

MOPOSE STYRENE FREE POLYESTER

Denomination: STYRENE FREE POLYESTER CHEMICAL MORTAR

Codes: **MOPOSE, MOPOSEP**

Reference: **FT MOPOSE-en**

Date: **10/11/16**

Revision: **5**

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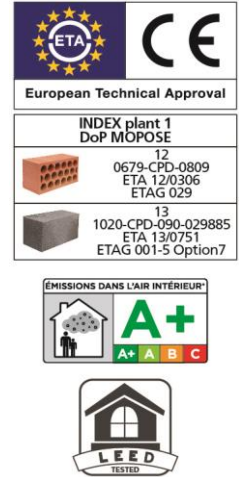
CHARACTERISTICS

- Styrene free.
- Easy assembly.
- For use in non-cracked concrete, hollow and solid partitioning.
- For use with medium-heavy loads.
- For use with static or quasi-static loads.
- Versions in zinc plated steel, stainless steel A2 and A4.
- Polyester resin for all types of materials.
- Range of temperatures for use: -40°C to +80°C (long term maximum temperature +50°C).

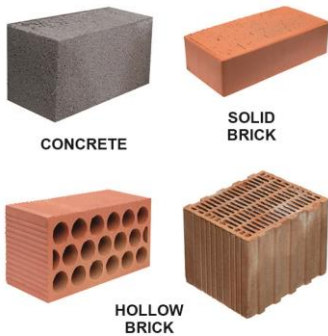
APPLICATIONS

- For indoor and outdoor use.
- Structural applications.
- For fixing stone cladding.
- Rehabilitation of façades.
- For fixing air conditioning supports, boilers, awnings, garage door frames, signs, balconies, shelving units, railings, handrails, etc.

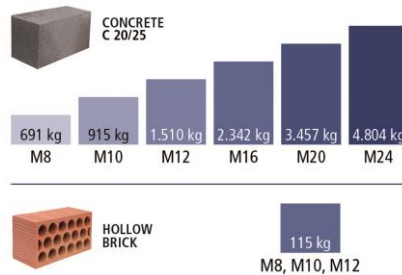
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BASE MATERIAL



MAXIMUM TENSION RESISTANCES RECOMMENDED



VALID FOR



SIZES

M8 - M24

DRILL HOLE CONDITION



APPLICATION EXAMPLES



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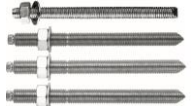






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1. RANGE

ITEM	CODE	MEAS.	PHOTO	COMPONENT	MATERIAL	
1	MOPOSE300 MOPOSE410	300 ml. 410 ml.		POLYESTER MORTAR	Styrene free polyester resin. Presentation: 300 and 410 ml cartridges.	12
2	MOPOSEP300 MOPOSEP410	300 ml. 410 ml.		POLYESTER MORTAR STONE COLOUR	Styrene free polyester resin in stone colour. Presentation: 300 and 410 ml cartridges.	12

2. ACCESSORIES

ITEM	CODE	PHOTO	COMPONENT	MATERIAL
1	MOPISSI		APPLICATION GUNS	Gun for standard 300 ml cartridges
	MOPISTO			Gun for 410 ml coaxial cartridges
	MOPI SPR	 Dieses Produkt wird nicht in Deutschland		Professional gun for 410 ml coaxial cartridges
2	MO-ES EQ-AC EQ-A2 EQ-A4		STUDS	Threaded steel studs, class 5.8 ISO 898-1 Threaded steel studs, class 5.8 ISO 898-1 Threaded Stainless steel studs A2-70 Threaded Stainless steel studs A4-70
3	MORCEPKIT		CLEANING BRUSHES	Kit of 3 cleaning brushes of $\varnothing 14$, $\varnothing 20$ and $\varnothing 29$ mm.
4	MOBOMBA		CLEANING PUMP	Pump for cleaning dust and drill hole fragments
5	MORCANU		MIXING NOZZLE	Plastic. Helix static mixer
6	MO-TN		NYLON SLEEVE	Plastic. Available in white or grey
7	MO-TR		METAL THREADED SLEEVE	Metal threaded sleeve M8, M10, M12, zinc plated.
8	MO-TM		METAL SLEEVE	Metal sleeve $\varnothing 12$, $\varnothing 16$ and $\varnothing 22$.

