PRODUCT DATA SHEET

INJECTION MORTAR CLASSIC

PRODUCT DESCRIPTION

The **Eurotec Injection Mortar Classic** is a **high-performance composite mortar based on vinyl ester resin**. This fastener never fails to impresses with its wide range of applications: it is approved for **anchorages in cracked and uncracked concrete,** as well as **anchors in brickwork.**

The injection mortar, **thanks to** the expansion-pressure-free assembly, **is uniquely suitable for installations in which very small edge and centre distances** are required. It offers a suitable solution wherever conventional fasteners do not find sufficient support in the substrate. This can be the case, for example, with **anchorages in perforated block**. The mortar is **free of harmful styrene**.

Injection mortar classic

Includes two static mixers per cartridge

Static mixer

ADVANTAGES

- Wide range of applications
- Straight-froward processing
- Optimal dispensing
- Compatible with standard cartridge presses/silicone guns
- Suitable for wet anchoring substrates
- Free of harmful styrene
- Resealable by means of a screw cap

APPLICATION IMAGE

The injection mortar in a cartridge press.

MATERIAL/INGREDIENTS

- **Comp A**: Tetramethylene dimethacrylate; ethylene dimethacrylate; methacrylic acid; monoesters with propane-1,2-diol; 1,4-Napathoquinone
- **Comp B**: Dibenzoyl peroxide

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PROPERTIES

- A fastening system with many applications such as aerated concrete, sand-lime brick, brick or lightweight concrete brick.
- Anchorages in cracked and uncracked concrete (ETA 20/0812)
- Anchorages in brickwork (ETA 20/0811)
- Commercial rebar threaded rods, washers and nuts included in the ETA Assessment.
- Suitable for water-filled drilled holes in concrete
- Suitable for indoor use

  → Lowest emissions of critical substances indoors after curing (Class A+)
- Shelf life: 12 months
- Mortar colour: Grey
- Tested for use in earthquake-prone areas
- Good load values in concrete and brickwork (more on this on page 6)
- **Temperature range for use in concrete:**

  → –40 °C to +40 °C (max. short-term temperature +40 °C and max. long-term temperature +24 °C)

  → –40 °C to +80 °C (max. short-term temperature +80 °C and max. long-term temperature +50 °C)
- **Temperature application range for brickwork:**

  → –40 °C to +80 °C (max. short-term temperature +80 °C and max. long-term temperature +50 °C)

DoP-No. 200812-01-2021
ETA 20/0812
EAD 330499-01-0601

DoP-No. 200811-01-2021
ETA 20/0811
EAD 330076-00-0604

PRODUCT TABLE

Art.-No.	Cartridge Type	Content [ml]	PU
200085	For commercial silicone guns/cartridge presses	300	12

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PROCESSING INSTRUCTIONS

- Preparation of the drilled hole (rotary percussion with nominal diameter and selected depth of the drilled hole).
- Clean the drilled hole using a brush and blower (up to Ø 20 mm with a hand pump; from Ø 20 mm or setting depth 240 mm with min. 6 bar oil-free compressed air).
- Open the cartridge and unscrew the static mixer.
- Squeeze out the mortar flow until the mixture is a uniformly blended grey colour.
- Fill the drilled hole from the bottom of the drill hole to approx. 2/3.

  → Slowly pull out the cartridge to prevent air inclusions from forming.
- Introduce the anchor rod in slight rotational movement up to the setting depth.

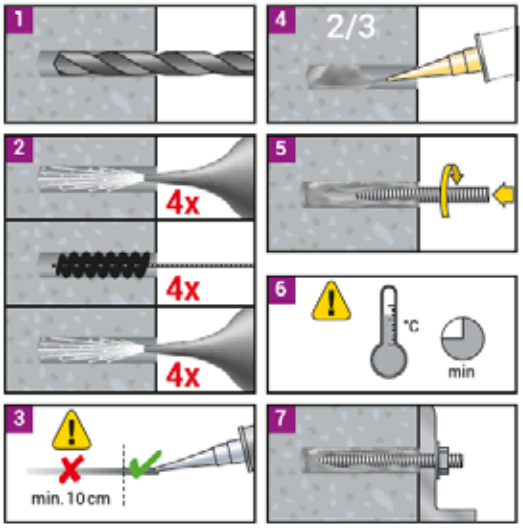
  → Anchor rod must be free of dirt, grease and oil!
- Allow injection mortar to cure.

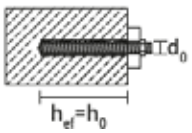
  → Curing time varies depending on the temperature of the anchoring substrate.
- Mount attachment using the permissible torque and a calibrated torque wrench.

