

# INSTALLATION INSTRUCTIONS: SINGLE BARS

## PLEASE READ THROUGH THESE INSTRUCTIONS BEFORE INSTALLATION

The towel rail is designed for drying towels and is intended for use in residential and hotel bathrooms. The towel rail must be installed in accordance with local wiring regulations and it is recommended, that it is installed at least 300mm above floor level.

### Electrical

- This product must be installed by a licensed electrician
- The 12v safety isolating transformer must be positioned in a dry, accessible location
- The distance from the towel rail to the transformer must be less than 2m
- A means for disconnection must be incorporated into the fixed wiring in accordance with AZ/NZS 3000:2000
- The waterproof wirenut connectors provide an IPX7 rating
- The towel rail can be installed in wet area zones 1, 2 and 3 as specified in AZ/NZS 3000:2000

### Wall preparation

Radiant towel rails can be fixed to any type of wall, timber stud or masonry. Stud walls require timber noggins at the correct position for the fixing bracket. Fixing to plasterboard or cement sheeting alone is not recommended.

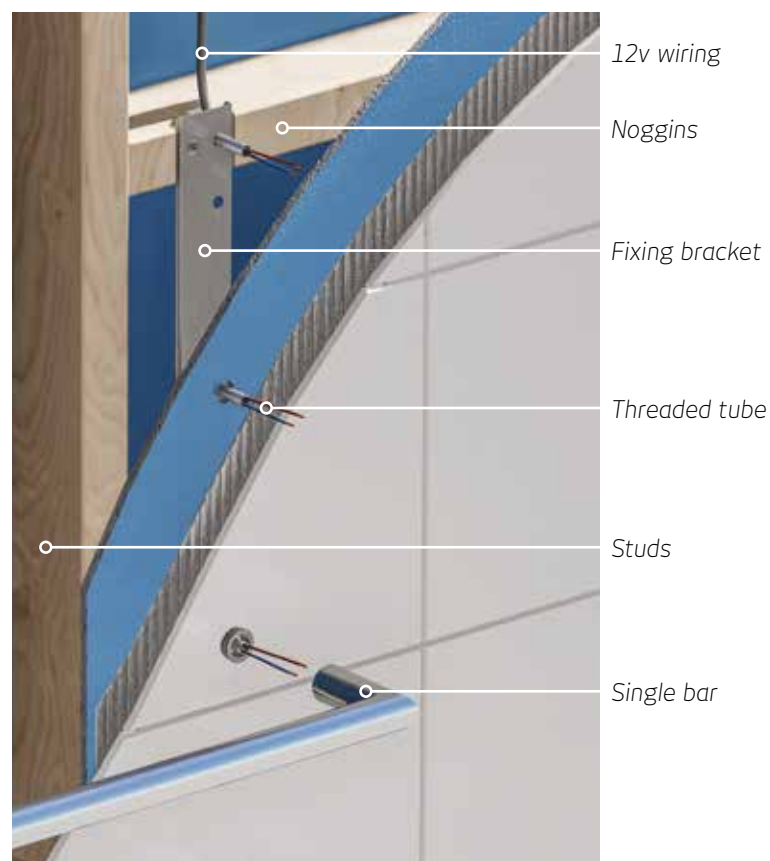
### Pre wiring

Determine which side (left or right) you would like the cable to enter the heated towel rails. As a general rule, the arm that is closest to the transformer and furthest from wet areas is the most suitable.

### Figure 1

Stud walls - the fixing bracket should be attached to the noggins, ensuring that it is perfectly vertical and in the correct position for attaching the single bar towel rails. Once the spacing of the towel rails has been determined (see fixing bar diagram for spacing options) screw the threaded tubes into the bracket at the desired positions. When the gyprock or sheeting is applied to the stud wall, corresponding holes should be drilled to allow the threaded tube to protrude through approximately 15mm beyond the finished wall surface (if the wall is being tiled, make allowance for the thickness of the tiles).