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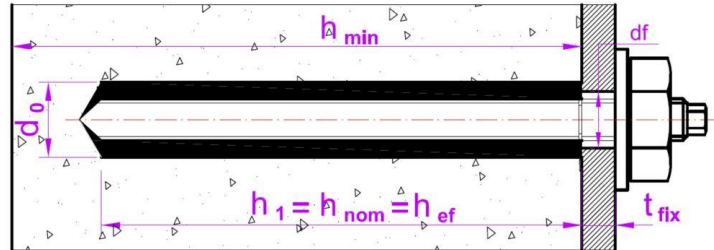
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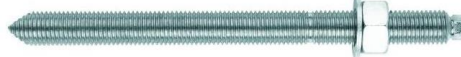

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3. INSTALLATION DATA

3.1. CONCRETE FIXINGS



MEASUREMENT		M8	M10	M12	M16	M20	M24
d ₀ : nominal diameter	[mm]	10	12	14	18	22	26
d _f : fixture hole diameter ≤	[mm]	9	12	14	18	22	26
T _{ins} : torque ≤	[Nm]	10	20	40	80	150	200
Circular cleaning brush diameter		Ø14		Ø20		Ø29	
h_{ef,min} = 8d							
h ₁ : drill hole depth	[mm]	64	80	96	128	160	192
s _{cr,N} : critical spacing	[mm]	192	240	288	384	480	576
c _{cr,N} : critical edge distance	[mm]	96	120	144	192	240	288
c _{min} : minimum distance to edge	[mm]	35	40	50	65	80	96
s _{min} : minimum spacing	[mm]	35	40	50	65	80	96
h _{min} : minimum concrete thickness	[mm]	100	110	126	158	204	244
Standard Stud							
h ₁ : drill hole depth	[mm]	80	90	110	128	170	210
s _{cr,N} : critical spacing	[mm]	240	270	330	384	510	630
c _{cr,N} : critical edge distance	[mm]	120	135	165	192	255	315
c _{min} : minimum distance to edge	[mm]	43	45	56	65	85	105
s _{min} : minimum spacing	[mm]	43	45	56	65	85	105
h _{min} : minimum concrete thickness	[mm]	110	120	140	158	214	262
h_{ef,max} = 12d							
h ₁ : drill hole depth	[mm]	96	120	144	192	240	288
s _{cr,N} : critical spacing	[mm]	288	360	432	576	720	864
c _{cr,N} : critical edge distance	[mm]	144	180	216	288	360	432
c _{min} : minimum distance to edge	[mm]	50	60	70	95	120	145
s _{min} : minimum spacing	[mm]	50	60	70	95	120	145
h _{min} : minimum concrete thickness	[mm]	126	150	174	222	284	340
Zinc plated Stud Code							
		EQAC08110	EQAC10130	EQAC12160	EQAC16190	EQAC20260	EQAC24300
Stainless Steel Stud Code A2 / A4							
		EQA208110 EQA408110	EQA210130 EQA410130	EQA212160 EQA412160	EQA216190 EQA416190	EQA220260 EQA420260	EQA24300 EQA44300

The h_{ef} depth value may be selected by the user ranging between h_{ef,min} = 8d and h_{ef,max} = 12d. Any intermediate values may be interpolated.

Critical distances are those where anchors in a group of anchors are not influenced by one another with regard to tension load effects. For smaller distances, down to minimum distances, corresponding reduction coefficients must be applied.

