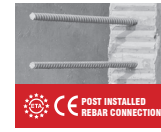
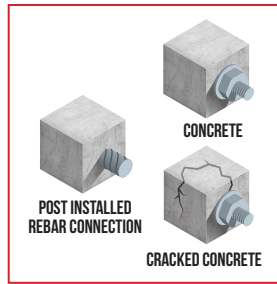


# HYBRID CHEMICAL RESIN HIGH RESISTANCE, SEISMIC APPLICATION

X-BRID



## FEATURES

### Vinylester-urethane styrene-free hybrid resin

#### Can be used with:

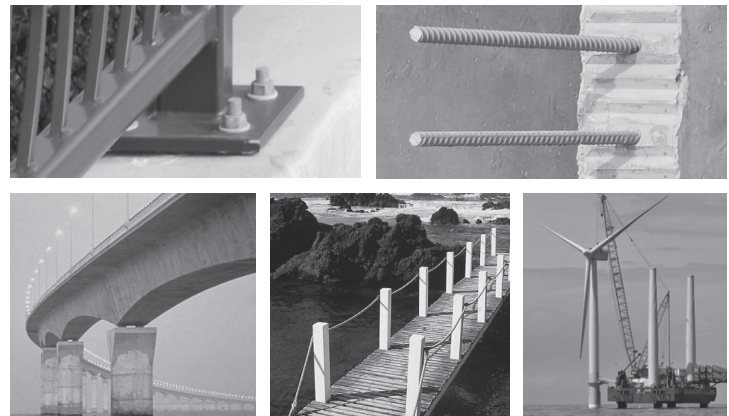
- M8 to M30 zinc-plated and A4-70 stainless steel threaded rod
- Ø8 to Ø32 reinforcing bar
- Ø8 to Ø32 rebar connection
- Concrete C12/15 C20/25 C50/60

#### Avantages:

- ETA x 2 :
  - Option 1 : M8 to M30 threaded rod and Ø8 to Ø32 reinforcing bar in cracked/non cracked concrete.
  - Rebar : Ø8 to Ø32 rebar connection.
- Very high mechanical resistance, including in aggressive atmospheres
- C1 performance for threaded rods (M8-M30) and reinforcing bars (Ø8-Ø32)
- C2 performance for threaded rods (M12 to M24)
- Can be used in flooded bore holes
- The ETA includes the cleaning of the drill hole with the Heller® HDB System (Hollow Drill Bit system)
- Fire resistant (F120)
- Low odour
- Temperature range :
  - From -40°C to +80°C for rebar connection
  - From -40°C to +16 °C for threaded rod
- Available in "peel pack" 280 ml cartridge

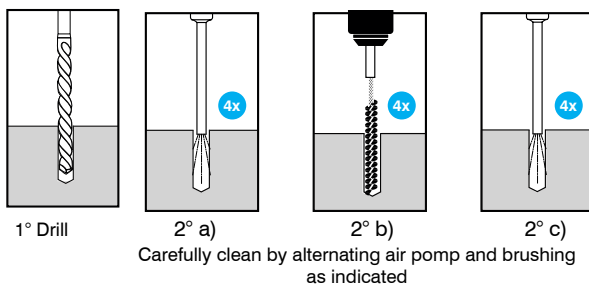
## APPLICATION EXAMPLES

- Rebar connection
- Railings, anchoring scaffolding
- Metal gantries, hollow block
- Bracket anchors, joist end plates
- Can be injected into water filled holes

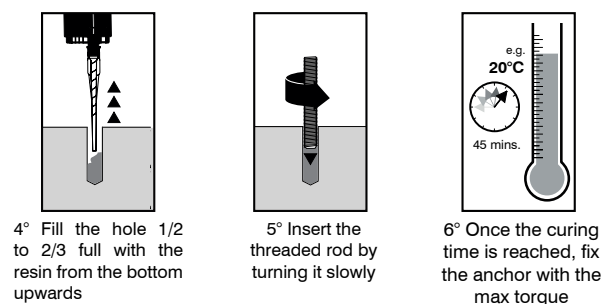


## INSTALLATION

### Concrete & solid brick



3° Attach the mixing nozzle to the cartridge. Before filling the hole, extrude first 5-10 cm out of the hole until the colour becomes evenly grey



## CURING TIME

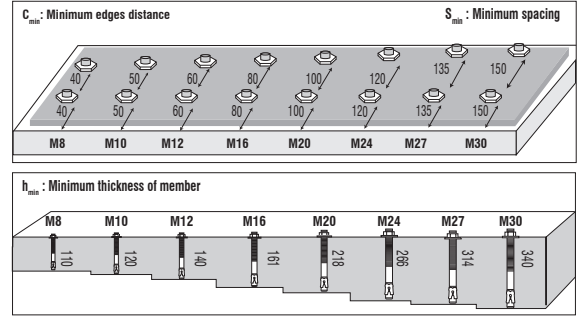
Concrete temperature	-5°C	0°C	+ 5°C	+ 10°C	+ 15°C	+ 20°C	+ 30°C
Maximum working time	50'	25'	15'	10'	6'	3'	2'
Minimum Curing time on dry support	5h	3,5h	2h	1h	40'	30'	30'
Minimum Curing time on wet support	10h	7h	4h	2h	80'	60'	60'

