

Lengths, material and fixture guide



JC2-KB	Size	t _{fix}	ETA
6	6x35 SW13	1	•
	6x45 SW13	5/10	•
	6x50 SW13	10/15	•
	6x60 SW13	5/20	••
	6x70 SW13	15/30	••
	6x80 SW13	25/40	••
	6x100 SW13	45/60	••
	6x120 SW13*	65/80	••
	6x140 SW13	85/100	••

Order Example: JC2-KB-6 x 80 SW13

Zinc plated or zinc alloy coating

*Zinc plated only



JC2-FR	Size	t _{fix}	ETA
6	6x35 (L)	1	•**
	6x45	5	•
	6x45 (L)	5	•
	6x60	5/20	••

Order Example: JC2-FR-6 x 45 (L)

Zinc plated, L = Low pan head



JC2-ST	Size	t _{fix}	ETA
6	6x45*	5/10	•
	6x50*	10/15	•
	6x60	5/20	••
	6x80	25/40	••
	6x100	45/60	••
	6x120*	65/80	••

Order Example: JC2-ST-6 x 80

Zinc plated or zinc alloy coating

*Zinc plated only



JC2-IT	Size	ETA
6	6x35 M8/M10x30	•(P)
	6x45 M8/M10x30	•
	6x60 M8/M10x30	••

Order Example: JC2-IT-6 x 45 M8

Zinc plated



JC2-KB Plus	Size	t _{fix}	ETA
8	8x55	5	•
	8x70	5/20	•
	8x80	15/30	•
	8x90	25/40	•
	8x100	35/50	•
	8x120	55/70	•
	8x140	75/90	•
	8x160	95/110	•
10	10x60	5	•
	10x70	15	•
	10x80	25	•
	10x90	5/35	•
	10x100	15/45	•
	10x120	35/65	•
14	10x140	55/85	•
	10x160	75/105	•
	14x75 SW21	10	•
	14x100 SW21	35	•
	14x130 SW21	15/65	•
	14x150 SW21	35/85	•
	14x80 SW24*	15	•
14x110 SW24*	45	•	
14x130 SW24*	15/65	•	

Order Example: JC2-KB Plus 10 x 90

Zinc plated or zinc alloy coating

*Zinc plated only










JC6-KB	Size	t _{fix}	ETA
6	6 x 85/15 SW10	15	•
8	8 x 67/15 SW13	15	••
	8 x 87/35 SW13	35	••
10	10 x 115/15 SW17	15	•
	10 x 125/25 SW17	25	•
	10 x 135/35 SW17	35	•
	10 x 150/50 SW17	50	•
12	12 x 135/15 SW19	15	•
	12 x 150/30 SW19	30	•

Order Example: JC6-KB-10 x 115/15 SW17

A4 stainless steel

• Option 1 Part 6 | • Option 1 | • Part 6 | (P) Pending

Approvals / Certifications / Applications

Description of document		Authority/ Laboratory	ID	Additional info
European Technical Assessment		ZAG -National Building and Civil Engineering Institute, Slovenia	ETA-17/0835 (JC2 6, 8, 10)	EAD 330232-00-0601 Option 1
European Technical Assessment		ZAG -National Building and Civil Engineering Institute, Slovenia	ETA-18/0221 (JC2 6)	Concrete screw of size 6 for multiple use in non-structural applications EAD 330747-00-0601 (Part 6)
European Technical Assessment		ZAG -National Building and Civil Engineering Institute, Slovenia	ETA-21/0020 (JC2 Plus 8, 10, 14)	EAD 330232-00-0601 Option 1
European Technical Assessment		Deutsches Institut für Bautechnik (DIBt)	ETA-21/0351 ETA-21/0352 (JC6-KB)	EAD 330747-00-0601 Option 1 (Part 6) EAD 330232-00-0601 Option 1
Fire Resistance		ZAG -National Building and Civil Engineering Institute, Slovenia Deutsches Institut für Bautechnik (DIBt)	ETA-17/0835 ETA-18/0221 ETA-21/0020 ETA 21/0351 ETA 21/0352	
EJOT Anchor Fix calculation software*		EJOT Software		Free download: www.ejot.co.uk/software-anchorfix

