

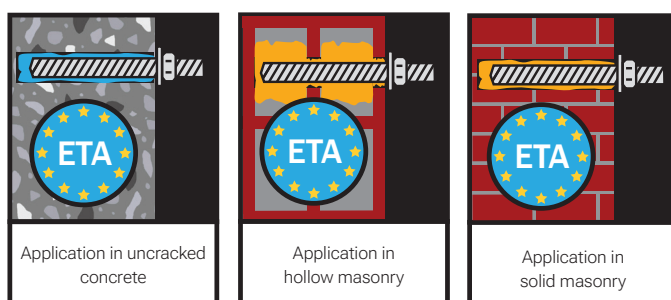
EJOT MULTIFIX®
PSF+

Technical data sheet



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General

Product description

The EJOT MULTIFIX® PSF+ is a 2-component reaction resin mortar based on a styrenefree polyester and will be delivered in a 2-C cartridge (standard cartridge; foil tube cartridge) system. This product may be used in combination of a hand-, battery-, or pneumatic tool and a static mixer. It was designed as a costeffective alternative for the anchoring of threaded rods for approved applications. By using a perforated sleeve, an easy and save application in hollow bricks is guaranteed. The EJOT MULTIFIX® PSF+ product is characterised by manifold applications with an ambience temperature up to 80 °C.

Properties and benefits

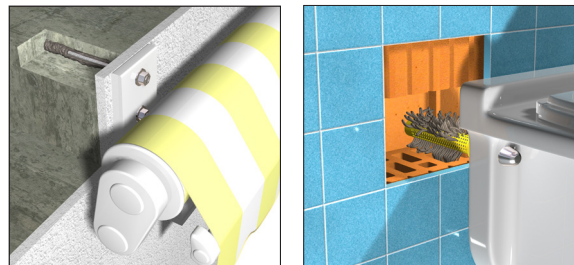
- > European Technical Assessment for injection anchors for use in masonry acc. to EAD 330076-00-0604: ETA-22/0438
- > European Technical Assessment for bonded fasteners acc. to EAD 330499-01-0601 (Option 7): ETA-21/0664
- > Overhead application
- > Suitable for attachment points with small edge- and axial distances due to an anchoring free of expansion forces
- > Reduced chemical resistance
- > High bending and pressure strength
- > Cartridge can be reused up to the end of the shelf life by replacing the static mixer or resealing cartridge with the sealing cap

Certifications



Application samples

Suitable for the fixation of facades, roofs, wood constructions, metal constructions; metal profiles, columns, beams, consoles, railings, sanitary devices, cable trays, piping, etc.



Handling and storage

- > Storage: store in a cold and dark place, storage temperature: from +5 °C up to +25 °C
- > Shelf life: 18 months for cartridges (ST), 12 months for foil tubes (SF)

Applications and intended use

- > Base material: uncracked concrete, light-concrete, porous-concrete, solid masonry, hollow brick, natural stone (Attention! natural stone, can discolour; shall be checked in advance; solid anchoring base: hammer drilled bore holes, perforated bricks: rotary drilled bore holes)
- > Anchor elements: Threaded rods (zinc plated or hot dip, stainless steel and high corrosion resistance steel), profiled rod, steel section with undercuts (e.g. perforated section)
- > Temperature range: -5 °C up to +40 °C installation temperature
cartridge temperature min. +5 °C; optimal +40 °C,
base material temperature after full curing -40 °C to +80 °C

Mortar properties

Properties	Test Method	Result
UV resistance	-	Pass
Watertightness	DIN EN 12390-8	0 mm
Temperature stability	-	≤ 120 °C
ph-value	-	> 12
Density	-	1.79 kg/dm³
Compressive strength	EN 196 Part 1	88 N / mm²
Flexural strength	EN 196 Part 1	31 N / mm²
E modulus	EN 12504-4	14000 / mm²
Shrinkage	-	≤ 0.3 ‰
Hardness Shore D	-	90
Electrical resistance	IEC 93	1.5 10⁸ W m
Thermal conductivity	DIN EN 993-15	0.49 W/m·K

Reactivity

Concrete temperature	Max. working time	Min. curing time ¹⁾
-5 °C to -1 °C	90 min	6 h
0 °C to +4 °C	45 min	3 h
+5 °C to +9 °C	25 min	2 h
+ 10 °C to +14 °C	20 min	100 min
+ 15 °C to +19 °C	15 min	80 min
+ 20 °C to +29 °C	6 min	45 min
+ 30 °C to +34 °C	4 min	25 min
+ 35 °C to +39 °C	2 min	20 min

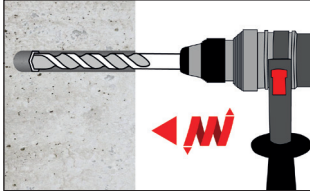
Cartridge temperatur: +5 °C to +40 °C

¹⁾ The curing times in wet concrete has to be doubled.

