Epoxy Acrylate

JFEA380SF
Vol. 410ml

INFORMATION

Epoxy Acrylate Resin is a two part grey resin (10:1) suitable for use in the vast majority of base materials. It can be used for installing threaded studs, rebar or internal threaded sockets for structural applications such as:

- Columns
- Guard rails
- Façades
- Staircases
- Cantilever beams
- Masonry Supports
- Racking Systems
- Safety Barriers
- Handrails
- Gates

Anchor Calculator Software can be used for detailed verifications based on EN 1992-4 or EOTA guidelines. Rein Volume Calculator can be used to determine the number of cartridges required for the project.

BASE MATERIAL

- Non-Cracked Concrete
- Concrete C20/25 To C50/60
- Solid Brickwork
- Concrete Block
- Hollow Base Materials
- Natural Stone

FEATURES

- Expansion Free
- Styrene Free
- High Performance
- Close Spacing And Edge Distances
- Dry/Wet/Flooded Holes
- Suitable For Overhead Installation
- Performance Provided For 50 And 100 Year Anchor Service Life in The ETA Approval
- Performance Data for Hammer Drilling, Dustless Drilling and Diamond Core Drilling
- 12-Month Shelf Life

APPROVALS

European Technical Assessment

ETA14/0233
For use in concrete
Option 7 Non- Cracked Concrete

SOFTWARE

Click here to download the software

Click here to download the software

RELATED PRODUCTS

JTOOL380

JTOOL410

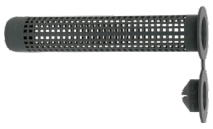
Injection Resin Guns

BOP1

Blow Out Pump

JMN130

Mixer Nozzle



Nylon Sleeves

Hole Cleaning Brushes

J-Fix Threaded Studs with Nut and Washer
Grade 5.8 Steel - Zinc Plated or Hot Dipped Galvanised Finishing
Grade 8.8 Steel - Zinc Plated or Hot Dipped Galvanised Finishing
A2-70 Stainless Steel
A4-70 Stainless Steel

JFV380SF (Vol. 410ml)
JFV300SF(Vol. 300ml)

Vinylester Resin

JFEA410SFW (Vol. 410ml)

Vinylester Fast Cure Winter Grade Resin
Suitable for Installation in Low Temperatures

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WORKING/LOADING TIME

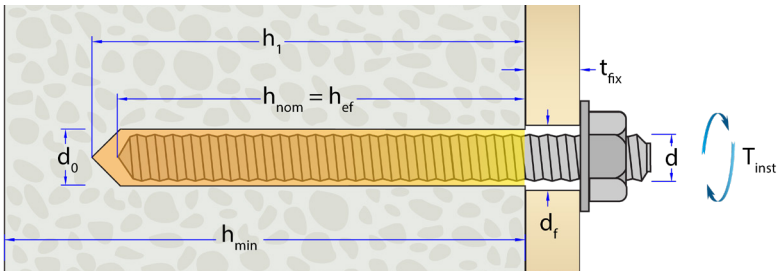
Note:

T_{work} = The highest temperature in the range

T_{load} = The lowest temperature in the range

Temperature °C	Usable Time (T_{work}) mins	Load Time (T_{load}) mins
+5°C	18	14
+5°C to +10°C	10	145
+10°C to +15°C	6	85
+15°C to +20°C	6	85
+20°C to +25°C	5	50
+25°C to +30°C	4	40
Ensure Cartridge Temperature is > 5°C		

INSTALLATION INTO CONCRETE (THREADED STUDS)



