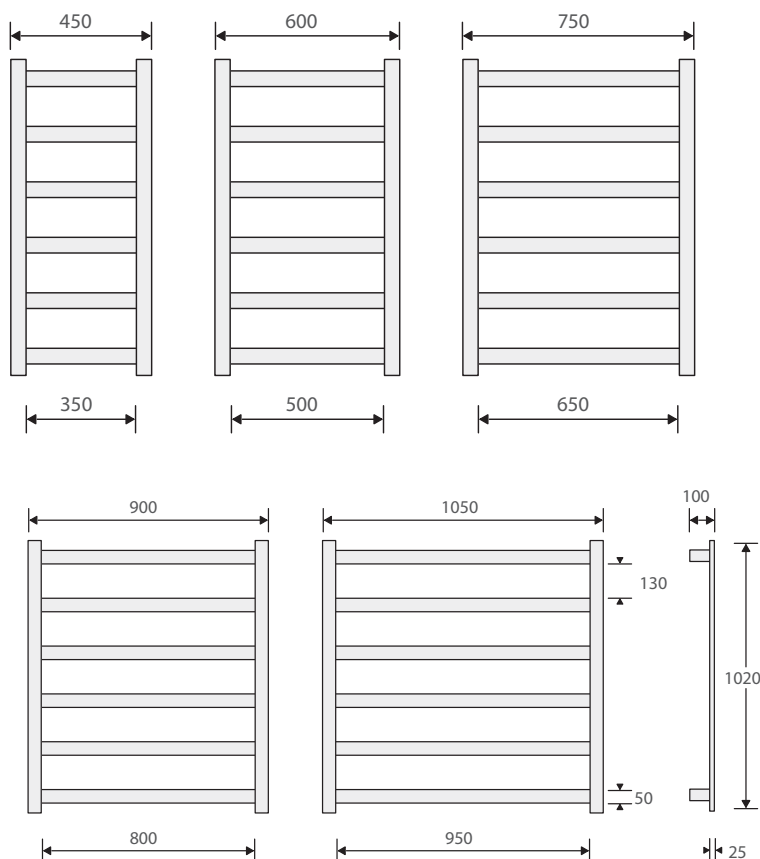


# MILLI

## EDGE MKII HEATED TOWEL RAILS 1020 HEIGHT



Dimensions are nominal measurements only.  
Measurements shown in Millimetres.

### SPECIFICATIONS

<b>Recommended Use</b>	Domestic Hotel and Commercial
<b>Materials</b>	Stainless Steel
<b>Finish</b>	Polished Stainless Steel
<b>Technology</b>	Dry Element
<b>Element</b>	Electrical Element- (Replaceable)
<b>Options</b>	Hardwired Only
<b>Power Entry</b>	Any Leg
<b>Voltage</b>	12V
<b>Wattage</b>	450-50W, 600-68W, 750-86W, 900-117W, 1050-147W
<b>Heating Time</b>	30 Minutes
<b>Standards</b>	AS/NZ 60335.2.43
<b>Safety Rating</b>	IPX5
<b>Additional Features</b>	Made in Australia
<b>Options</b>	<b>Non Heated Versions available</b>



To see the complete MILLI range go to  
[www.reece.com.au/bathrooms](http://www.reece.com.au/bathrooms)

### CLEANING RECOMMENDATIONS

We recommend the use of soapy water or approved cleaners.

This product should not be cleaned with abrasive materials.

Damage caused by any improper treatment is not covered by the product warranty. Refer to Warranty Conditions.

Disclaimer: Products in this specification manual must by regulation be installed by licensed and registered trade people. The manufacturer/distributor reserves the right to vary specifications or delete models from their range without prior notification. Dimensions are nominal measurements only. Dimensions and set-outs listed are correct at time of publication however the manufacturer/distributor takes no responsibility for printing errors.

