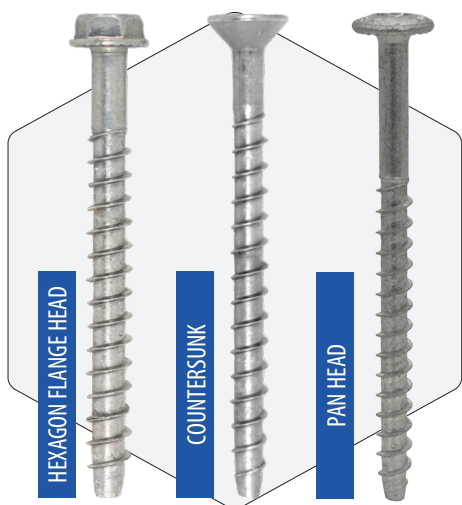




INFORMATION

The Ankerbolt A4 stainless steel is a self tapping anchor for use in a variety of base materials. It is designed for multiple use for non-structural applications and It is suitable for dry internal conditions as well as the anchorages subject to external atmospheric exposure including industrial and marine environment.

The undercutting action provides a positive anchorage with no expansion forces. The hardened tip cuts through hard base materials without shearing or snapping, while the stainless threads hold the load. The wide range of types and sizes gives flexibility of choosing the correct anchor according to the fixture thickness.

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
- A4 stainless steel with hardened steel tip
- Reaction To Fire Class A1
- Fire Resistant Loadings

APPROVALS

European Technical Assessment



ETA-20/0727



SOFTWARE



[Click here to download the software](#)

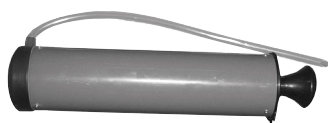
RELATED PRODUCTS



SDS+ Drill Bits



Torx Driver Bits
(For Countersunk and Pan head)



Hole Cleaning Pump

BOP1



ETA Option 1
Hexagon Head
Ankerbolt BZP



ETA Option 1
Hexagon Flang Head
Ankerbolt BZP



ETA Socketbolt BZP



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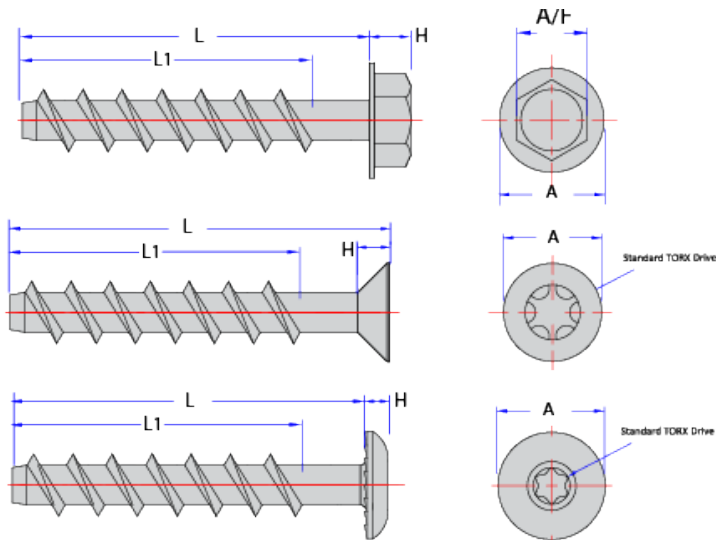