NOTE

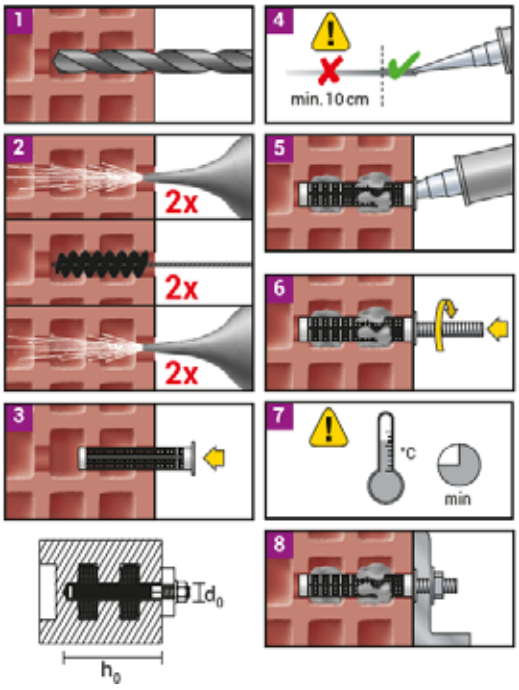
Observe the material safety data sheet during handling and assembly.

PROCESSING EXAMPLE FOR CONCRETE





PROCESSING EXAMPLE FOR BRICK-WORK (WITH SCREEN SLEEVE)



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ACCESSORIES

Art.-No.	Designation	Cartridge receptacle	Effective length [mm]	PU
200084	Static mixer	M17	213	10

Art.-No.	Designation	Length [mm]	Diameter Ø [mm]	Material	PU
200086	Screening sleeve	85	16	Plastic	10
200087	Screening sleeve	130	20	Plastic	10

Art.-No.	Designation	Material	PU
200096	Cartridge press	Metal	1

Art.-No.	Designation	Tube diameter Ø [mm]	Setting depth [mm][a)]	Nominal drill diameter [mm][a)]	Volume [ml]	PU
200097	Blower	9	to 240	10 – 20	750	1

[a)]Alternatively and from 20 mm diameter of the drilled hole or 240 mm setting depth: Compressed air (min. 6 bar); drill core diameter(d_0): 10 mm to 28 mm

Art.-No.	Designation	Brush diameter Ø [mm]	Drilled hole Ø [mm]	PU
200098	Cleaning brush	12	10	10
200099	Cleaning brush	14	12	10
200100	Cleaning brush	18	16	5
200101	Cleaning brush	24	22	5

Art.-No.	Designation	Length [mm]	Outside diameter Ø [mm]	Material	PU
200102	Pressure sleeve	5	48	Hard plastic	20
200103	Pressure sleeve	10	48	Hard plastic	20
200104	Pressure sleeve	20	48	Hard plastic	20
200105	Pressure sleeve	30	48	Hard plastic	20
200106	Pressure sleeve	50	48	Hard plastic	20
200107	Pressure sleeve	100	48	Hard plastic	20

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Art.-No.	Designation	Diameter Ø [mm]	Length [mm]	Material	PU*
200110	Anchor rod	6	70	Galvanised steel	10
200111	Anchor rod	8	110	Galvanised steel	10
200112	Anchor rod	10	110	Galvanised steel	10
200113	Anchor rod	10	130	Galvanised steel	10
200114	Anchor rod	12	130	Galvanised steel	10
200115	Anchor rod	12	160	Galvanised steel	10
200116	Anchor rod	16	190	Galvanised steel	10
200117	Anchor rod	20	260	Galvanised steel	5
200118	Anchor rod	24	300	Galvanised steel	10

*incl. Nut and washer

Art.-No.	Designation	Diameter Ø [mm]	Length [mm]	Material	PU*
200220	Anchor rod	8	110	A4 stainless steel	50
200221	Anchor rod	10	130	A4 stainless steel	25
200222	Anchor rod	12	160	A4 stainless steel	10
200223	Anchor rod	16	190	A4 stainless steel	10
200224	Anchor rod	20	250	A4 Stainless Steel	5