### Figure 1



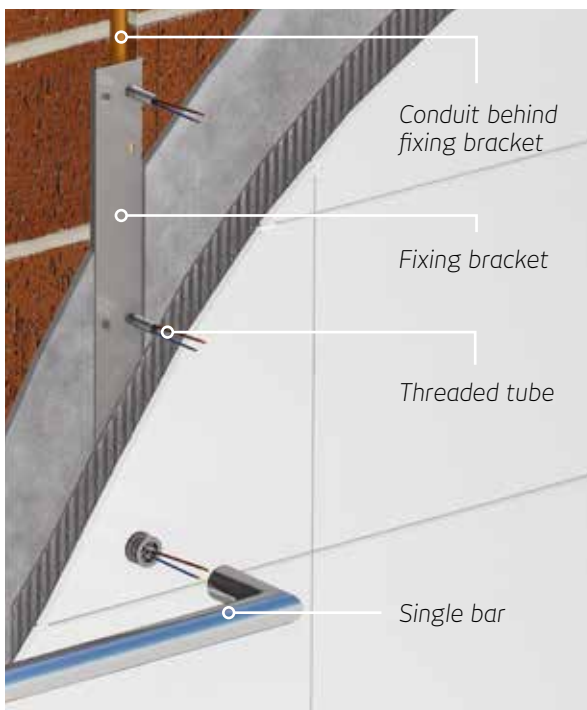
**Figure 2**

Masonry walls - use an angle grinder and masonry cutting disc to create a vertical 25mm deep slot from the position of the lowest single towel rail to the ceiling. Install a conduit into the slot (Figure 3). Mark the position on the wall of the five fixing screws for the bracket, ensuring the nine positioning holes for the towel rails are aligned in the centre of the conduit. Choose the locations of the towel rails on the fixing bracket and drill corresponding holes into the conduit to allow for wiring to pass through (figure 3). Drill and plug the five fixing holes and attach the bracket to the wall. THE BRACKET MUST BE PERFECTLY VERTICAL AND THE THREADED TUBES MUST BE AT A 90° ANGLE TO THE WALL. The threaded tubes should protrude approximately 15mm from the finished wall surface. Run the wiring through each threaded tube, into the conduit and to the transformer (figure 4).

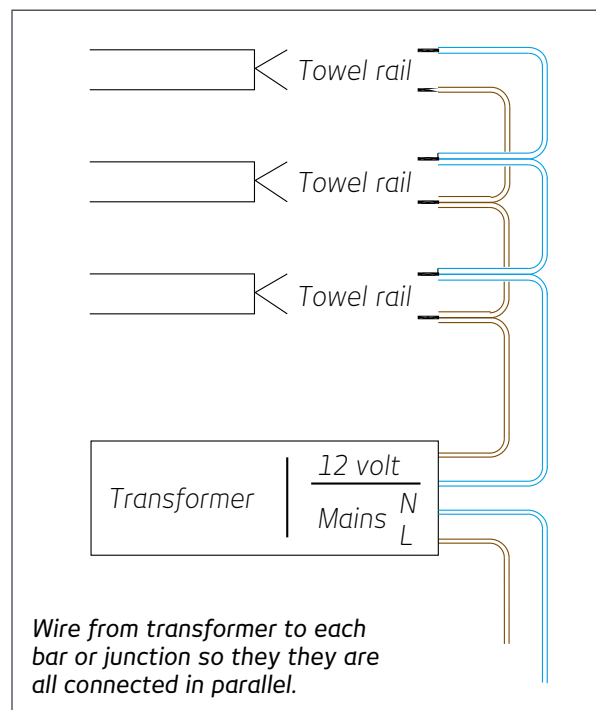
**Figure 2**



**Figure 3**



**Figure 4**



### Timer / switch connection

The towel rails must be wired via an isolating switch or timer. The switch or timer should be wired between the transformer and the 240v supply. Positioning of the switch or timer should be made in accordance with AS/NZS 3000:2000. The TS8100 Series timers are suitable for use with the single bar rails.

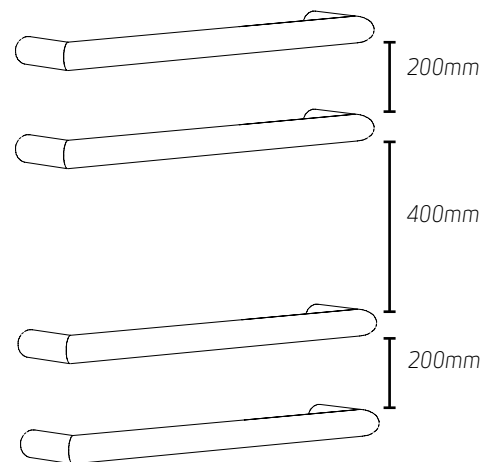
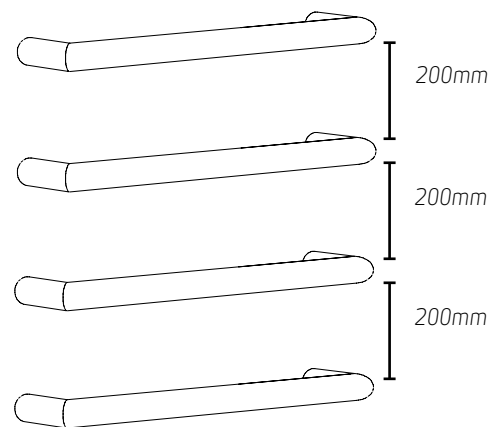
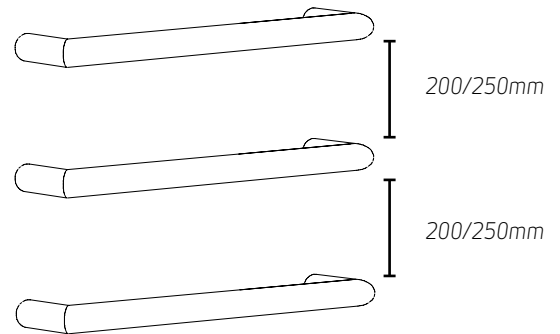
### Towel rail fixing / connection

Disconnect either the left or right wirenut, depending on which side you have chosen to make the electrical connection on. Screw the threaded spigot over the threaded tube on the wire side of the towel rail and accurately mark the position of the second spigot (non-threaded) on the unwired side. Carefully drill and fix the second spigot in position. Connect the towel rail on the chosen side using the waterproof wirenuts. Slide the towel rail over the spigots and tighten the grub screws (facing down) with the allen key provided.

