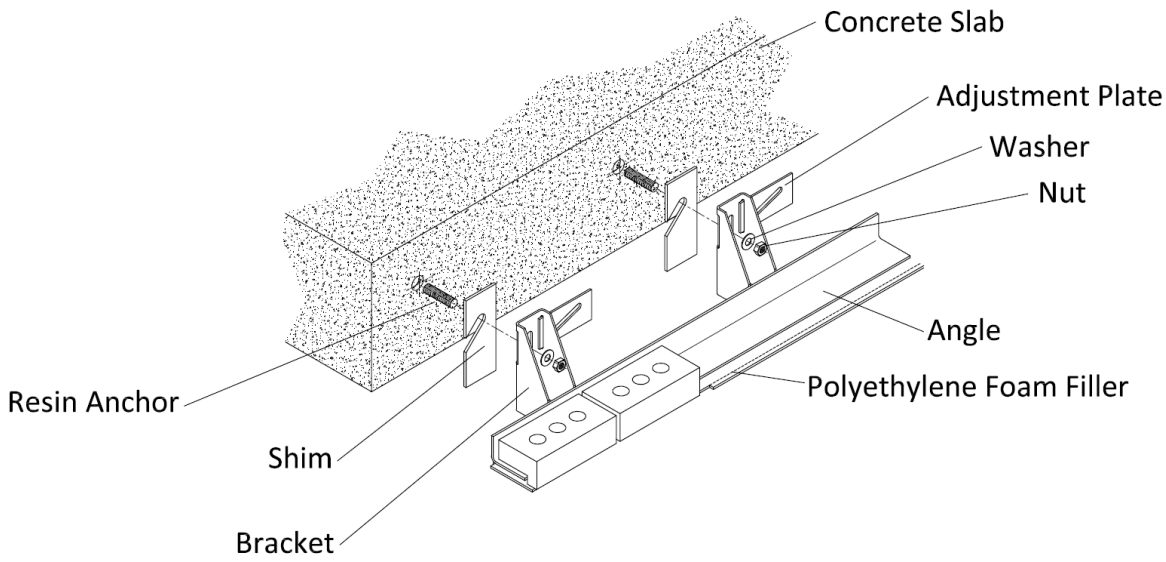
BAT Engineering Systems

INSTALLATION GUIDE

Where fixing to Concrete Slab with Resin Anchor and R-KF2/KSF Rawl cartridge

BAT ENGINEERING MASONRY SUPPORT SYSTEMS



Material
1.4301 Austenitic Stainless Steel to BS EN 10088-2 : 2005.

Standards and Conformity
Complies with:
BS 5628-1 Code of Practice Use of Masonry - Part 1 : Structural use of unreinforced masonry

Features
BAT Masonry Support Systems are manufactured using a plasma cutter to produce smooth edges which ensures safe handling on site. All Masonry Support systems are designed specific to each project by Expamet Construction's in house design team, each system is designed using bespoke calculation software. A site layout plan will be issued for approval prior to manufacture. All BAT Masonry Support systems will be delivered to site with the identification number clearly marked on each piece. The number can be used in conjunction with any layout drawings that have been supplied to aid location and installation. The BAT Masonry support also has factory applied polyethylene foam joint filler, helping to speed up the site installation process. The fixings for the system are bagged and attached to it in the factory which will not only minimise time on site but will ensure that the correct fixings are used. The palletised delivery will be clearly labelled making location and on-site distribution quick and easy.
Horizontal adjustment can be achieved by using shims. When using shims please note that a combined thickness of 12mm or the fixing diameter should not be exceeded whichever is less. No more than three shims should be used on each bracket. Vertical adjustment is provided by the Expamet Construction adjustment plate, the plate can be adjusted sideways to move the bracket higher or lower by 20mm.

EXPAMET CONSTRUCTION

Expamet Building Products Limited, Greatham Street, Longhill Industrial Estate (North) Hartlepool TS25 1PU
Telephone : 01429 866611 Fax : 01429 866622 Email : info@expamet.net

FM 36694 EMS 45225

C4

D6

BAT Engineering Systems

DATA SHEET

Injection Resin Bolt Installation Instructions

Drill the hole in the concrete using the hole in the fixture as a template. Ensure that the hole is of the correct depth and diameter using the table below. The hole must be clean and free from dust and debris using the method stated below.

Hole position to be strictly in accordance with Expamet Construction project drawings. Edge distance and spacing to be as below unless noted otherwise. Make sure that the bolt is of the right diameter and length prior to installation.

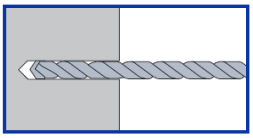
Stud Thread Size	Hole Diameter In Concrete	Standard Embedment Depth	Recommended Torque (Nm)	Spacing	Edge Distance
M10	12	90	9	90	90
M12	14	110	17	110	110
M16	18	125	36	130	130

Plastic Sleeves

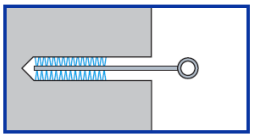
STUD SIZE (mm)	HOLE DIAMETER IN STRUCTURE (mm)
M6/M8	16
M6/M8	16
M10	16
M10	16
M12/M16	20
M12/M16	20

Installation

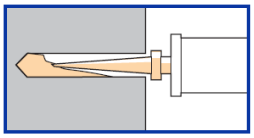
INSTALLATION
Solid substrates



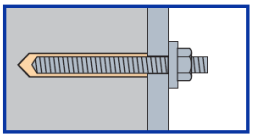
1. Drill hole to correct diameter and depth for stud size being used.



2. Clean the hole using brush and air three times.

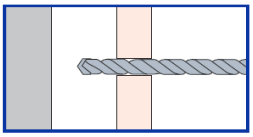


3. Insert cartridge into cartridge gun and attach nozzle. Dispense to waste until an even colour and then pump into hole.

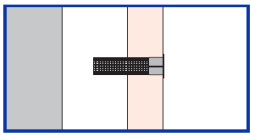


4. Insert stud or socket with a twisting action. Leave the anchor undisturbed until the resin has cured and then attach fixture.

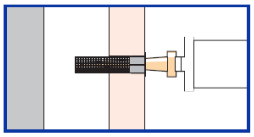
INSTALLATION
Hollow substrates & substrates with voids



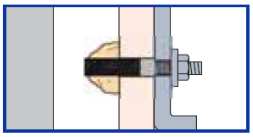
1. Drill hole to correct diameter and depth for mesh sleeve size being used.



2. Insert sleeve into hole.



3. Insert cartridge into cartridge gun and attach nozzle. Dispense to waste until even colour. Then insert nozzle and pump to fill sleeve.



4. Insert stud or socket with a twisting action. Leave the anchor undisturbed until the resin has set and then attach fixture.

EXPAMET CONSTRUCTION

Expamet Building Products Limited, Greatham Street, Longhill Industrial Estate (North) Hartlepool TS25 1PU
Telephone 01429 866611 Fax 01429 866622 Email info@expamet.net

FM 36694 EMS 45225

BAT ENGINEERING MASONRY SUPPORT SYSTEMS

Expamet Health & Safety Data Sheet to be read in conjunction with Masonry Support Installation

Expamet Health and Safety

1. IDENTIFICATION
Expamet Building Products Limited
Greatham Street
Longhill Industrial Estate (North)
Hartlepool TS25 1PU
United Kingdom
Tel: +44 (0)1429 866688
Fax: +44 (0)1429 866633

2. COMPOSITION
Stainless steel 1.4301 to BS EN 10088-1: 2005

3. HAZARDS IDENTIFICATION
Possible cuts from steel edges.
Toxic and irritant fumes from high temperatures.

4. FIRST AID MEASURES
Skin and eye contact: treat cuts from steel edges as required.
Ingestion: not applicable.
Inhalation: remove from source of fumes and dust.

5. FIRE FIGHTING MEASURES
Non-flammable material.

6. ACCIDENTAL RELEASE MEASURES
Not applicable.

7. HANDLING AND STORAGE
Although Expamet Construction manufacture BAT Masonry Support Systems on a plasma cutter which produces smooth edges which ensures safe handling on site Please note suitable personal protective equipment should be worn at all times during handling and installation. Use suitable PPE when handling all products. Assess manual handling risks before lifting. All products should be stacked on firm level ground in dry conditions.

8. EXPOSURE CONTROLS
Wear personal protection such as gloves and safety goggles when handling products.
Some products may have a film of soluble cutting fluid after manufacture; therefore carry out personal hygiene, including proper washing of hands, after contact.

9. PHYSICAL AND CHEMICAL PROPERTIES
Construction products are supplied in various lengths, widths and gauges. Metallic grey appearance.

10. STABILITY AND REACTIVITY
All products are stable under normal conditions but if subjected to high temperatures, fumes are produced.

11. TOXICOLOGICAL INFORMATION
High temperatures can produce fumes.

12. ECOLOGICAL INFORMATION
No known hazard.

13. DISPOSAL CONSIDERATIONS
Recycle or dispose of in accordance with Waste Management Licensing Regulations.

14. TRANSPORT INFORMATION
Not classified as hazardous for transport.

15. REGULATORY INFORMATION
Construction products are articles therefore not subject to CHIP3.

16. OTHER INFORMATION
All products must be installed in accordance with Expamet Building Product's published instructions.
This Health and Safety Data Sheet is not a product specification guide.

Any arrangement of Expamet Construction products shown in this datasheet is indicative only. Actual fixing installations must comply with current Health and Safety requirements.

Expamet operates a continuous development programme and we reserve the right to amend specification with prior notification