Installation Parameters for fixing Threaded Studs into Concrete

Thread Diameter (d) mm	Drill Hole Diameter (d_0) mm	Fixture Clearance Hole (d_f) mm	Shallow Embedment		Standard Embedment		Deep Embedment		Tightening Torque (T_{inst}) Nm	Diameter of Cleaning Brush Size mm	Minimum Spacing (s_{min}) mm	Minimum edge distance (c_{min}) mm
			Min. Hole Depth (h_{nom}) mm	Min. Concrete Thickness (h_{min}) mm	Min. Hole Depth (h_{nom}) mm	Min. Concrete Thickness (h_{min}) mm	Min. Hole Depth (h_{nom}) mm	Min. Concrete Thickness (h_{min}) mm				
Threaded Studs												
M8	10	10	64	100	80	110	96	126	10	14	35	35
M10	12	12	80	100	90	120	120	150	20	14	40	40
M12	14	14	96	126	110	140	144	175	40	20	50	50
M16	18	18	128	158	125	155	192	225	80	20	65	65
M20	22	22	160	205	170	215	240	290	150	29	80	80
M24	26	26	192	245	210	262	288	340	200	29	96	96

Approximate Resin Fixing For Cartridge

Thread Diameter d mm	Drill Hole Diameter d_0 mm	Standard Hole Depth h_0 mm	Number of fixings per 410 ml cartridge (JFEA380SF) No.
Threaded Studs			
M8	10	80	78
M10	12	90	52
M12	14	110	34
M16	18	128	22
M20	22	170	11
M24	26	210	7

Click here to download the Resin Volume Calculator to find the number of cartridges required for your application.

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PERFORMANCE DATA
GRADE 5.8 STUDS - NON-CRACKED CONCRETE

SHALLOW EMBEDMENT

Grade 5.8 Studs Performance Data (C20/25 non-cracked concrete)*								
Thread Diam (d)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
M8	64	100	16	9	8.9	7.2	6.39	5.1
M10	80	100	20.1	15	11.1	12	7.98	8.5
M12	96	126	32.5	21	18.1	16.8	12.93	12
M16	128	160	61.1	39	33.9	31.2	24.26	22.2
M20	160	205	85.4	61	47.4	48.8	33.91	34.8
M24	192	245	123	88	63.3	70.4	45.26	50.2

STANDARD EMBEDMENT

Grade 5.8 Studs Performance Data (C20/25 non-cracked concrete)*								
Thread Diam (d)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
M8	80	110	20.1	9	11.7	7.2	8.3	5.1
M10	90	120	22.6	15	12.5	12	8.9	8.5
M12	110	140	37.3	21	20.7	16.8	14.8	12
M16	128	160	61.1	39	33.9	31.2	24.2	22.2
M20	170	215	90.7	61	50.4	48.8	36	34.8
M24	210	262	134.5	88	74.7	70.4	53.4	50.2

DEEP EMBEDMENT

Grade 5.8 Studs Performance Data (C20/25 non-cracked concrete)*								
Thread Diam (d)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
M8	96	126	18	9	12	7.2	8.5	5.1
M10	120	150	30.1	15	16.7	12	11.9	8.5
M12	144	175	48.8	21	27.1	16.8	19.3	12
M16	192	225	91.6	39	50.9	31.2	36.3	22.2
M20	240	290	128.1	61	71.2	48.8	50.8	34.8
M24	288	340	184.5	88	102.5	70.4	73.2	50.2

* Increased embedment depth limited by steel strength.

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PERFORMANCE DATA
GRADE 8.8 STUDS - NON-CRACKED CONCRETE

SHALLOW EMBEDMENT

Grade 8.8 Studs Performance Data (C20/25 non-cracked concrete)*								
Thread Diam (d)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
M8	64	100	16	15	8.9	12	6.3	8.5
M10	80	100	20.1	23	11.1	18.4	7.9	13.1
M12	96	126	32.5	34	18.1	27.2	12.9	19.4
M16	128	160	61.1	63	33.9	50.4	24.2	36
M20	160	205	85.4	98	47.4	78.4	33.9	56
M24	192	245	123	141	63.3	112.8	45.2	80.5

STANDARD EMBEDMENT

Grade 8.8 Studs Performance Data (C20/25 non-cracked concrete)*								
Thread Diam (d)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
M8	80	110	20.1	15	11.7	12	8.3	8.5
M10	90	120	22.6	23	12.5	18.4	8.9	13.1
M12	110	140	37.3	34	20.7	27.2	14.8	19.4
M16	128	160	61.1	63	33.9	50.4	24.2	36
M20	170	215	90.7	98	50.4	78.4	36	56
M24	210	262	134.5	141	74.7	112.8	53.4	80.5