Anchorage in concrete

Installation instruction

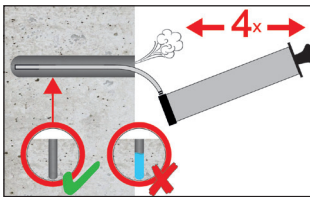
Drilling of the bore hole



1a.

Drill with hammer drill (HD) a hole into the base material to the size and embedment depth required by the selected anchor (see page 8), with hammer (HD). In case of aborted drill hole: the drill hole shall be filled with mortar.

Attention! Standing water must be removed before cleaning.

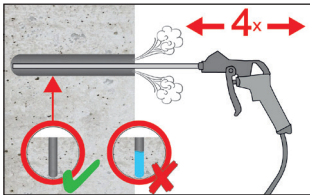


2a.

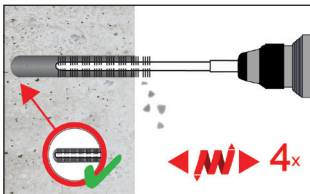
Starting from the bottom or back of the bore hole, blow the hole clean with compressed air (min. 6 bar) or a hand pump (see page 7) a minimum of four times. If the bore hole ground is not reached an extension shall be used.

The hand-pump can be used for anchor sizes up to bore hole diameter 20 mm.

or

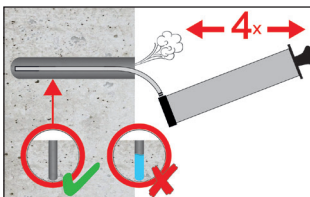


For bore holes larger than 20 mm or deeper 240 mm, compressed air (min. 6 bar) must be used.



2b.

Check brush diameter (see page 7) and attach the brush to a drilling machine or a battery screwdriver. Brush the hole with an appropriate sized wire brush $> d_{b,min}$ (see page 7) a minimum of four times. If the bore hole ground is not reached with the brush, a brush extension shall be used (see page 7).

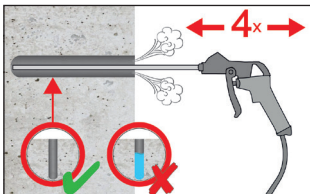


2c.

Finally blow the hole clean again with compressed air (min. 6 bar) or a hand pump (see page 7) a minimum of four times. If the bore hole ground is not reached an extension shall be used.

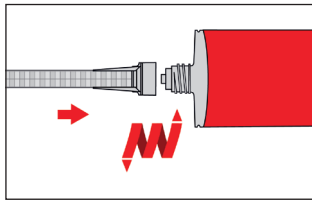
The hand-pump can be used for anchor sizes up to bore hole diameter 20 mm.

or



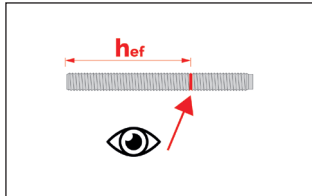
For bore holes larger than 20 mm or deeper 240 mm, compressed air (min. 6 bar) must be used

After cleaning, the bore hole has to be protected against re-contamination in an appropriate way, until dispensing the mortar in the bore hole. If necessary, the cleaning has to be repeated directly before dispensing the mortar. In-flowing water must not contaminate the bore hole again.



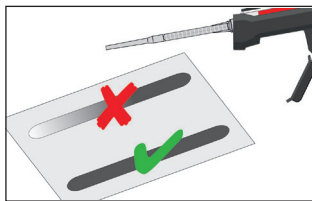
3.

Attach a supplied static-mixing nozzle to the cartridge and load the cartridge into the correct dispensing tool. Cut off the foil tube clip before use. For every working interruption longer than the recommended working time (see page 4) as well for new cartridges, a new static-mixer shall be used.



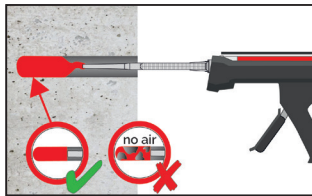
4.

Prior to inserting the anchor rod into the filled bore hole, the position of the embedment depth shall be marked on the anchor rods.



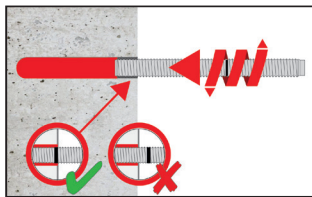
5.

Prior to dispensing into the anchor hole, squeeze out separately a minimum of three full strokes and discard non-uniformly mixed adhesive components until the mortar shows a consistent grey or blue (PASF Blue) colour. For foil tube cartridges it must be discarded a minimum of six full strokes.



6.