*Anchor fix does not apply to JC6-KB

Additional information

- Load figures include the partial safety factors as per approvals and a partial safety factor on the action of $\gamma_F = 1.4$. Load figures apply for a rebar spacing $s \geq 150\text{mm}$ or alternatively for a rebar spacing $s \geq 100\text{mm}$ in combination with a rebar diameter of $d_s \leq 10\text{mm}$.
- If spacings or edge distances become smaller than the characteristic figures ($s_{cr,N} / c_{cr,N}$) a calculation as per EOTA TR 055 needs to be carried out. For more details, see ETA-17/0835, ETA-18/0221 and ETA-21/0020 for JC2 products. For JC6-KB products please refer to ETA 21/0351 and ETA 21/0352.
- Concrete is considered non-cracked when the value of tension within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3 \text{ N/mm}^2$ can be assumed (σ_L equals the tension within the concrete as a result of external loads, forces on anchor included; σ_R equals the tension coming from shrinkage or creep of the concrete, as well as displacements of supports or temperature variations).
- Shear load figures apply for an anchor without influence of a concrete edge. For shear loads close to an edge ($c \leq 10 \times h_{ef}$), concrete edge failure has to be checked as per EOTA TR 055 or EN 1992-4.

Static and quasi-static loads

Characteristic resistances: JC2 range

			JC2 6: KB / FR / IT / ST			JC2-KB Plus 8		JC2-KB Plus 10		JC2-KB Plus 14	
			PART 6**	PART 6	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	27.6	31.9	42.5	39.2	51.9	42.5	68.0	49.3	91.8
Nominal anchorage depth	h_{nom}	mm	35	40	55	50	65	55	85	65	115
Non-cracked concrete											
Tensile	N_{Rk}	kN	NA	3.0	9.5	12.1	18.4	13.6	27.6	15.0	42.0
Shear	V_{Rk}	kN	NA	6.5	9.8*	19.1*	21.5*	31.8*	35.2*	61.1*	64.9*
Cracked concrete											
Tensile	N_{Rk}	kN	NA	3.0	4.5	6.5	12.0	7.5	19.0	8.5	30.0
Shear	V_{Rk}	kN	NA	6.5	9.5	19.1*	21.5*	28.6	35.2*	39.3	64.9*

*Failure mode = steel; **Pending

Characteristic resistances: JC6-KB range

			JC6 KB 6 A4	JC6 KB 8 A4	JC6 KB 10 A4	JC6 KB 12 A4
			PART 6	PART 6	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	43.1	22.2	58.7	75.6
Nominal anchorage depth	h_{nom}	mm	70.0	52.0	100.0	120.0
Non-cracked concrete						
Tensile	N_{Rk}	kN	5.0	2.0	16.0	25.0
Shear	V_{Rk}	kN	9.0*	5.1	22.1	39.0*
Cracked concrete						
Tensile	N_{Rk}	kN	5.0	2.0	7.0	12.0
Shear	V_{Rk}	kN	9.7	3.6	15.5	45.3

*Failure mode = steel

The data within these tables are based on:

Concrete C20/25, $f_{ck,cube} = 25N/mm^2$

Installation has been done correctly

No influence of edge distances and spacings

Minimum base material thickness is met

Static and quasi-static loads

Design resistances: JC2 range

			JC2 6: KB / FR / IT / ST			JC2 Plus 8		JC2 Plus 10		JC2 Plus 14	
			PART 6**	PART 6	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	27.6	31.9	42.5	39.2	51.9	42.5	68.0	49.3	91.8
Nominal anchorage depth	h_{nom}	mm	35	40	55	50	65	55	85	65	115
Non-cracked concrete											
Tensile	N_{Rd}	kN	NA	2.0	6.3	8.0	12.3	9.1	18.4	100	28.0
Shear	V_{Rd}	kN	NA	4.3	7.8*	15.3*	17.2*	25.4*	28.2*	37.5	51.9*
Cracked concrete											
Tensile	N_{Rd}	kN	NA	2.0	3.0	4.3	8.0	5.0	12.7	5.7	20.0
Shear	V_{Rd}	kN	NA	4.3	6.3	15.3*	17.2*	19.1	28.2*	26.2	51.9*

