

MASONRY ANCHORS

NCC COMPLIANT AS5216 CONFORMING

CHEMICAL INJECTION BREMFIX POLYESTER

Range M8 - M24

Stainless Steel Studs External & marine applications

FEATURES & BENEFITS

- Ideal for non critical applications.
- Intended working life of 50 years.
- ETA rating Option 7 for sizes M8 M16.
- VOC A+ rating.
- WRAS Approved for potable drinking water.
- LEED Compliance.
- Suitable for dry, wet & flooded holes.
- Fast turnaround time.

APPLICATIONS/TRADES

- Medium duty connections to concrete.
- Close to edge fixings handrails, balustrades.





COMPLIANCE







OPTION 7 Uncracked Concrete

TECHNICAL DATA SHEET

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| RANGE | | | | | | | |
|---|---|--------------------|---|-------|--|--|--|
| Chemical Injection - Product Code & description | Anchor thread size & drill hole dimensions | ETA Cert'n level | # fixings per cartridge (per below Range tables) | | | | |
| | | | 300ml | 410ml | | | |
| ACIPCSF3002 | M8 (10 x 80mm hole) | | 75 | 100 | | | |
| BremFix Polyester Chemical Injection - | M10 (12 x 90mm hole) | Option 7 - | 50 | 67 | | | |
| 300ml cartridge | M12 (14 x 110mm hole) | Uncracked Concrete | 32 | 42 | | | |
| ACIPCPR4102 | M16 (18 x 125mm hole) | | 20 | 26 | | | |
| BremFix Polyester Chemical Injection - | M20 (22 x 170mm hole) | Not FTA Costified | 12 | 15 | | | |
| 410ml cartridge | M24 (28 x 210mm hole) | Not ETA Certified | 6 | 8 | | | |

| Chemical Anchor Stud - Product Code | Pack Qty | Thread size | Anchor length (mm) | Drill hole Ø (mm) | Drill hole depth (mm) | Minimum concrete thickness (mm) | Maximum fixture thickness (mm) | Fixture clearance hole Ø (mm) | |
|---|--|----------------|--------------------------|----------------------|--------------------------|--|---|-------------------------------------|--|
| | | | ١ _t | d | h ₁ | h _{min} | t _{fix, max} | d _f | |
| Chemical Anchor | Chemical Anchor Studs (Property Class 5.8) | | | | | | | | |
| ACSM6081102 | 10 | M8 | 110 | 10 | 80 | 110 | 15 | 10 | |
| ACSM6101302 | 10 | M10 | 130 | 12 | 90 | 120 | 20 | 12 | |
| ACSM6121602 | 10 | M12 | 160 | 14 | 110 | 140 | 25 | 14 | |
| ACSM6161902 | 10 | M16 | 190 | 18 | 125 | 160 | 35 | 18 | |
| ACSM6202602 | 5 | M20 | 260 | 22 | 170 | 220 | 50 | 22 | |
| ACSM6243002 | 5 | M24 | 300 | 28 | 210 | 260 | 55 | 26 | |

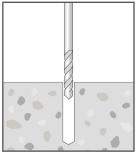
M20 & M24 sizes not ETA certified.

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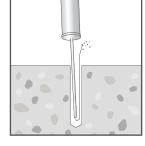
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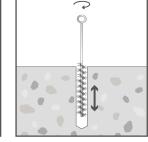
INSTALLATION



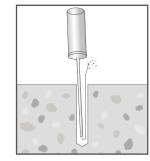
Drill hole into substrate to the specified diameter and depth using a rotary hammer drill and correctly sized carbide bit.



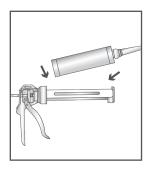
Blow out from the base of the drill hole at least 4 times until removed air is free of noticeable debris. For drill holes up to 22mm diameter - a manual blower pump may be used to clean the hole. For larger diameter holes - compressed air cleaning must be used and may also be used for smaller holes.



Brush 4 times with a wire brush (its diameter should be greater than the drill hole diameter) - inserting the brush to the base of the hole and withdrawing it with a twisting motion. If no resistance is felt during this step, the brush is worn replace it.



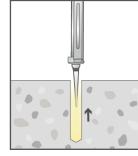
Blow out again at least 4 times.



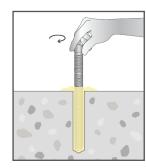
Insert the cartridge into the dispenser and screw the correct mixing nozzle onto the cartridge.