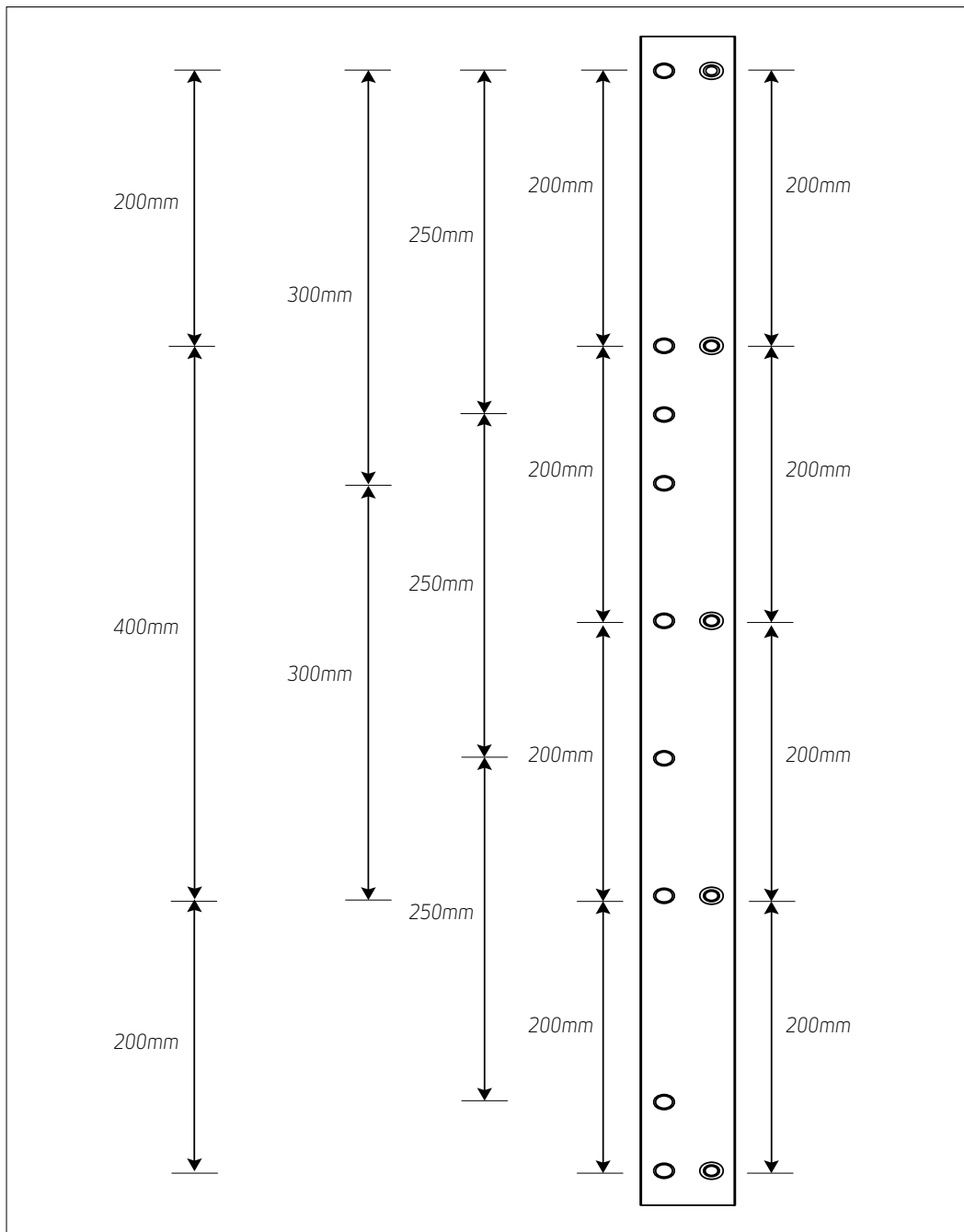


### Configuration options

The supplied fixing bracket allows for a range of positioning options. The most popular are shown in the diagrams below. Whilst you can just have one or two single towel rails, in order to dry towels effectively we recommend installing three or four rails to ensure towels have sufficient contact with a heated bar. Note: All spacings shown are centre to centre of each towel rail, therefore the actual gap between the towel rails will be 32mm less for round bars or 40mm less for square bars.



### Fixing bracket options



Option 1: 2, 3 or 4 rails at 200mm intervals (centre to centre)

Option 2: 2, 3 or 4 rails at 250mm intervals (centre to centre)

Option 3: 2 + 2 rails at 200mm intervals with a 400mm gap (centre to centre)

**Note:** If more than 4 towel rails are being installed you will require a second fixing bracket and transformer.