*Failure mode = steel; **Pending

Design resistances: JC6-KB range

			JC6 KB 6 A4	JC6 KB 8 A4	JC6 KB 10 A4	JC6 KB 12 A4
			PART 6	PART 6	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	43.1	22.2	58.7	75.6
Nominal anchorage depth	h_{nom}	mm	70.0	52.0	100.0	120.0
Non-cracked concrete						
Tensile	N_{Rd}	kN	3.3	1.3	10.7	13.9
Shear	V_{Rd}	kN	7.2*	3.4	14.7	31.2*
Cracked concrete						
Tensile	N_{Rd}	kN	3.3	1.3	4.7	6.7
Shear	V_{Rd}	kN	6.5	2.4	10.3	30.2

*Failure mode = steel

Recommended loads: JC2 range

			JC2 6: KB / FR / IT / ST			JC2 Plus 8		JC2 Plus 10		JC2 Plus 14	
			PART 6**	PART 6	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	27.6	31.9	42.5	39.2	51.9	42.5	68.0	49.3	91.8
Nominal anchorage depth	h_{nom}	mm	35	40	55	50	65	55	85	65	115
Non-cracked concrete											
Tensile	N_{Rec}	kN	NA	1.4	4.5	5.7	8.8	6.5	13.1	7.1	20.0
Shear	V_{Rec}	kN	NA	3.1	5.6*	10.9*	12.3*	18.2*	20.1*	26.8	37.1*
Cracked concrete											
Tensile	N_{Rec}	kN	NA	1.4	2.1	3.1	5.7	3.6	9.0	4.0	14.3
Shear	V_{Rec}	kN	NA	3.1	4.5	10.9*	12.3*	13.6	20.1*	18.7	37.1*

*Failure mode = steel; **Pending

Recommended loads: JC6-KB range

			JC6 KB 6 A4	JC6 KB 8 A4	JC6 KB 10 A4	JC6 KB 12 A4
			PART 6	PART 6	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	43.1	22.2	58.7	75.6
Nominal anchorage depth	h_{nom}	mm	70.0	52.0	100.0	120.0
Non-cracked concrete						
Tensile	N_{Rec}	kN	2.4	1.0	7.6	9.9
Shear	V_{Rec}	kN	5.1*	2.5	10.5	22.3*
Cracked concrete						
Tensile	N_{Rec}	kN	2.4	1.0	3.3	4.8
Shear	V_{Rec}	kN	4.6	1.7	7.4	21.6

*Failure mode = steel

The data within these tables are based on:

Concrete C20/25, $f_{ck,cube} = 25N/mm^2$

Installation has been done correctly

No influence of edge distances and spacings

Minimum base material thickness is met

Precast pre-stressed hollow core slabs: Basic loading data (JC2 range only)

Characteristic resistances

		JC2 6: KB / FR / IT / ST			
Nominal anchorage depth	h_{nom}	mm	40		
Flange thickness	d_b	mm	25	30	40
Loading for all directions	F_{Rk}	kN	1.0	2.0	3.0
Characteristic bending resistance	$M_{Rk,s}^0$	Nm	16.0		
Edge distance	$c_{cr} = c_{min}$	mm	100		
Spacing	$s_{cr} = s_{min}$	mm	100		

Design resistances

		JC2 6: KB / FR / IT / ST			
Nominal anchorage depth	h_{nom}	mm	40		
Flange thickness	d_b	mm	25	30	40
Loading for all directions	F_{Rd}	kN	0.7	1.3	2.0
Characteristic bending resistance	$M_{Rd,s}$	Nm	12.8		
Edge distance	$c_{cr} = c_{min}$	mm	100		
Spacing	$s_{cr} = s_{min}$	mm	100		

Recommended loads

		JC2 6: KB / FR / IT / ST			
Nominal anchorage depth	h_{nom}	mm	40		
Flange thickness	d_b	mm	25	30	40
Loading for all directions	F_{Rec}	kN	0.5	1.0	1.4
Characteristic bending resistance	M_{Rec}	Nm	9.1		
Edge distance	$c_{cr} = c_{min}$	mm	100		
Spacing	$s_{cr} = s_{min}$	mm	100		

The partial safety factor for action is $\gamma = 1.4$

Requirements for multiple anchoring

The definition of multiple use according to the Member States is given in annex of the ETAG 001 (Part 6)

Minimum numbers of fixing points	Minimum numbers of anchors per fixing points	Maximum design loads of action N_{sd}
3	1	2kN
4	1	3kN

The value N_{sd} might be increased if in the design it is shown that the requirements on the strength and stiffness of the fixture in the serviceability and ultimate states after the failure of one anchor are fulfilled.

