Polyester Resin
Styrene Free

JFEA300SF
Vol. 300ml

INFORMATION

Polyester Styrene Free 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 or internal threaded sockets for structural applications such as:

- Racking Systems
- Safety Barriers
- Masonry Supports
- Railing
- Handrails
- MEP Support Systems
- Consoles
- Gates
- Steel Construction

BASE MATERIAL

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

FEATURES

- Expansion Free
- High Performance
- Close Spacing And Edge Distance
- Suitable for Overhead Applications
- Dry/Wet Holes

APPROVALS

European Technical Assessment

ETA25/1027
For use in concrete
Option 7 Non- Cracked Concrete
ETA 25/1028
For use in masonry

SOFTWARE

Click here to download the software

Click here to download the software

RELATED PRODUCTS

JTOOL150

JTOOL300

Injection Resin Guns

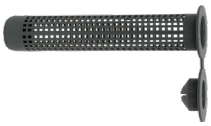
JMN130

Mixer Nozzle

BOP1

Blow Out Pump

Hole Cleaning Brushes



Nylon Sleeves

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

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WORKING/LOADING TIME

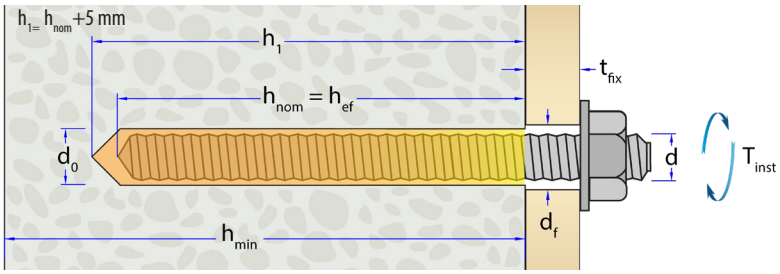
Note:

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 to +10°C	15	120
+10°C to +15°C	12	90
+15°C to +20°C	8	60
+20°C to +25°C	6	45
+25°C to +30°C	4	30
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	60	100	80	110	160	190	10	14	40	40
M10	12	12	70	100	90	120	200	230	20	14	50	40
M12	14	14	80	110	110	140	240	270	40	20	60	40
M16	18	18	100	136	125	165	320	356	80	20	75	50
M20	22	22	120	164	170	215	400	450	130	29	90	55
M24	28	26	145	197	210	265	480	540	200	29	115	60

Approximate Resin Fixing For Cartridge			
Thread Diameter	Drill Hole Diameter	Standard Hole Depth	Number of fixings per 300 ml cartridge (JFEA300SF)
d	d_0	h_{nom}	
mm	mm	mm	No.
Threaded Studs			
M8	10	80	57
M10	12	90	38
M12	14	110	25
M16	18	125	16
M20	22	170	8
M24	26	210	5

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
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	60	100	18.1	9	10	7.2	7.1	5.1
M10	70	100	26.3	15	14.6	12	10.4	8.5
M12	80	110	33.1	21	18.4	16.8	13.1	12
M16	100	136	45.2	39	25.1	31.2	17.9	22.2
M20	120	164	67.8	61	37.7	48.8	26.9	34.8
M24	145	197	87.4	88	48.5	70.4	34.7	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	18	9	12	7.2	8.57	5.1
M10	90	120	33.9	15	18.8	12	13.4	8.5
M12	110	140	45.6	21	25.3	16.8	18.1	12.0
M16	125	165	57.9	39	32.1	31.2	22.9	22.2
M20	170	215	96.1	61	53.4	48.8	38.1	34.8
M24	210	265	126.6	88	70.3	70.4	50.2	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	160	190	18	9	12	7.2	8.5	5.1
M10	200	230	29	15	19.3	12	13.8	8.5
M12	240	270	42	21	28	16.8	20.0	12.0
M16	320	356	79	39	52.6	31.2	37.6	22.2
M20	400	450	123	61	82	48.8	58.5	34.8
M24	480	540	177	88	118	70.4	84.2	50.2

* Deep embedment depth is limited by steel strength.

