

**THROUGHBOLT ANCHOR - STAINLESS STEEL A4**  
ETA OPTION1 - SEISMIC CATEGORIES C1 / C2

**A4-BZ-S**



**FEATURES**

**Material :**  
Stainless steel A4

**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**

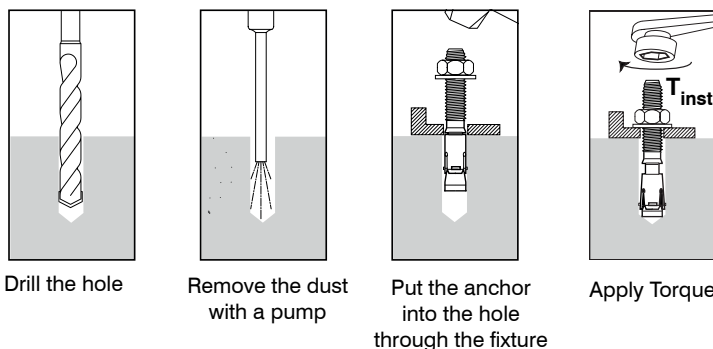
- For fixing metal profiles, railings, beams steel cladding brackets, industrial racking, consoles, cable trays...
- Industrial doors and gates
- Facades

**INSTALLATION**

**Installation process :**

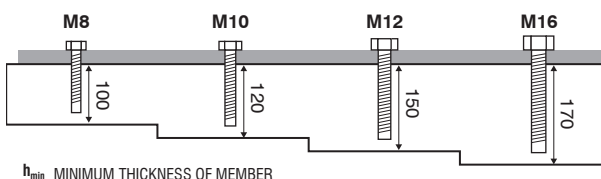
When applying the **torque setting ( $T_{inst}$ )** to the **nut** (with ratchet or wrench), the cone at the bottom of the anchor pulls into the **expansion ring**, which causes the segments of the ring to open. They are then pressed against the wall of the cavity causing adhesion through the support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

$\emptyset$	L	t <sub>fix</sub>	L <sub>f</sub>	Reference
mm	mm	mm	mm	
<b>M8</b>	68	4	30	A4-BZ-S-08X068 <sup>(1)</sup>
	75	10	30	A4-BZ-S-08X075 <sup>(1)</sup>
	90	25	40	A4-BZ-S-08X090 <sup>(1)</sup>
	115	50	60	A4-BZ-S-08X115 <sup>(1)</sup>
<b>M10</b>	90	10	40	A4-BZ-S-10X090 <sup>(2)</sup>
	105	25	55	A4-BZ-S-10X105 <sup>(2)</sup>
	115	35	55	A4-BZ-S-10X115 <sup>(2)</sup>
	135	55	85	A4-BZ-S-10X135 <sup>(2)</sup>
<b>M12</b>	110	10	65	A4-BZ-S-12X110 <sup>(2)</sup>
	120	20	65	A4-BZ-S-12X120 <sup>(2)</sup>
	145	45	85	A4-BZ-S-12X145 <sup>(2)</sup>
<b>M16</b>	130	10	65	A4-BZ-S-16X130 <sup>(2)</sup>
	150	30	85	A4-BZ-S-16X150 <sup>(2)</sup>
	185	60	85	A4-BZ-S-16X185 <sup>(2)</sup>

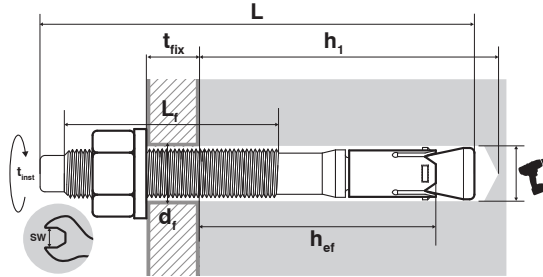
<sup>(1)</sup> Seismic approval C1

<sup>(2)</sup> Seismic approval C1 / C2

## Installation datas

		M8	M10	M12	M16
Anchor depth	h <sub>ef</sub>	48	60	72	86
Ø drill size	d <sub>cut</sub>	8	10	12	16
Drill depth	h <sub>1</sub>	70	80	100	115
Ø Maximum hole in the fixture	d <sub>f</sub>	9	12	14	18
Socket/wrench size	Sw	13	17	19	24
Torque setting	T <sub>inst</sub>	20	40	60	120

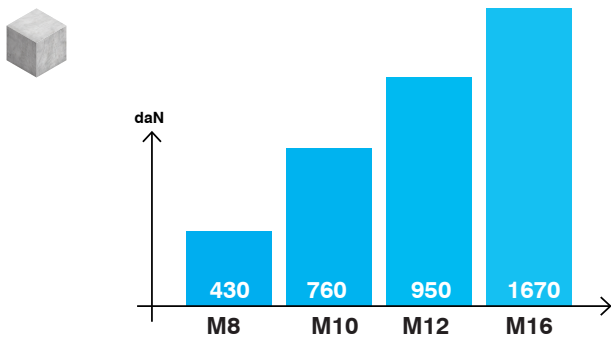
$\emptyset$ : Thread diameter      t<sub>ex</sub>: Maximum fixture thickness      h<sub>ef</sub>: Effective anchor depth  
 L: Total Length      L<sub>f</sub>: Thread length



# 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