The data within these tables are based on:

ETA-18/0221

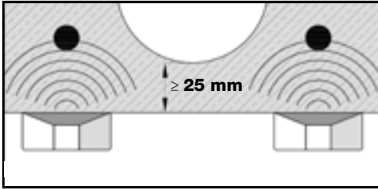
Concrete C30/37 to C50/60

Installation has been done correctly

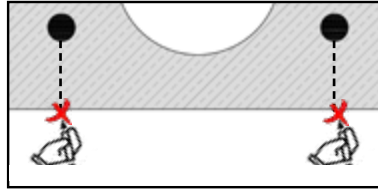
Edge distances and spacings

Setting instructions (JC2 range only)

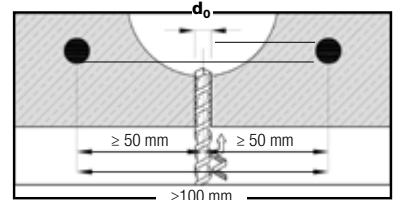
Installation instructions in pre-stressed hollow core slabs



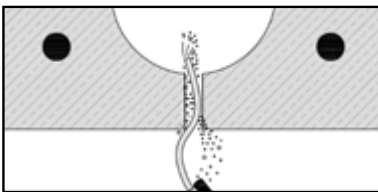
1. Locate rebars by means of suitable detector.



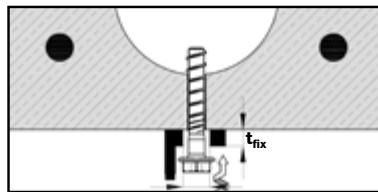
2. Mark rebar location.



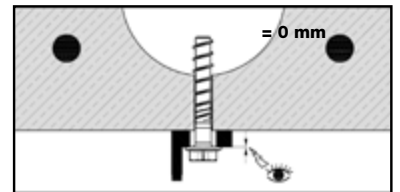
3. Make a cylindrical hole.



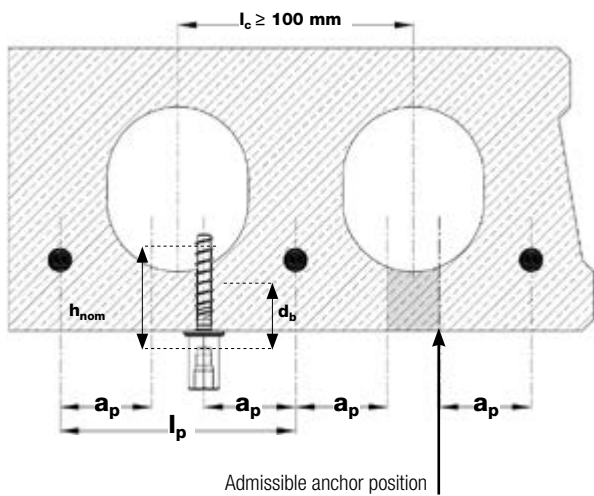
4. Clean the hole.



5. Install the screw anchor very gently by screw-driver or torque wrench. Avoid overtightening.

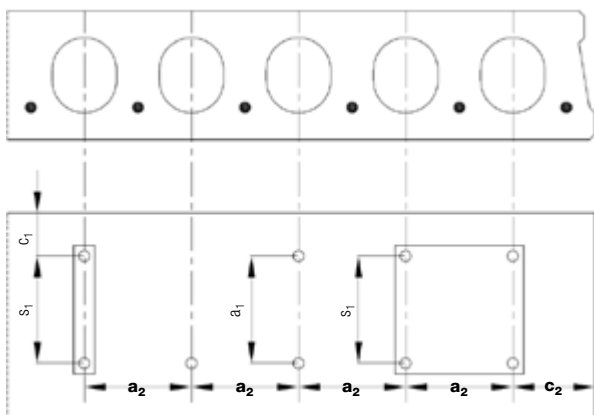


6. Ensure that the screw anchor head fully rests without any gap on the fixture and is not damaged.



Admissible anchor position in pre-stressed hollow core slabs

Core distance	$l_c \geq 100 \text{ mm}$
Pre-stressing steel distance	$l_p \geq 100 \text{ mm}$
Distance between anchor position and prestressing steel	$a_p \geq 50 \text{ mm}$



