug length	Screw Size	Drill Ø	Min. Drill hole depth	Effective anchorage depth	Fixture Thickness	Approval
		Fassad SK	per pack	per pack	mm	mm	mm	d_0 ø mm	h_1 ≥ mm	h_{ef} mm	t_{fix} ≤ mm	ETA
	062 101 401	10/80	50x	50x	10	80	7.0 x 90	10	85	70	10	■
	062 101 411	10/100	50x	50x	10	100	7.0 x 110	10	85	70	30	■
	062 101 421	10/120	50x	50x	10	120	7.0 x 130	10	85	70	50	■
	062 101 431	10/140	50x	50x	10	140	7.0 x 150	10	85	70	70	■
	062 101 441	10/160	25x	25x	10	160	7.0 x 170	10	85	70	90	■
	062 101 451	10/180	25x	25x	10	180	7.0 x 190	10	85	70	110	■
	062 101 461	10/200	25x	25x	10	200	7.0 x 210	10	85	70	130	■
	062 101 471	10/220	25x	25x	10	220	7.0 x 230	10	85	70	150	■
		Fassad KB	per pack	per pack	mm	mm	mm	d_0 ø mm	h_1 ≥ mm	h_{ef} mm	t_{fix} ≤ mm	ETA
	062 101 601	10/80	50x	50x	10	80	7.0 x 90	10	85	70	10	■
	062 101 611	10/100	50x	50x	10	100	7.0 x 110	10	85	70	30	■
	062 101 621	10/120	50x	50x	10	120	7.0 x 130	10	85	70	50	■
	062 101 631	10/140	50x	50x	10	140	7.0 x 150	10	85	70	70	■
	062 101 641	10/160	25x	25x	10	160	7.0 x 170	10	85	70	90	■
	062 101 651	10/180	25x	25x	10	180	7.0 x 190	10	85	70	110	■
	062 101 661	10/200	25x	25x	10	200	7.0 x 210	10	85	70	130	■
	062 101 671	10/220	25x	25x	10	220	7.0 x 230	10	85	70	150	■

Building materials & Holding values



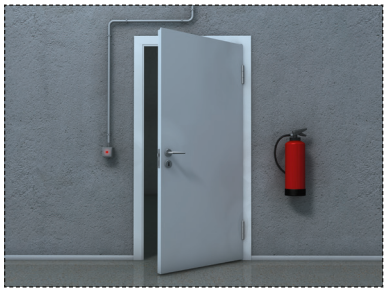
Fassad SK & KB	Concrete C16/20	Brick MZ 20-1.8 NF	Vertically perforated brick HLz 12-1.0 2DF	Solid sand-lime brick KS 20-1.8, NF	Perforated sand-lime brick KSL 12-1.4, 8DF	Lightweight concrete solid brick V 20-2, 0 8DF	Lightweight concrete hollow brick HBL 2-0, 8, 16 DF	Aerated concrete P2	Aerated concrete P6
Effective anchoring depth h_{ef}	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm
Permissible load capacity F_{rec} [1]	200 kg	170 kg	40 kg	170 kg	35 kg	90 kg	20 kg	30 kg	90 kg
Permissible bending moment M_{rec}	7 Nm	7 Nm	7 Nm	7 Nm	7 Nm	7 Nm	7 Nm	7 Nm	7 Nm
Component dimensions and installation characteristics									
Minimum spacing s_{min}	50 mm	250 mm	250 mm	250 mm	250 mm	250 mm	250 mm	250 mm	250 mm
Minimum edge distance c_{min}	60 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm
Minimum member thickness h_{min}	100 mm	115 mm	115 mm	115 mm	115 mm	115 mm	115 mm	200 mm	200 mm
Drill hole diameter d0	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
Drill hole depth h_1	85 mm	85 mm	85 mm	85 mm	85 mm	85 mm	85 mm	85 mm	85 mm
Clearance hole diameter $d_f \leq$	10.5 mm	10.5 mm	10.5 mm	10.5 mm	10.5 mm	10.5 mm	10.5 mm	10.5 mm	10.5 mm

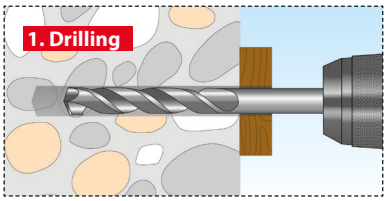
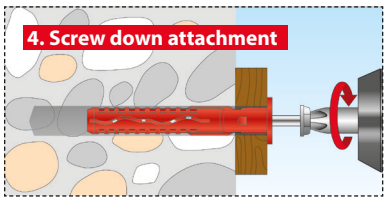
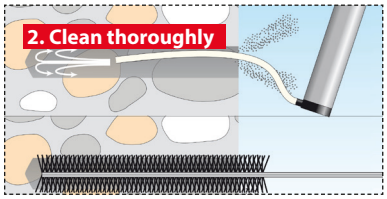
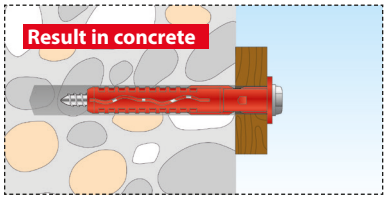
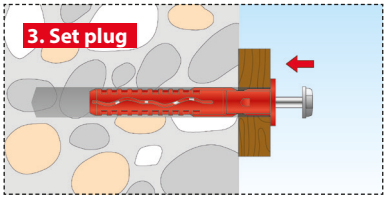
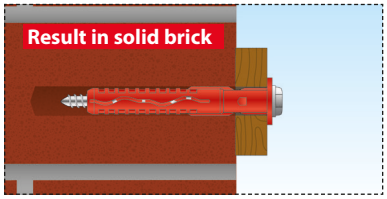
- When sizing, the entire declaration of performance of the Fassad must be observed
- The partial safety factors of the resistances and a partial safety factor of γF = 1.4 have been considered
- Approved plugs must be used for fixings where safety is of importance (see also www.tox.de/safety+loads)
- For other masonry types see approval ETA-17/1002

[1] F_{rec} for tension, shear lead or diagonal pull

Description & Area of Application

- 2-way split expansion element with rotation lock
- For fixing facade and roof substructures, doors, windows, etc.
- The Fassad is supplied as a fixing kit with screw



Processing & Installation

- The galvanised screw may be used outdoors, in industrial atmospheres and near the sea with a suitable protective coating
- Push-through installation
- Drill into perforated brick without hammering