ETA Socket Bolt

INFORMATION

The ETA SocketBolt is a zinc plated self tapping concrete screw for use in a variety of base materials and structures.

The product is suitable for application in dry internal conditions.

The undercutting action provides a positive anchorage with no expansion forces.

The head of the anchor is internally threaded which make it suitable for hanging M8 or M10 threaded rods.

The dual-threaded version enables the use of M8 or M10 thread rods with just one socket needed.

Anchor Calculator Software can be used for detailed verifications based on EN 1992-4 or EOTA guidelines.

BASE MATERIAL

- Concrete C20/25 to C50/60
- Cracked/Non-Cracked Concrete
- Hollow Concrete Planks
- Solid Brickwork
- Concrete Block
- Natural Stone

FEATURES

- Undercutting Action
- Fast And Secure Installation
- Expansion Free
- Through Fixing
- Removable
- Adjustable
- Zinc Plated
- Reaction To Fire Class A1
- Fire Resistant Loading

APPROVALS

European Technical Assessment

ETA-25/0816
Multiple Use Non-Structural Applications

SOFTWARE

Click here to download the software

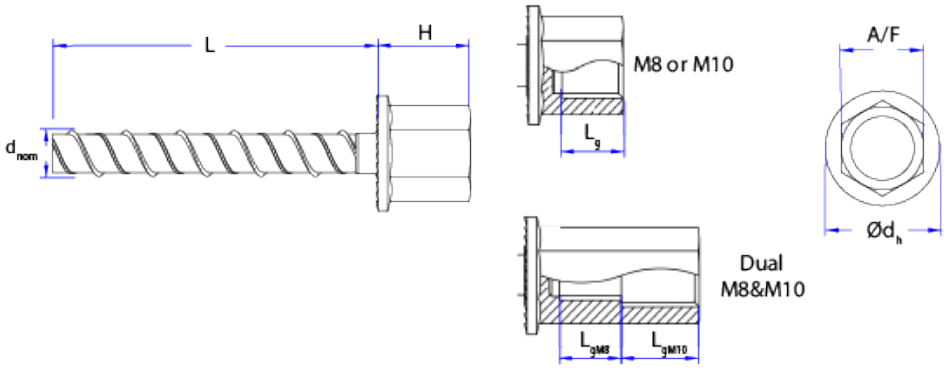
RELATED PRODUCTS

SDS+ Drill Bits

Hole Cleaning Pump

BOP1

RANGE DATA



RANGE DATA								
Part Number	Drill Hole Diameter	Size of Thread	Anchor Length	Internal Thread Diameter	Internal Thread length	Head Height	Head Diameter	Width Across Flats
	d_0	d_{nom}	L	-	L_g	H	Ød_h	A/F
	mm	mm	mm	-	mm	mm	mm	mm
JAB06/08035M08	6	8	35	M8	7	14	18	13
JAB06/08035M10			35	M10	9			
JAB06/08055M10			55	M10	9			
JAB06/08055M08/10			55	M8 / M10	7 / 9	27		

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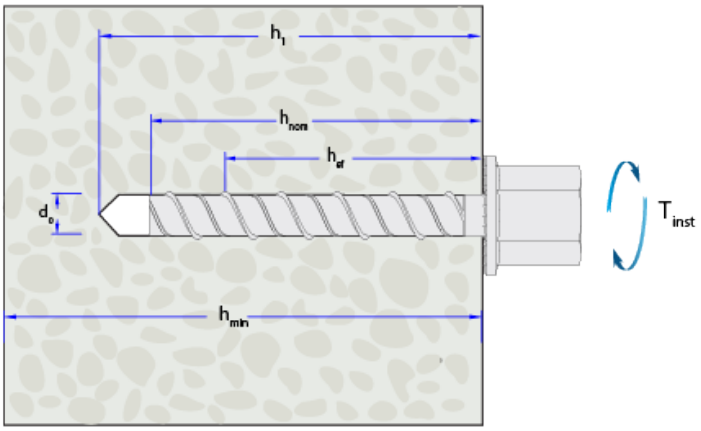
INSTALLATION INTO CONCRETE

Refer to the ETA approvals available on the JCP website for complete installation instructions and parameters, including options with or without cleaning or fixture thickness adjustment.