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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	60	100	18.1	13	10	8.3	7.1	5.9
M10	70	100	26.3	20	14.6	12.8	10.4	9.1
M12	80	110	33.1	29	18.4	18.5	13.1	13.2
M16	100	136	45.2	55	25.1	32.1	17.9	22.9
M20	120	164	67.8	85	37.7	54.4	26.9	38.9
M24	145	197	87.4	123	48.5	78.8	34.7	56.3

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	24.1	13	13.4	8.3	9.5	5.9
M10	90	120	33.9	20	18.8	12.8	13.4	9.1
M12	110	140	45.6	29	25.3	18.5	18.1	13.2
M16	125	165	57.9	55	25	32.1	17.8	22.9
M20	170	215	96.1	85	53.4	54.4	38.1	38.9
M24	210	265	102.9	123	57.1	78.8	40.8	56.3

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	160	190	26	13	13.9	8.3	9.9	5.9
M10	200	230	41	20	21.9	12.8	15.6	9.1
M12	240	270	59	29	31.5	18.5	22.5	13.2
M16	320	356	110	55	58.8	32.1	42	22.9
M20	400	450	171	85	91.4	54.4	65.3	38.9
M24	480	540	247	123	132	78.8	94.3	56.3

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* Important notes:

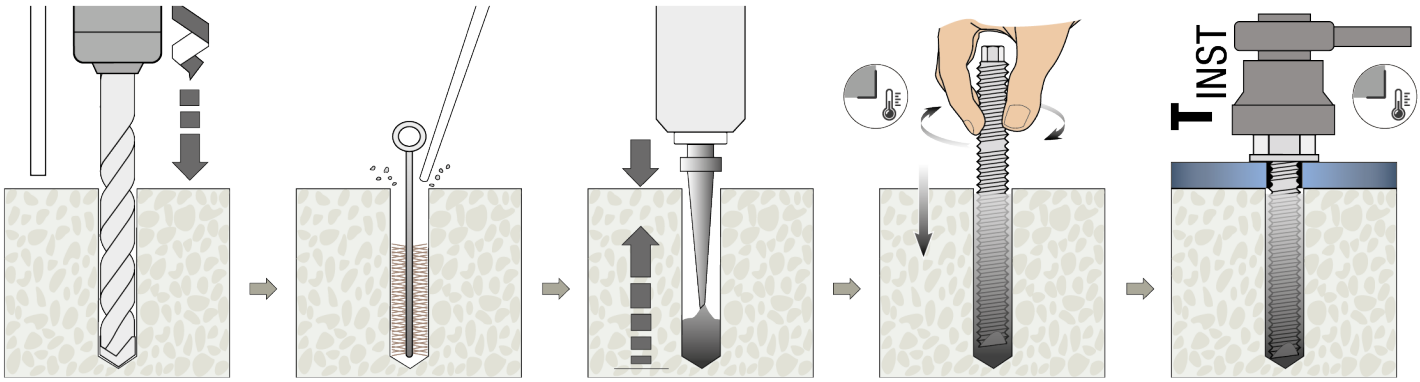
- Fasteners subject to static and quasi-static loads.
- Performance data stated for a single anchor, without the effect of spacing and edge distances. The influence of these parameters must be verified where applicable.
- Minimum concrete thickness, hole diameter, and embedment depth shall correspond 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.
- Data given for the performance of the anchors are for 50 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: +40°C/50°C.
- Data given are for installation in dry concrete.
- 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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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	1.0	1.0	1.0	1.0

STEEL DESIGN RESISTANCE FOR SINGLE ANCHOR								
Steel Grade	Load Type	Threaded Rods Diameter (mm)						
		M8	M10	M12	M16	M20	M24	M30
Grade 5.8	Tensile (kN)	12.0	19.3	28.0	52.7	82.0	118.0	187.3
Stainless Steel Grade A4-70		13.7	21.6	31.1	57.9	90.5	130.0	206.8
Grade 5.8	Shear (kN)	7.2	12.0	16.8	31.2	48.8	70.4	112.0
Stainless Steel Grade A4-70		8.3	12.8	19.2	35.3	55.1	79.5	125.6