*incl. Nut and washer

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PRODUCT DATA SHEET INJECTION MORTAR CLASSIC

MOUNTING VALUES IN CRACKED AND UNCRACKED CONCRETE ETA

		Threaded rod					
		M8 [mm]	M10 [mm]	M12 [mm]	M16 [mm]	M20 [mm]	M24 [mm]
Threaded rod diameter	$d = d_{nom}$	8	10	12	16	20	24
Nominal drill diameter	d_0	10	12	14	18	24	28
Effective anchor depth	$h_{ef,min}$	60	60	70	80	90	96
	$h_{ef,max}$	160	200	240	320	400	480
Through-hole in the component to be connected	Pre-insertion mounting d_f	9	12	14	18	22	26
	Through-insertion mounting d_f	12	14	16	20	24	30
Brush diameter	$d_b \geq$	12	14	16	20	26	30
Attachment thickness	$T_{fix,min} >$	0	0	0	0	0	0
	$T_{fix,max} <$	1500	1500	1500	1500	1500	1500
Minimum component thickness	h_{min}	$h_{ef} + 30 \geq 100$	$h_{ef} + 30 \geq 100$	$h_{ef} + 30 \geq 100$	$h_{ef} + 2d_0$	$h_{ef} + 2d_0$	$h_{ef} + 2d_0$
Minimum centre distance	s_{min}	40	50	60	80	100	120
Minimum edge distance	c_{min}	40	50	60	80	100	120

		Threaded rod					
		M8 [Nm]	M10 [Nm]	M12 [Nm]	M16 [Nm]	M20 [Nm]	M24 [Nm]
Torque	$T_{inst} \leq$	10	20	40	80	120	160

		Rebar[1)]						
		Ø 8 [mm]	Ø 10 [mm]	Ø 12 [mm]	Ø 14 [mm]	Ø 16 [mm]	Ø 20 [mm]	Ø 25 [mm]
Rebar diameter	$d = d_{nom}$	8	10	12	14	16	20	25
Nominal drill diameter	d_0	12	14	16	18	20	25	32
Effective anchor depth	$h_{ef,min}$	60	60	70	75	80	90	100
	$h_{ef,max}$	160	200	240	280	320	400	500
Brush diameter	$d_b \geq$	14	16	18	20	22	27	34
Minimum component thickness	h_{min}	$h_{ef} + 30 \geq 100$	$h_{ef} + 30 \geq 100$	$h_{ef} + 2d_0$	$h_{ef} + 2d_0$	$h_{ef} + 2d_0$	$h_{ef} + 2d_0$	$h_{ef} + 2d_0$
Minimum centre distance	s_{min}	50	55	65	70	80	100	130
Minimum edge distance	c_{min}	50	55	65	70	80	100	130

[1)] For use in non-cracked concrete only

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PROCESSING AND CURING TIMES

Cartridge temperature [°C]	Concrete temperature [°C]	Max. processing time [minutes]	Min. curing time [minutes]
+5 to +40	–5 to –1	90	360
	0 to +4	45	180
	+5 to +9	25	120
	+10 to +14	20	100
	+15 to +19	15	80
	+20 to +29	6	45
	+30 to +34	4	25
	+35 to +39	2	20

MOUNTING VALUES FOR AIRCRETE AND SOLID BRICK (WITHOUT SCREEN SLEEVE)

Anchor size		M8 [mm]	M10 [mm]	M12 [mm]	M16 [mm]
Nominal drill diameter	d_0	10	12	14	18
Depth of drilled hole	h_0	80	90	100	100
Effective anchor depth	$h_{ef} = h_{nom}$	80	90	100	100
Minimum wall thickness	h_{min}	h_{ef} + 30	h_{ef} + 30	h_{ef} + 30	h_{ef} + 30
Through-hole in the component to be connected	$d_f \leq$	9	12	14	18
Brush diameter	d_b	12	14	16	20
Minimum brush diameter	$d_{b,min}$	10.5	12.5	14.5	18.5

MOUNTING VALUES IN SOLID BLOCK AND PERFORATED BLOCK (WITH SIEVE SLEEVE)

Anchor size		M8 [mm]	M8/M10 [mm]			M12/M16 [mm]		
Screening sleeve		SH 12 x 80	SH 16 x 85	SH 16 x 130	SH 16 x 130/ 330	SH 20 x 85	SH 20 x 130	SH 20 x 200
Nominal drill diameter	d_0	12	16	16	16	20	20	20
Depth of drilled hole	h_0	85	90	135	135 +t_{fix}	90	135	205
Effective anchor depth	$h_{ef} = h_{nom}$	80	85	130	130	85	130	200
Minimum wall thickness	h_{min}	115	115	175	175	115	175	240
Through-hole in the component to be connected	$d_f \leq$	9	9 (M8) / 12 (M10)			14 (M12) / 18 (M16)		
Brush diameter	d_b	14	18	18	18	22	22	22
Minimum brush diameter	$d_{b,min}$	12.5	16.5	16.5	16.5	20.5	20.5	20.5