Installation Parameters in Concrete							
Part Number	Drill Hole Diameter	Min Hole Depth	Embedment Depth	Maximum Impact Driver Torque	Tightening Torque	Minimum Spacing	Minimum Edge Distance
	d_0	h_1	h_{nom}	$T_{imp,max}$	T_{inst}	s_{min}	c_{min}
	mm	mm	mm	Nm	Nm	mm	mm
JAB06/08035M08	6	45	35	250	10	80	40
JAB06/08035M10							
JAB06/08055M10		65	55			110	55
JAB06/08055M08/10							

PERFORMANCE DATA FOR SOLID CONCRETE (NON STRUCTURAL APPLICATIONS)

Performance Data* (C20/25 to C50/60 Cracked and Uncracked Concrete)								
Drill Hole Diameter	Embedment Depth	Minimum Concrete Thickness	Characteristic Resistance		Design Resistance		Recommended Resistance	
d_0	h_{nom}	h_{min}	Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile(N_{Rrec})	Shear (V_{Rrec})
mm	mm	mm	kN	kN	kN	kN	kN	kN
6	35	80	1	1	0.55	0.55	0.39	0.39
	55	80	4	4	2.2	2.2	1.5	1.5

* Important notes:

- Fasteners subject to static and quasi-static loads.
- Performance data stated for a single anchor, without the effect of spacing and edge distances. The influence of these parameters must be verified where applicable.
- Minimum concrete thickness, hole diameter, and embedment depth shall correspond to the dimensions stated in this document.
- Drill holes produced using rotary hammer drilling, unless otherwise noted.
- Installation carried out strictly in accordance with the product's Installation Instructions and performed by a trained operator.
- Characteristic and design resistances derived from JCP internal technical data.
- Design resistances are calculated from characteristic values using the appropriate partial safety factors corresponding to the decisive failure mode.
- The Recommended Resistance is calculated using an additional safety factor (γ_{Add}) equal to 1.4.
- Performance data is valid for shear loading without a lever arm; installations involving a lever arm require additional verifications.
- Performance data is not valid for combined tensile and shear loading; where combined loading occurs, further checks shall be performed.
- When concrete-related strength factors are applied, ensure that the resulting resistance value does not exceed the steel design resistance.
- For project-specific assessments or conditions not explicitly covered, download the JCP Anchor Calculation Program.

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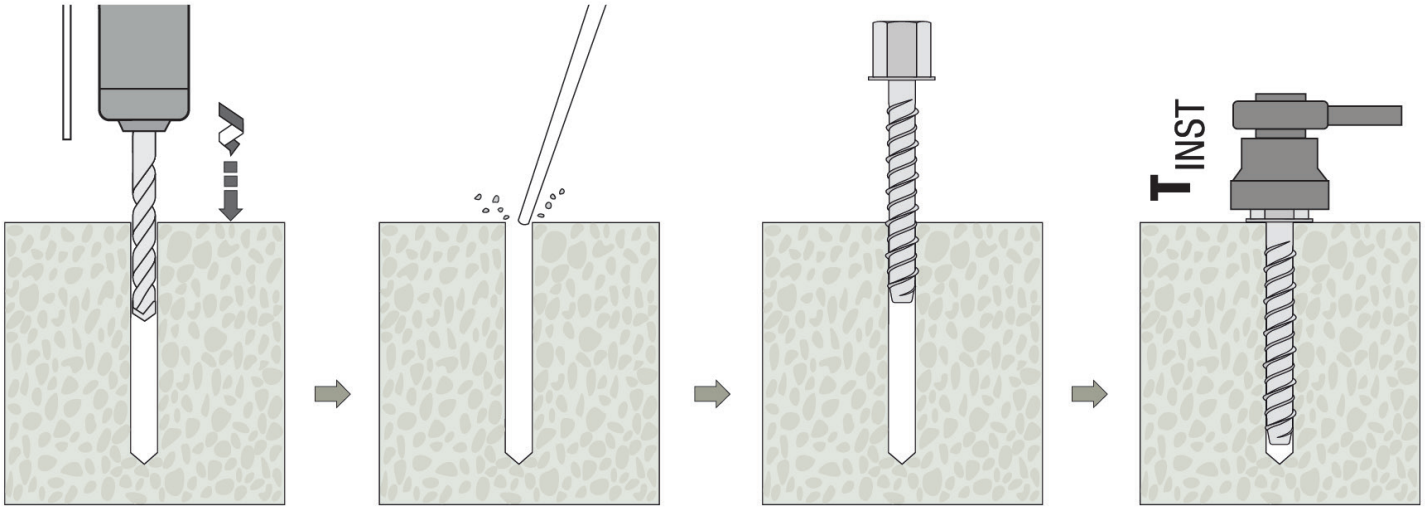
INSTALLATION INSTRUCTIONS INTO SOLID CONCRETE

