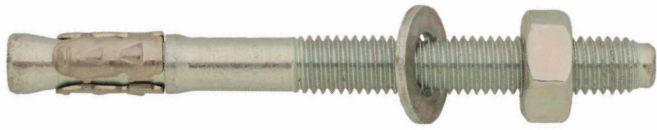


THROUGHBOLT ANCHOR

ETA OPTION1 - SEISMIC CATEGORIES C1 / C2

BZ-S



FEATURES

Material :
Steel Zinc plated
(Also available in A4 Stainless)

- Advantages :**
- Certified to use in seismic areas categories C1 (M8 to M16) and C2 (M10 to M16)
 - Fast and easy installation through the fixture
 - Pre-assembled nut and washer
 - Gives support to close edge spacing, minimum thickness
 - Reduced Anchor length

APPLICATION EXAMPLES

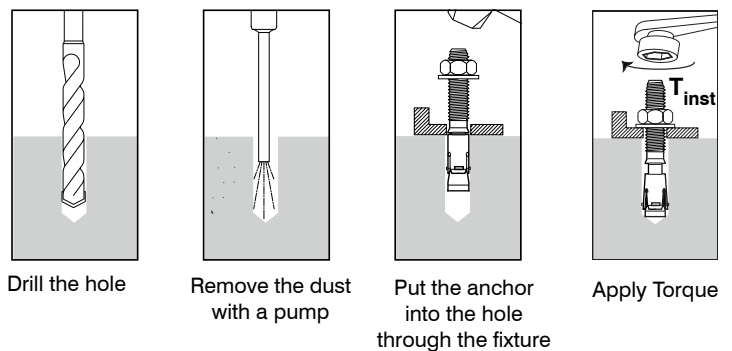
- For fixing metal profiles, railings, beams steel cladding brackets, industrial racking, consoles, cable trays...
- Industrial doors and gates
- Facades

INSTALLATION

Installation process :

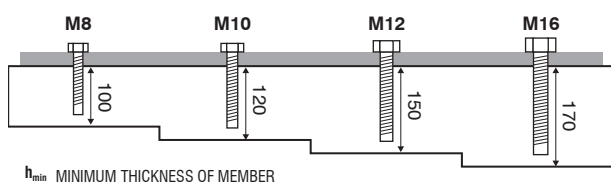
When applying the **torque setting (T_{inst})** to the **nut** (with ratchet or wrench), the cone at the bottom of the anchor pulls into the **expansion ring**, which causes the segments of the ring to open. They are then pressed against the wall of the cavity causing adhesion through the support material.

Installation instructions :



INSTALLATION DATAS

	M8	M10	M12	M16	
S_{min}	50	60	70	85	MINIMUM SPACING
C_{min}	50	60	70	80	MINIMUM EDGE DISTANCE



DIMENSIONS & APPLICATION DATAS

Ø	L	t _{fix}	L _f	Reference
mm	mm	mm	mm	
M8	68	4	30	BZ-S-08X068 ⁽¹⁾
	75	10	30	BZ-S-08X075 ⁽¹⁾
	90	25	40	BZ-S-08X090 ⁽¹⁾
	115	50	60	BZ-S-08X115 ⁽¹⁾
M10	90	10	40	BZ-S-10X090 ⁽²⁾
	105	25	55	BZ-S-10X105 ⁽²⁾
	115	35	55	BZ-S-10X115 ⁽²⁾
	135	55	85	BZ-S-10X135 ⁽²⁾
M12	110	10	65	BZ-S-12X110 ⁽²⁾
	120	20	65	BZ-S-12X120 ⁽²⁾
	145	45	85	BZ-S-12X145 ⁽²⁾
M16	130	10	65	BZ-S-16X130 ⁽²⁾
	150	30	85	BZ-S-16X150 ⁽²⁾
	185	60	85	BZ-S-16X185 ⁽²⁾

⁽¹⁾ Sismic approval C1

⁽²⁾ Sismic approval C1 / C2

Installation datas

		M8	M10	M12	M16
Anchor depth	h_{ef}	48	60	72	86
Ø drill size	d_{cut}	8	10	12	16
Drill depth	h_1	70	80	100	115
Ø Maximum hole in the fixture	d_f	9	12	14	18
Socket/wrench size	Sw	13	17	19	24
Torque setting	T_{inst}	20	40	60	120

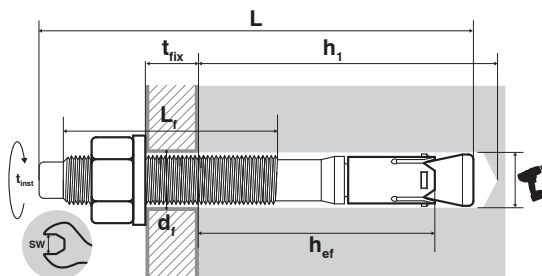
Ø: Thread diameter

t_{fix} : Maximum fixture thickness

h_{ef} : Effective anchor depth

L: Total Length

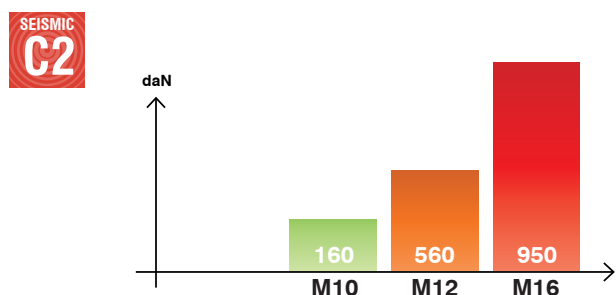
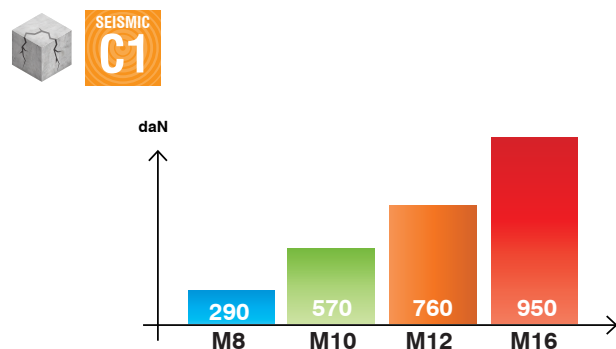
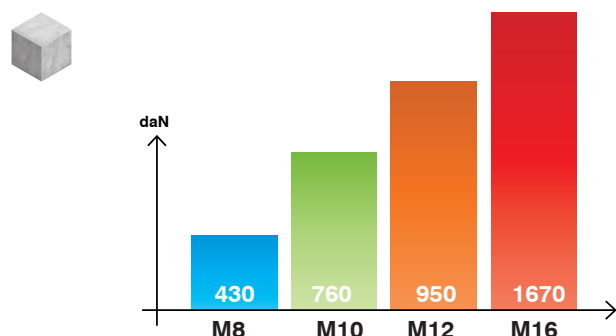
L_f : Thread length



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.

TENSILE



SHEAR