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ANCHORAGE IN CONCRETE (NON-CRACKED C20/25[1] AND CRACKED C20/25[1])

Anchor rod		M8 [mm]	M10 [mm]	M12 [mm]	M16 [mm]	M20 [mm]	M24 [mm]
Drill hole	d_0	10	12	14	18	24	28
Anchor depth	$h_{ef\,min}$ / $h_{ef\,stand}$ / $h_{ef\,max}$	60/80/160	60/90/200	70/110/240	80/125/320	90/170/400	96/210/480

Permissible tensile load [24 °C/40 °C] in non-cracked concrete (dry/moist)[2),3)]							
		M8 [kN]	M10 [kN]	M12 [kN]	M16 [kN]	M20 [kN]	M24 [kN]
Electro-galvanised 5.8	N_{Rd}	5.1/6.8/8.7	6.0/9.0/13.8	8.4/13.2/20.0	12.8/19.9/37.3	17.7/33.9/58.3	18.8/50.3/83.9
A4 Stainless Steel	N_{Rd}	5.1/6.8/9.8	6.0/9.0/15.5	8.4/13.2/22.5	12.8/19.9/41.9	17.1/33.9/65.5	18.8/50.3/94.3

Permissible tensile load [24 °C/40 °C] in cracked concrete (dry/moist)[2),3)]							
		M8 [kN]	M10 [kN]	M12 [kN]	M16 [kN]	M20 [kN]	M24 [kN]
Electro-galvanised 5.8	N_{Rd}	2.7/3.6/7.2	3.4/5.0/11.2	4.7/7.4/16.2	7.2/11.2/28.7	-	-
A4 Stainless Steel	N_{Rd}	2.7/3.6/7.2	3.4/5.0/11.2	4.7/7.4/16.2	7.2/11.2/28.7	-	-

Permissible tensile load [50 °C/80 °C] in non-cracked concrete (dry/moist)[2),3)]							
		M8 [kN]	M10 [kN]	M12 [kN]	M16 [kN]	M20 [kN]	M24 [kN]
Electro-galvanised 5.8	N_{Rd}	3.9/5.2/8.7	4.5/6.7/13.8	6.3/9.9/20.0	9.6/15.0/37.3	13.5/25.4/58.3	17.2/37.7/83.9
A4 Stainless Steel	N_{Rd}	3.9/5.2/9.8	4.5/6.7/15.0	6.3/9.9/21.5	9.6/15.0/38.3	13.5/25.4/59.8	17.2/37.7/86.2

Permissible tensile load [50 °C/80 °C] in cracked concrete (dry/moist)[2),3)]							
		M8 [kN]	M10 [kN]	M12 [kN]	M16 [kN]	M20 [kN]	M24 [kN]
Electro-galvanised 5.8	N_{Rd}	2.1/2.8/5.6	2.6/3.9/8.7	3.7/5.8/12.6	5.6/8.7/22.3	-	-
A4 Stainless Steel	N_{Rd}	2.1/2.8/5.6	2.6/3.9/8.7	3.7/5.8/12.6	5.6/8.7/22.3	-	-

Permissible transverse load in uncracked concrete[2),3)]							
		M8 [kN]	M10 [kN]	M12 [kN]	M16 [kN]	M20 [kN]	M24 [kN]
Electro-galvanised 5.8	V_{Rd}	5.2	8.3	12	22.4	35	45.2/50.4/50.4
A4 Stainless Steel	V_{Rd}	5.9	9.3	13.5	25.1	39.2	45.2/56.5/56.5

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Permissible transverse load in cracked concrete[2),3)]							
		M8 [kN]	M10 [kN]	M12 [kN]	M16 [kN]	M20 [kN]	M24 [kN]
Electro-galvanised 5.8	V_{Rd}	5.2/5.2/5.2	8.1/8.3/8.3	11.3/12.0/12.0	17.2/22.4/22.4	-	-
A4 Stainless Steel	V_{Rd}	5.9/5.9/5.9	8.1/9.3/9.3	11.3/13.5/13.5	17.2/25.1/25.1	-	-