DEEP EMBEDMENT

Grade 8.8 Studs Performance Data (C20/25 non-cracked concrete)*								
Thread Diam (d)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
M8	96	126	24.1	15	13.4	12	9.5	8.5
M10	120	150	30.1	23	16.7	18.4	11.9	13.1
M12	144	175	48.8	34	27.1	27.2	19.3	19.4
M16	192	225	91.6	63	50.9	50.4	36.3	36.0
M20	240	290	128.1	98	71.2	78.4	50.8	56.0
M24	288	340	184.5	141	102.5	112.8	73.2	80.5

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PERFORMANCE DATA
GRADE A4-70 OR A2-70 STAINLESS STEEL STUDS - NON-CRACKED CONCRETE

SHALLOW EMBEDMENT

Grade A2-70 or A4-70 Stainless Steel Studs Performance Data (C20/25 non-cracked concrete)*								
Thread Diam (d)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
M8	64	100	16	13	8.9	8.3	6.3	5.9
M10	80	100	20.1	20	11.1	12.8	7.9	9.1
M12	96	126	32.5	30	18.1	19.2	12.9	13.7
M16	128	160	61.1	55	33.9	35.2	24.2	25.1
M20	160	205	85.4	86	47.4	55.1	33.9	39.3
M24	192	245	123	124	63.3	79.4	45.2	56.7

STANDARD EMBEDMENT

Grade A2-70 or A4-70 Stainless Steel Studs Performance Data (C20/25 non-cracked concrete)*								
Thread Diam (d)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
M8	80	110	20.1	13	11.7	8.3	8.3	5.9
M10	90	120	22.6	20	12.5	12.8	8.9	9.1
M12	110	140	37.3	30	20.7	19.2	14.8	13.7
M16	128	160	61.1	55	33.9	35.2	24.2	25.1
M20	170	215	90.7	86	50.4	55.1	36	39.3
M24	210	262	134.5	124	74.7	79.4	53.4	56.7

DEEP EMBEDMENT

Grade A2-70 or A4-70 Stainless Steel Studs Performance Data (C20/25 non-cracked concrete)*								
Thread Diam (d)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
M8	96	126	24.1	13	13.4	8.3	9.5	5.9
M10	120	150	30.1	20	16.7	12.8	11.9	9.1
M12	144	175	48.8	30	27.1	19.2	19.3	13.7
M16	192	225	91.6	55	50.9	35.2	36.3	25.1
M20	240	290	128.1	86	71.2	55.1	50.8	39.3
M24	288	340	184.5	124	102.5	79.4	73.2	56.7

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* Important notes:

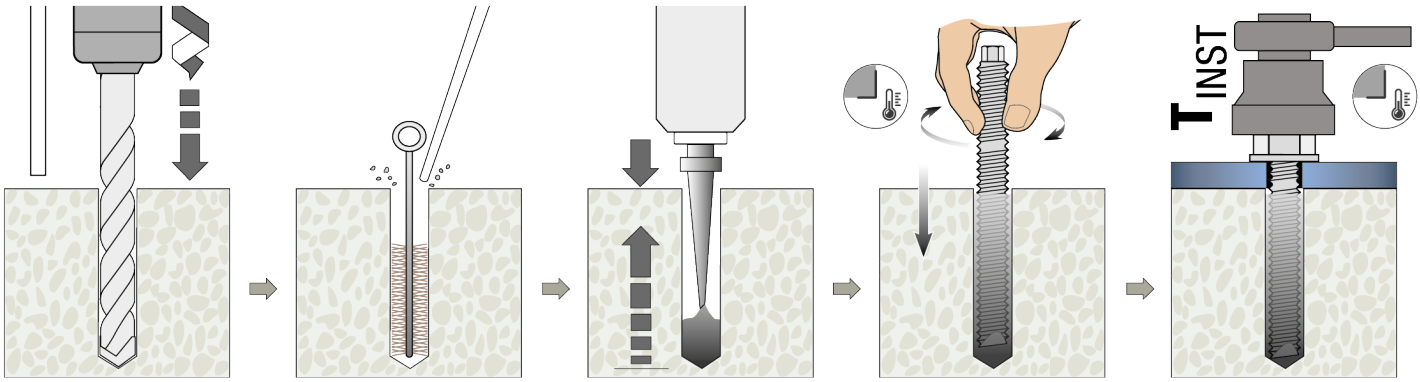
- Fasteners subject to static and quasi-static loads.
- Performance data stated for a single anchor, without the effect of spacing and edge distances. The influence of these parameters must be verified where applicable.
- Minimum concrete thickness, hole diameter, and embedment depth shall correspond to the dimensions stated in this document
- Concrete strength class C20/25 is assumed.
- The performance data is for short term loading. Please refer to ETA approval and EN 1992-4 to take into the influence of sustained load on the performance.
- Performance data is for drill holes produced using rotary hammer drilling, unless otherwise noted. Please refer to ETA approvals or Anchor calculation software for other drilling methods.
- Data given for the performance of the anchors are for 50 Years Working Life. Please refer to ETA approvals or Anchor calculation software for 100 Years Working Life.
- 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.
- Data given for the performance of the anchors for temperature range of minimum base material temperature -40°C, maximum long/short term base material temp: +50°C/+80°C.
- Data given are for installation in dry concrete. Please refer to ETA approvals or Anchor calculation software for installation into flooded holes.
- When concrete-related strength factors are applied, ensure that the resulting resistance value does not exceed the steel design resistance
- Installation carried out strictly in accordance with the product's Installation Instructions and performed by a trained operator.
- For project-specific assessments or conditions not explicitly covered, download the JCP Anchor Calculation Program.

JCP PRO Suite
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

INSTALLATION INSTRUCTIONS INTO CONCRETE (THREADED STUDS)

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



-Drill correct diameter hole to corresponding depth

-Clean the hole by brushing, blowing to remove drilling debris and dust:

2 × Blowing
2 × Brushing
2 × Blowing
2 × Brushing
2 × Blowing

-Attach the nozzle to the cartridge

-Extrude the first part to waste until an even colour is achieved

-Fill the hole 1/3 to 1/2 full starting from the bottom of the hole

-Insert the stud into the base material by hand using a twisting motion

-Allow resin to cure

-Attach fixture

-Tighten with a torque wrench to recommended torque

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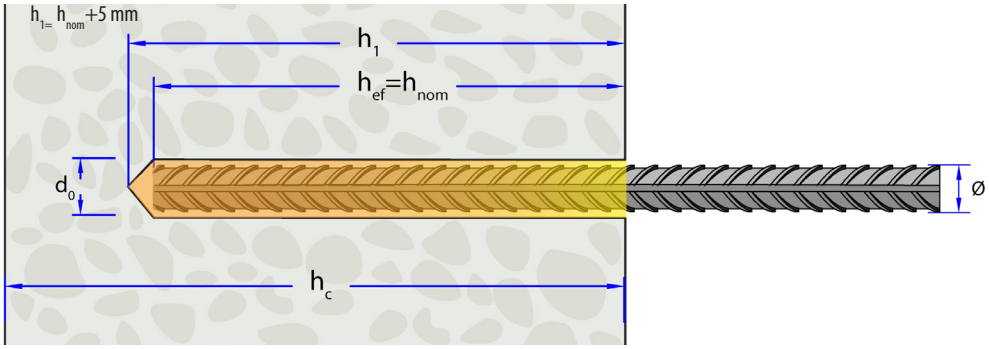
INSTALLATION DATA INTO CONCRETE (REBAR)