Technical Data Sheet

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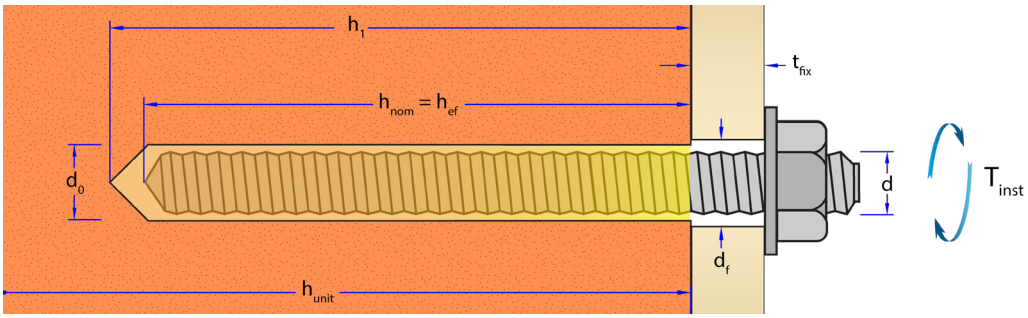
FIXING INTO SOLID MASONRY

- **Solid Clay Brick**
  Dimensions (length/ width / height) = 250 / 120 /55 mm
  Compressive Strength >21 N/mm²
  Density >1.56 kg/dm³



Installation Data For Fixing Into Solid Clay Brick

Thread Diameter (d) mm	Anchor rod without Sleeve: Drill Hole Diameter (d_0) mm	Min. Hole Depth (h_1) mm	Diameter of Cleaning Brush Size mm	Minimum Spacing mm	Minimum Edge Distance mm	Fixture Clearance Hole (d_f) mm	Tightening Torque (T_{inst}) Nm
Threaded Studs							
M8	10	85	12	50	50	9	5
M10	12	90	14	50	50	12	8
M12	14	100	16	50	50	14	10
M16	18	115	20	60	60	18	10

Grade 5.8 Studs Performance Data (Solid Clay Brick without Sleeve)

Thread Diameter	Characteristic Resistance		Design Resistance		Approved Resistance	
d	Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	kN	kN	kN	kN	kN	kN
M8	2	5.5	0.8	2.2	0.5	1.5
M10	2.5	8.5	1	3.4	0.7	2.4
M12	3.5	11.5	1.4	4.6	1.0	3.1
M16	4	13.5	1.6	5.4	1.1	2.7

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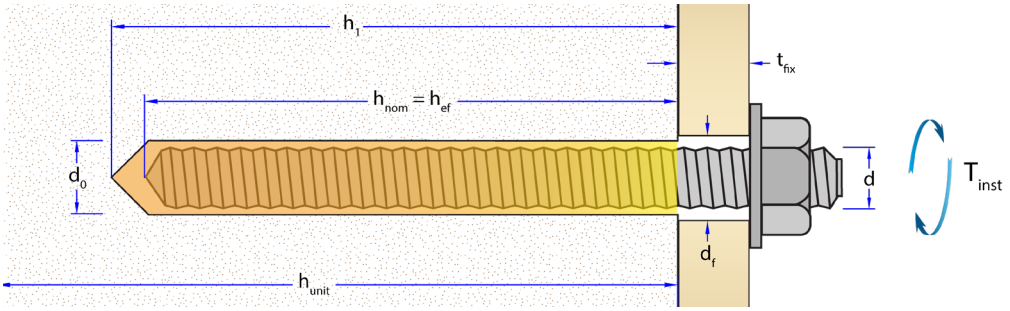
Polyester Resin
Styrene Free

- **Aerated Autoclaved Concrete Block**
  Dimensions (length/ width / height) = 625/ 200 /360 mm
  Compressive Strength >1.8 N/mm²
  Density >0.3 kg/dm³



