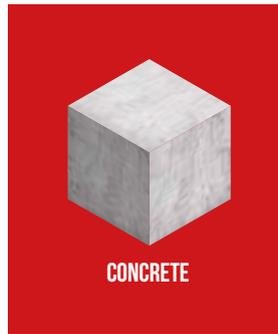
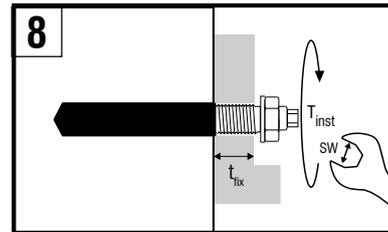
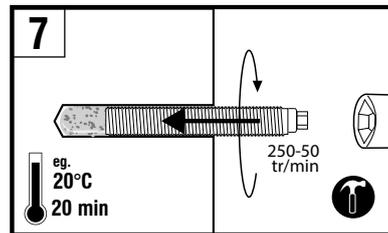
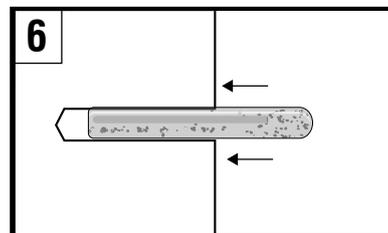
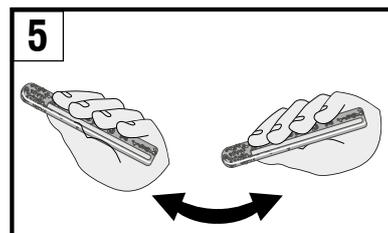
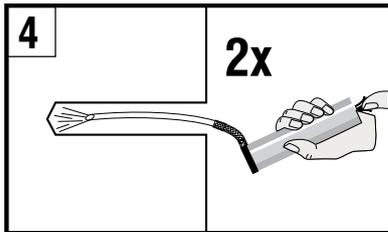
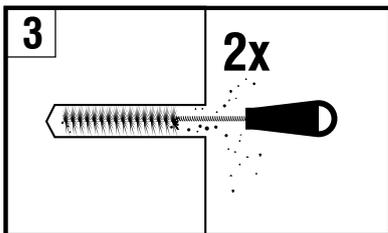
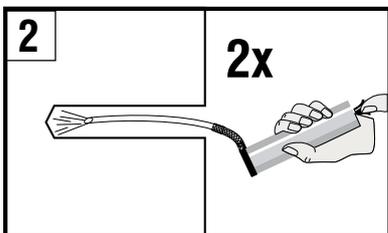
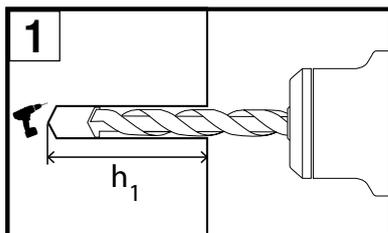


CHEMICAL GLASS ANCHOR

CS PLUS



INSTALLATION



- 1) Drill to the correct diameter and depth (see data table).
- 2) to 4) Clean the hole with compressed air, a brush and compressed air. Each step a minimum of three times.
- 5) Before the installation, control the viscosity of the resin that must be liquid at a lukewarm temperature. Never use damaged tube.
- 6) Put the tube in the cleaned hole.
- 7) Use only adapted threaded rods (beveled and with hexagonal drive) and clean (free of oil, grease or rust). If necessary, mark the threaded rod with a landmark for anchor depth.

Insert the rotating threaded rod into the tube with a hammer drill (250-500 rpm). Glass residue of the bulb will be crushed and mixed with the resin during the process.

Stop the machine as soon as the rod has touched the bottom of the hole. If the installation is over extended, chemical components will spill out of the hole.

Never use a hammer to push the threaded rod in to the hole.
- 8) The setting is correct when landmark is the same as the edge of the hole. The space around the rod must be entirely filled.

Do not move or load the rod before the curing time has passed. Depending on the concrete humidity, curing time can be longer.

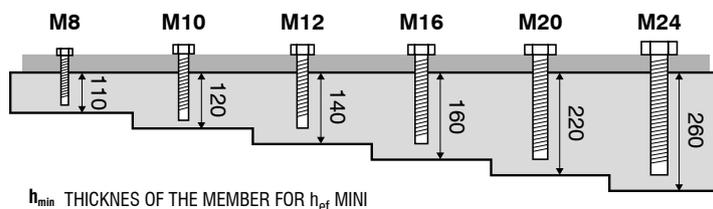
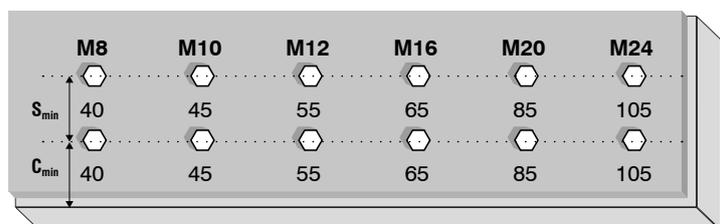
Torque values Tinst must be respected (in the data table).

CURING TIME

CONCRETE TEMPERATURE		≥ -5°C	≥ +5°C	≥+20°C	≥+30°C
DRY CONCRETE		5h	1h	20min	10min
WET CONCRETE		10h	2h	40min	20min

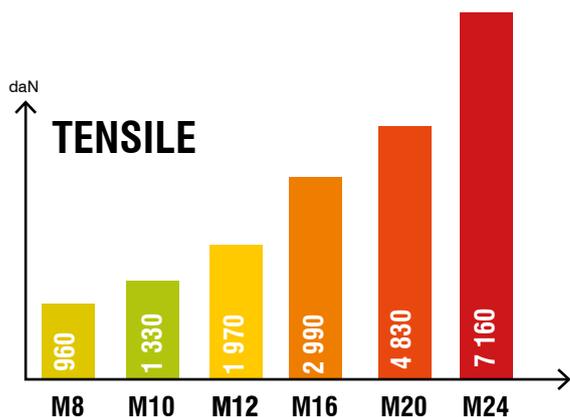
DIMENSIONS & IMPLEMENTATION DATAS

Threaded rod	Vial dimension		Drill size			Reference
	\emptyset	length	\emptyset drill	h_1 drill depth	t_{inst}	Vial only (carton box)
\emptyset	mm	mm	mm	mm	N.m	
M8	9	80	10	80	10	CSP08
M10	11	80	12	90	20	CSP10
M12	13	95	14	110	40	CSP12
M16	17	95	18	125	80	CSP16
M20	17	160	22	170	120	CSP20
M24	22	175	26	210	150	CSP24



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 $\alpha_f = 1.4$ are applied.
- Values are given for standard anchor depths, in C20/25 wet or dry concrete, for 1 temperature range (24°C/40°C) with 5.8 zinc plated steel threaded rod.



ADDITIONAL DATAS

THREADED ROD WITH HEXAGONAL DRIVE



\emptyset	L	\emptyset	STEEL	STAINLESS STEEL
			reference	reference
M8	110	10	M08110	A4-M08110
	130	12	M10130	A4-M10130
M10	165	12	M10165*	-
	190	12	M10190*	-
M12	160	14	M12160	A4-M12160
	300	14	M12300*	-
M14	170	16	M14170	A4-M14170
	165	18	M16165	A4-M16165
M16	190	18	M16190	A4-M16190
	230	18	M16230	A4-M16230
	300	18	M16300*	-
M20	260	22	M20260	A4-M20260
	300	22	M20300*	-
M24	300	26	M24300	A4-M24300
	380	32	M30380*	-

* on request