

THROUGHBOLT ANCHOR - STAINLESS STEEL A4 ETA OPTION 1

A4-BZZ

European
Technical
Assesment
0679 - CPR - 1027
ETA - 14/0081
ETAG 00/1 et 2
Option1



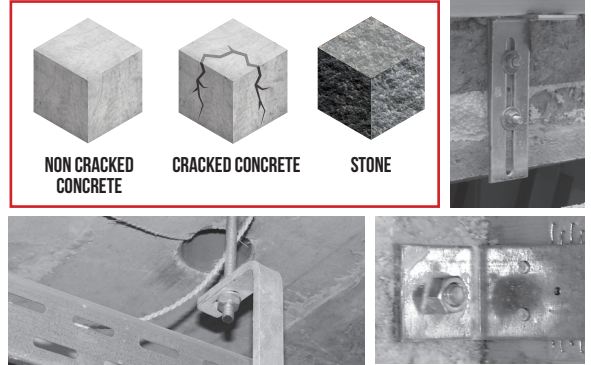
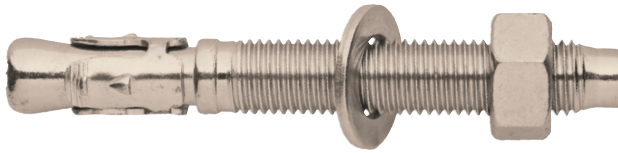
RESISTANCE UNDER FIRE
FB120



Anchor design
software



Stainless steel
version



FEATURES

Material :

Stainless stell A4 (316 L)

Advantages :

- ETA : Concrete option 1 for cracked and non cracked concrete
- easy and fast installation through the fixture
- Pre-assembled nut and washer
- Low minimum edge spacing, distance and material thickness
- Fire resistant (FB120)
- Strong resistance to corrosion

APPLICATION EXAMPLES

- Railings, steel beams, consoles, cable trays
- Industrial doors and gates
- Tension anchor
- Anchor plates with slotted holes
- Facade sub structures
- Anchoring wooden beams

INSTALLATION

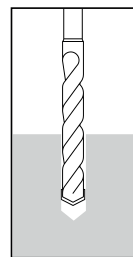
Installation process :

When applying the **torque setting** (T_{inst}) to the **nut** (with ratchet or wrench), the cone at the bottom of the anchor pulls into the **expansion ring**, which causes the segments of the ring to open.

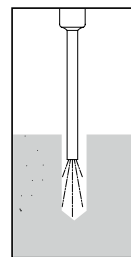
They are then pressed against the wall of the cavity causing adhesion through the support material.

Suitable for pre-positioning and push through application.

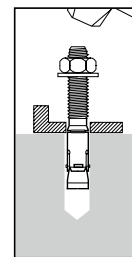
Installation steps :



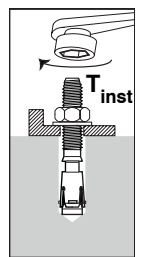
Drill the hole



Remove the dust with a pump

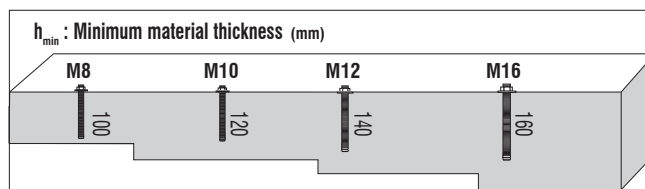
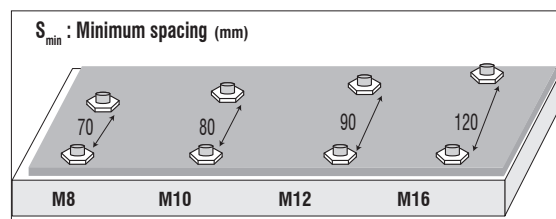
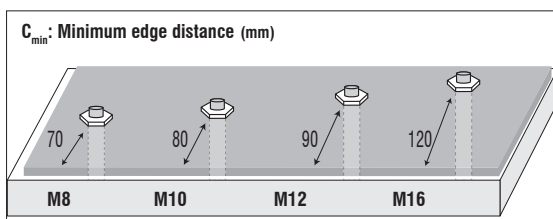