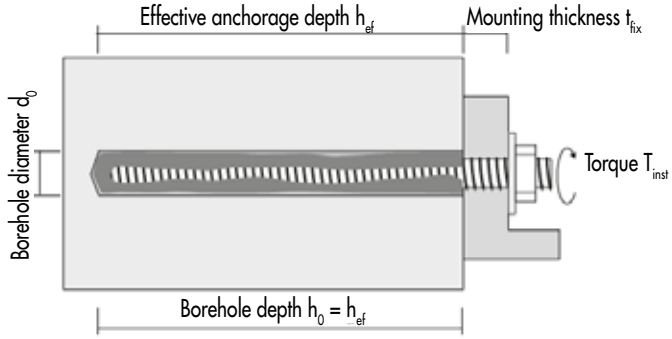
Permissible transverse load in cracked concrete[2),3)]							
		M8 [Nm]	M10 [Nm]	M12 [Nm]	M16 [Nm]	M20 [Nm]	M24 [Nm]
Permissible bending moment (Electro-galvanised 5.8)	M_{Rd}	10.7	21.4	37.4	94.9	185.2	320
Permissible bending moment (A4 Stainless Steel)	M_{Rd}	12	24	41.9	106.4	207.8	359

Centre and edge distances[4)]							
		M8 [mm]	M10 [mm]	M12 [mm]	M16 [mm]	M20 [mm]	M24 [mm]
Spacing distance	$s_{cr,N}$	180/240/480	180/270/600	210/330/720	240/375/960	270/510/1200	288/630/1440
Edge distance	$c_{cr,N}$	90/120/240	90/135/300	105/165/360	120/188/480	135/255/600	144/315/720
Minimum centre distance	s_{min}	40	50	60	80	100	120
Minimum edge distance	c_{min}	40	50	60	80	100	120
Minimum component thickness	h_{min}	$h_{ef} + 30 \geq 100$	$h_{ef} + 30 \geq 100$	$h_{ef} + 30 \geq 100$	$h_{ef} + 2d_0$	$h_{ef} + 2d_0$	$h_{ef} + 2d_0$

Centre and edge distances[4)]							
		M8 [Nm]	M10 [Nm]	M12 [Nm]	M16 [Nm]	M20 [Nm]	M24 [Nm]
Max. installation torque	$T_{inst} \leq$	10	20	40	80	120	160

Calculation method according to TR029. The entire approval decision ETA-20/0812 must be observed in the calculation. This is only an excerpt from the respective approval/assessment.
$N_{Rd,p}$, $V_{Rd,p}$: Permissible loads incl. partial safety coefficients ($\gamma c = 1.5$, $\gamma_2 = 1.4$ and $\gamma_{inst} = 1.2$), without influence of edge and centre distances.

1) For higher concrete strengths up to C50/60, higher permissible loads are possible. See ETA Assessment.
2) The specified loads are valid for anchorages in dry and moist concrete in the anchoring substrate (in the cured state). Making the drilled hole by hammer drilling and cleaning the drilled hole in accordance with the respective approval.
3) In case of combination of tensile and transverse loads or in case of transverse loads with lever arm (bend) as well as reduced edge and centre distances (dowel groups), the dowel dimensions must be determined in detail.
4) When falling below the characteristic edge/axis distance ($C_{cr,N}$ and $S_{cr,N}$) the load-bearing capacity must be reduced. The values must not fall below h_{min}, c_{min} and s_{min}.



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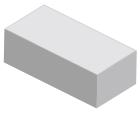
ANCHORAGE IN BRICKWORK (SOLID AND PERFORATED BLOCK)

Stone type	Product photo	Length [mm]	Width [mm]	Height [mm]	Compressive strength [N/mm²]	Raw density [kg/dm³]	Threaded rod	Screening sleeve	Effective Anchor depth	Effective range dry/dry 24 °C/40 °C[1]	
										Tensile load N_{Rd} [kN]	Transverse load V_{Rd} [kN]
Aircrete blocks according to EN 771-4											
Aircrete block AAC2		599	375	249	2	0.35	M8	without	80	0.32	0.54
							M10	without	90	0.32	0.71
							M12	without	100	0.54	0.89
							M16	without	100	0.54	1.25
Aircrete block AAC4		499	375	249	4	0.5	M8	without	80	0.32	0.54
							M10	without	90	0.89	0.71
							M12	without	100	0.89	0.89
							M16	without	100	1.25	1.25
Aircrete block AAC6		499	240	249	6	0.6	M8	without	80	0.71	1.96
							M10	without	90	1.07	3.21
							M12	without	100	1.61	3.21
							M16	without	100	1.96	3.93
Sand-lime brick according to EN 771-2											
Sand-lime brick KS-NF		240	115	71	10 20 27	2.0	M8	without/ SH 16 x 85	80/85	1.29/1.14	1.29/1.29
							M10	without/ SH 16 x 85	90/85	1.29/1.14	1.29/1.29
							M12	without/ SH 20 x 130	100/130	1.57/1.71	1.43/1.57
							M16	without/ SH 20 x 130	100/130	1.29/1.71	1.43/1.57
Perforated sand-lime block KS L-3DF		240	175	113	8 12 14	1.4	M8	SH 16 x 85	85	0.57	1.00
							M10	SH 16 x 85	85	0.57	1.00
							M12	SH 20 x 130	130	1.00	1.29
							M16	SH 20 x 130	130	1.00	1.43
Sand-lime brick KS L-12DF		498	175	238	10 12 16	1.4	M8	SH 16 x 85	85	0.43	2.00
							M10	SH 16 x 85	85	0.43	2.28
							M12	SH 20 x 130	130	1.29	2.28
							M16	SH 20 x 130	130	1.29	2.28