jcpenquiries@owlett-jaton.com
www.jcpfixings.co.uk





RANGE DATA



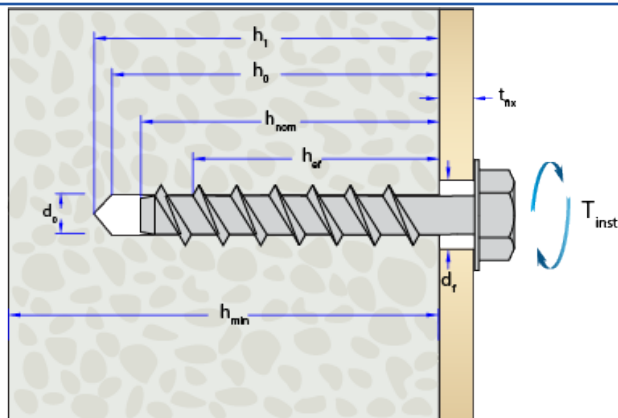
RANGE DATA

Part Number	Drill Hole Diameter	Thread Diameter	Anchor Length	Thread Length	Width Across Flats	Head Height	Head diameter	Driver Size
	(d _v)	(d _{nom})	(L)	(L1)	(A/F)	(H)	(A)	-
	mm	mm	mm	mm	mm	mm	mm	-
HEXAGON FLANGE HEAD								
JAB06/08050SS	6	8	50	45	10	6	13	N/A
JAB06/08075SS			75	70				
JAB06/08100SS			100	70				
JAB08/10060SS	8	10	60	55	13	7.5	17	N/A
JAB08/10075SS			75	65				
JAB08/10100SS			100	85				
JAB10/12075SS	10	12	75	70	17	9.5	22	N/A
JAB10/12100SS			100	75				
JAB10/12135SS			135	100				
JAB10/12150SS			150	100				
JAB12/14100SS	12	14	100	75	19	11	25	N/A
COUNTERSUNK								
JAB06/08050CSSS	6	8	50	Full	N/A	6	15.5	T40
JAB06/08075CSSS			75	55				
JAB06/08100CSSS			100	70				
JAB08/10050CSSS	8	10	50	Full	N/A	7	18	T45
JAB08/10060CSSS			60	Full				
JAB08/10075CSSS			75	65				
JAB08/10100CSSS			100	85				
PAN HEAD								
JAB06/08050PHSS	6	8	50	45	N/A	3.5	16.5	T40
JAB06/08075PHSS			75	55				
JAB06/08100PHSS			100	70				





INSTALLATION INTO CONCRETE



Installation Parameters

Part Number	Drill Hole Diameter	Fixture Clearance Hole	Reduced Embedment				Standard Embedment				Impact Driver Maximum Torque	Tightening Torque	Minimum Spacing	Minimum Edge Distance
			Red. Max Fixture Thickness	Red. Min Hole Depth	Red. Embedment Depth	Red. Min Structure Thickness	Max Fixture Thickness	Min Hole Depth	Embedment Depth	Min Structure Thickness				
			($t_{fix,red}$)	($h_{1,red}$)	($h_{nom,red}$)	($h_{c,red}$)	(t_x)	(h_1)	(h_{nom})	(h_c)				
	(d_0)	(d_1)	mm	mm	mm	mm	mm	mm	mm	mm	($T_{imp,max}$)	(T_{inst})	(s_{min})	(c_{min})
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	Nm	mm	mm

HEXAGON FLANGE HEAD

JAB06/08050SS	6	9	5	55	45	90	N/A	N/A	N/A	N/A	120	-	40	40
JAB06/08075SS			30				5	80	70	110				
JAB06/08100SS			55				30							
JAB08/10060SS	8	11	8	65	52	100	N/A	N/A	N/A	N/A	120	31	55	55
JAB08/10075SS			23				N/A	N/A	N/A	N/A				
JAB08/10100SS			48				15	95	85	125				
JAB10/12075SS	10	13	5	85	75	125	N/A	N/A	N/A	N/A	185	-	60	60
JAB10/12100SS			25				N/A	N/A	N/A	N/A				
JAB10/12135SS			60				35	110	100	140				
JAB10/12150SS			75				50	110	100	140				
JAB12/14100SS	12	15	25	85	75	125	N/A	N/A	N/A	N/A	185	-	70	70

COUNTERSUNK

JAB06/08050CSSS	6	9	5	55	45	90	N/A	N/A	N/A	N/A	80	-	40	40
JAB06/08075CSSS			20				N/A	N/A	N/A	N/A				
JAB06/08100CSSS			45				30	80	70	110				
JAB08/10050CSSS	8	11	5	55	45	90	N/A	N/A	N/A	N/A	120	-	55	55
JAB08/10060CSSS			15				N/A	N/A	N/A	N/A				
JAB08/10075CSSS			20				N/A	N/A	N/A	N/A				
JAB08/10100CSSS			45				15	95	85	125				

PAN HEAD

JAB06/08050PHSS	6	9	5	55	45	90	N/A	N/A	N/A	N/A	80	-	40	40
JAB06/08075PHSS			30				N/A	N/A	N/A	N/A				
JAB06/08100PHSS			55				30	80	70	110				

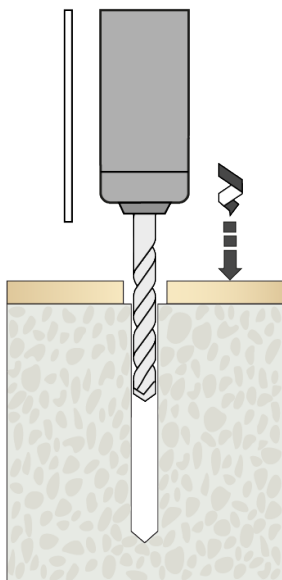
* The **Bold-Italic** figures are included in ETA.



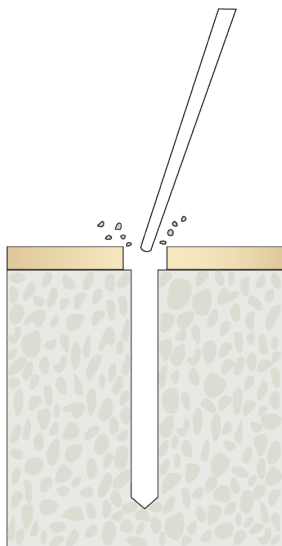


INSTALLATION INSTRUCTIONS

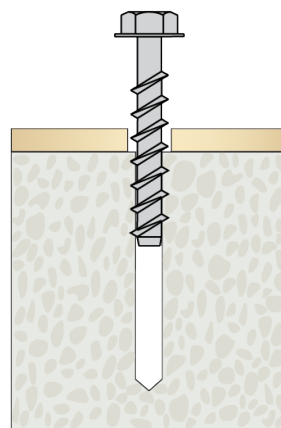
Click on the QR
code or scan it to
watch the video



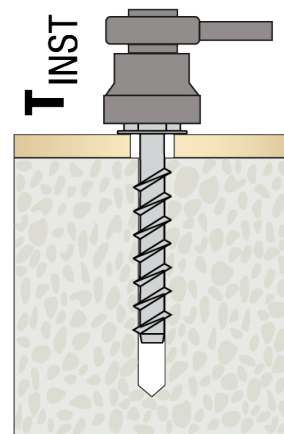
-Position fixture and drill
correct diameter hole to
corresponding depth by
using the rotary hammer
drilling mode



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



-Insert anchor 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.
Tighten with torque
wrench to recommended
value.