Installation Parameters for Fixing Into Aerated Autoclaved Concrete Block

Thread Diameter (d) mm	Anchor rod without Sleeve					Fixture Clearance Hole (d_f) mm	Tightening Torque (T_{inst}) Nm
	Drill Hole Diameter (d_0) mm	Min. Hole Depth (h_1) mm	Diameter of Cleaning Brush Size mm	Minimum Spacing mm	Minimum Edge Distance mm		
Threaded Studs							
M8	10	85	12	50	50	9	2
M10	12	90	14	50	50	12	2
M12	14	100	16	50	50	14	2
M16	18	115	20	60	60	18	2

Grade 5.8 Studs Performance Data (Aerated Autoclaved Concrete Block without sleeve)

Thread Diameter	Characteristic Resistance		Design Resistance		Approved Resistance	
d	Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
mm	kN	kN	kN	kN	kN	kN
M8	1.5	1.5	0.75	0.75	0.5	0.5
M10	2	1.5	1	0.75	0.7	0.5
M12	2.5	2.5	1.25	1.25	0.9	0.9
M16	2.5	2.5	1.25	1.25	0.9	0.9

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* Important Notes:

- The Performance data provided is for guidance only. Due to variable nature of masonry units, site tests are recommended to determine the final resistance for safety critical applications.
- 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 thickness, hole diameter, and embedment depth shall correspond to the dimensions stated in this document.
- 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: +24°C/40°C.
- Performance data has been calculated taking into account of having Joints vertically and horizontally with 5mm thickness and joint class of M2.5-M9. Anchor calculation program can be used for more detailed verification.
- 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 SOLID MASONRY

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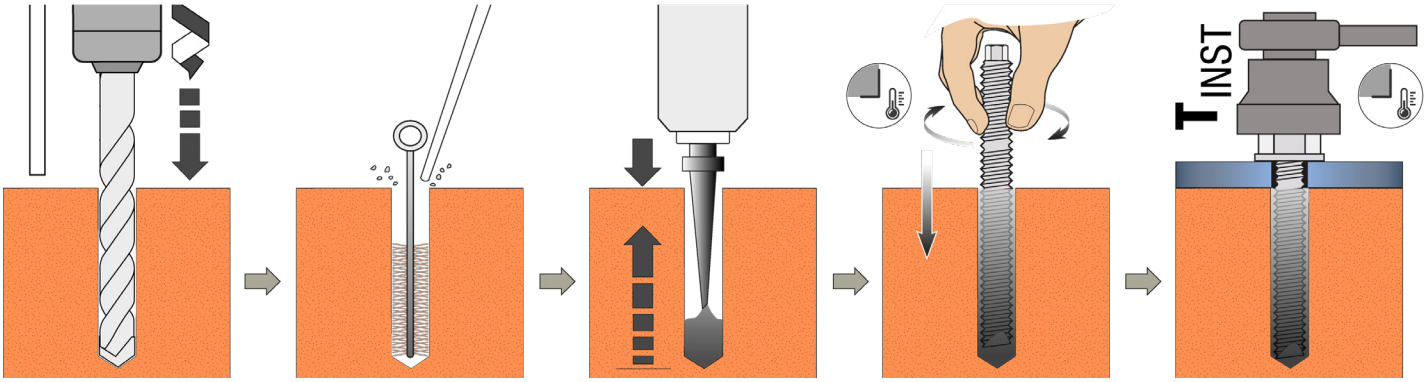

-Drill correct diameter hole to corresponding depth

-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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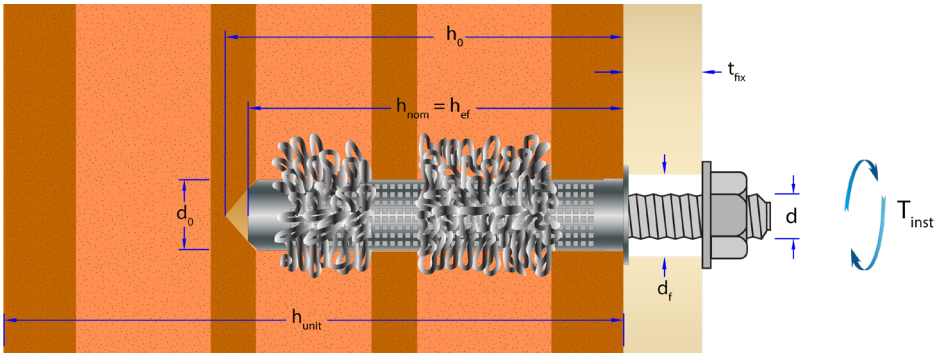
FIXING INTO HOLLOW MASONRY

