

Brick & Concrete Block Application

JF380PSF (410ml)



Also available in 150ml Cartridges (JF150P). Suitable for use in standard mastic applicators

Product Information

The Polyester Styrene Free 2 Part injection resin is suitable for use in solid concrete, solid brickwork and natural stone as well as hollow materials using a suitable sleeve. It can be used for installing threaded studs, rebar or internal threaded sockets.

Features

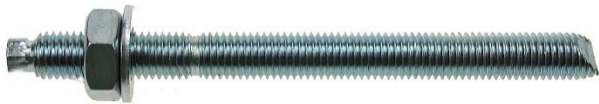
Expansion free
High loads
Close Spacing and Edge Distance
Can be used in dry and wet conditions

Range Data



Grade 5.8 Plain End Studs
Zinc plated & clear passivated min 5µm

Part Number	Thread Diam	Stud Length	Drill Hole Diam.	Fixture Clearance Hole	Shallow Embedment		Deep Embedment		Tightening Torque
					Maximum Fixture Thickness	Minimum Hole Depth	Maximum Fixture Thickness	Minimum Hole Depth	
		mm	mm	mm	mm	mm	mm	mm	Nm
JSTUD08150PE	M8	150	10	10	80	64	44	96	10
JSTUD10105PE	M10	105	12	12	13	80	10	120	20
JSTUD10150PE		150			58		20		
JSTUD10200PE		200			108		70		
JSTUD12110PE	M12	110	14	14	25	96	10	85	40
JSTUD12150PE		150			39		50		
JSTUD12200PE		200			89		41		



Grade 5.8 Chisel End Studs
Zinc plated & clear passivated min 5µm

Part Number	Thread Diam	Stud Length	Drill Hole Diam.	Fixture Clearance Hole	Maximum Fixture Thickness	Hole Depth	Tightening Torque
		mm	mm	mm	mm	mm	Nm
JSTUD08110	M8	110	10	10	18	80	10
JSTUD10130	M10	130	12	12	25	90	20
JSTUD12160	M12	160	14	14	34	110	40

For other Chisel Point Stud finishes use the following suffixes
Hot Dipped Galvanised = G, High Tensile = HT, Stainless Steel A2 = SS, Stainless Steel A4 = SSA4



Perforated sleeve for M8, M10 & M12 Studs

Part Number	Sleeve Size	Drill Hole Diameter	Hole Depth	Stud Size
	mm	mm	mm	
JNSLM08/12	15 x 85	16	90	M8, M10 & M12
JNSLM08/12L	15 x 130	16	135	M8, M10 & M12

Brick & Concrete Block Application

Recommended Loads for Solid Brick (20N/mm²)

Thread Diameter	Drill Hole Diameter	Hole Depth	Characteristic Resistance		Design Resistance		Recommended Resistance		Tightening Torque
			Tensile	Shear	Tensile	Shear	Tensile	Shear	
	mm	mm	kN		kN		kN		Nm
M8	10	80	4.6	5.7	2.1	4.1	1.5	2.9	3
M10	12	90	9.2	9.6	4.2	6.8	3.0	4.8	6
M12	14	110	12.7	13.5	5.8	9.7	4.2	6.9	10

Recommended Loads for Solid Concrete Block (7N/mm²)

Thread Diameter	Drill Hole Diameter	Hole Depth	Characteristic Resistance		Design Resistance		Recommended Resistance		Tightening Torque
			Tensile	Shear	Tensile	Shear	Tensile	Shear	
	mm	mm	kN		kN		kN		Nm
M8	10	80	4.6	3.4	2.1	2.4	1.5	1.7	3
M10	12	90	9.2	5.7	4.2	2.7	3.0	1.9	6
M12	14	110	12.7	8.0	5.8	3.8	4.2	2.7	10

Recommended Loads for Hollow Brick and Block

Thread Diameter	Drill Hole Diameter	Hole Depth	Characteristic Resistance		Design Resistance		Recommended Resistance		Tightening Torque
			Tensile	Shear	Tensile	Shear	Tensile	Shear	
	mm	mm	kN		kN		kN		Nm
M8	16	90	3.5	4.9	1.6	3.5	1.2	2.4	3
M10	16	90	7.2	8.3	3.3	5.9	2.4	4.2	6
M12	16	90	8.8	11.6	4.0	8.4	2.9	6.0	10

Hollow installation is using perforated sleeves

NOTES

Loads are for any direction

Only 1 fixing per brick is recommended

Do not fix closer than 1 brick away from a free edge

Due to the variable nature of brick and blocks these figures are for guidance only

For safety critical applications a site test is recommended

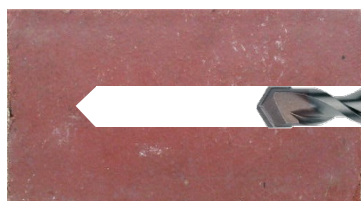
Cure time

Base Material [°C]	T Work [mins]	T Load [mins]
Min +5	18	145
+5 to +10	10	145
+10 to +20	6	85
+20 to +25	5	50
+25 to +30	4	40
+30	4	35