Minimum spacing and edge distance of anchors and distance between anchor groups in pre-stressed hollow core slabs

c1, c2	edge distance
s1, s2	anchor spacing
a1, a2	distance between anchor groups

Fire resistance



Design under fire exposure is performed according to the design method given in EOTA TR 020. The data within these tables are based on ETA-17/0835, ETA-18/0221 and ETA-21/0020.

Characteristic resistances: JC2 range

			JC2 6: KB / FR / IT / ST			JC2 Plus 8		JC2 Plus 10		JC2 Plus 14	
			PART 6**	PART 6	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	27.6	31.9	42.5	39.2	51.9	42.5	68.0	49.3	91.8
Nominal anchorage depth	h_{nom}	mm	35	40	55	50	65	55	85	65	115
Fire Exposure R30											
Tensile	$N_{Rk, s, fi}$	kN	NA	0.24	0.24	0.42	0.42	0.99	0.99	2.13	2.65
Shear (steel failure)	$V_{Rk, s, fi}$	kN	NA	0.24	0.24	0.42	0.42	0.99	0.99	2.65	2.65
Fire exposure R60											
Tensile	$N_{Rk, s, fi}$	kN	NA	0.22	0.22	0.38	0.38	0.85	0.85	1.99	1.99
Shear (steel failure)	$V_{Rk, s, fi}$	kN	NA	0.22	0.22	0.38	0.38	0.85	0.85	1.99	1.99
Fire exposure R90											
Tensile	$N_{Rk, s, fi}$	kN	NA	0.17	0.17	0.30	0.30	0.66	0.66	1.73	1.73
Shear (steel failure)	$V_{Rk, s, fi}$	kN	NA	0.17	0.17	0.30	0.30	0.66	0.66	1.73	1.73
Fire exposure R120											
Tensile	$N_{Rk, s, fi}$	kN	NA	0.12	0.12	0.21	0.21	0.53	0.53	1.33	1.33
Shear (steel failure)	$V_{Rk, s, fi}$	kN	NA	0.12	0.12	0.21	0.21	0.53	0.53	1.33	1.33

The recommended loads under fire exposure include a safety factor for resistance under fire exposure $\gamma_{M,fi} = 1.0$ and the partial safety factor for action $\gamma_{F,fi} = 1.0$. The partial safety factors for action shall be taken from national regulations. **Pending

Characteristic resistances: JC6-KB range

			JC6 KB 6 A4	JC6 KB 8 A4	JC6 KB 10 A4	JC6 KB 12 A4
			PART 6	PART 6	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	43.1	22.2	58.7	75.6
Nominal anchorage Depth	h_{nom}	mm	70	52	100	120
Fire Exposure R30						
Tensile	$N_{Rk, s, fi}$	kN	0.23	0.40	1.70	2.90
Shear (steel failure)	$V_{Rk, s, fi}$	kN	0.23	0.40	1.70	2.90
Fire Exposure R60						
Tensile	$N_{Rk, s, fi}$	kN	0.20	0.40	1.30	2.40
Shear (steel failure)	$V_{Rk, s, fi}$	kN	0.20	0.40	1.30	2.40
Fire Exposure R90						
Tensile	$N_{Rk, s, fi}$	kN	0.16	0.40	1.00	2.00
Shear (steel failure)	$V_{Rk, s, fi}$	kN	0.16	0.40	1.00	2.00
Fire Exposure R120						
Tensile	$N_{Rk, s, fi}$	kN	0.11	0.30	0.90	1.60
Shear (steel failure)	$V_{Rk, s, fi}$	kN	0.11	0.30	0.90	1.60

The recommended loads under fire exposure include a safety factor for resistance under fire exposure $\gamma_{M,fi} = 1.0$ and the partial safety factor for action $\gamma_{F,fi} = 1.0$. The partial safety factors for action shall be taken from national regulations.