Tech Page Version 1

# MILLI

## EDGE MKII HEATED TOWEL RAILS 1020 HEIGHT

### INSTALLATION INSTRUCTIONS

#### OVERVIEW

Thank you for choosing AVENIR Bathroom Accessories and for supporting an Australian designed and manufactured product.

**PLEASE TAKE NOTE:** The installation procedure for Avenir products may be different from other products and may not be common knowledge. Please read this installation guide carefully. Experience has shown that most issues arise as a result of either our installation procedure not being followed or the supplied fixings not being used. Please use the supplied fixings as they have been carefully selected and tested to suit the application. Our warranty covers only manufacturing and workmanship defects, not application suitability or issues with installation.

AVENIR Milli Edge towel ladders are designed to suit stud walls with tiles or masonry walls. Non-masonry walls with no tiles will require a timber substrate directly behind each point where the ladder is fixed to the wall. In this case follow the procedure below, with the exception that no wall plugs are required.

#### SAFETY

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance. This appliance is a low voltage device and can be installed zones 1, 2 or 3 in the bathroom. This appliance must be installed, serviced and maintained by a qualified electrician.

**WARNING:** In order to avoid hazards for young children, this appliance should be installed so that the lowest rail is at least 600mm above the floor.

#### ELECTRICAL

**The power to this appliance is supplied by a safety-isolating transformer.** Wiring connection points are available on one side the heated towel ladder through either the top or the bottom mounting legs – In order to make the connection on the opposite side it is necessary to turn the ladder upside down (the ladder design is symmetrical). Your electrician must install an isolating switch and/or timer in order to control the mains supply to the safety-isolating transformer.

#### PRE INSTALLATION REQUIREMENTS

- Provision must be made for a **ventilated, serviceable location** of the supplied safety-isolating transformer. The supplied 2-core wire must be installed from the safety-isolating transformer to the installation location of the heated towel ladder (any leg). This wiring should be concealed inside the wall and should protrude through a hole in the wall surface (minimum 150mm protrusion) at the position of any one of the four mounting legs of the heated towel ladders' intended location.
- The heated towel ladder mounting legs covers an area of 20mm x 40mm. It is therefore essential that the hole in the wall surface where the wire protrudes is no more than 12mm diameter to ensure that the mounting leg covers the hole completely.
- Provision should be made for a timer to control the mains supply to the safety-isolating transformer. If no timer is used (not recommended) then an isolating switch must be installed by your electrician.

**PLEASE TAKE NOTE:** **USE THE SUPPLIED WIRE** – For ladders < 120W a 2 meter length of 15 AWG (1.65mm<sup>2</sup>) wire is supplied. For ladders > 120W a 2 meter length of 12 AWG (3.3mm<sup>2</sup>) wire is supplied – **Extending this wire will reduce the rail heat.**

#### TOWEL LADDER TEMPERATURE

**How hot should my towel ladder be:** The temperature of the towel ladder will vary depending on factors like the ambient temperature, how many towels are covering the rails, and the moisture content of the towels. On a cold day with no towels on the rails, the ladder will feel only lukewarm to the touch. On a hot day with thick dry towels covering the rails completely, the ladder will be very hot to the touch – to the point where it will feel very uncomfortable to continue to keep your hand on the rail. Only the horizontal rails are heated.

**Towel ladder too cold:** Please note that the horizontal heated rails of the ladder have a surface area of more than twice that of conventional heated towel rails (round or square tubular rails). It is for this reason that if no towel is draped over the heated towel ladder, the rails will cool substantially and will not remain hot to the touch. Full temperature will only be achieved when there is a towel covering the rails.

**Towel ladder too hot:** The temperature of the ladder may be reduced using a light dimmer or an Eco Timer connected to the safety-isolating transformer if required.

