

1.2 substrate fastener recommendations

WARNING! Coach bolts/screws are NOT suitable for windrated doors. Refer to High Wind drawings on the B&D Website for [Region A&B](#) or [Region C](#).

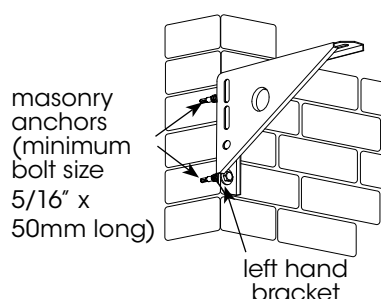
WARNING! The installer must select and use fasteners appropriate to the material into which they are being fixed.

important notes

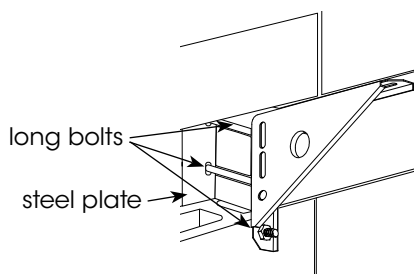
- a) For installation to materials not covered in the chart, the installer should seek expert advice from a qualified builder.
- b) Minimum length of fastener does not exclude use of longer lengths. Decision must be made by fitter to ensure adequate strength.
- c) Recommendations for old materials or materials not in good condition are not included. If in doubt about the strength of the material seek specialist advice.
- d) Fasteners for brackets in masonry should be at least 5/16" x 2.5" long or metric equivalent.
- e) Use the washers supplied in the parts bag to all fixings.

material	fastener type(s)	diameter or type	length of fastener (see note)	BKT	GUIDE
New Solid Brick	Coach Bolts (Hex Lag Screw) and washers - combined with wall plugs	5/16" x	1½"		•
		3/8" x	2"	•	•
	Macplugs (wall plugs) to suit above	5/16" x	50mm		•
		3/8" x	60mm	•	•
New Hollow Brick	HLC Sleeve Anchors (Dyna Bolts) with washers	12mm x	55mm	•	
		HRD-VGK or HGK-VGS (Hex Head) Frame Anchors with washers	10mm x	60mm	•
New Solid Concrete	Coach Bolts (Hex Lag Screw) and washers - combined with wall plugs	5/16" x	1½"		•
		3/8" x	2"	•	•
	Macplugs (wall plugs) to suit above	5/16" x	50mm		•
		3/8" x	60mm	•	•
Steel Framing e.g. BHP Framing (with rear access)	Hex Head Bolt Zinc Plated, Hexagon Nuts Zinc Plated, Washers Zinc Plated	5/16" x	1"		•
		3/8" x	1"	•	•
		10mm x	25mm	•	•
		12mm x	25mm	•	
Heavy Gauge Steel	Hex Head Tek and washers	14-20 x	22mm	•	•
Light Steel Framing e.g. BHP House Framing (no rear access)	Heavy Duty Kap Toggle	10mm x	100mm	•	•
		12mm x	100mm	•	
	Hex Head Tek and washers	6-10 x	20mm		•
New Timber	Coach Bolts (Hex Lag Screw) and washers	5/16" x	1½"		•
		3/8" x	2"	•	•
	Hex Head Tek and washers	14-10 x	50mm	•	•

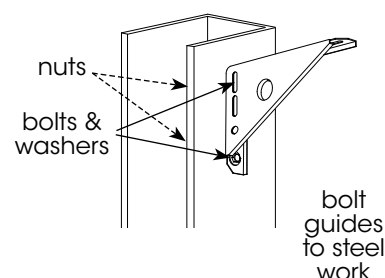
BRICK CONSTRUCTION



MASONRY BLOCK CONSTRUCTION



STEEL CONSTRUCTION



WARNING! Masonry blockwork should be properly filled and reinforced if brackets are to be mounted directly to blockwork with masonry anchors. Where the blockwork is not solidly filled but structurally sound, long bolts should be passed through the blockwork using suitable steel plates under bolt heads. Special consideration should be given to brick type and construction of wall, to ensure satisfactory fixing.

2.0 installation

2.1 install first bracket



For alternate brackets please refer to Appendix 3.1 fixing alternatives.

dimension panel							
installation	height (mm)	width (mm)	A*	B*	C	E	F
Recommended	up to 2400	up to 3150	185	185	430	230	200
	2401-3000	up to 3150	185	185	450	250	200
Restricted	up to 2400	up to 3150	115	85	395	230	165
	2401-3000	up to 3150	115	85	415	250	165
RTN Only	up to 2400	up to 3150	195	195	450	250	200
			125	95	450	250	
	2401-3000	up to 3150	195	195	470	270	
			125	110	470	270	
Windlocked	up to 2400	up to 3150	185	185	430	230	200
			140	130	450	250	
	2401-3000	up to 3150	185	185	450	250	
			140	130	450	250	

NOTE: All measurements are in millimeters (mm)
 *A Based on a Control-A-Door PowerDrive Opener.
 *B Alternate brackets have increased sideroom. Refer to Appendix 3.1.
 NOTE: Doors over 2400mm (have larger bracket)

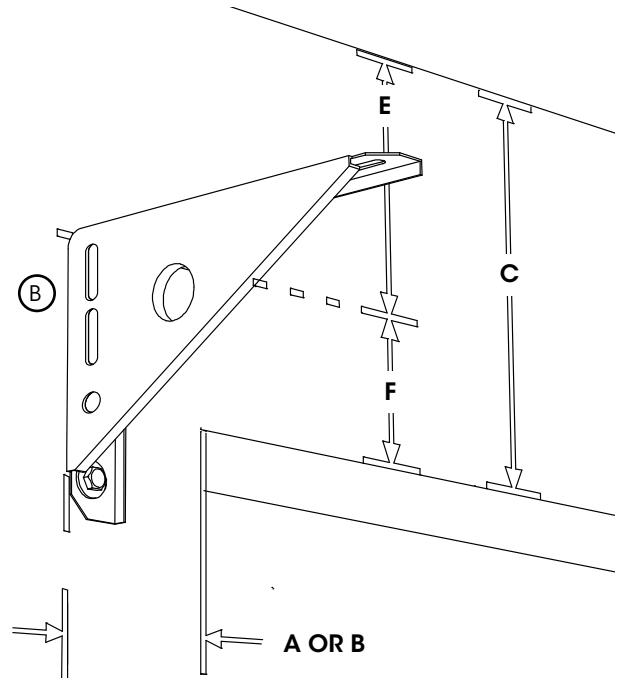


Fig: 2.1.1

WARNING! The installer must select and use fasteners appropriate to the material into which they are being fixed. Refer to Section 1.2 for recommendations.

tip Take note of drive through clearance heights in fig 1.4.2b as the bottom rail will hang into the opening on some doors, therefore reducing the opening.

- Use above diagram and table **Fig 2.1.1** for head and sideroom clearances.
- Mark two hole positions using top and bottom slots of the bracket **(B)**.
- Drill both holes, then attach bracket using large diameter washers with 2x100xM10 Anchor screws or equivalent.
- For fixing to steel jamb, drill two holes and fix bracket with 2 x hex set screws **(M)** with large washers **(J)** and nuts **(N)** if accessible for nuts. Otherwise use 3 x Teks Screws **(L)** and 3 x small washers **(K)**.

WARNING! The structure substrate must conform to High Wind compliance. Refer to bac.nt.gov.au for the DTCM Manual or B&D High Wind drawings for [Region A&B](#) or [Region C](#).

2.2 install second bracket

- Using a laser or water level, mark the position for the second bracket (**Fig 2.2.1**)
- Re-check levels then drill and fix as with first bracket.

CAUTION: The brackets must be perfectly level for the door to operate.

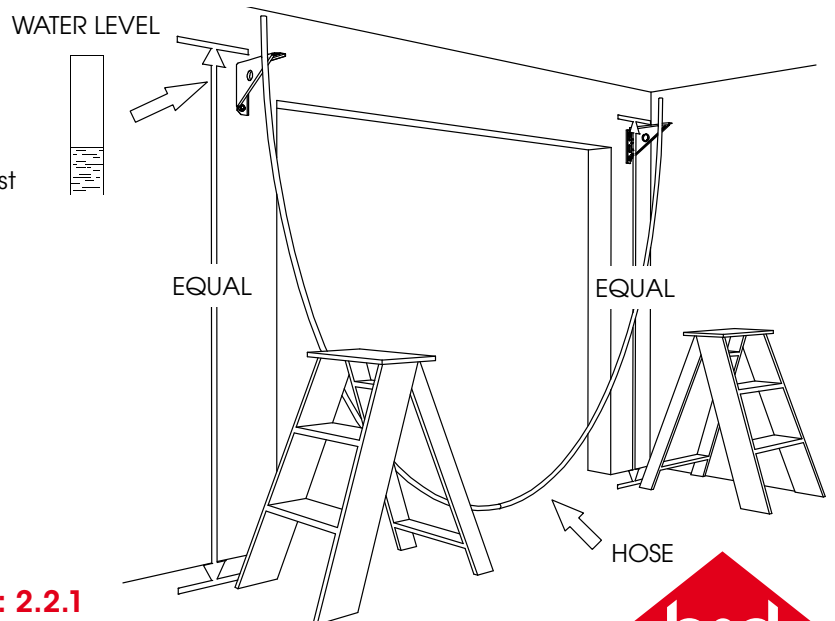


Fig: 2.2.1