The data within these tables are based on:

Concrete C20/25, $f_{ck,cube} = 25 \text{ N/mm}^2$

Installation has been done correctly

No influence of edge distances and spacings

Minimum base material thickness is met

Material and dimensions

Material quality and coating

JC2 6: KB / FR / IT / ST	
Material	Cold forged carbon steel
Coating ZP	Zinc electroplated according to EN ISO 4042 $\geq 5 \mu\text{m}$
Coating ZA	Zinc alloy coating $\geq 8 \mu\text{m}$

JC6-KB	
Material	A4 stainless steel
Grade	316 austenitic
Lead Threads	Hardened carbon steel

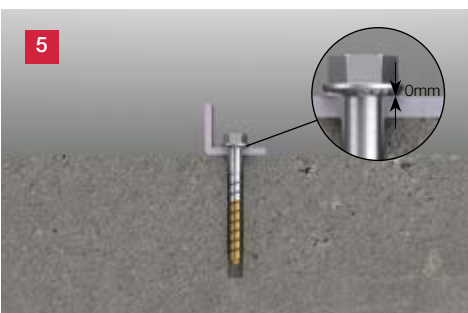
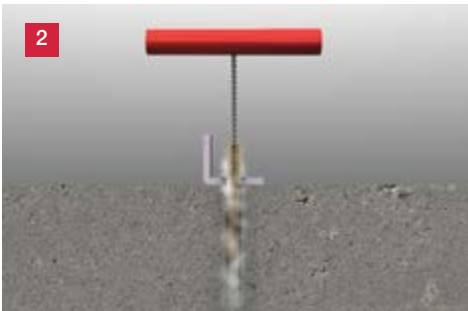
Mechanical properties: JC2 range

			JC2 6: KB / FR / IT / ST			JC2 Plus 8		JC2 Plus 10		JC2 Plus 14	
			PART 6**	PART 6	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	27.60	31.90	42.50	39.20	51.90	42.50	68.00	49.30	91.80
Nominal anchorage depth	h_{nom}	mm	35.00	40.00	55.00	50.00	65.00	55.00	85.00	65.00	115.00
Nominal tensile strength	F_{uk}	N/mm ²	800.00	800.00	800.00	800.00	800.00	800.00	800.00	800.00	800.00
Characteristic bending resistance	$M_{Rk,s}^0$	Nm	16.00			37.00	45.00	72.00	84.00	207.00	227.00
Nominal diameter	d_{nom}	mm	6.00			8.00		10.00		14.00	
Thread outer diameter	d_{th}	mm	7.45			10.50		12.70		16.55	
Shaft diameter	d_s	mm	5.88			7.80		9.62		13.40	
Diameter of integrated washer (KB)	D	mm	16.50			17.50		20.50		28/29.50	
Diameter of integrated washer (IT)	D	mm	14.20/17.00			-		-		-	
Diameter of pan head (FR)	D	mm	14.50			-		-		-	
Diameter of countersunk (ST)	D	mm	14.00			-		-		-	

Mechanical properties: JC6-KB range

			JC6 KB 6 A4	JC6 KB 8 A4	JC6 KB 10 A4	JC6 KB 12 A4
			PART 6	PART 6	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	43.1	22.2	58.7	75.6
Nominal anchorage depth	h_{nom}	mm	70.0	52.0	100.0	120.0
Nominal tensile strength	F_{uk}	N/mm ²	800.0	800.0	800.0	800.0
Characteristic bending resistance	$M_{Rk,s}^0$	Nm	14.6	35.9	74.4	130.6
Nominal diameter	d_{nom}	mm	6.0	8.0	10.0	12.0
Thread outer diameter	d_{th}	mm	7.5	9.9	12.5	14.3
Shaft diameter	d_s	mm	5.5	7.4	9.4	11.3
Diameter of integrated washer (KB)	D	mm	13.0	20.0	22.0	25.0

Installation instructions



Notes

Concrete and hollow core slab

Concrete strength is C20/25 to C50/60. Hollow core slabs C30/37 to C50/60.