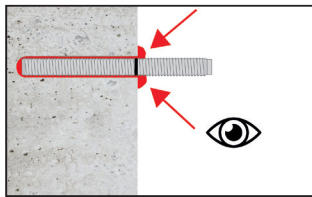
Starting from the bottom resp. back of the cleaned anchor hole fill the hole up to approximately two-thirds with adhesive. Slowly withdraw of the static mixing nozzle as the hole is filled avoids creating air pockets. If the bore hole ground is not reached with the static-mixing nozzle, a appropriate extension must be used. Observe the gel-/ working times given (see page 4).



7.

Push the threaded rod or reinforcing bar into the anchor hole while turning slightly to ensure positive distribution of the adhesive until the embedment depth is reached.

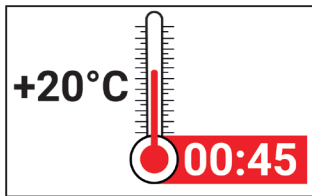
The anchor should be free of dirt, grease, oil or other foreign material..



8.

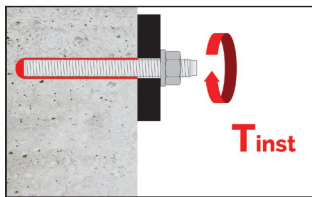
Be sure that the anchor is fully seated at the bottom of the hole and that excess mortar is visible at the top of the hole. If these requirements are not maintained, the application has to be renewed.

For overhead application the anchor rod shall be fixed (e. g. wedges)..



9.

Allow the adhesive to cure to the specified time prior to applying any load or torque. Do not move or load the anchor until it is fully cured (see page 4).



10.

After full curing, the add-on part can be installed with the max. torque (see page 8) by using a calibrated torque wrench.

Installation accessories

CAC - Rec. compressed air tool (min 6 bar)

Drill bit diameter (d_0): all diameters



MAC - Hand pump (volume 750 ml)

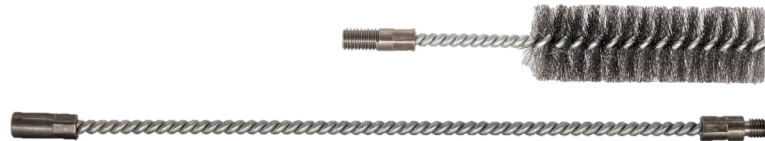
Drill bit diameter (d_0): up to 20 mm

Drill hole depth (h_0): $< 10 d_{nom}$

Uncracked concrete only



Steel brush RBT and brush extension



SDS Plus Adapter



Threaded rod	d_0 Drill bit - ϕ HD	d_b Brush - ϕ	$d_{b, min}$ min. Brush - ϕ
[mm]	[mm]	[-]	[mm]
M8	10	RBT 10	12
M10	12	RBT 12	14
M12	14	RBT 14	16
M16	18	RBT 18	20
M20	22	RBT 22	26
M24	28	RBT 28	30

Setting parameters

Anchor size			M8	M10	M12	M16	M20	M24
Outdoor diameter of anchor	$d = d_{nom}$	[mm]	8	10	12	16	20	24
Nominal drill hole diameter	d_0	[mm]	10	12	14	18	24	28
Effective embedment depth	$h_{ef,min}$	[mm]	60	60	70	80	90	96
	$h_{ef,max}$	[mm]	160	200	240	320	400	480
Diameter of clearance hole in the fixture	$d_f \leq$	[mm]	9	12	14	18	22	26
Maximum torque moment	$T_{max} \leq$	[mm]	10	20	40	80	120	160
Minimum thickness of member	h_{min}	[mm]	$h_{ef} + 30 \text{ mm} \geq 100 \text{ mm}$			$h_{ef} + 2d_0$		
Minimum spacing	S_{min}	[mm]	40	50	60	80	100	120
Minimum edge distance	C_{min}	[mm]	40	50	60	80	100	120

Recommended loads

Threaded rod

The recommended loads are only valid for single anchors for a basic design, if the following conditions are valid:

$$c \geq 1.5 \times h_{ef} \mid s \geq 3.0 \times h_{ef} \mid h \geq 2 \times h_{ef}$$

$\Psi_{SUS} = 1.0$; percentage of dead load $\leq \Psi_{SUS}^0$ see table below

The recommended loads have been calculated using the partial safety factors for resistances stated in the ETA and with a partial safety factor for actions of $\gamma_f = 1.4$.

The partial safety factor for seismic action is $\gamma_1 = 1.0$.

If the conditions are not fulfilled the loads must be calculated acc. to EN 1992-4.