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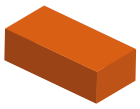
ANCHORAGE IN BRICKWORK (SOLID AND PERFORATED BLOCK)

Stone type	Product photo	Length [mm]	Width [mm]	Height [mm]	Compressive strength [N/mm²]	Raw density [kg/dm³]	Threaded rod	Screening sleeve	Effective Anchor depth	Effective range dry/dry 24 °C/40 °C[1]	
										Tensile load N_{Rd} [kN]	Transverse load V_{Rd} [kN]
Bricks according to EN 771-1											
Solid brick Mz-DF		240	115	55	10 20 28	1.64	M8	without/ SH 16 x 85	80/85	0.71/0.86	1.29/1.29
							M10	without/ SH 16 x 85	90/85	0.71/0.86	1.57/1.43
							M12	without/ SH 20 x 130	100/130	0.57/1.29	2.14/1.43
							M16	without SH 20 x 130	100/130	1.00/1.29	2.14/1.43
Vertically perforated brick HLz-16DF		497	240	238	6 9 12 14	0.83	M8	SH 16 x 85	85	0.71	1.57
							M10	SH 16 x 85	85	0.71	1.71
							M12	SH 20 x 130	130	1.00	2.29
							M16	SH 20 x 130	130	1.00	2.29
Porotherm perforated brick Homebric		500	200	299	6 8 10	0.68	M8	SH 16 x 85	85	0.34	0.71
							M10	SH 16 x 85	85	0.34	0.71
							M12	SH 20 x 130	130	0.43	1.00
							M16	SH 20 x 130	130	0.43	1.00
Perforated brick BGV Thermo		500	200	314	4 6 10	0.62	M8	SH 16 x 85	85	0.26	0.71
							M10	SH 16 x 85	85	0.26	0.71
							M12	SH 20 x 130	130	0.43	0.86
							M16	SH 20 x 130	130	0.43	0.86
Perforated brick Calibric Th		500	200	314	6 9 12	0.62	M8	SH 16 x 85	85	0.26	1.29
							M10	SH 16 x 85	85	0.26	1.29
							M12	SH 20 x 130	130	0.34	2.14
							M16	SH 20 x 130	130	0.43	2.14
Perforated brick Urbanbrick		560	200	274	6 9	0.74	M8	SH 16 x 85	85	0.43	1.14
							M10	SH 16 x 85	85	0.43	1.14
							M12	SH 20 x 130	130	0.57	1.43
							M16	SH 20 x 130	130	0.57	1.43
Perforated brick Blochi Leggeri		250	120	250	4 6 8	0.55	M8	SH 16 x 85	85	0.14	0.57
							M10	SH 16 x 85	85	0.14	0.57
							M12	SH 20 x 130	130	0.17	0.71
							M16	SH 20 x 130	130	0.17	0.71
Perforated brick Doppio Uni		250	120	120	10 16 20 28	0.92	M8	SH 16 x 85	85	0.34	0.86
							M10	SH 16 x 85	85	0.34	0.86
							M12	SH 20 x 130	130	0.43	0.86
							M16	SH 20 x 130	130	0.43	0.86

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PRODUCT DATA SHEET INJECTION MORTAR CLASSIC

ANCHORAGE IN BRICKWORK (SOLID AND PERFORATED BLOCK)