No significant voids in concrete.

Concrete is well compacted.

Thickness of concrete is according PDS installation data.

Installation

Edge distances and spacing are according PDS installation data.

Use proper air pump or compressor.

Drill hole is deep enough (mentioned h_1 in PDS installation data).

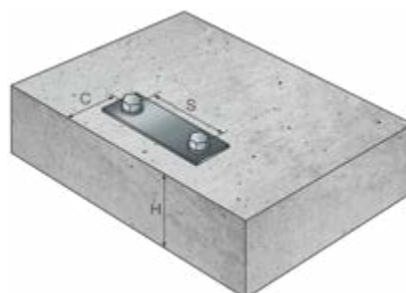
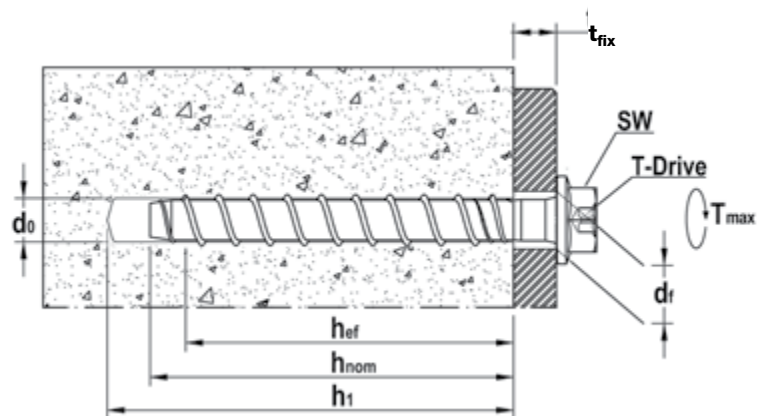
All dust should be cleaned from the hole to avoid screw seizing during installation.

Pay special attention to cleaning, especially when installing downwards.

In case of aborted hole, drilling of new hole at a minimum distance of twice the depth of the aborted hole, or smaller distance provided the aborted drill hole is filled with high strength non-shrinkage mortar. No shear or oblique tension loads are allowed in the direction of a not filled aborted hole.

Other base materials

Concrete screws can also be used in other base materials such as solid clay brick and solid sand-lime brick.



Installation parameters

Minimum thickness of concrete member, spacing and edge distance: JC2 range

			JC2 6: KB / FR / IT / ST			JC2 Plus 8		JC2 Plus 10		JC2 Plus 14	
			PART 6**	PART 6	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	27.6	31.9	42.5	39.2	51.9	42.5	68	49.3	91.8
Nominal anchorage depth	h_{nom}	mm	35	40	55	50	65	55	85	65	115
Minimum thickness of base materials	h_{min}	mm	80	100	100	100	115	100	130	120	150
Minimum spacing	s_{min}	mm	35	35	35	35	35	40	40	60	60
Minimum edge distance	c_{min}	mm	30	35	35	35	35	40	40	60	60
Characteristic edge distance concrete cone failure	$c_{cr,N}$	mm	41	48	64	59	78	64	102	74	138
Characteristic spacing concrete cone failure	$s_{cr,N}$	mm	83	96	128	128	156	128	204	148	275
Characteristic edge distance for splitting failure	$c_{cr,sp}$	mm	55	48	64	59	88	64	116	74	139
Characteristic spacing for splitting failure	$s_{cr,sp}$	mm	110	96	128	118	176	128	232	148	275
Diameter of drill bit	d_0	mm	6	6	6	8	8	10	10	14	14
Depth of drilled hole	$h_1 \geq$	mm	40	50	65	60	75	65	95	75	125
Diameter of clearance hole in fixture	d_f	mm	9.0			10.8 - 12.0		13.0 - 14.0		17.0 - 18.0	
Max. torque, impact driver	T_{SD}	Nm	90			290		650		650	
Max. torque, manual	$T_{inst} \leq$	Nm	14			45		85		100	