For further details observe ETA-21/0664

> Property class 8.8 > Concrete - C20/25 > Hammer drilling (HD) > dry, wet concrete					M8	M10	M12	M16	M20	M24
Recommended tension load	40 °C / 24 °C ¹⁾	uncracked	$N_{rec.stat}$	[kN]	6.8	9.0	13.2	19.9	33.9	50.3
	80 °C / 50 °C ¹⁾	uncracked	$N_{rec.stat}$	[kN]	5.2	6.7	9.9	15.0	25.4	37.7
Recommended shear load without lever arm ²⁾		uncracked	$V_{rec.stat}$	[kN]	6.3	9.7	14.3	20.8	34.1	48.1
Embedment depth		h_{ef}	[mm]	80	90	110	125	170	210	
Edge distance		$c \geq$	[mm]	120	135	165	187.5	255	315	
Axial distance		$s \geq$	[mm]	240	270	330	375	510	630	

¹⁾ Short term temperature / long term temperature.

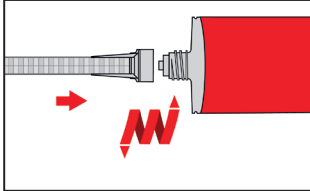
²⁾ Shear loads are valid for all specified temperature ranges.

³⁾ $N_{rec.stat} \cdot V_{rec.stat}$ = Recommended load under static and quasi-static action

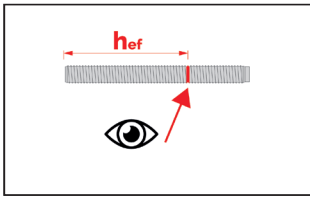
Anchorage in masonry

Installation instruction

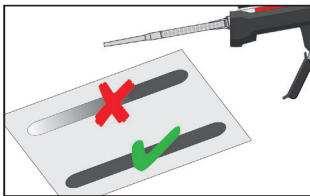
Preparation of cartridge



1. Remove the cap and attach the supplied static-mixing nozzle to the cartridge and load the cartridge into the correct dispensing tool. In case of a foil tube cartridge, cut off the clip before use. For every working interruption longer than the recommended working time (see page 4) as well as for new cartridges, a new static-mixer shall be used.

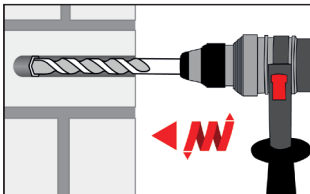


2. Prior to inserting the anchor rod into the filled bore hole, the position of the embedment depth shall be marked on the anchor rods.

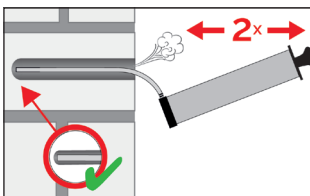


3. Prior to dispensing into the anchor hole, squeeze out separately a minimum of three full strokes and discard non-uniformly mixed adhesive components until the mortar shows a consistent grey colour. For foil tube cartridges it must be discarded a minimum of six full strokes.

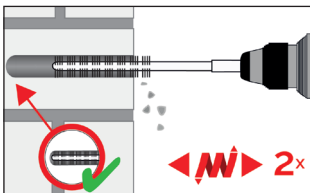
Installation in solid masonry (without sleeve)



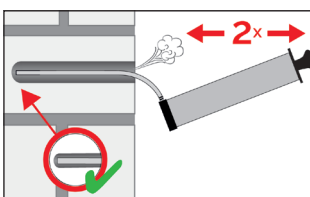
4. Holes to be drilled perpendicular to the surface of the base material by using a hard-metal tipped hammer drill bit. Drill a hole, with drilling method according to page 12, into the base material, with nominal drill hole diameter and bore hole depth according to the size and embedment depth required by the selected anchor. In case of aborted drill hole the drill hole shall be filled with mortar



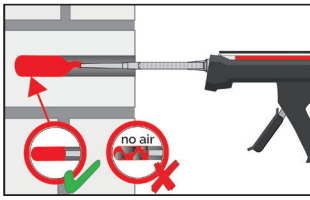
- 5a. Starting from the bottom or back of the bore hole, blow the hole clean with handpump (see page 12) a minimum to two times.



- 5b. Attach an appropriate sized wire brush $> d_{b,min}$ (see page 12) to a drill or a cordless screwdriver and brush the hole clean with a minimum of two times in a twisting motion. If the bore hole ground is not reached with the brush, a brush extension must be used.

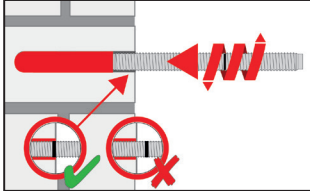


- 5c. Finally blow the hole clean again with handpump (see page 12) a minimum of two times.



6.