PERFORMANCE DATA (CRACKED and NON-CRACKED CONCRETE)

Performance Data (Cracked and Non-Cracked C20/25 concrete) Reduced Embedment

Drill Diam (d _o)	Overall Embedment Depth (h _{nom})	Minimum Concrete Thickness (h _{min})	Characteristic Resistance		Design Resistance		Recommended Resistance	
			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
HEXAGON FLANGE HEAD								
6	45	90	1.8	3	1.2	2	0.8	1.4
8	52	100	2.0	3.6	1.3	2.4	0.9	1.7
10	75	125	3.5	8.1	2.3	5.3	1.6	3.8
12	75	125	4.1	8	2.7	5.3	1.9	3.8
COUNTERSUNK								
6	45	90	1.6	3	1.0	2	0.7	1.4
8	45	90	1.7	3.3	1.1	3.0	0.7	2.1
PAN HEAD								
6	45	90	1.6	3	1.0	2	0.7	1.4

* The **Bold-Italic** figures are included in ETA.

Performance Data (Cracked and Non-Cracked C20/25 concrete) Standard Embedment

Drill Diam (d _o)	Overall Embedment Depth (h _{nom})	Minimum Concrete Thickness (h _{min})	Characteristic Resistance		Design Resistance		Recommended Resistance	
			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
HEXAGON FLANGE HEAD								
6	70	110	5.0	9.7	3.3	6.5	2.3	4.6
8	85	125	4.5	12.8	2.1	8.5	1.5	6
10	100	140	7.0	15.4	4.6	10.3	3.2	7.3
COUNTERSUNK								
6	70	110	3.5	6.1	2.3	4.8	1.6	3.4
8	85	125	4.5	12.8	2.1	8.5	1.5	6
PAN HEAD								
6	70	110	2.5	6.1	1.6	4.8	1.1	3.4

* The **Bold-Italic** figures are included in ETA.

* 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.
- Concrete strength class C20/25 is assumed.
- 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.





SUPPLEMENTARY DATA

Influence Of Concrete Strength					
Concrete strength		C20/25	C30/37	C40/50	C50/60
Cylinder	N/mm ²	20	30	40	50
Cube	N/mm ²	25	37	50	60
Factor		1.0	1.20	1.37	1.51

Important Note:

When using concrete factors ensure that loads do not exceed Steel Design Resistance.

Steel Failure						
Drill Diam (d _o) mm	Tensile Resistance			Shear Resistance		
	Characteristic Resistance (N _{Rk,s}) kN	Design Resistance (N _{Rd,s}) kN	Recommended Resistance (N _{Rec,s}) kN	Characteristic Resistance (V _{Rk,s}) kN	Design Resistance (V _{Rd,s}) kN	Recommended Resistance (V _{Rec,s}) kN
HEXAGON FLANGE HEAD						
6	18.1	12.1	8.6	9.0	7.2	5.1
8	33.0	22.0	15.7	13.2	10.6	7.5
10	53.7	35.8	25.6	26.8	21.4	15.3
12	78.1	52.1	37.2	39.0	31.2	22.3
COUNTERSUNK						
6	12.2	8.1	5.8	6.1	4.9	3.5
8	33.0	22.0	15.7	11.2	8.9	6.3
PAN HEAD						
6	12.2	8.1	5.8	6.1	4.9	3.5

FIRE RESISTANCE DATA



Fire Resistance Data									
Drill Diam (d _o) mm	Overall Embed- ment Depth (h _{nom}) mm	Design Resistance				Recommended Resistance			
		Tensile (N _{Rd,fi}) or Shear (V _{Rd,fi}) (kN)				Tensile (N _{Rec,fi}) or Shear (V _{Rec,fi}) (kN)			
mm	mm	30min (R30)	60min (R60)	90min (R90)	120min (R120)	30min (R30)	60min (R60)	90min (R90)	120min (R120)
6	70	0.23	0.20	0.16	0.11	0.16	0.14	0.11	0.07
8	52	0.50	0.50	0.50	0.40	0.35	0.35	0.35	0.28
10	100	1.70	1.30	1.00	0.90	1.21	0.92	0.71	0.64

*The **Bold-Italic** figures are included in ETA.

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_{min} ≥ 300 mm.



For variations in structure thickness, reduced spacing and edge calculations download the free **Anchor Calculation Program** from www.jcpfixings.co.uk