Click on the QR code or scan it to watch the video



-Drill correct diameter hole to corresponding depth by using the rotary hammer drilling mode

-Clean hole by blowing three times to remove drilling debris and dust

-Insert anchor into concrete using electrical impact driver Bosch GD18E or Makita 6905H. Other suitable impact driver with equivalent force and performance may be used.

-Tighten with torque wrench to recommended value. Ensure the head of anchors to be in contact with surface of concrete and undamaged. Further turning of anchors must not be possible

FIRE RESISTANCE DATA

Fire Resistance Data (C20/25 to C50/60 cracked or non-cracked concrete) *										
Drill Hole Diameter	Embedment Depth	Minimum Concrete Thickness	Design Resistance				Recommended Resistance			
d_0	h_{nom}	h_{min}	Tensile ($N_{Rd,fi}$) or Shear ($V_{Rd,fi}$) (kN)**				Tensile ($N_{Ra,fi}$) or Shear ($V_{Ra,fi}$) (kN)			
mm	mm	mm	30min (R30)	60min (R60)	90min (R90)	120min (R120)	30min (R30)	60min (R60)	90min (R90)	120min (R120)
6	55	80	0.22	0.20	0.16	0.11	0.15	0.14	0.11	0.07

* The determination covers anchors with a fire attack from one side only. If the fire attack is from more than one side, the design method may be taken only, if the edge distance of the anchor is c ≥ 300 mm and ≥ 2 h_{ef}.

** For combined loads, use Anchor Calculation Program.

Technical Data Sheet

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INSTALLATION INTO HOLLOW CONCRETE PLANKS

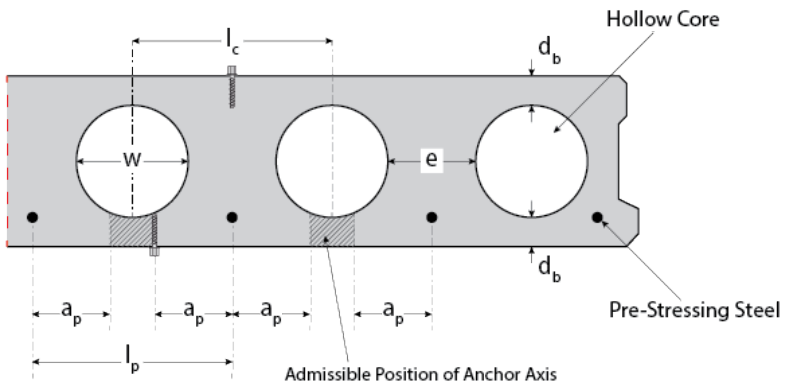
Refer to ETA approvals available on website for more complete installation instruction and parameters with or without cleaning or with fixture thickness adjustment.

Core width w≤180

Core distance $l_c \geq 210$

Pre-stressing steel distance $l_p \geq 210$

Distance between anchor position and pre-stressing steel $a_p \geq 50$



Installation Parameters in Hollow Concrete Planks							
Part Number	Drill Hole Diameter	Min Hole Depth	Embedment Depth	Impact Driver Maximum Torque	Tightening Torque	Minimum Spacing	Minimum Edge Distance
	d_0	h_1	h_{nom}	$T_{imp,max}$	T_{inst}	s_{min}	c_{min}
	mm	mm	mm	Nm	Nm	mm	mm
JAB06/08035M08	6	45	35	250	10	80	40
JAB06/08035M10							
JAB06/08055M10		65	55				
JAB06/08055M08/10							

