BIS-P GEN2 & BIS-V







TDS | 2028.3

Grout Filled Masonry Blockwork BIS-P Gen2 & BIS-V





NOTE**

While the application for Grout Filled Blockwork only requires the performance of PolyPRO & Vinylester, Information contained in this data sheet is also applicable when threaded rod is used with ICCONS extreme performance adhesives BIS PE GEN3 and







Limit State Design Loads in Grout Filled Masonry Blockwork

| Rod Size | Hole Size (mm) | Embedment | | Blockwork |
|-----------|--------------------|------------|------------------------------|----------------------------|
| 1100 3120 | 11016 3126 (11111) | Depth (mm) | фN _A Tension (kN) | ф∨ _A Shear (kN) |
| M8 | 10 | 80 | 6.2 | 7.2 |
| M10 | 12 | 90 | 11.8 | 9.0 |
| M12 | 14 | 110 | 16.5 | 14.1 |
| M16 | 18 | 125 | 17.6 | 16.0 |

Limit State Design Loads published incorporate a safety factor of 1.8.

Recommended Loads in Grout Filled Masonry Blockwork

| Rod Size | Hole Size (Mm) | Sleeve Size | Grout Filled Blockwork | |
|----------|----------------|-------------|-------------------------------|-----------------------------|
| | | | N _{rec} Tension (kN) | ∨ _{rec} Shear (kN) |
| M8 | 10 | 80 | 3.4 | 4.0 |
| M10 | 12 | 90 | 6.6 | 5.0 |
| M12 | 14 | 110 | 9.2 | 7.8 |
| M16 | 18 | 125 | 9.8 | 8.9 |

Recommended Loads published incorporate a safety factor ≥3.

Notes: Block: $400 \times 200 \times 200 mm$ Block compressive strength $\geq 10 MPa$, Grout Compressive strength $\geq 20 MPa$

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Edge Distance and Spacing Parameters for Grout Filled Masonry Blockwork

| Rod Size | M8 | M10 | M12 | M16 |
|----------------------|-------|-------|-------|-------|
| Edge Distance (min.) | 120mm | 135mm | 150mm | 150mm |
| Spacing (min.) | 240mm | 270mm | 300mm | 300mm |

Design Guidelines - Grout Filled Masonry Blockwork

The performance of anchoring systems into masonry may vary greatly depending on the masonry base material, job site testing is recommended to verify actual performance. The above data is intended for guidance only and based on installation in accordance with ICCONS® installation instructions, refer to the adhesive product tube for details or go to www.iccons.com.au.

- When fixing into grout filled masonry blockwork, position anchors a minimum edge distance from wall end or wall
 opening as per table guidelines above.
- Minimum recommended spacing between anchors should be as per table guidelines above.
- Embedment should be limited to within 30 to 40 mm of the remote face of the block/ brick.
- Anchors should be positioned 2 block courses down from the top of an unrestrained wall.
- Avoid fixing into mortar joints unless site testing has been conducted to verify performance.

Combined Tension & Shear Loading

For Combined tension and shear load applications the following equations shall be satisfied

 $N_{annlied}/N_{rec} \le 1$ $V_{annlied}/V_{rec} \le 1$ $(N_{annlied}/N_{rec}) + (V_{annlied}/V_{rec}) \le 1.2$

Where:

 $N_{applied}$ = Applied Tension Load $V_{applied}$ = Applied Shear Load

 N_{rec} = Recommended Tension Load V_{rec} = Recommended Shear Load

Specification Example

Adhesive: BIS-P Gen2 Injection System

Rod Size: M12 (Drill size 16mm)

Adhesive: BIS-V Injection System

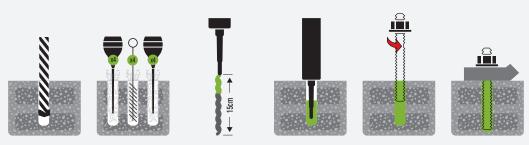
Rod Size: M12 (Drill size 16mm)

Installation to be done in accordance with ICCONS Grout Filled Masonry Blockwork Installation Instructions

Note: For full range and sizes available refer to ICCONS® IPG Product Guide or visit www.iccons.com.au

Installation instructions

Grout Filled Masonry Blockwork



For new cartridges dispense a bead of adhesive until even and consistent colour is present to ensure correct mix of adhesive.