- **Hollow Clay Brick Porotherm (EN 771-1)**
  Dimensions (length/ width / height)
  = 373 / 250 /238 mm
  Compressive Strength >15 N/mm²
  Density >0.8kg/dm³



Installation Parameters for Fixing Into Hollow Clay Brick Porotherm

Thread Diameter (d) mm	Anchor rod with Sleeve: Sleeve Size (diam / length) mm	Drill Hole Diameter (d_0) mm	Min. Hole Depth (h_0) mm	Diameter of Cleaning Brush Size mm	Minimum Spacing* mm	Minimum Edge Distance mm	Fixture Clearance Hole (d_f) mm	Tightening Torque (T_{inst}) Nm
Threaded Studs								
M10	16/85	16	90	16	373/250	187	12	4
M12	20/85	20	90	20	373/250	187	14	4

* Minimum Spacing Parallel to Horizontal Joints / Minimum Spacing Vertical to the Horizontal Joints.

Grade 5.8 Studs Performance Data (Hollow Clay Brick Porotherm with Sleeve)

Thread Diam (d)	Sleeve Size (diam / length)	Characteristic Resistance		Design Resistance		Approved Resistance	
mm	mm	kN		kN		kN	
		Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
M10	16/85	2.0	2.0	0.8	0.8	0.6	0.6
M12	20/85	2.0	2.0	0.8	0.8	0.6	0.6

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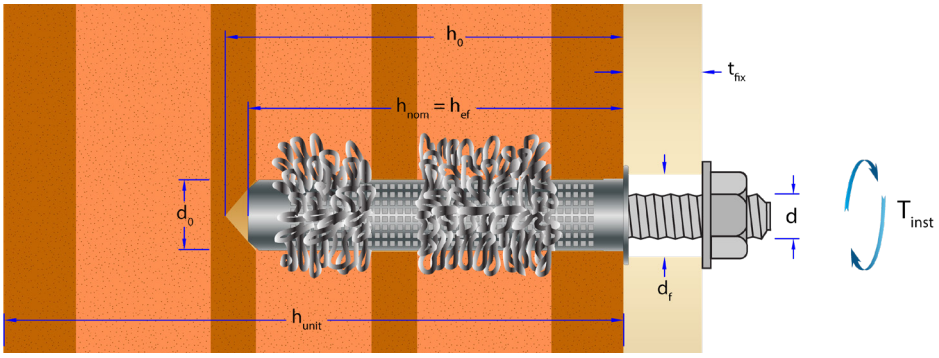
- **Hollow Brick Hlz B - 1.0 1NF 12-1 (EN 771-1)**

Dimensions (length/ width / height) = 115 / 240 /71 mm
Compressive Strength >12 N/mm²



Installation Parameters for Fixing Into Hollow Clay Brick Hueco Doble

Thread Diameter (d) mm	Anchor rod with Sleeve: Sleeve Size (diam / length) mm	Drill Hole Diameter (d_0) mm	Min. Hole Depth (h_0) mm	Diameter of Cleaning Brush Size mm	Minimum Spacing* mm	Minimum Edge Distance mm	Fixture Clearance Hole (d_f) mm	Tightening Torque (T_{inst}) Nm
Threaded Studs								
M10	16/85	16	90	20	240/120	120	12	4
M12	20/85	16	90	20	240/120	120	14	4

* Minimum Spacing Parallel to Horizontal Joints / Minimum Spacing Vertical to the Horizontal Joints.