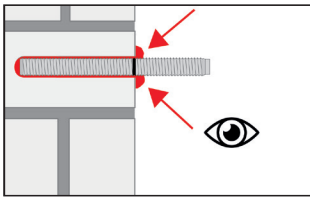
Starting from the bottom resp. back of the cleaned anchor hole fill the hole up to approximately two-thirds with adhesive. Slowly withdraw of the static mixing nozzle as the hole is filled avoids creating air pockets. Observe the gel-/ working times given (see page 4).



7.

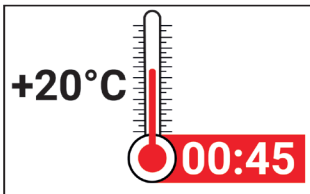
Push the threaded rod or reinforcing bar into the anchor hole while turning slightly to ensure positive distribution of the adhesive until the embedment depth is reached.

The anchor should be free of dirt, grease, oil or other foreign material.



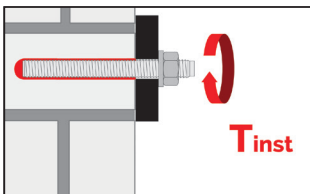
8.

Be sure that the anchor is fully seated at the bottom of the hole and that excess mortar is visible at the top of the hole. If these requirements are not maintained, the application has to be renewed



9.

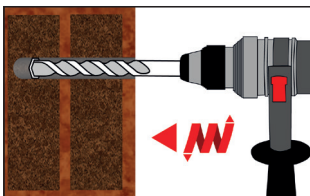
Allow the adhesive to cure to the specified time prior to applying any load or torque. Do not move or load the anchor until it is fully cured. (see page 4).



10.

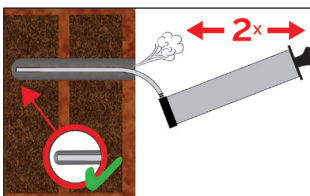
After full curing, the fixture can be installed with up to the max. installation torque (see page 14 - 16) by using a calibrated torque wrench.

Installation in solid and hollow masonry (with sleeve)



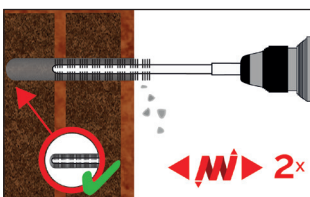
4.

Holes to be drilled perpendicular to the surface of the base material by using a hard-metal tipped hammer drill bit. Drill a hole, with drill method according to page 12, into the base material, with nominal drill hole diameter and bore hole depth according to the size and embedment depth required by the selected anchor. In case of aborted drill hole the drill hole shall be filled with mortar.



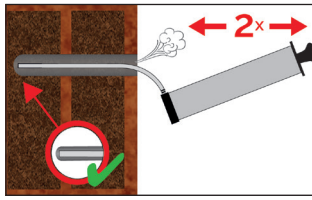
5a.

Starting from the bottom or back of the bore hole, blow the hole clean with handpump (see page 12) a minimum of two times.

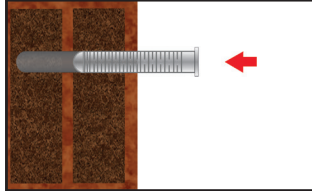


5b.

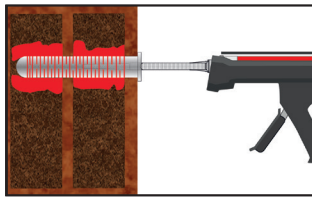
Attach an appropriate sized wire brush $> d_{b,min}$ (see page 12) to a drill or a cordless screwdriver and brush the hole clean with a minimum of two times in a twisting motion. If the bore hole ground is not reached with the brush, a brush extension must be used.

**5c.**

Finally blow the hole clean again with handpump (see page 12) a minimum of two times.

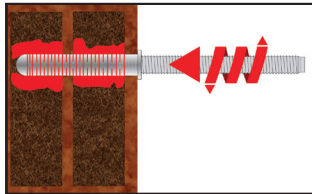
**6.**

Insert the perforated sleeve flush with the surface of the masonry or plaster. Only use sleeves that have the right length. Never cut the sleeve. For installation through insulation the sleeve SH 16x130/330 shall be cutted at the top end according to the insulation thickness.

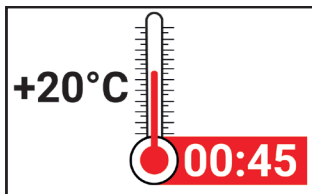
**7.**

Starting from the bottom or back fill the sleeve with adhesive. For quantity of mortar attend cartridges label or installation instructions.

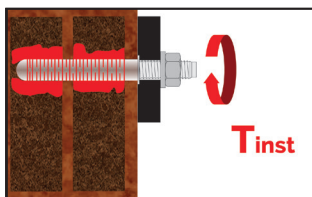
Observe the gel-/working times given in table on page 4.