Installation Data For Fixing Rebars Into Concrete											
Rebar Diameter (Ø) mm	Drill Hole Diameter (d_0) mm	Fixture Clearance Hole (d_f) mm	Shallow Embedment		Standard Embedment		Deep Embedment		Diameter of Cleaning Brush Size mm	Minimum Spacing (s_{min}) mm	Minimum edge distance (c_{min}) mm
			Min. Hole Depth (h_{nom}) mm	Min. Concrete Thickness (h_c) mm	Min. Hole Depth (h_{nom}) mm	Min. Concrete Thickness (h_c) mm	Min. Hole Depth (h_{nom}) mm	Min. Concrete Thickness (h_c) mm			
Rebars											
Ø8	12	10	64	100	80	110	96	126	14	40	40
Ø10	14	12	80	100	90	120	120	150	14	40	40
Ø12	16	14	96	126	110	140	144	175	19	50	50
Ø16	20	22	128	158	128	160	192	222	22	70	70
Ø20	25	29	160	210	210	260	240	295	29	80	80
Ø25	32	27	200	265	250	315	300	364	40	100	100

Approximate Resin Fixing For Cartridge			
Thread Diameter	Drill Hole Diameter	Standard Hole Depth	Number of fixings per 410 ml cartridge (JFEA380SF)
Ø	d_0	h_{nom}	
mm	mm	mm	No.
Rebars			
Ø8	12	80	53
Ø10	14	90	39
Ø12	16	110	27
Ø16	20	128	18
Ø20	25	210	6
Ø25	32	250	3

Click here to download the Resin Volume Calculator to find the number of cartridges required for your application.

Technical Data Sheet

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PERFORMANCE DATA
REBAR 500B- NON-CRACKED CONCRETE

SHALLOW EMBEDMENT

Rebar 500B Performance Data (C20/25 non-cracked concrete)*								
Rebar Diam (Ø)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
Ø8	64	100	13.6	14	7.6	9.3	5.4	6.6
Ø10	80	100	20.1	22	11.1	14.6	7.9	10.4
Ø12	96	126	28.9	31	16	20.6	11.4	14.7
Ø16	128	158	45	55	25	36.6	17.8	26.1
Ø20	160	210	70.3	86	39.1	68.8	27.9	49.1
Ø25	200	265	86.3	135	48	90	34.2	64.2

STANDARD EMBEDMENT

Rebar 500B Performance Data (C20/25 non-cracked concrete)*								
Rebar Diam (Ø)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
Ø8	80	110	17	14	9.4	9.3	6.7	6.6
Ø10	90	120	22.6	22	12.5	14.6	8.9	10.4
Ø12	110	140	33.1	31	18.4	20.6	13.1	14.7
Ø16	128	160	45	55	25	36.6	17.8	26.1
Ø20	210	260	92.3	86	51.3	68.8	36.6	49.1
Ø25	250	315	107.9	135	60	90	42.8	64.2

DEEP EMBEDMENT

Rebar 500B Performance Data (C20/25 non-cracked concrete)*								
Rebar Diam (Ø)	Minimum Hole Depth (h_{nom})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	mm	mm	kN	kN	kN	kN	kN	kN
Ø8	96	126	20.5	14	11.3	9.3	8.1	6.6
Ø10	120	150	30.1	22	16.7	14.6	11.9	10.4
Ø12	144	175	50.6	31	28.1	20.6	20.1	14.7
Ø16	192	222	67.5	55	37.5	36.6	26.8	26.1
Ø20	240	295	105.5	86	55.6	68.8	39.7	49.1
Ø25	300	364	129.5	135	71.9	90	51.4	64.2

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* Important notes:

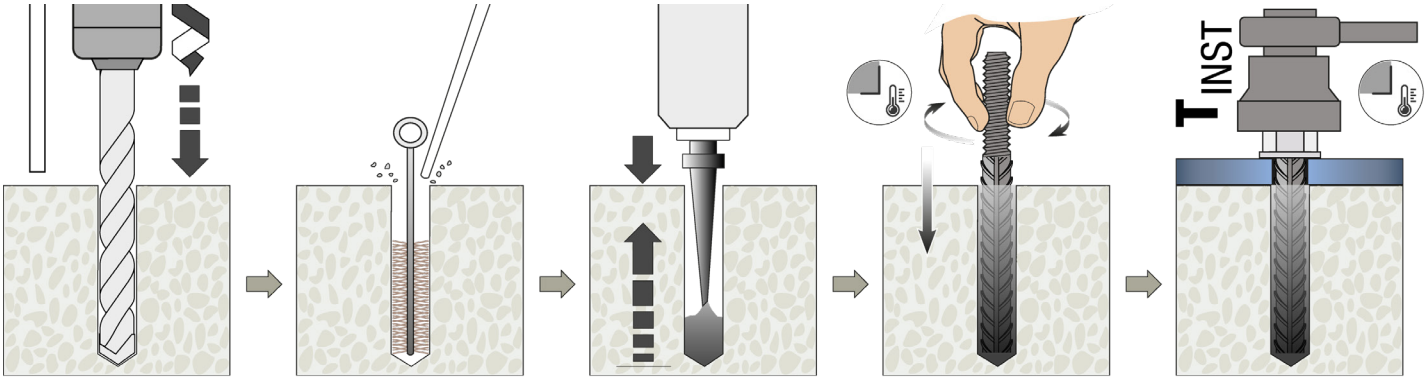
- The Performance data provided is for fixing a rebar as an anchor.
- Performance data is for fixing a rebar of Class B with characteristic yield strength of 500 MPa.
- Fasteners subject to static and quasi-static loads.
- The performance data is for short term loading. Please refer to ETA approval and EN 1992-4 to take into the influence of sustained load on the performance.
- 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 thickness, hole diameter, and embedment depth shall correspond to the dimensions stated in this document.
- Data given for the performance of the anchors are for 50 Years Working Life. Please refer to ETA approvals or Anchor calculation software for 100 Years Working Life.
- Concrete strength class C20/25 is assumed.
- Performance data is for drill holes produced using rotary hammer drilling, unless otherwise noted. Please refer to ETA approvals or Anchor calculation software for other drilling methods
- 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.
- Data given for the performance of the anchors for temperature range of minimum base material temperature -40°C, maximum long/short term base material temp: +50°C/+80°C.
- Installation carried out strictly in accordance with the product's Installation Instructions and performed by a trained operator.

JCP PRO Suite
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

INSTALLATION INSTRUCTIONS INTO CONCRETE (Rebar)

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



-Drill correct diameter hole to corresponding depth

-Clean the hole by brushing, blowing to remove drilling debris and dust:

2 × Blowing
2 × Brushing
2 × Blowing
2 × Brushing
2 × Blowing

-Attach the nozzle to the cartridge

-Extrude the first part to waste until an even colour is achieved

-Fill the hole 1/3 to 1/2 full starting from the bottom of the hole

-Insert the rebar into the base material by hand using a twisting motion

-Allow resin to cure

-Attach the fixture

-Tighten with a torque wrench to recommended torque

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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	Non-Cracked	Threaded Rods	1.0	1.12	1.23	1.30
		Rebars	1.0	1.08	1.15	1.19

STEEL DESIGN RESISTANCE FOR SINGLE ANCHOR							
Steel Grade	Load Type	Threaded Rods Diameter (mm)					
		M8	M10	M12	M16	M20	M24
Grade 5.8	Tensile (kN)	12.0	19.3	28.0	52.7	82.0	118.0
High Tensile Grade 8.8		19.3	30.7	44.7	84.0	130.7	188.0
Stainless Steel Grade A4-70		13.7	21.6	31.1	57.9	90.5	130.0
Grade 5.8	Shear (kN)	7.2	12.0	16.8	31.2	48.8	70.4
High Tensile Grade 8.8		12.0	18.4	27.2	50.4	78.4	112.8
Stainless Steel Grade A4-70		8.3	12.8	19.2	35.3	55.1	79.5

STEEL DESIGN RESISTANCE FOR B500 REBAR							
Steel Grade	Load Type	Rebar Diameter (mm)					
		Ø8	Ø10	Ø12	Ø16	Ø20	Ø25
Rebar B500	Tensile (kN)	20	30.7	44.2	79.2	123.5	192.8
	Shear (kN)	9.3	14.6	20.6	36.6	68.8	90