T work is typical gel time at highest temperature

T load at lowest temperature

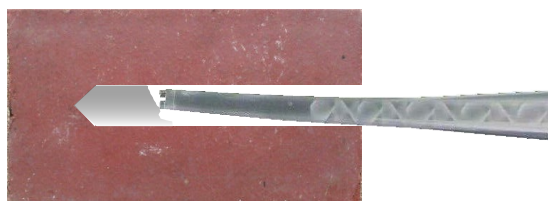
Solid Brick and Block Installation



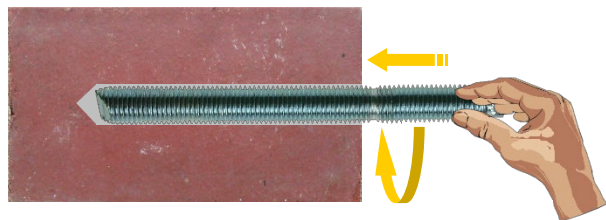
Drill correct diameter hole to correct depth



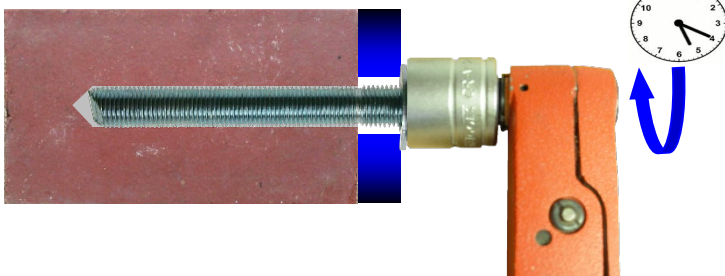
Clean hole
Blow x 2,
Brush x 2
Blow x 2
Brush x 2
Blow x 2



Attach nozzle to cartridge
 Extrude first part to waste until an even colour is achieved
 Fill hole 1/3 to 1/2 full starting from the bottom of the hole

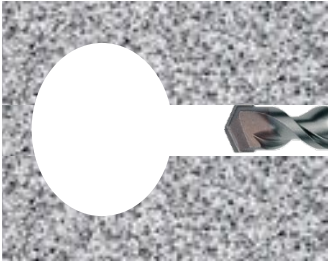


Insert stud by hand using a downward twisting motion

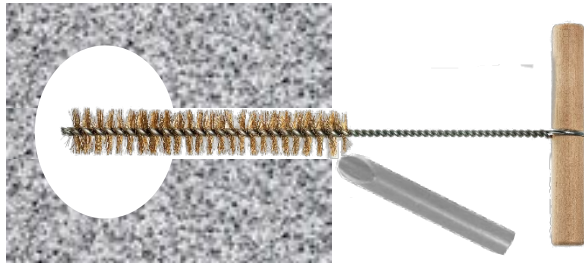


Allow resin to cure
 Attach fixture
 Tighten with torque wrench to recommended torque

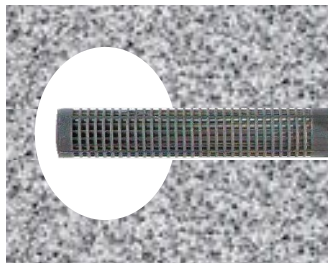
Hollow Brick and Block Installation



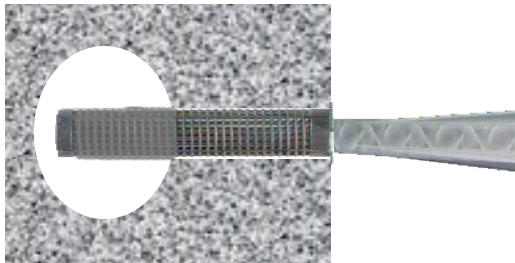
Drill 16mm diameter hole 90mm deep



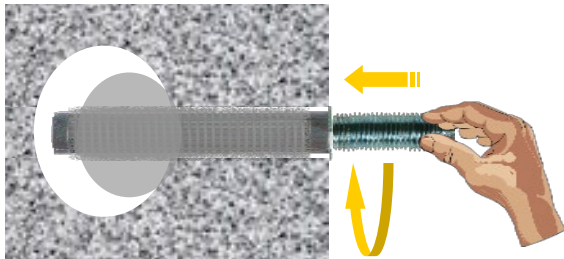
Clean hole
Blow x 2,
Brush x 2
Blow x 2
Brush x 2
Blow x 2



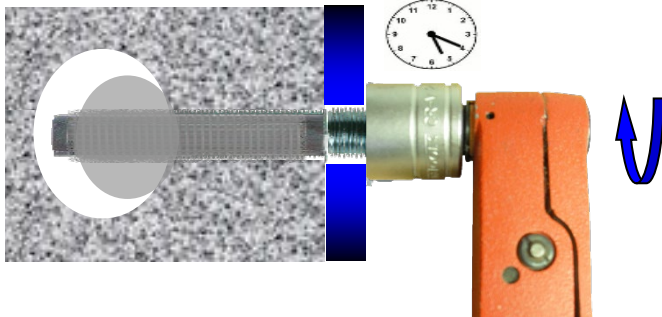
Insert perforated sleeve



Attach nozzle to cartridge
 Extrude first part to waste until an even colour is achieved
 Fill sleeve to top, starting from bottom of the sleeve



Insert stud by hand using a downward twisting motion



Allow resin to cure
 Attach fixture
 Tighten with torque wrench to recommended torque