**Pending

Minimum thickness of concrete member, spacing and edge distance: JC6-KB range

			JC6 KB 6 A4	JC6 KB 8 A4	JC6 KB 10 A4	JC6 KB 12 A4
			PART 6	PART 6	OPTION 1	OPTION 1
Effective anchorage depth	h_{ef}	mm	43.1	22.2	58.7	75.6
Nominal anchorage depth	h_{nom}	mm	70	52	100	120
Minimum thickness of base material	h_{min}	mm	110	100	140	170
Minimum spacing	s_{min}	mm	40	55	60	70
Minimum edge distance	c_{min}	mm	40	55	60	70
Characteristic edge distance concrete cone failure	$c_{cr,N}$	mm	$1.5h_{ef}$	$1.5h_{ef}$	$1.5h_{ef}$	$1.5h_{ef}$
Characteristic spacing concrete cone failure	$s_{cr,N}$	mm	$3.0h_{ef}$	$3.0h_{ef}$	$3.0h_{ef}$	$3.0h_{ef}$
Characteristic edge distance for splitting failure	$c_{cr,sp}$	mm	$1.5h_{ef}$	$1.5h_{ef}$	$1.5h_{ef}$	$1.5h_{ef}$
Characteristic spacing for splitting failure	$s_{cr,sp}$	mm	$3.0h_{ef}$	$3.0h_{ef}$	$3.0h_{ef}$	$3.0h_{ef}$
Diameter of drill bit	d_0	mm	6	8	10	12
Minimum hole depth in concrete	$h_1 \geq$	mm	80	65	110	130
Diameter of clearance hole in fixture	d_f	mm	9	11	13	15
Max. torque, impact driver	$T_{max} \leq$	Nm	120	185	185	185
Width across the flats	SW	mm	10	13	17	19

Installation tools and accessories

Drills and drilling systems

SDS drill bits: 6 - 14mm diameter



EJOT vortex-SDS

Dust removal at source for drilling dense concrete, brick and block

Modular drilling components with unique carbide tips. The four-cutter design creates a more precise drill hole whilst dust is extracted through the system.



EJOT vortex-SDS **Standard drill bits 8 - 14mm**



EJOT vortex-SDS **Modular system 16 - 20mm**

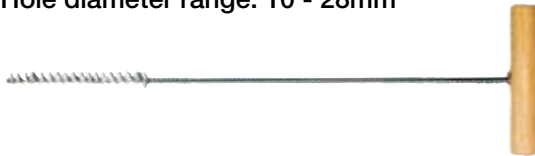


For further information visit EJOT online or contact our technical team.
Call 01977 687040
info@ejot.co.uk

Cleaning

Cleaning brushes

Hole diameter range: 10 - 28mm



Blow-out pump

400ml



Driver and wrench

Impact Wrench

FEIN cordless ASCD
18-300 W2 Select

Specifically for use with EJOT's JC2 and JC6-KB concrete screws up to M18



Torque Wrench

½" - 10 - 50 Nm

Release accuracy ± 3% according to DIN EN ISO 6789-1: 2017-07



Sockets and adaptor

Short impact socket

¼" drive

For hex head: SW10, SW13, SW15, SW17, SW19, SW21, SW24

For concrete screws: JC2-KB Plus, JC2-KB, JCT-IT and JC6-KB



Impact socket

T30 ½" drive

For concrete screws: JC2-ST6, JC2-FR6



Square drive adaptor

Used when installing with an impact driver and where changing from impact driver to torque wrench





Calculation software

EJOT's Anchor-fix dimensioning software is a 'go-to' tool to assist designers with pre-planning through to static requirements for critical building projects.

The program was developed for structural engineers, specifiers, engineers and technicians to calculate the load-carrying capacity of anchor bolts in concrete substrates - allowing data to be archived for reference.

Download here:

www.ejot.com/software-anchorfix



On site testing and support

When specifying outside of any standard technical parameters our technical team will recommend an on-site test report, carried out by a qualified EJOT engineer.

No-one can second guess the integrity of substrates. We want our customers to have absolute peace of mind and confidence in the match between fixing and substrate - and the correct installation process.



ETA Approved through-bolts

EJOT through-bolts provide Option 1 and Option 7 product solutions for performance-driven designers and installers.

Ask for our brochure or visit www.ejot.co.uk/throughbolts



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