Grade 5.8 Studs Performance Data (Hollow Clay Brick Hueco Doble with Sleeve)

Thread Diam (d)	Sleeve Size (diam / length)	Characteristic Resistance		Design Resistance		Approved Resistance	
mm	mm	kN		kN		kN	
		Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})
M10	16/85	4.5	5.5	1.8	2.2	1.3	1.6
M12	20/85	5	5.5	2	2.2	1.4	1.6

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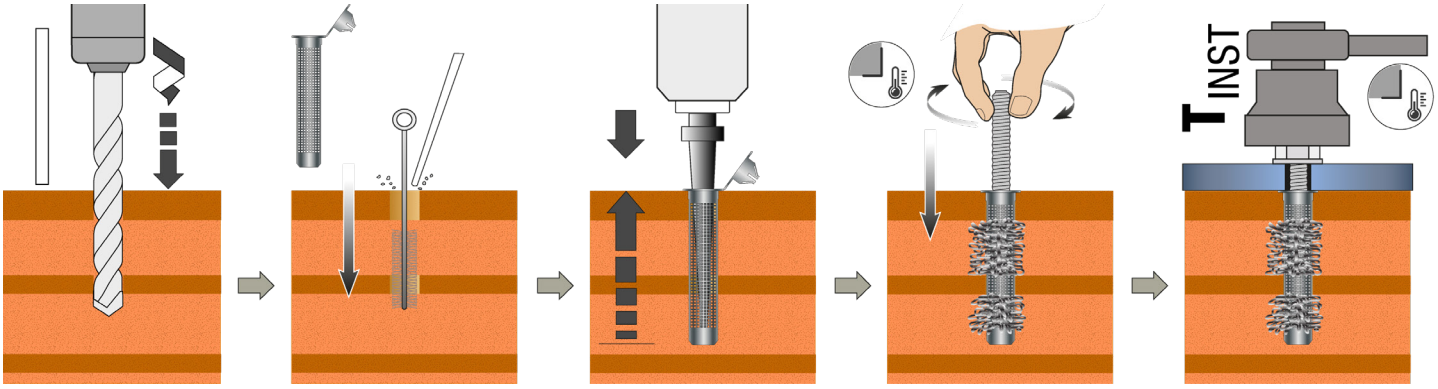
* Important Notes:

- The Performance data provided is for guidance only. Due to variable nature of masonry units, site tests are recommended to determine the final resistance for safety critical applications.
- 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 thickness, hole diameter, and embedment depth shall correspond to the dimensions stated in this document.
- 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: +24°C/40°C.
- Performance data has been calculated taking into account of having Joints vertically and horizontally with 5mm thickness and joint class of M2.5-M9. Anchor calculation program can be used for more detailed verification
- 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 HOLLOW MASONRY



-Drill the hole to the correct diameter and depth using a rotary percussive machine

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

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

-Insert the correct perforated sleeve into the drilled hole after cleaning

-Ensure the sleeve is positioned flush with the surface of the base material and properly centred

-Attach the nozzle to the cartridge

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

-Insert mixer nozzle to the end of the perforated sleeve and completely fill the sleeve with resin

-Withdraw the mixer nozzle as the sleeve fills

-Plug the centering cap into the sleeve

-Insert the stud into the perforated sleeve by hand using a twisting motion

-Allow resin to cure

-Attach fixture

-Tighten with a torque wrench to recommended torque

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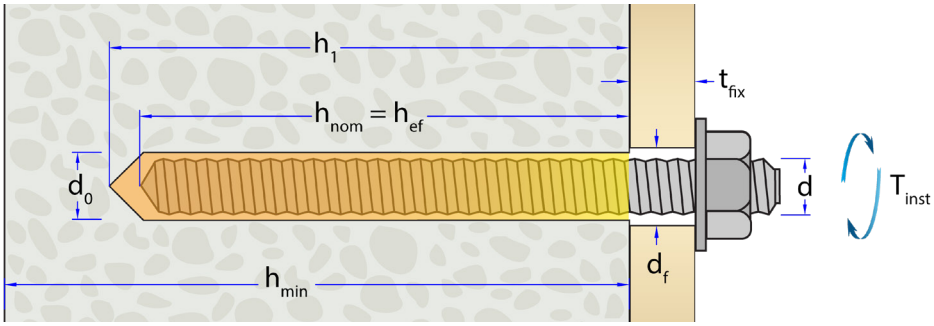
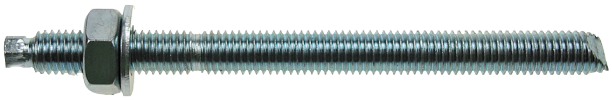
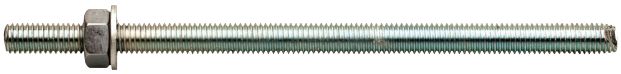
J- FIX STUDS