To start the installation, cartridge temperature must be between +5°C and +40°C

# INSTALLATION DATAS

## Concrete material

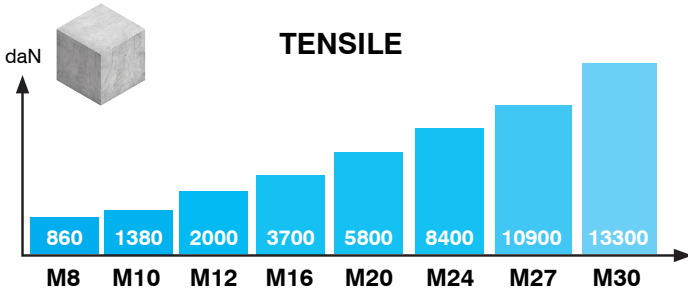
		M8	M10	M12	M16	M20	M24	M27	M30
Ø Drill size (mm)	$d_{cut}$	10	12	14	18	24	28	32	35
Standard anchor depth (mm)	$h_{ef}$	80	90	110	125	170	210	250	270
Torque setting (N.m)	$T_{inst}$	10	20	40	80	120	160	180	200



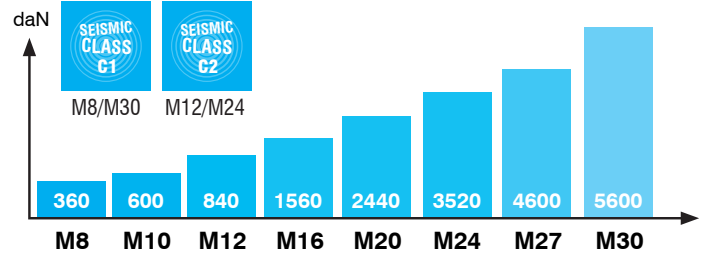
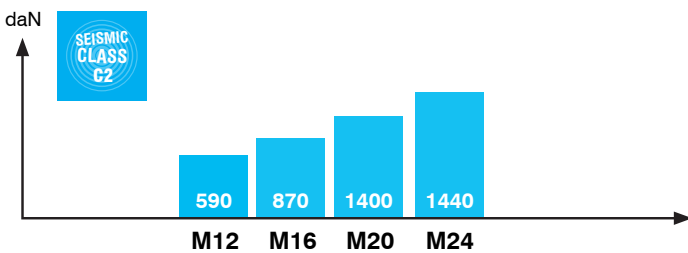
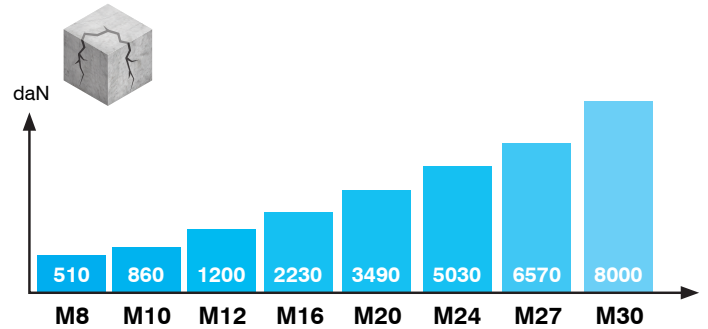
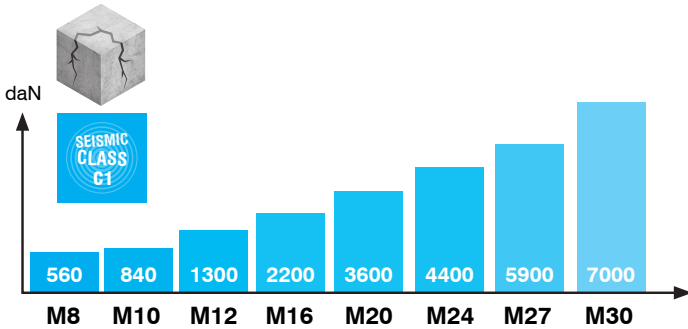
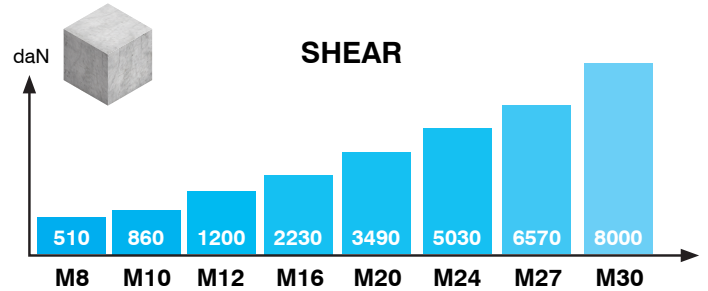
## THREADED ROD RESIN : RECOMMENDED LOADS

- Loads are calculated from characteristic values published in the ETA on which partial safety factors from the ETAG001 and a partial action  $f$  coefficient  $\gamma_f = 1.4$  are applied.
- Values are given for standard anchor depths, in C20/25 wet or dry concrete, for 1 temperature range (50°C/80°C) with 5.8 ZINC PLATED steel threaded rod.

### TENSILE



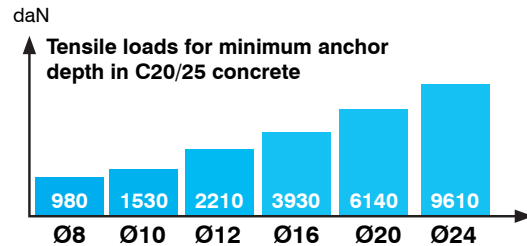
### SHEAR



## REBAR CONNECTION : INSTALLATION DATA AND RECOMMENDED LOADS

Data for HA H500B rebar connection, for spacing  $> 7 \varnothing$  and without edge influence with  $a_1 = a_2 = a_3 = a_4 = a_5 = 1$

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



\* Minimum anchor depth

For accurate loads and installation data, requirements specified in the ETA 14/0081 must be respected as well as the installation guide.