**8.**

Push the threaded rod into the anchor hole while turning slightly to ensure positive distribution of the adhesive until the embedment depth is reached. The anchor shall be free of dirt, grease, oil or other foreign material.

**9.**

Allow the adhesive to cure to the specified curing time prior to applying any load or torque. Do not move or load the anchor until it is fully cured (attend tables on page 4).

**10.**

After full curing, the fixture can be installed with up to the max. installation torque (see parameters of brick on page 14 - 16) by using a calibrated torque wrench.

Installation parameters and accessories

Solid brick and autoclaved aerated concrete			M8	M10	M12	M16
Nominal drill hole diameter	d ₀	[mm]	10	12	14	18
Effective embedment depth	h _{ef}	[mm]	80	90	100	100
Drill hole depth	h ₀	[mm]	80	90	100	100
Minimum wall thickness	h _{min}	[mm]	h _{ef} + 30 mm			h _{ef} +2d ₀
Diameter of clearance hole in the fixture	d _f	[mm]	9	12	14	18
Brushes		[-]	RBT10	RBT12	RBT14	RBT18
Minimum brush diameter	d _{b,min} ≥	[mm]	10,5	12,5	14,5	18,5
Maximum installation torque	T _{inst,max}	[Nm]	see tables on page 14-16			

Hollow brick and solid brick with sleeve			M8	M8 / M10			M12 / M16		
Perforated sleeve			SH12x80	SH16x85	SH16x130 ¹⁾	SH16x130/330	SH20x85	SH20x130	SH20x200
Nominal drill hole diameter	d_0	[mm]	12	16	16	16	20	20	20
Effective embedment depth	h_{ef}	[mm]	80	85	130	130	85	130	200
Drill hole depth	h_0	[mm]	85	90	135	$135 + t_{fix}^{1)}$	90	135	205
Minimum wall thickness	h_{min}	[mm]	115	115	175	175	115	175	240

¹⁾ $t_{fix} < 200 \text{ mm}$

Installation accessories

Steel brush RBT and brush extension



Hand pump (volume 750 ml)



SDS Plus Adapter



Calculation of recommended loads

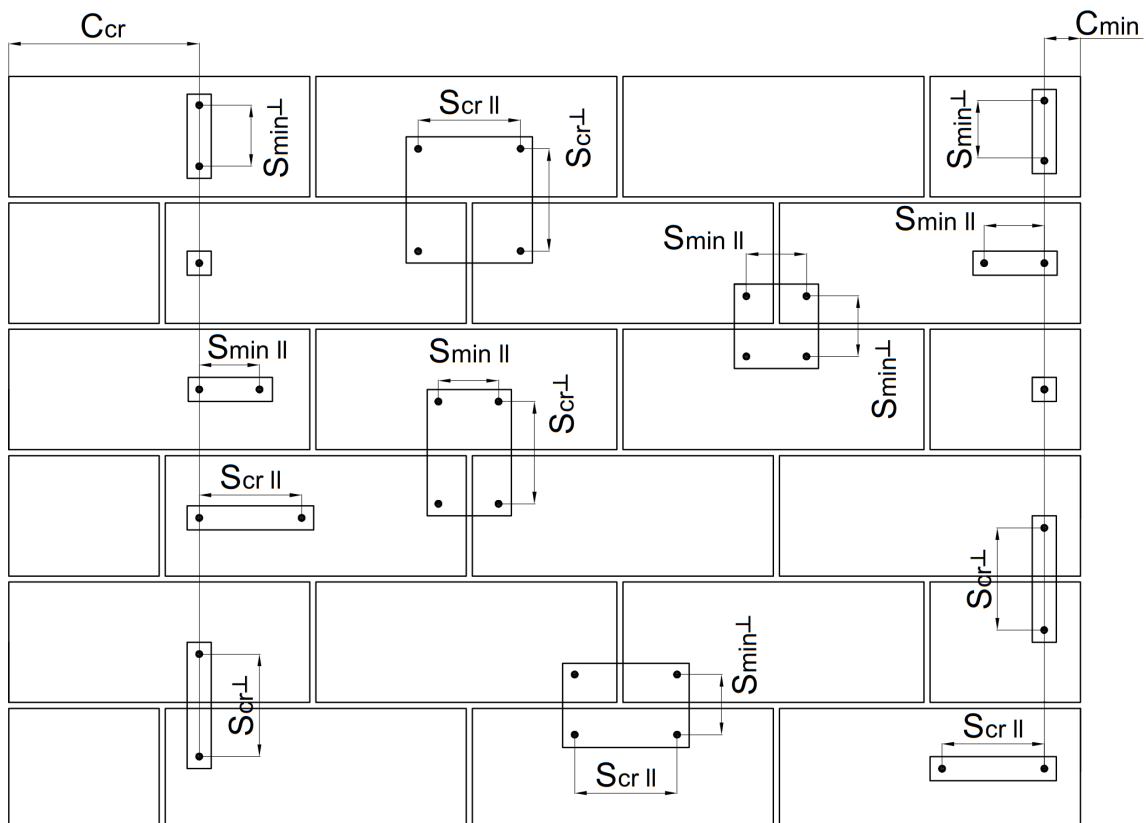
The recommended loads given are for preliminary planning purposes only and do not replace dimensioning.