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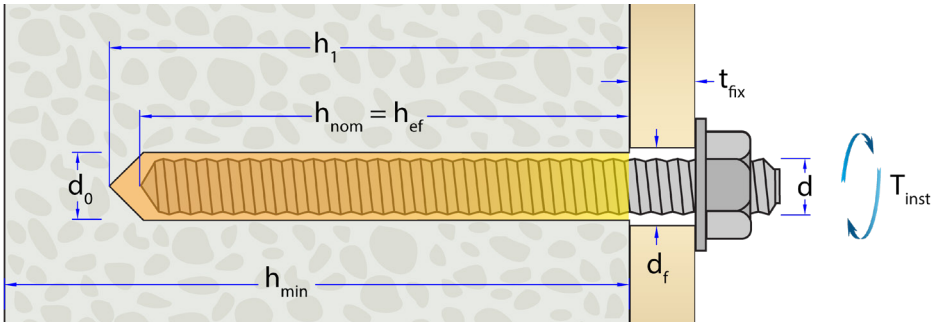
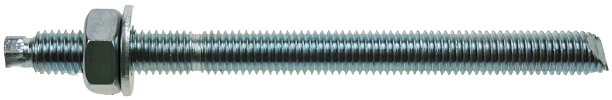
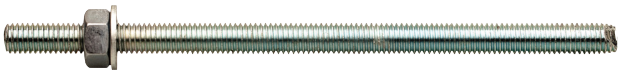
J- FIX STUDS



RANGE DATA			
Part Number	Thread Diam (d) mm	Stud Length (L) mm	Features
Steel Grade 5.8 - Zinc Plated Clear Passivated Chisel End Studs			
JSTUD08110	M8	110	 • Property Grade 5.8 • Chisel End Studs • Bright Zinc Plated • Depth Mark for Standard Embedement Depth • Hex Head with Setting Tool Included
JSTUD10130	M10	130	
JSTUD12160	M12	160	
JSTUD16190	M16	190	
JSTUD20260	M20	260	
JSTUD24300	M24	300	
JSTUD30380	M30	380	
Steel Grade 5.8 - Hot Dipped Galvanised Chisel End Studs			
JSTUD08110G	M8	110	 • Property Grade 5.8 • Chisel End Studs • Hot Dipped Galvanised (BS EN ISO 1461:2009) • Depth Mark for Standard Embedement Depth • Hex Head with Setting Tool Included
JSTUD10130G	M10	130	
JSTUD12160G	M12	160	
JSTUD16190G	M16	190	
JSTUD20260G	M20	260	
JSTUD24300G	M24	300	
Steel Grade 5.8 - Zinc Plated Clear Passivated Plain Ended and Chisel End Studs			
JSTUD08150PE	M8	150	 • Property Grade 5.8 • Plain Ended Studs • Bright Zinc Plated
JSTUD10105PE	M10	105	
JSTUD10150PE		150	
JSTUD10200PE		200	
JSTUD12110PE	M12	110	
JSTUD12150PE		150	
JSTUD12200PE		200	
JSTUD16110PE	M16	110	
JSTUD16250PE		250	
JSTUD16350PE		350	
JSTUD20200PE	M20	200	
JSTUD20400PE		400	

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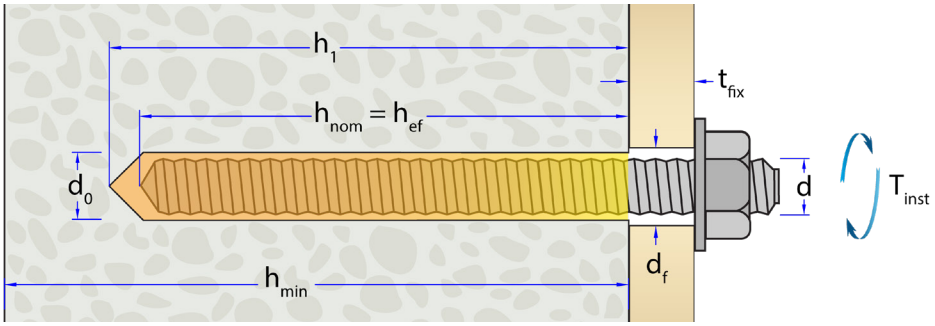
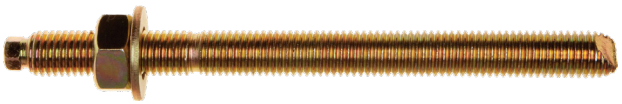
Epoxy Acrylate