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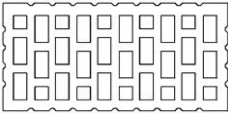
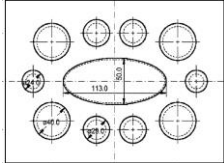
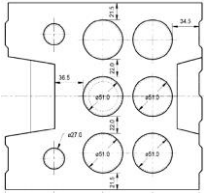
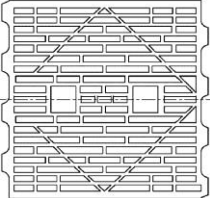
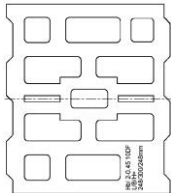
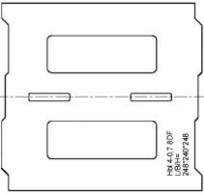
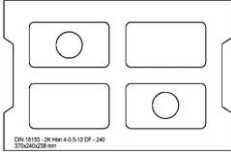
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Standard studs are available for each measurement, as shown in the table.

3.2. SOLID OR HOLLOW BRICK FIXINGS

3.2.1 TYPES OF BRICKS

<p>Brick nº 1 Hollow baked clay brick HLz 12-1, 0-2DF according to EN 771-1 Length / width / height: 235 mm / 112 mm / 115 mm $f_b \geq 12 \text{ N/mm}^2$ / $\rho \geq 1,0 \text{ kg/dm}^3$</p>		<p>Brick nº 2a Hollow sillico calcareous brick KSL 12-1, 4-3DF according to EN 771-2 Length / width / height: 240 mm / 175 mm / 113 mm $f_b \geq 12 \text{ N/mm}^2$ / $\rho \geq 1,4 \text{ kg/dm}^3$</p>	
<p>Brick nº 2b Hollow sillico calcareous brick KSL 12-1, 4-2DF according to EN 771-2 Length / width / height: 250 mm / 240 mm / 237 mm $f_b \geq 12 \text{ N/mm}^2$ / $\rho \geq 1,4 \text{ kg/dm}^3$</p>		<p>Brick nº 3 Solid baked clay brick Mz 12-2, 0-NF according to EN 771-1. Length / width / height: 240 mm / 116 mm / 71 mm $f_b \geq 12 \text{ N/mm}^2$ / $\rho \geq 2,0 \text{ kg/dm}^3$</p>	<p>Brick nº 4 Solid sillico calcareous brick KS 12-2, 0-NF according to EN 771-2. Length / width / height: 240 mm / 115 mm / 70 mm $f_b \geq 12 \text{ N/mm}^2$ / $\rho \geq 2,0 \text{ kg/dm}^3$</p>
<p>Brick nº 5 Hollow baked clay brick HLzW 6-0,7-8DF according to EN 771-1 Length / width / height: 250 mm / 240 mm / 240 mm $f_b \geq 6 \text{ N/mm}^2$ / $\rho \geq 0,8 \text{ kg/dm}^3$</p>		<p>Brick nº 6 Hollow lightweight concrete block Hbl 2-0,45-10DF according to EN 771-3 Length / width / height: 250 mm / 300 mm / 248 mm $f_b \geq 2,0 \text{ N/mm}^2$ / $\rho \geq 0,45 \text{ kg/dm}^3$</p>	
<p>Brick nº 7 Hollow lightweight concrete block Hbl 4-0, 7-8DF according to EN 771-3 Length / width / height: 250 mm / 240 mm / 248 mm $f_b \geq 4,0 \text{ N/mm}^2$ / $\rho \geq 0,7 \text{ kg/dm}^3$</p>		<p>Brick nº 8 Concrete block Hbn 4-12DF according to EN 771-3 Length / width / height: 370 mm / 240 mm / 238 mm $f_b \geq 4 \text{ N/mm}^2$ / $\rho \geq 1,2 \text{ kg/dm}^3$</p>	

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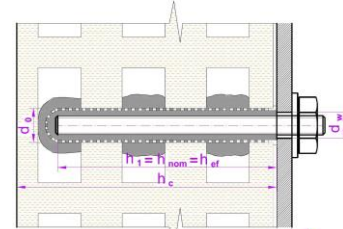
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3.2.2 INSTALLATION PARAMETERS

For fixing in hollow bricks, a nylon or metal sleeve should be used to keep the resin in place and to prevent it from seeping through interior holes.



MEASUREMENT		M8		M10		M12	
Nylon sleeve	ls	85		85		85	
	d ₀	15		15		20	
Mortar volume per sleeve	[ml]	15		15		27	
h ₁ : drill hole depth ≥	[mm]	90		90		90	
h _{nom} : sleeve installation depth	[mm]	85		85		85	
h _{ef} : stud bolt depth ≥	[mm]	80		80		80	
t _{fix} : thickness of material to be fixed ≤	[mm]	22		25		18	
h _c : base material thickness ≥	[mm]	110		110		110	
d _f : metal sheet diameter ≤	[mm]	9		12		14	
T _{ins} : torque ≤	[Nm]	2		2		2	
Circular brush				ø20			
Stud Code		MOES08110		MOES10115		MOES12110	
Sleeve Code		MOTN15085		MOTN15085		MOTN20085	
Critical/Minimum spacing and distance to edge		S _{min}	S _{cr}	S _{min}	S _{cr}	S _{min}	S _{cr}
		C _{min}		C _{min}		C _{min}	
Brick number 1	[mm]	100	235	100	235	120	235
Brick number 2	[mm]	100	250	100	250	120	250
Brick number 3	[mm]	50	160	50	200	60	240
Brick number 4	[mm]	50	160	50	200	60	240
Brick number 5	[mm]	100	250	100	250	120	250
Brick number 6	[mm]	100	250	100	250	--	--
Brick number 7	[mm]	100	250	100	250	120	250
Brick number 8	[mm]	100	370	100	370	120	370

In some cases to perform installations in bricks where a stud is required to be threaded, a metal sleeve with an internal thread can be used for fixing. In this case, the metal sleeve with internal thread must be inside a plastic sleeve. The parameters are indicated in the following table:

MEASUREMENT		M8		M10		M12	
Metal internal threaded sleeve		12x80		14x80		16x80	
Plastic sleeve	ls	85		85		85	
	d ₀	15		15		15	
Mortar volume per sleeve	[ml]	15		15		15	
h ₁ : drill hole depth ≥	[mm]	90		90		90	
h _{nom} : sleeve installation depth	[mm]	85		85		85	
h _{ef} : stud bolt depth ≥	[mm]	80		80		80	
t _{fix} : thickness of material to be fixed ≤	[mm]	26		32		24	
h _c : base material thickness ≥	[mm]	110		110		110	
d _f : metal sheet diameter ≤	[mm]	9		12		14	
T _{ins} : torque ≤	[Nm]	2		2		2	
Circular brush				ø20			
Stud Code		MOES08110		MOES10115		MOES12110	
Sleeve Code		MOTN15085		MOTN15085		MOTN20085	
Metal Internal Threaded Sleeve Code		MOTRO08		MOTRO10		MOTRO12	
Critical/Minimum spacing and distance to edge		S _{min}	S _{cr}	S _{min}	S _{cr}	S _{min}	S _{cr}
		C _{min}		C _{min}		C _{min}	
Brick number 1	[mm]	50	235	120	235	120	235
Brick number 2	[mm]	--	--	120	250	120	250
Brick number 3	[mm]	50	240	60	280	60	320
Brick number 4	[mm]	50	240	60	280	60	320
Brick number 5	[mm]	100	250	120	250	120	250
Brick number 6	[mm]	100	250	120	250	120	250
Brick number 7	[mm]	--	--	120	250	120	250

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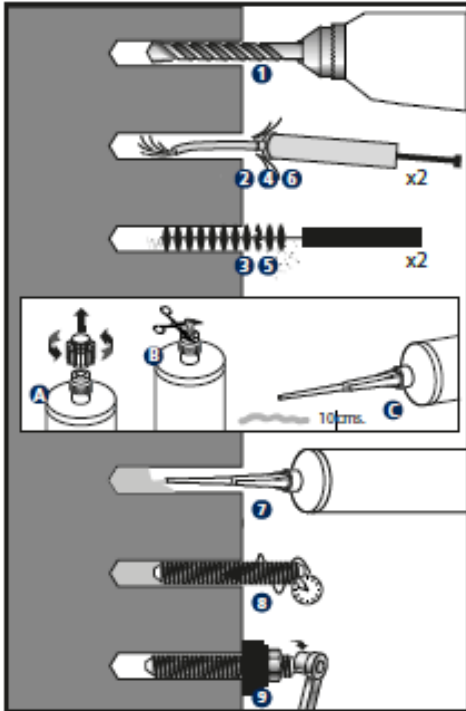
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Brick number 8	[mm]	100	370	120	370	120	370
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4. PRODUCT INSTALLATION PROCEDURE

4.1. INSTALLATION IN CONCRETE



1. DRILLING

Check the concrete base is compact and porosity is insignificant.

Suitable for wet, dry or flooded drill holes.

Cartridge installation temperature: $\geq 5\text{ }^{\circ}\text{C}$.

Base material installation temperature: MOPOSE, MOPOSEP $\geq 5\text{ }^{\circ}\text{C}$

MOPOSEW $\geq -10\text{ }^{\circ}\text{C}$

MOPOSES $\geq +10\text{ }^{\circ}\text{C}$

Use drill in hammer mode.

Drill to the specified diameter and depth values.

2 - 6. BLOW AND CLEAN

Clear the drill holes completely of dust and fragments by following the procedure shown in the picture. If the drill hole is flooded, the water must be removed before mortar is injected.

A - B - C. OPEN CARTRIDGE

Screw the nozzle into the cartridge and place the assembly in the application gun. Squeeze on the trigger repeatedly until the mortar comes out of the nozzle in a uniform grey colour. Any iridescence indicates improper mixing. Always discard the first two doses of each cartridge: these are never to be used for fixing. **For 300 ml cartridges, cut end of bag, behind seal clip.**

7. INJECT MORTAR

Insert the nozzle to the bottom of the drill hole and apply mortar: gradually remove the nozzle, ensuring there are no air bubbles.

Fill the hole to $\frac{1}{2}$ and $\frac{3}{4}$ of its depth.

In the event of not fully using the cartridge, leave nozzle attached. Only change if using again and handling time has expired, remembering to discard the first two doses of mortar.

8. INSTALLATION

Introduce the stud to be installed by screwing it lightly down to the installation depth value manually; ensuring the mortar covers the stud thread. The introduction of the anchor must take place within the handling time. The mortar must seep from the top of the drill hole to ensure it is completely full and there are no gaps between the stud and the drill hole.

TYPE	Base material temperature [°C]	Handling Time [min]	Base material temperature [°C]	Curing Time [min]
MOPOSE / MOPOSEP	min +5	18	min +5	145
	+5 to +10	10	+5 to +10	145
	+10 to +20	6	+10 to +20	85
	+20 to +25	5	+20 to +25	50
	+25 to +30	4	+25 to +30	40
	+30	4	+30	35

9. APPLY TORQUE

Once the curing time has elapsed, apply torque, never exceeding the values indicated in the table in section 3.1.

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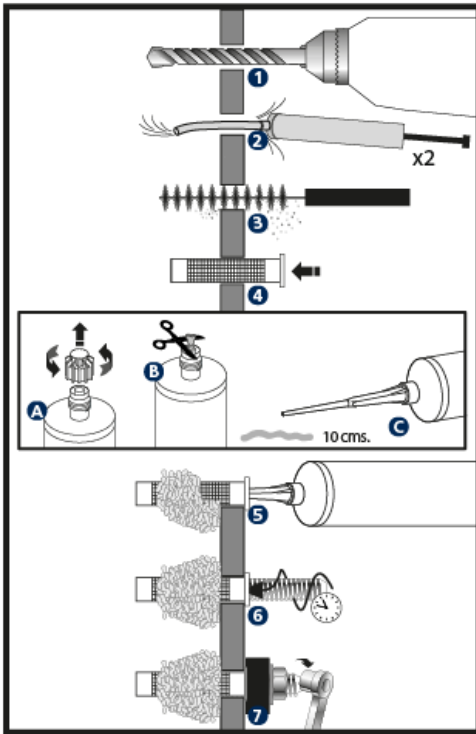
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4.2. INSTALLATION IN BRICKS



1. DRILLING

Check the concrete base is compact and porosity is insignificant.
 Suitable for wet, dry or flooded drill holes.
 Cartridge installation temperature: $\geq 5\text{ }^{\circ}\text{C}$.
 Base material installation temperature: MOPOSE, MOPOSEP $\geq 5\text{ }^{\circ}\text{C}$
 MOPOSEW $\geq -10\text{ }^{\circ}\text{C}$
 MOPOSES $\geq +10\text{ }^{\circ}\text{C}$

Use drill in rotation mode.
 Drill to the specified diameter and depth values.

2 - 3. BLOW AND CLEAN

Clear the drill holes completely of dust and fragments by following the procedure shown in the picture. If the drill hole is flooded, the water must be removed before mortar is injected.

4. POSITION SLEEVE(S)

Insert the metal or plastic sleeve into the drill hole so it is level with the surface of the base material. Remove any plaster, mortar, etc, so that the sleeve border is level with the brick surface.

A – B* – C. OPEN CARTRIDGE

Screw the nozzle into the cartridge and place the assembly in the application gun. Squeeze on the trigger repeatedly until the mortar comes out of the nozzle in a uniform grey colour. Any iridescence indicates improper mixing. Always discard the first two doses of each cartridge: these are never to be used for fixing. ***For 300 ml cartridges, cut end of bag, behind seal clip.**

5. INJECT MORTAR

Insert the nozzle to the bottom of the drill hole and apply mortar: gradually remove the nozzle, ensuring there are no air bubbles. Fill the sleeve completely with mortar.

Fill the hole to $\frac{1}{2}$ and $\frac{3}{4}$ of its depth.

In the event of not fully using the cartridge, leave nozzle attached. Only change if using again and handling time has expired, remembering to discard the first two doses of mortar.

6. INSTALLATION

Introduce the stud to be installed by screwing it lightly down to the installation depth value manually; ensuring the mortar covers the stud thread. The introduction of the anchor must take place within the handling time.

TYPE	Base material temperature [°C]	Handling Time [min]	Base material temperature [°C]	Curing Time [min]
MOPOSE / MOPOSEP	min +5	18	min +5	145
	+5 to +10	10	+5 to +10	145
	+10 to +20	6	+10 to +20	85
	+20 to +25	5	+20 to +25	50
	+25 to +30	4	+25 to +30	40
	+30	4	+30	35

7. APPLY TORQUE

Once the curing time has elapsed, apply torque, never exceeding the values indicated in the table in section 3.2.2.

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5. STORAGE CONDITIONS

Keep the product stored in a cool, dry place, away from direct sunlight and heat sources, at an average temperature between +5 °C and +25 °C.



Shelf life of unopened cartridge: 18 months from the date of manufacture. The expiration date is indicated on the cartridge.

6. RESISTANCES

6.1. CONCRETE FIXINGS

Characteristic resistances for C20/25 concrete for an isolated anchor (without considering anchor-to-anchor or anchor-to-edge distance effects) and class 5.8 studs or A4-70 stainless steel are shown in tables below:

CHARACTERISTIC RESISTANCES										
SIZE					M8	M10	M12	M16	M20	M24
Zinc plated	Tension	$h_{ef,min} = 8d$	N_{Rk}	[kN]	13,6	20,1	32,5	57,9	80,4	108,5
		Standard stud	N_{Rk}	[kN]	17,0	22,6	37,3	57,9	85,4	118,7
		$h_{ef,max} = 12d$	N_{Rk}	[kN]	20,5	30,1	48,8	86,8	120,6	162,8
Stainless Steel	Tension	All depths	V_{Rd}	[kN]	<u>9</u>	<u>15</u>	<u>21</u>	<u>39</u>	<u>61</u>	<u>88</u>
		$h_{ef,min} = 8d$	N_{Rk}	[kN]	13,6	20,1	32,5	57,9	80,4	108,5
		Standard stud	N_{Rk}	[kN]	17,0	22,6	37,3	57,9	85,4	118,7
Stainless Steel	Tension	$h_{ef,max} = 12d$	N_{Rk}	[kN]	20,5	30,1	48,8	86,8	120,6	162,8
		All depths	V_{Rk}	[kN]	<u>13</u>	<u>20</u>	<u>30</u>	<u>55</u>	<u>86</u>	<u>124</u>

DESIGN RESISTANCES										
SIZE					M8	M10	M12	M16	M20	M24
Zinc plated	Tension	$h_{ef,min} = 8d$	N_{Rd}	[kN]	7,6	11,1	18,1	32,1	44,6	60,3
		Standard stud	N_{Rd}	[kN]	9,4	12,5	20,7	32,1	47,4	65,9
		$h_{ef,max} = 12d$	N_{Rd}	[kN]	11,3	16,7	27,1	48,2	67,0	90,4
Stainless Steel	Tension	All depths	V_{Rd}	[kN]	<u>7,2</u>	<u>12,0</u>	<u>16,8</u>	<u>31,2</u>	<u>48,8</u>	<u>70,4</u>
		$h_{ef,min} = 8d$	N_{Rd}	[kN]	7,6	11,1	18,1	32,1	44,6	60,3
		Standard stud	N_{Rd}	[kN]	9,4	12,5	20,7	32,1	47,4	65,9
Stainless Steel	Tension	$h_{ef,max} = 12d$	N_{Rd}	[kN]	11,3	16,7	27,1	48,2	67,0	90,4
		All depths	V_{Rd}	[kN]	<u>8,3</u>	<u>12,8</u>	<u>19,2</u>	<u>35,2</u>	<u>55,1</u>	<u>79,4</u>

MOPOSE STYRENE FREE POLYESTER

Denomination: STYRENE FREE POLYESTER CHEMICAL MORTAR

Codes: **MOPOSE, MOPOSEP**

Reference: **FT MOPOSE-en**

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MAXIMUM RECOMMENDED LOADS (with $\gamma_F = 1.4$)

SIZE					M8	M10	M12	M16	M20	M24
Zinc plated	Tension	$h_{ef,min} = 8d$	N_{recom}	[kN]	5,4	7,9	12,9	22,9	31,9	43,0
		Standard stud	N_{recom}	[kN]	6,7	8,9	14,8	22,9	33,9	47,1
		$h_{ef,max} = 12d$	N_{recom}	[kN]	8,1	11,9	19,3	34,4	47,8	64,6
Stainless Steel	Tension	All depths	V_{recom}	[kN]	<u>5,1</u>	<u>8,5</u>	<u>12,0</u>	<u>22,2</u>	<u>34,8</u>	<u>50,2</u>
		$h_{ef,min} = 8d$	N_{recom}	[kN]	5,4	7,9	12,9	22,9	31,9	43,0
		Standard stud	N_{recom}	[kN]	6,7	8,9	14,8	22,9	33,9	47,1
Stainless Steel	Shear	$h_{ef,max} = 12d$	N_{recom}	[kN]	8,1	11,9	19,3	34,4	47,8	64,6
		All depths	V_{recom}	[kN]	<u>5,9</u>	<u>9,1</u>	<u>13,7</u>	<u>25,1</u>	<u>39,3</u>	<u>56,7</u>

1 kN \approx 100 kg

The italic font underlined values indicate steel failure; rest indicate pull-out failure.

These are coefficients for tension loads in pull-out failure in high-resistance concrete types:

CONCRETE FACTOR	C30/37	C40/50	C50/60
Ψ_C	1,12	1,19	1,30

6.2. BRICK FIXINGS

CHARACTERISTIC RESISTANCES (F_{Rk})						
Base Material* <small>*Consult brick type on page 4, section 3.2.1</small>	Threaded Studs Tension and Shear [kN]			Metal threaded sleeve Tension and Shear [kN]		
	M8	M10	M12	M8	M10	M12
Brick number 1	2,5	2,0	2,0	1,5	2,5	2,5
Brick number 2	0,75	1,2	1,5	--	0,75	0,4
Brick number 3	1,5	1,5	3,0	2,0	3,0	4,0
Brick number 4	0,75	0,9	1,5	2,0	1,5	0,9
Brick number 5	1,2	1,2	0,9	0,9	1,5	0,6
Brick number 6	0,6	0,2	--	0,5	0,3	0,75
Brick number 7	0,6	1,5	1,2	--	0,4	0,6
Brick number 8	2,5	1,5	2,5	0,6	1,2	0,9

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DESIGN RESISTANCES (F_{Rd})

Base Material* <small>*Consult brick type on page 4, section 3.2.1</small>	Threaded Studs Tension and Shear [kN]			Metal threaded sleeve Tension and Shear [kN]		
	M8	M10	M12	M8	M10	M12
Brick number 1	1	0,8	0,8	0,6	1	1
Brick number 2	0,3	0,48	0,6	--	0,3	0,16
Brick number 3	0,6	0,6	1,2	0,8	1,2	1,6
Brick number 4	0,3	0,36	0,6	0,8	0,6	0,36
Brick number 5	0,48	0,48	0,36	0,36	0,6	0,24
Brick number 6	0,24	0,08	--	0,2	0,12	0,3
Brick number 7	0,24	0,6	0,48	--	0,16	0,24
Brick number 8	1	0,6	1	0,24	0,48	0,36

MAXIMUM LOADS RECOMMENDED (F_{recom}) (with $\gamma_F = 1.4$)

Base Material* <small>*Consult brick type on page 4, section 3.2.1</small>	Threaded Studs Tension and Shear [kN]			Metal threaded sleeve Tension and Shear [kN]		
	M8	M10	M12	M8	M10	M12
Brick number 1	0,71	0,57	0,57	0,43	0,71	0,71
Brick number 2	0,21	0,34	0,43	--	0,21	0,11
Brick number 3	0,43	0,43	0,86	0,57	0,86	1,14
Brick number 4	0,21	0,26	0,43	0,57	0,43	0,26
Brick number 5	0,34	0,34	0,26	0,26	0,43	0,17
Brick number 6	0,17	0,06	--	0,14	0,09	0,21
Brick number 7	0,17	0,43	0,34	--	0,11	0,17
Brick number 8	0,71	0,43	0,71	0,17	0,34	0,26

7. OFFICIAL DOCUMENTATION

The following documents are available through our Sales Department or on our official website: www.indexfix.com

- MOPOSE Safety Data Sheet.
- European Technical Approval ETA 13/0751 for installation in non-cracked concrete according to ETAG 001 Guide, option 7, for M8 to M24.
- European Technical Approval ETA 12/0306 for installation in partitioning, according to ETAG 001.
- Classified A+ according to French Regulation DEVL11044875A relative to the emission of volatile pollutants for indoor use.
- LEED MOPOSE Certification of emission of volatile pollutants.
- Certification AVCP 1020-CPD-090-029885 for use in non-cracked concrete.
- Certification AVCP 0679-CPD-0809 for use in partitioning.
- Declaration of Performance DoP MOPOSE.
- INDEXcal anchor calculation software.
- INDEXmor cartridge calculation needs software.