The following conditions must be met:

- > Dry environment
- > Temperature range 24/40°C (long-term/short-term)
- > Spacing distance $s \geq s_{cr}$
- > Edge distance $c \geq c_{cr}$
- > Strength class of masonry mortar at least M2.5
- > Brick strength as well as density and dimensions
- > Joints are visible
- > Vertical joint is mortared
- > Strength class of the threaded rod is min. 5.8 oder higher
- > Drilling method: "rotary drilling" in hollow brick and autoclaved aerated concrete (AAC),
"hammer drilling" in solid brick

The recommended loads take into account all partial safety factors (resistance 2.5; action 1.4) and all failure modes. An interaction between tension and transverse tension was not taken into account.

If one or more of the conditions listed above are not fulfilled, the application must be recalculated according to TR054 and the requirements of the relevant ETA.



Recommended loads

Naming Compressive strength Density Dimensions	Anchor rods	Perforated sleeve	T _{inst} [Nm]	c _{cr} [mm]	C _{min} [mm]	S _{cr} [mm]	S _{min} [mm]	N _{rec*} [kN]	V _{rec} [kN]
Calcium silica solid bricks acc. to EN 771-2									
Solid limestone KS 10 N/mm ² r ≥ 2.0 kg/dm ³ ≥ 240x115x71 mm	M8 to M16	without 12x80 16x85; 16x130 20x85; 20x130; 20x200	10	240	120	240	240	0.71	0.71
Perforated limestone KS-L 3DF ≥ 12 N/mm ² r ≥ 1,4 kg/dm ³ ≥ 240x175x113 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130; 20x200	8	240	100	240	113	0.43	0.26
Perforated limestone KS-L 12DF ≥ 12 N/mm ² r ≥ 1,4 kg/dm ³ ≥ 498x175x238 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130; 20x200	2	500	100	500	240	0.11	0.36
Autoclaved aerated concrete acc. to EN 771-4									
AAC 2 2 N/mm ² r ≥ 0.35 kg/dm ³ ≥ 449x240x249 mm	M8 to M16	without 12x80 16x85; 16x130 20x85; 20x130; 20x200	2	450	120	240	240	0.26	0.43
AAC 4 ≥ 4 N/mm ² r ≥ 0.5 kg/dm ³ ≥ 449x240x249 mm	M8 to M16	without 12x80 16x85; 16x130 20x85; 20x130; 20x200	2	450	120	240	240	0.26	0.43
AAC 6 ≥ 6 N/mm ² r ≥ 0.6 kg/dm ³ ≥ 449x240x249 mm	M8 to M16	without 12x80 16x85; 16x130 20x85; 20x130; 20x200	2	450	120	240	240	0.57	1.57
Lightweight concrete solid block acc. to EN 771-3									
VBL ≥ 2 N/mm ² r ≥ 0.6 kg/dm ³ ≥ 240x300x113 mm	M8 to M16	without	6	240	120	240	240	0.57	0.6
Leca Lex harkko RUH 200 Kulma ≥ 3 N/mm ² r ≥ 0.78 kg/dm ³ ≥ 498x200x195 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130	6	500	120	240	240	0.57	0.73
Hollow light weight concrete brick acc. to EN 771-3									
Bloc Creux B40 ≥ 5 N/mm ² r ≥ 0.8 kg/dm ³ ≥ 495x195x190 mm	M8 to M16	16x130 20x130	2	500	100	500	190	0.11	0.26
Leca Lex harkko RUH 200 ≥ 2.7 N/mm ² r ≥ 0.7 kg/dm ³ ≥ 498x200x195 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130	8	500	120	500	195	0.57	0.26
Solid clay brick acc. to EN 771-1									
Solid clay brick Mz-1DF ≥ 20 N/mm ² r ≥ 2.0 kg/dm ³ ≥ 240x115x55 mm	M8 to M16	without 12x80 16x85; 16x130 20x85; 20x130; 20x200	6	240	120	240	240	0.43	0.86
Hollow clay brick acc. to EN 771-1									
Hollow clay brick HLZ 16DF ≥ 6 N/mm ² r ≥ 0.8 kg/dm ³ ≥ 497x240x238 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130; 20x200	6	500	100	500	238	0.34	0.36
Hollow clay brick BGV Thermo ≥ 4 N/mm ² r ≥ 0.60 kg/dm ³ ≥ 500x200x314 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130	2	500	100	500	314	0.11	0.36