PERFORMANCE DATA FOR HOLLOW CONCRETE PLANKS (NON STRUCTURAL APPLICATIONS)

Performance Data (C40/50 to C50/60 Hollow Concrete Planks)								
Drill Hole Diameter	Embedment Depth	Minimum Concrete Thickness	Characteristic Resistance		Design Resistance		Recommended Resistance	
d_0	h_{nom}	d_b	Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile(N_{Rrec})	Shear (V_{Rrec})
mm	mm	mm	kN	kN	kN	kN	kN	kN
6	≥ 35	≥ 35	4.5	4.5	2.5	2.5	1.7	1.7

IMPORTANT NOTES

- Data given for the performance of the anchors are for Static and quasi static loading.
- Data given for performance of anchors are valid for a single anchor by having the spacing and edge distance of higher than what is reported in the performance data tables.
- Design resistance are calculated from characteristic resistance by application of corresponding partial safety factor.
- Recommended loads are calculated from design resistance with overall partial safety factor for installation errors considering γ = 1,4.
- Data given for performance of anchors are not valid if tensile and shear load are acting together. In case of combination of tensile and shear loads, the verification shall be performed based on the guidelines or by using anchor calculation .
- Performance data is given for correct setting of products by a trained operator following the installation procedure and hole drilling by hammer drill mode.
- Data given is valid for shear loading with no lever arm. Please refer to ETA approvals or use Anchor calculation software for installations with lever arm.
- Refer to ETA approvals available on website for complete installation instruction and parameters with or without cleaning.

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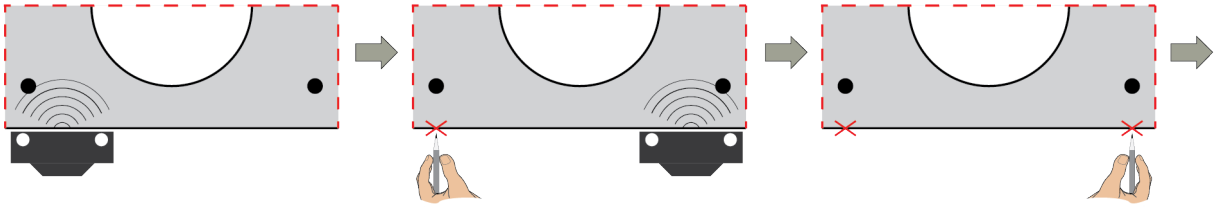
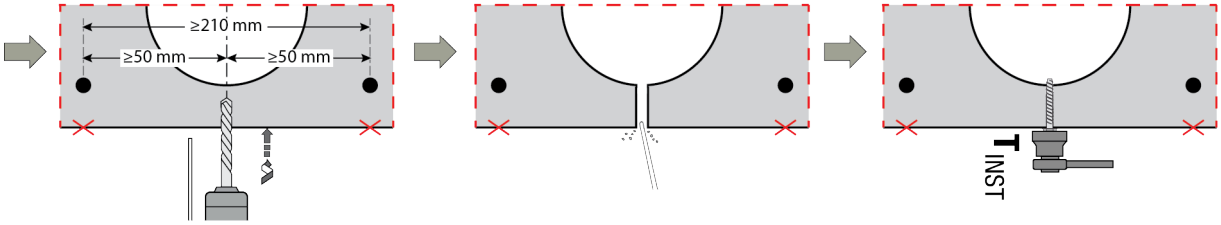
INSTALLATION INSTRUCTIONS INTO HOLLOW CONCRETE PLANKS



-Search for the position of the reinforcement

-Mark the position of the reinforcement and Search for the other position of the reinforcement

-Mark the position of the reinforcement



-Drill correct diameter hole to corresponding depth while maintaining the required distances

-Clean hole by blowing to remove drilling debris and dust

-Insert anchor through fixture into concrete using electrical impact driver Bosch GD18E or Makita 6905H. Other suitable impact driver with equivalent force and performance may be used. Ensure the head of anchors to be in contact with the fixture and undamaged. Further turning of anchors must not be possible.

Click here to download the software

For variations in structure thickness, reduced spacing and edge calculations download the free **A**nchor **C**alculation **P**rogram from www.jcpfixings.co.uk

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