



Brickwork BIS-P Gen2 & BIS-V



Recommended Loads in Brickwork - 3 Hole & 10 Hole Brick

Rod Size	Hole Size (mm)	Anchor Embedment Depth (mm)	Mesh Sleeve* - Required Dia. x Length (mm)	Brickwork			
				3 Hole Brick ($\geq 30\text{MPa}$)		10 Hole Brick ($\geq 15\text{MPa}$)	
				Tension (kN)	Shear (kN)	Tension (kN)	Shear (kN)
M8	12	65	11 x 65	2.9	3.8	0.8	2.4
M10	16	65	15 x 65	2.9	4.2	0.9	2.7
M12	16	65	15 x 65	3.2	4.2	0.9	2.7
M16	22	65	21 x 65	3.2	4.2	0.9	2.7

Recommended Loads published Incorporate a safety factor ≥ 3 .

*Mesh Sleeves should be cut to the required length prior to use

Recommended Loads in Brickwork - Solid Brick

Rod Size	Hole Size (mm)	Anchor Embedment Depth (mm)	Brickwork - Solid Brick	
			Tension (kN)	Shear (kN)
M8	10	65	2.9	4.2
M10	12	65	4.1	4.5
M12	14	65	4.8	4.5
M16	18	65	4.8	4.5

Recommended Loads published Incorporate a safety factor ≥ 3 .



Edge Distance and Spacing Parameters for Brickwork

Rod Size	M8	M10	M12	M16
Edge Distance (min.)	350mm			
Spacing (min.)	250mm			

Design Guidelines - Brickwork

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

- When fixing into brickwork, position anchors a minimum four brick courses down from the top of an unrestrained wall.
- Minimum recommended spacing between anchors should be 250mm (minimum).
- Embedment is based on installation into the face shell of the brickwork only.
- Limit anchor embedment to within 40mm of the remote face of the brickwork to avoid brick blow-out.
- Avoid fixing into mortar joints unless site testing has been conducted to verify performance.
- Do not fastener into the last brick unit on the edge of a wall.

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	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)

Mesh Sleeve Part No. : CSM161000

Adhesive : BIS-V Injection System

Rod Size : M12 (Drill size 16mm)

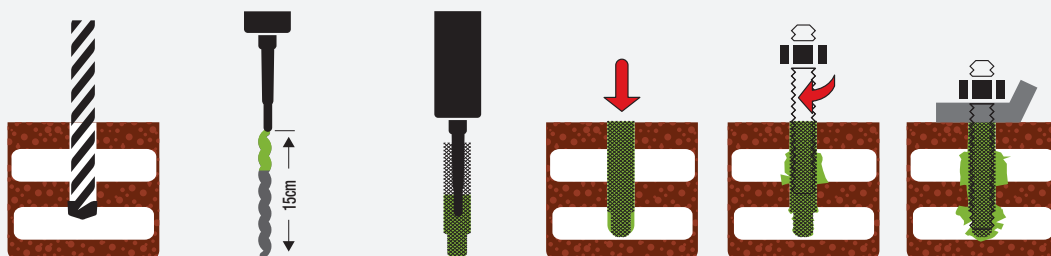
Mesh Sleeve Part No. : CSM161000

Installation to be done in accordance with ICCONS Brickwork Installation Instructions

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

Installation instructions

Brickwork



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