Stone type	Product photo	Length [mm]	Width [mm]	Height [mm]	Compressive strength [N/mm²]	Raw density [kg/dm³]	Threaded rod	Screening sleeve	Effective Anchor depth	Effective range dry/dry 24 °C/40 °C[1]	
										Tensile load N_{Rd} [kN]	Transverse load V_{Rd} [kN]
Lightweight concrete blocks according to EN 771-3											
Perforated block made of lightweight concrete Bloc creux B40		494	200	190	4	0.8	M8	SH 16 x 85	85	0.17	0.86
							M10	SH 16 x 85	85	0.17	0.86
							M12	SH 20 x 130	130	0.57	1.00
							M16	SH 20 x 130	130	0.57	1.00
Solid brick made of lightweight concrete		300	123	248	2	63	M8	without	80	0.57	0.86
							M10	without	90	0.57	1.00
							M12	without	100	0.57	1.14
							M16	without	100	0.57	1.14
Perforated block made of lightweight concrete Leca Lex harkko RUH-200		498	200	195	2.7	0.62	M8	SH 16 x 85	85	0.57	1.00
							M10	SH 16 x 85	85	0.57	1.00
							M12	SH 20 x 130	130	0.71	1.00
							M16	SH 20 x 130	130	0.71	1.00
Perforated block made of Leca Lex lightweight concrete harkko RUH-200 Kulma		498	200	195	3	0.62	M8	Without/ SH 16 x 85	80/85	0.57/ 0.57	0.86/1.00
							M10	without/ SH 16 x 85	90/85	0.86/ 0.57	1.14/1.00
							M12	without/ SH 20 x 130	100/130	0.86/0.86	1.14/1.29
							M16	without/ SH 20 x 130	100/130	0.86/0.86	1.14/1.29

Calculation method according to TR054. The entire approval decision ETA-20/0811 must be observed in the measurement. This is only an excerpt from the respective approval/assessment.
N_{Rd}, V_{Rd}: Permissible loads incl. partial safety coefficients (γ_F = 1,4; γ_M in brickwork = 2.5; in aircrete = 2.0), without influence of edge and centre distances.
Drilling method: Sand-line brick and masonry brickwork: Hammer drilling; aircrete, perforated sand-lime block and vertically perforated brick: Drill holes.
1) Long-term temperature/short-term temperature. Long-term temperature is constant over a longer period of time. The short-term temperature is only briefly present (day/night transition).
For further values (other compressive strength, other anchor rod screen sleeve combination or other temperature range): see ETA Assessment.

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PRODUCT DATA SHEET INJECTION MORTAR CLASSIC

AXIAL AND EDGE DISTANCES

Stone type	Threaded rod	Screening sleeve	Edge distance	Spacing distance	Maximum torque
			$c_{min} = c_{cr}$ [mm]	$s_{cr} = s_{min\,II} = s \perp$ [mm]	$T_{inst,max}$ [Nm]
Aircrete blocks according to EN 771-4					
Aircrete block AAC2	M8	without	120	240	2
	M10	without	135	270	2
	M12	without	150	300	2
	M16	without	150	300	2
Aircrete block AAC4	M8	without	120	240	2
	M10	without	135	270	2
	M12	without	150	300	2
	M16	without	150	300	2
Aircrete block AAC6	M8	without	120	240	2
	M10	without	135	270	2
	M12	without	150	300	2
	M16	without	150	300	2
Sand-lime brick according to EN 771-2					
Sand-lime brick KS-NF	M8	without/SH 16 x 85	120/127	240/255	10/10
	M10	without/SH 16 x 85	135/127	270/255	20/20
	M12	without/SH 20 x 130	150/195	300/390	20/20
	M16	without/SH 20 x 130	150/195	300/390	20/20
Perforated sand-lime block KS L-3DF	M8	SH 16 x 85	100	240[1)]	8
	M10	SH 16 x 85	100	240[1)]	8
	M12	SH 20 x 130	120	240[1)]	8
	M16	SH 20 x 130	120	240[1)]	8
Perforated sand-lime block KS L-12DF	M8	SH 16 x 85	100	498[2)]	4
	M10	SH 16 x 85	100	498[2)]	4
	M12	SH 20 x 130	120	498[2)]	4
	M16	SH 20 x 130	120	498[2)]	4