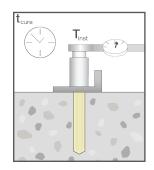
Prior to dispensing into the anchor hole, squeeze out a 10cm length bead of material and discard. The adhesive should now have a consistent, uniform color indicating correct mixing is occurring.



With the cartridge nozzle tip at the base of the cleaned drillhole,injectadhesiveuntil the hole is approximately 2/3 full. Slowly withdraw the nozzle from the hole whilst injecting, keeping the nozzle tipimmersed in the adhesive. This will avoid creating air pockets within the adhesive.



Ensure the anchor stud is clean and free of contaminants, grease etc. Push the anchor stud into the adhesive - slowly rotating the stud until it is seated against the base of the hole. An excess of adhesive around the top of the hole indicates sufficient materialwasinjected into the hole, otherwise remove the anchor stud and renew the hole with adhesive.



All steps prior must be completed within the working time of the adhesive. Protect the anchor from disturbance until the full curing time has been reached. Once full cure is achieved, carefully place the fixture and apply the specified installation torque.

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PRODUCT INSTALL & PERFORMANCE INFORMATION

| | | | | | | | Design C | apacities | |
|---|--|---|-----------------------------|--|---------------------------|----------------------------------|--|---------------------------------------|--|
| Chemical Anchor Stud - Product Code | Anchor length (mm) | Maximum fixture thickness (mm) | Drill hole depth (mm) | Minimum concrete thickness (mm) | Socket size AF (mm) | Installa- tion torque (Nm) | Uncracked concrete - tension (kN) | Uncracked concrete - shear (kN) | |
| | l _t | t _{fix, max} | h ₁ | h _{min} | SW | T _{inst} | N _{Rd} | V _{Rd} | |
| Chemical Anchor | Chemical Anchor Studs (Property Class 5.8) | | | | | | | | |
| ACSM6081102 | 110 | 15 | 80 | 110 | 13 | 10 | 5.7 | 8.3 | |
| ACSM6101302 | 130 | 20 | 90 | 120 | 17 | 20 | 7.4 | 12.8 | |
| ACSM6121602 | 160 | 25 | 110 | 140 | 19 | 40 | 9.9 | 19.2 | |
| ACSM6161902 | 190 | 35 | 125 | 160 | 24 | 60 | 10.3 | 35.3 | |
| ACSM6202602 | 260 | 50 | 170 | 220 | 30 | 120 | Not ETA | certified | |
| ACSM6243002 | 300 | 55 | 210 | 260 | 36 | 160 | Not ETA certified | | |

Note:

Installation in accordance with this Technical Data Sheet.

Concrete cylinder compressive strength = 32MPa.

Single anchor capacity - no nearby edge, minimum recommended concrete thickness

In service temperature range I.

Hammer drilled holes.

For combined load cases (tension & shear) - must also comply with $(N^* / N_{Rd}) + (V^* / V_{Rd}) \le 1.2$.

To address specific design cases, please refer to the product ETA document and Bremick for further details.

Important Disclaimer: Product performance information contained herein is based on ETA certificate data and AS5216:2021 inputs as appropriate. Capacity information is limited to very simple load case configurations and is provided to enable a relative comparison within and across product ranges. The design of an anchoring solution for a particular application should be conducted by an appropriately qualified design professional.

MINIMUM GEL & CURING TIMES

| Concrete substrate Gel / working time | | Minimum curing time - dry concrete hole | Minimum curing time - wet concrete hole | | | |
|---|------------|--|--|--|--|--|
| $-5^{\circ}C \le substrate < 0^{\circ}C$ | 40 minutes | 180 minutes | 360 minutes | | | |
| $0^{\circ}C \le substrate < 10^{\circ}C$ | 20 minutes | 90 minutes | 180 minutes | | | |
| $10^{\circ}C \le substrate < 20^{\circ}C$ | 9 minutes | 60 minutes | 120 minutes | | | |
| $20^{\circ}C \le substrate < 30^{\circ}C$ | 5 minutes | 30 minutes | 60 minutes | | | |
| $30^{\circ}C \le substrate < 40^{\circ}C$ | 3 minutes | 20 minutes | 40 minutes | | | |
| | | | | | | |

Cartridge / adhesive temperature $\ge 20^{\circ}C$

Whilst every care was taken in the preparation of this publication, Bremick® accepts no responsibility for the accuracy of the information supplied. Bremick® reserves the right to make alterations to product specifications as part of ongoing product development and improvement. This publication serves as a guide and it's the responsibility of the end user to ensure product suitability for their application. The contents of this publication are the exclusive copyright of Bremick® and may not be reproduced without permission.

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