Put the anchor into the hole through the fixture



Apply Torque setting

INSTALLATION DATAS

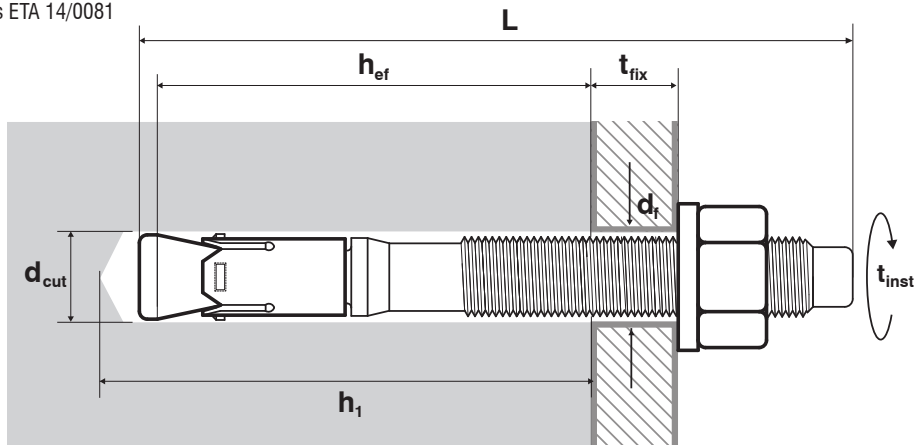


DIMENSIONS & APPLICATION DATAS

\emptyset	L	t _{fix}	h _{ef}	Références
	mm	mm	mm	
M8	65	5	45	A4-BZ2-08x65*
	75	15	45	A4-BZ2-08x75
	100	40	45	A4-BZ2-08x100
	120	60	45	A4-BZ2-08x120
M10	90	10	60	A4-BZ2-10x90
	100	20	60	A4-BZ2-10x100
	120	40	60	A4-BZ2-10x120
	140	60	60	A4-BZ2-10x140
M12	100	5	70	A4-BZ2-12x100*
	120	25	70	A4-BZ2-12x120
	140	45	70	A4-BZ2-12x140
M16	125	15	85	A4-BZ2-16x125*
	145	35	85	A4-BZ2-16x145*

		M8	M10	M12	M16*
Anchor length (mm)	h _{ef}	45	60	70	85
\emptyset Drill size	d _{cut}	8	10	12	16
Min. drill depth	h ₁	60	75	85	100
\emptyset clearance hole in the fixture	d _f	9	12	14	18
Wrench size/socket size	S _w	13	17	19	24
Torque setting (N.m)	T _{inst}	20	45	60	130

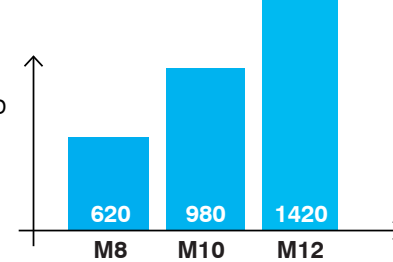
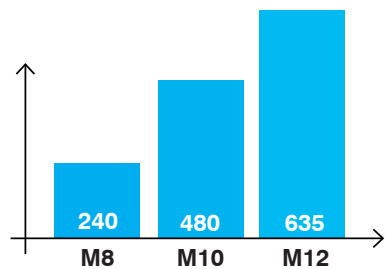
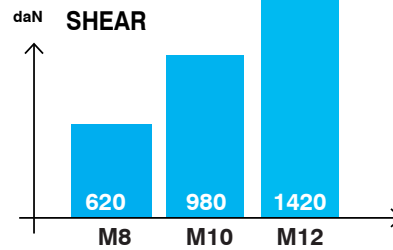
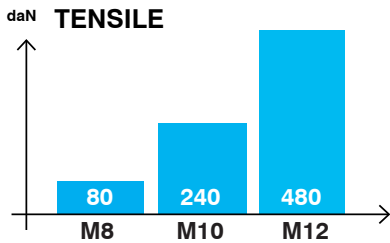
*Overall dimensions ETA 14/0081



\emptyset : Thread diameter
 L : Total length
 T_{fix} : Maximum thickness of the fixture

RECOMMENDED LOADS

Loads are calculated from published characteristic values in the ETA on which partial safety factors from the ETAG001 and a partial coefficient action $\gamma_f = 1.4$ are applied. Values are given for standard anchor depth for non-cracked concrete C20 / 25.



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