**USE THE SUPPLIED LOW VOLTAGE WIRE  
EXTENDING THIS WIRE WILL RESULT IN REDUCED HEAT**

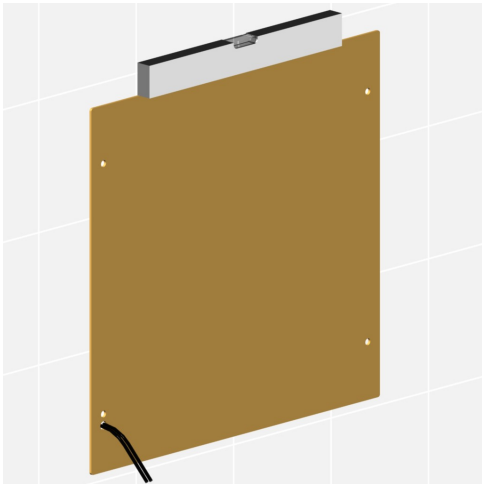
Plumbers, please ensure a copy of the installation instructions is left with the end user for future reference

# MILLI

## EDGE MKII HEATED TOWEL RAILS 1020 HEIGHT

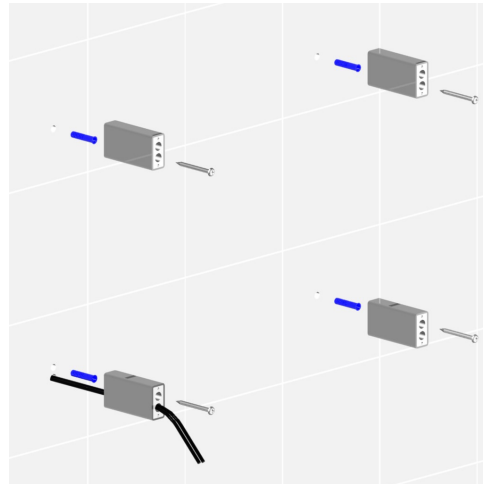
### INSTALLATION PROCEDURE – MILLI EDGE HEATED TOWEL LADDERS

#### 1. Using the supplied MDF template



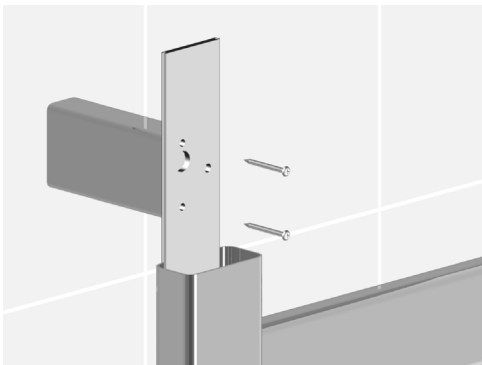
- Apply the supplied double-sided tape to the MDF template and remove the backing.
- Feed the wire protruding from the wall (as described above) through the larger (10mm) hole in the MDF template.
- Using a spirit level stick the MDF template squarely to the wall.
- Using an 8mm bit and the MDF template as a guide, drill four holes in the wall surface to a depth of 40mm.

#### 2. Fix the mounting legs to the wall



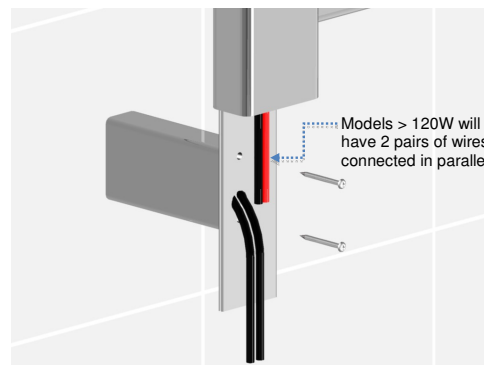
- Remove the MDF template and double sided tape.
- Insert the 4 supplied wall plugs into the holes in the wall.
- If necessary use a sharp blade to trim the wall plug so that they are flush with the wall surface.
- Fasten the four mounting legs to the wall using the large stainless steel screws (4 supplied). Note the orientation of the mounting legs and the position of the screws in the diagram.

#### 3. Install the ladder on the mounting legs – