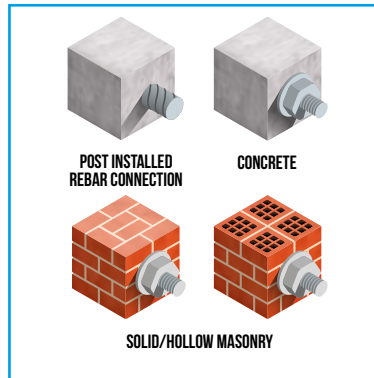


VINYLESTER CHEMICAL RESIN 100% CERTIFIED



FEATURES

Vinylester styrene-free resin

Can be used with:

- M8 to M30 zinc-plated and A4-70 stainless steel threaded rod.
- Ø8 to Ø32 reinforcing bar
- Ø8 to Ø25 rebar connection

advantages:

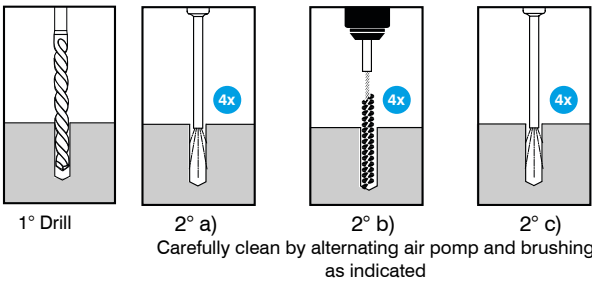
- ETA x3:
 - OPTION 7: M8 to M30 threaded rod and Ø8 to Ø32 reinforcing bar in non cracked concrete.
 - REBAR: Ø8 to Ø32 rebar connection.
 - MASONRY: M8 to M12 solid and hollow masonry.
- Fire resistant (F120)
- Very low odour
- Can be used in immersed holes (threaded rod M8 to M16 and reinforcing bar Ø8 to Ø16).
- Temperature range in concrete: from -40°C to +120°C for threaded rods and rebars in masonry: from -40°C to +80°C for rebar connection or threaded rod

APPLICATION EXAMPLES

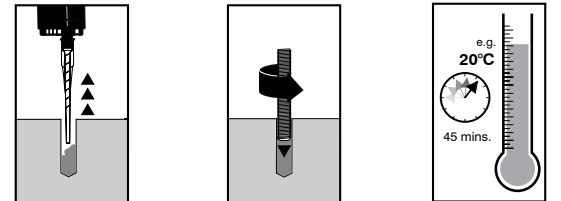
- Railings, anchoring scaffolding
- Metal gantries, hollow block
- Bracket anchors, joist end plates
- Blinds, gates, hinges boilers

INSTALLATION

Concrete and solid masonry :



3° Attach the mixing nozzle to the cartridge. Before filling the hole, extrude first 5-10 ml out of the hole (fill the nozzle at least 3 times) until the colour becomes evenly grey.

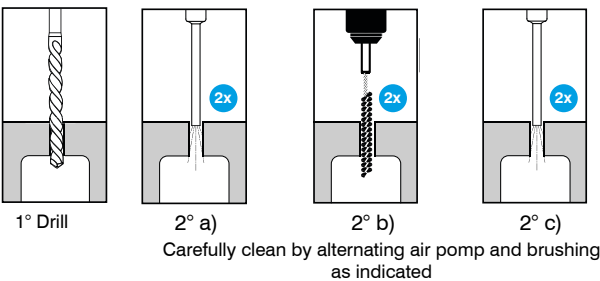


4° Fill the hole 1/2 to 2/3 full with the resin from the bottom upwards

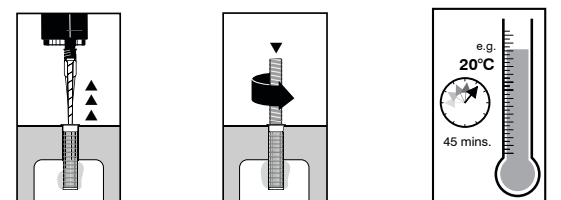
5° Insert the threaded rod by turning it slowly

6° Once the curing time is reached, fix the add-on part with the max torque

Hollow masonry :



3° Attach the mixing nozzle to the cartridge. Before filling the hole, extrude first 5-10 ml out of the hole (fill the nozzle at least 3 times) until the colour becomes evenly grey.



4° Insert the nylon sieve into the hole and fill with the resin, from the bottom up.

5° Insert the threaded rod by turning it slowly


6° Once the curing time is reached, fix the add-on part with the max torque

CURING TIME

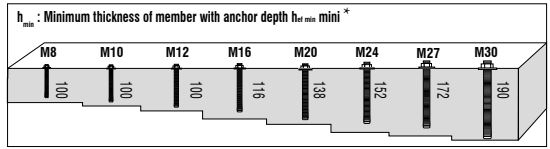
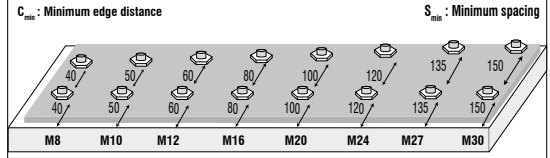
Concrete temperature	- 10°C	-5°C	0°C	+ 5°C	+ 10°C	+ 20°C	+ 30°C	+ 35°C
Maximum working time	90'	90'	45'	25'	15'	6'	4'	2'
Minimum Curing time on dry support	24h	14h	7h	2h	80'	45'	25'	20'
Minimum Curing time on wet support	48h	28h	14h	4h	160'	90'	50'	40'


For implementation to T° < 0°C, cartridge temperature must be between +15° C and +25° C
 For implementation to 0° < T° < 30°C cartridge temperature must be between +5° C and +25° C
 For implementation to T° > 30°C cartridge temperature must be < +20°C

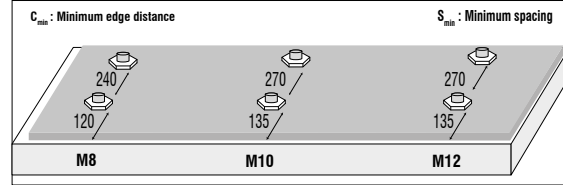
INSTALLATION DATAS


Concrete		M8	M10	M12	M16	M20	M24	M27	M30
 Ø drill size (mm)	d_{cut}	10	12	14	18	24	28	32	35
Standard anchor depth (mm)	h_{ef}	80	90	110	125	170	210	250	270
Torque setting (N.m.)	T_{inst}	10	20	40	60	120	150	180	200

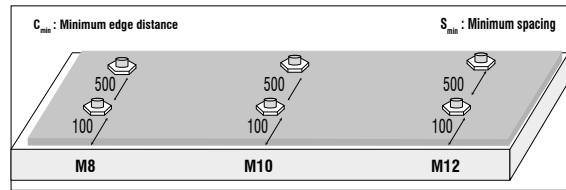
* See ETA for h_{ef} mini values



Solid masonry without sieve		M8	M10	M12
 Ø drill size (mm)	d_{cut}	10	12	14
Standard anchor depth (mm)	h_{ef}	80	90	90
Torque setting (N.m.)	T_{inst}	2	2	2

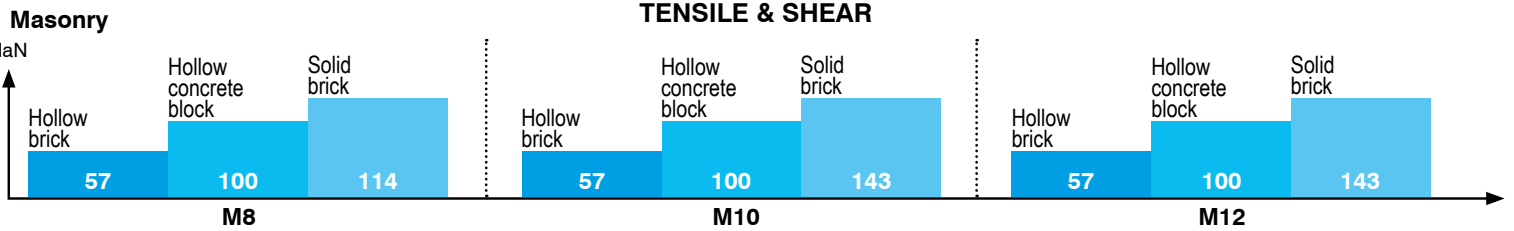
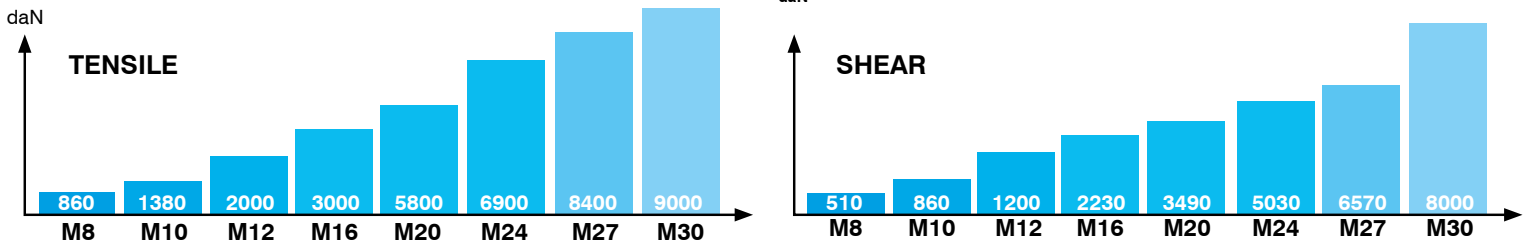


Hollow masonry with sieve		M8	M10	M12
 sieve size (mm)	$\emptyset xL$	13x100	15x100	15x100
Ø drill size (mm)	d_{cut}	14	16	16
Standard anchor depth (mm)	h_{ef}	80	90	90
Torque setting (N.m.)	T_{inst}	2	2	2



RECOMMENDED LOADS

Non cracked concrete C20/25



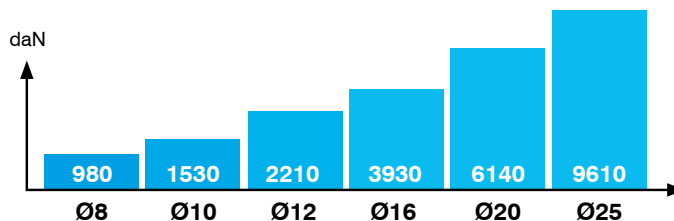
REBAR CONNECTION : INSTALLATION DATA AND RECOMMENDED LOADS

Data for HA H500B rebar connection, for spacing > 7 Ø and without edge influence with $\alpha_1 = \alpha_2 = \alpha_3 = \alpha_4 = \alpha_5 = 1$

	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	
Ø drill size (mm)	d_{cut}	12	14	16	20	25	30
Standard anchor depth (mm)	l_{db}	170* 270	213* 340	255* 410	340* 550	425* 690	532* 860
loads in C20/25 concrete (daN)		980 / 1560	1530 / 2450	2210 / 3550	3930 / 6350	6140 / 9970	9610 / 15530

* minimum anchor depth

Tensile loads for minimum anchor depth in C20/25 concrete



For accurate loads and installation data, requirements specified in the three ETA must be respected as well as the installation guide.