

How to secure fixtures and fittings to your Hebel walls

We are often asked about how to secure fittings to Hebel walls – items such as light fittings, taps, downpipes, clotheslines, hot water services and hose reels.

It's important to seek advice on your individual home from your builder or designer before drilling holes or securing any loads onto Hebel walls. Using the right fitting for the relevant fixture will help avoid damage occurring to the wall.

Common fixings for use with Hebel

Some of the most common fixings are covered in the following tables.

Fixings in Hebel for general use

	Screw and plug fixing	Hole Size	Min Screw Embedment	Max load per Fixing	Design Pullout Capacity	Design Shear Capacity	Suitable Hebel Material
	Hex head 14-10 Type 17 screw only	Do not pre drill	50mm	10kg	0.20 kN	0.20 kN	PP50 PPXL PB
	Hex Head 12-11 Type 17 screw and Ramset Ramplug 8x40	8mm	40mm	10kg	0.20 kN	0.20 kN	PP50 PPXL PB
	Hex Head 14-10 Type 17 screw and Ramset Ramplug 8x40	8mm	40mm	10kg	0.20 kN	0.20 kN	PP50 PPXL PB
	Hex head 14-10 Type 17 screw only	Do not pre drill	60mm	15kg	0.38 kN	0.30 kN	PP PB PP+ PF+

Notes:

1. Fixing to be minimum 100mm from edge of panel
2. Shear load to be along edge or towards inside of panel not towards edge.
3. Do not over tightness fixings
4. If screw embedment is more than hole depth then hole depth to be increased to match screw depth
5. In cases where panel thickness is less than plug length, hole depth to match panel thickness
6. Max load per fixing is the lower of pullout/shear capacity with a factor of safety of 2
7. PP PowerPanel (75mm), PPXL PowerPanel^{XL} (75mm), PP50 PowerPanel⁵⁰ (50mm), PB PowerBlock (75mm+), PP+ PowerPanel+ (125mm+), PF+ PowerFloor+ (150mm+)

	Screw and plug fixing	Hole Size	Min Screw Embedment	Max load per Fixing	Design Pullout Capacity	Design Shear Capacity	Suitable Hebel Material
	Hex Head 14-10 Type 17 screw and Ramset Ramplug 8x80	8mm	75mm	18kg	0.42 kN	0.37 kN	PPXL PP PB PP+ PF+
	Hex Head 14-10 Type 17 screw and Ramset Wallplug 7x50	6.5mm	50mm	19kg	0.44 kN	0.38 kN	PPP50 PP PB PP+ PF+
	Zenith M8 stainless steel coach screw and Ramset Ramplug 12x60	12mm	50mm	22kg	0.70 kN	0.43 kN	PPP50 PP PB PP+ PF+
	Zenith M8 stainless steel coach screw and Ramset Ramplug 12x60	11.5mm	70mm	27kg	0.78 kN	0.55 kN	PPXL PP PB PP+ PF+
	Ramset M8 stainless steel coach screw and Ramset Ramplug 10 x100	10mm	95mm	40kg	1.50 kN	0.80 kN	PP+ PF+

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