



Hollow Masonry BIS-P Gen2 & BIS-V



Limit State Design Loads in Hollow Masonry Blockwork

Rod Size	Hole Size (mm)	Sleeve Size	Hollow Masonry Blockwork	
			ϕN_A Tension (kN)	ϕV_A Shear (kN)
M8	12	CSP08050	5.0	5.0
M10	16	CSP1012085	5.5	5.5
M12	16	CSP1012085	6.1	6.1

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

Recommended Loads in Hollow Masonry Blockwork

Rod Size	Hole Size (mm)	Sleeve Size	Hollow Masonry Blockwork	
			N_{rec} Tension (kN)	V_{rec} Shear (kN)
M8	12	CSP08050	2.8	2.8
M10	16	CSP1012085	3.1	3.1
M12	16	CSP1012085	3.4	3.4

Recommended Loads published incorporate a safety factor ≥ 3 .

Notes: Block: 400 x 200 x 200mm
Block compressive strength ≥ 10 MPa



Edge Distance and Spacing Parameters for Hollow Masonry Blockwork

Rod Size	M8	M10	M12	M16
Edge Distance (min.)	120mm	135mm	150mm	150mm
Spacing (min.)	200mm (one anchor per masonry block)			

Design Guidelines - Hollow 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 hollow 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 is based on installation into the face shell of the blockwork only.
- 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

$$N_{\text{applied}} / N_{\text{rec}} \leq 1 \quad V_{\text{applied}} / V_{\text{rec}} \leq 1 \quad (N_{\text{applied}} / N_{\text{rec}}) + (V_{\text{applied}} / V_{\text{rec}}) \leq 1.2$$

Where:

- N_{applied} = Applied Tension Load
- N_{rec} = Recommended Tension Load
- V_{applied} = Applied Shear Load
- V_{rec} = Recommended Shear Load

Specification Example

Adhesive : BIS-P Gen2 Injection System

Rod Size : M12 (Drill size 16mm)

Plastic Sleeve Part No. : CPS1012085

Adhesive : BIS-V Injection System

Rod Size : M12 (Drill size 16mm)

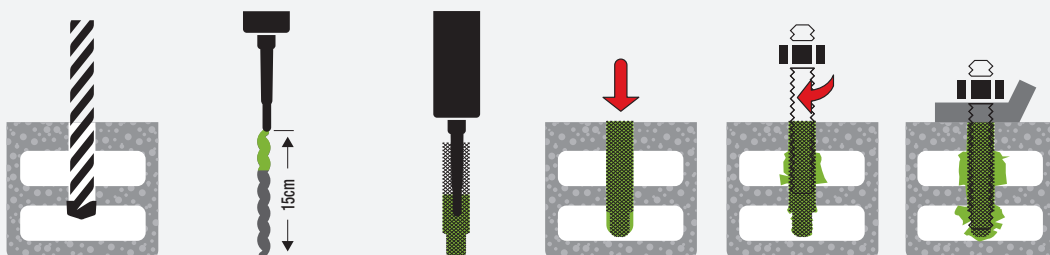
Plastic Sleeve Part No. : CPS1012085

Installation to be done in accordance with ICCONS Hollow 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

Hollow Masonry Blockwork



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