Naming Compressive strength Density Dimensions	Anchor rods	Perforated sleeve	T _{inst}	c _{cr}	C _{min}	S _{cr}	S _{min}	N _{rec} *	V _{rec}
			[Nm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]
Hollow clay brick acc. to EN 771-1									
Hollow clay brick Calibric R+ ≥ 6 N/mm² r ≥ 0.6 kg/dm³ ≥ 500x200x314 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130	2	500	100	500	314	0.21	0.36
Hollow clay brick Urbanbric ≥ 6 N/mm² r ≥ 0.7 kg/dm³ ≥ 560x200x274 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130	2	560	100	560	274	0.26	0.36
Hollow clay brick Porotherm Homebric ≥ 6 N/mm² r ≥ 0.7 kg/dm³ ≥ 500x200x299 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130	2	500	100	500	300	0.26	0.36
Hollow clay brick Blocchi Leggeri ≥ 4 N/mm² r ≥ 0.55 kg/dm³ ≥ 250x120x250 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130; 20x200	4	250	100	250	250	0.11	0.43
Hollow clay brick Doppio Uni ≥ 10 N/mm² r ≥ 0.9 kg/dm³ ≥ 250x120x120 mm	M8 to M16	12x80 16x85; 16x130 20x85; 20x130; 20x200	4	250	100	250	120	0.26	0.34

Chemical resistance

Chemical Agent	Concentration	Resistant	Not resistant
Accumulator acid		x	
Acetic acid	10%	x	
Acetic acid	40%		x
Laitance			x
Acetone	5%		x
Acetone	10%		x
Acetone	100%		x
Ammonia, aqueous solution	5%	x	
Ammonia, aqueous solution	32%		x
Aniline	100%		x
Beer	100%	x	
Chlorine	All		x
Benzol	100%		x
Boric Acid, aqueous solution		x	
Calcium carbonate, suspended in water	All	x	
Calcium chloride, suspended in water		x	
Calcium hydroxide, suspended in water		x	
Chlorinated lime (Calcium hypochlorite)	10%		x
Carbon tetrachloride	100%	x	
Caustic soda solution	10%	x	
Caustic soda solution	40%		x
Citric acid	10%		x
Citric acid	50%		x
Citric acid	All	x	
Chlorine water, swimming pool	All	x	
Demineralized water	All		x
Diesel oil	100%	x	
Ethyl alcohol, aqueous solution	100%		x
Ethyl alcohol, aqueous solution	50%		x
Formic acid	10%		x
Formic acid	30%		x
Formic acid	100%		x
Formaldehyde, aqueous solution	20%		x
Formaldehyde, aqueous solution	30%	x	
Freon		x	
Fuel Oil		x	
Gasoline (premium grade)	100%	x	
Glycol (Ethylene glycol)		x	
Hydraulic fluid	Conc.	x	
Hydrochloric acid (Muriatic Acid)	Conc.		x
Hydrogen peroxide	10%		x
Hydrogen peroxide	30%		x

Results shown in the table are applicable to brief periods of chemical contact with full cured adhesive (e.g. temporary contact with adhesive during a spill).

Chemical resistance

Chemical Agent	Concentration	Resistant	Not resistant
Isopropyl alcohol	100%		x
Lactic acid	10%		x
Lactic acid	All	x	
Linseed oil	100%	x	
Lubricating oil	100%	x	
Magnesium chloride, aqueous solution	All	x	
Methanol	100%		x
Standard benzine		x	
Motor oil (SAE 20 W-50)	100%	x	
Nitric acid	10%		x
Oleic acid	100%	x	
Perchloroethylene	100%	x	
Petroleum	100%	x	
Phenol, aqueous solution	8%		x
Benzyl alcohol	100%		x
Phosphoric acid	85%	x	
Phosphoric acid	10%		x
Potash lye (Potassium hydroxide)	10%	x	
Potash lye (Potassium hydroxide)	40%	x	
Potassium carbonate, aqueous solution	All	x	
Potassium chlorite, aqueous solution	All	x	
Potassium nitrate, aqueous solution	All	x	
Sea water, salty	All	x	
Sodium carbonate	All	x	
Sodium chloride, aqueous solution	All	x	
Sodium phosphate, aqueous solution	All	x	
Sodium silicate	All	x	
Sulfuric acid	10%	x	
Sulfuric acid	30%		x
Sulfuric acid	70%		x
Tartaric acid	All	x	
Tetrachloroethylene	100%	x	
Toluene			x
Trichloroethylene	100%		x
Turpentine	100%	x	

Results shown in the table are applicable to brief periods of chemical contact with full cured adhesive (e.g. temporary contact with adhesive during a spill).