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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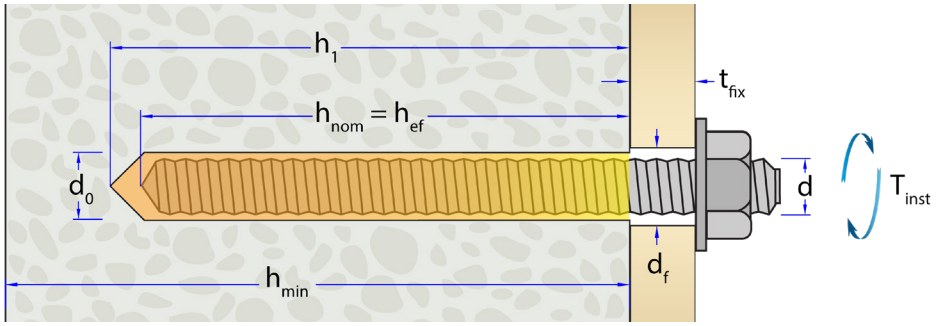
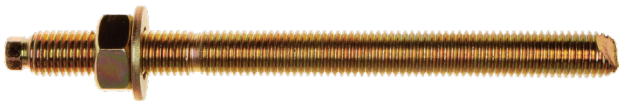


RANGE DATA			
Part Number	Thread Diam (d)	Stud Length (L)	Features
	mm	mm	
High Tensile Steel Grade 8.8 Zinc Plated Yellow Passivated Chisel End Studs			
JSTUD08110HT	M8	110	 • Property Grade 8.8 • Chisel End Studs • Zinc Plated & Yellow Passivated • Depth Mark for Standard Embedement Depth • Hex Head 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
JSTUD10130GHT	M10	130	
JSTUD12160GHT	M12	160	
JSTUD16190GHT	M16	190	
JSTUD20260GHT	M20	260	
JSTUD24300GHT	M24	300	
JSTUD30380GHT	M30	380	

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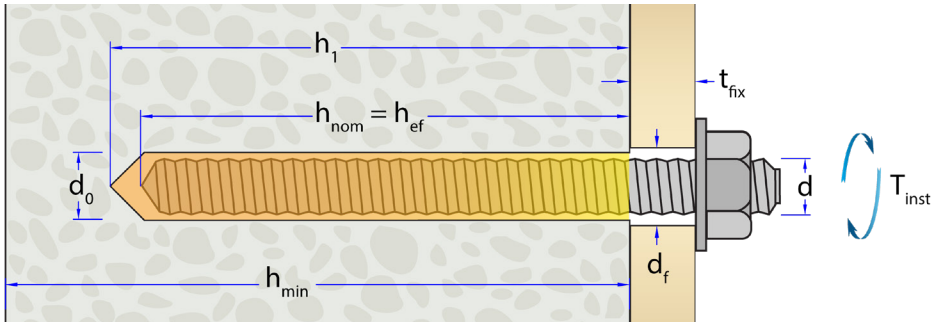

RANGE DATA			
Part Number	Thread Diam (d) mm	Stud Length (L) mm	Features
Stainless Steel Grade A4/316 Chisel End Studs			
JSTUD08110SSA4	M8	110	 • Stainless Steel Grade A4/316 • Property Class 70 • Chisel End Studs • Hex Head with Setting Tool Included • Depth Mark for Standard Embedement Depth
JSTUD10130SSA4	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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