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PRODUCT DATA SHEET INJECTION MORTAR CLASSIC

Stone type	Threaded rod	Screening sleeve	Edge distance	Spacing distance	Maximum torque
			$c_{min} = c_{cr}$ [mm]	$s_{cr} = s_{min\,II} = s \perp$ [mm]	$T_{inst,max}$ [Nm]
Bricks according to EN 771-1					
Solid brick Mz-DF	M8	without/SH 16 x 85	120/127	240/255	6/6
	M10	without/SH 16 x 85	135/127	270/255	10/8
	M12	without/SH 20 x 130	150/195	300/390	10/8
	M16	without/SH 20 x 130	150/195	300/390	10/8
Vertically perforated brick HLz-16DF	M8	SH 16 x 85	100	497[2]	6
	M10	SH 16 x 85	100	497[2]	6
	M12	SH 20 x 130	120	497[2]	6
	M16	SH 20 x 130	120	497[2]	6
Perforated brick Porotherm Homebric	M8	SH 16 x 85	100	500[3]	6
	M10	SH 16 x 85	100	500[3]	6
	M12	SH 20 x 130	120	500[3]	6
	M16	SH 20 x 130	120	500[3]	6
Perforated brick BGV Thermo	M8	SH 16 x 85	100	500[4]	4
	M10	SH 16 x 85	100	500[4]	4
	M12	SH 20 x 130	120	500[4]	4
	M16	SH 20 x 130	120	500[4]	4
Perforated brick Calibric Th	M8	SH 16 x 85	100	500[4]	2
	M10	SH 16 x 85	100	500[4]	2
	M12	SH 20 x 130	120	500[4]	2
	M16	SH 20 x 130	120	500[4]	2
Perforated brick Urbanbrick	M8	SH 16 x 85	100	560[5]	2
	M10	SH 16 x 85	100	560[5]	2
	M12	SH 20 x 130	120	560[5]	2
	M16	SH 20 x 130	120	560[5]	2
Perforated brick Blochi Leggeri	M8	SH 16 x 85	100	250	4
	M10	SH 16 x 85	100	250	4
	M12	SH 20 x 130	120	250	4
	M16	SH 20 x 130	120	250	4
Perforated brick Doppio Uni	M8	SH 16 x 85	100	250[6]	4
	M10	SH 16 x 85	100	250[6]	4
	M12	SH 20 x 130	120	250[6]	4
	M16	SH 20 x 130	120	250[6]	4

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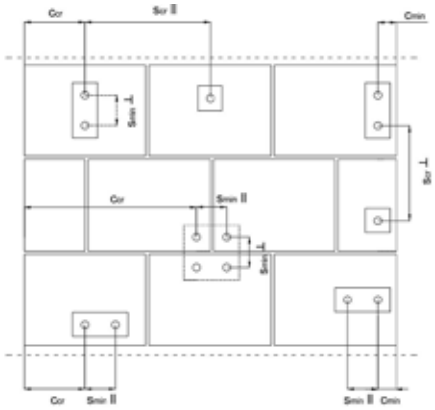
PRODUCT DATA SHEET INJECTION MORTAR CLASSIC

Stone type	Threaded rod	Screening sleeve	Edge distance	Spacing distance	Maximum torque
			$c_{min} = c_{cr}$ [mm]	$s_{cr} = s_{min\,II} = s\perp$ [mm]	$T_{inst,max}$ [Nm]
Lightweight concrete blocks according to EN 771-3					
Perforated block made of lightweight concrete Bloc creux B40	M8	SH 16 x 85	100	494[7]	2
	M10	SH 16 x 85	100	494[7]	2
	M12	SH 20 x 130	120	494[7]	2
	M16	SH 20 x 130	120	494[7]	2
Solid brick made of lightweight concrete	M8	without	120	240	6
	M10	without	135	270	6
	M12	without	150	300	10
	M16	without	150	300	14
Perforated block made of lightweight concrete Leca Lex harkko RUH-200	M8	SH 16 x 85	127	498[8]	8
	M10	SH 16 x 85	127	498[8]	8
	M12	SH 20 x 130	195	498[8]	8
	M16	SH 20 x 130	195	498[8]	8
Perforated block made of lightweight concrete Leca Lex harkko RUH-200 Kulma	M8	without/SH 16 x 85	120/127	240/255	6/8
	M10	without/SH 16 x 85	135/127	270/255	12/8
	M12	without/SH 20 x 130	150/195	300/390	14/16
	M16	without/SH 20 x 130	150/195	300/390	16/16

[1]Values apply for s_{cr} = smin II. For $s_{min}\perp$, 113 mm applies
[2]Values apply for s_{cr} = smin II. For $s_{min}\perp$, 238 mm applies
[3]Values apply for s_{cr} = smin II. For $s_{min}\perp$, 299 mm applies
[4]Values apply for s_{cr} = smin II. For $s_{min}\perp$, 314 mm applies
[5]Values apply for s_{cr} = smin II. For $s_{min}\perp$, 274 mm applies
[6]Values apply for s_{cr} = smin II. For $s_{min}\perp$, 120 mm applies
[7]Values apply for s_{cr} = smin II. For $s_{min}\perp$, 190 mm applies
[8]Values apply for s_{cr} = smin II. For $s_{min}\perp$, 195 mm applies

Group factors for anchor groups under tensile load, transverse load parallel or perpendicular to the free edge: see ETA assessment.



If you are not familiar with how this product is used, and particularly with the product's intended use, please contact our Application Technology department (technik@eurotec.team).

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