RANGE DATA			
Part Number	Thread Diam (d)	Stud Length (L)	Features
	mm	mm	
High Tensile Steel Grade 8.8 Zinc Plated Yellow Passivated Chisel End Studs			
JSTUD08110HT	M8	110	 • Property Grade 8.8 • Chisel End Studs • Zinc Plated & Yellow Passivated • Depth Mark for Standard Embedement Depth • Hex Head with Setting Tool Included
JSTUD10130HT	M10	130	
JSTUD12160HT	M12	160	
JSTUD16190HT	M16	190	
JSTUD20260HT	M20	260	
JSTUD24300HT	M24	300	
JSTUD30380HT	M30	380	
High Tensile Steel Grade 8.8 Hot Dipped Galvanised Chisel End Studs			
JSTUD08110GHT	M8	110	 • Property Grade 8.8 • Chisel End Studs • Hot Dipped Galvanised (BS EN ISO 1461:2009) • Hex Head with Setting Tool Included • Depth Mark for Standard Embedement Depth
JSTUD12160GHT	M12	160	
JSTUD16190GHT	M16	190	
JSTUD20260GHT	M20	260	
JSTUD24300GHT	M24	300	

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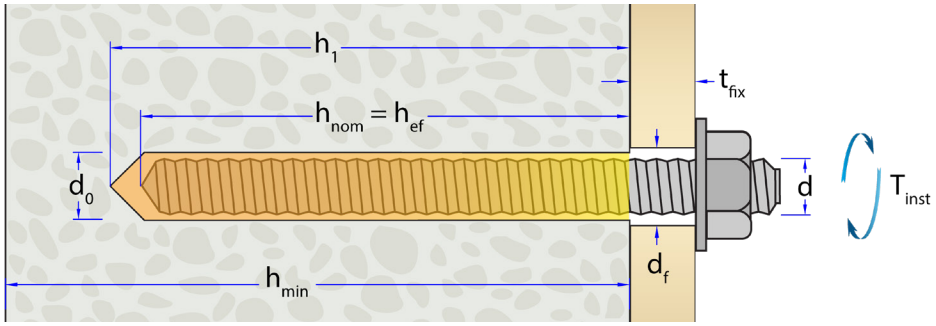
Epoxy Acrylate



RANGE DATA			
Part Number	Thread Diam (d) mm	Stud Length (L) mm	Features
Stainless Steel Grade A4/316 Chisel End Studs			
JSTUD08110SSA4	M8	110	 • Stainless Steel Grade A4/316 • Property Class 70 • Chisel End Studs • Hex Head with Setting Tool Included • Depth Mark for Standard Embedement Dept
JSTUD10130SSA4	M10	130	
JSTUD12160SSA4	M12	160	
JSTUD16190SSA4	M16	190	
JSTUD20260SSA4	M20	260	
JSTUD24300SSA4	M24	300	
Stainless Steel Grade A4/316 Plain Ended			
JSTUD08150PESS	M8	150	 • Stainless Steel Grade A4/316 • Property Class 70
JSTUD10105PESS	M10	105	
JSTUD10150PESS		150	
JSTUD10200PESS		200	
JSTUD12110PESS	M12	110	
JSTUD12150PESS		150	
JSTUD12200PESS		200	
JSTUD16110PESS	M16	110	
JSTUD16250PESS		250	
JSTUD16350PESS		350	
JSTUD20200PESS	M20	200	
JSTUD20400PESS		400	
Stainless Steel Grade A2/304 Chisel End Studs			
JSTUD08110SS	M8	110	 • Stainless Steel Grade A2/304 • Property Class 70 • Chisel End Studs • Hex Head with Setting Tool Included • Depth Mark for Standard Embedement Depth
JSTUD10130SS	M10	130	
JSTUD12160SS	M12	160	
JSTUD16190SS	M16	190	
JSTUD20260SS	M20	260	
JSTUD24300SS	M24	300	

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