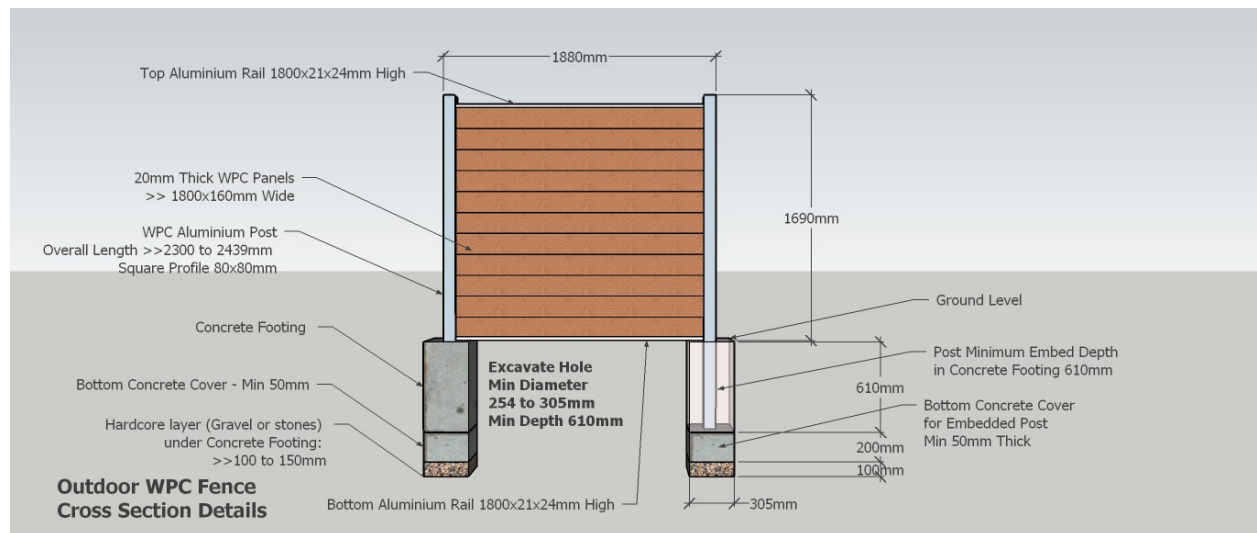


WPC Fence Installation – Construction Detailing Information

Material Specifications

Component	Description / Profile	Dimensions & Gauge	Fixing / Connection Details
Vertical Post	WPC Aluminium Post (Square profile with slots/channels on 3 faces)	Cross section: 80 × 80 mm Channel: 22 mm wide × 19 mm deep Material Thickness: 1.5 to 2.0 mm Overall Length: 2,300 to 2,439 mm	Embedded min. 610 mm deep in cast-in-situ concrete footing.
Infill Panels	WPC (Wood Plastic Composite) Tongue and Groove Interlocking Panels	Thickness: 20 mm Length: 1,800 mm Width: 160 mm or 155 mm	Slid vertically inside post channels and stacked horizontally.
Bottom Rail	U-shaped Horizontal Aluminium Rail / Channel	1,800 × 21 × 24 mm high Thickness: 0.5 mm	Fixed to post using L-shaped metal corner brace bracket.
Top Rail	U-shaped Horizontal Aluminium Rail / Channel	1,800 × 21 × 24 mm high Thickness: 0.5 mm	Fixed to post using L-shaped metal corner brace bracket.
Corner Braces	L-Shaped Metal Angle Bracket	2.5 mm thick 60 mm horizontal flange × 48 mm vertical flange × 16 mm wide	2 holes (5 mm dia.) on each flange (4 holes total); secured with self-drilling stainless steel screws into post and rail.
Post Cap	Aluminium / Composite Pyramid Roofed Cap	Internal: 80 × 80 mm External: 84 × 84 mm Base Height: 35 mm, Roof Height: 20 mm Overall Height: 55 mm	Fitted to top profile of 80 × 80 mm post.
Footing Concrete	Cast-in-situ wet concrete	Footing Dia: 254 to 305 mm Footing Depth: 610 to 914 mm	Cast against excavated earth or formwork; compacted with ramrods.
Sub-Base / Hardcore	Compacted gravel or stone layer	Thickness: 100 to 150 mm (4 to 6 inches)	Placed beneath bottom of concrete footing.



Post Installation Method — Underground Embedding.

Application: WPC fence panels supported by vertical aluminium posts, with top and bottom horizontal aluminium rails, L-shaped corner braces and cast-in-situ concrete post footings.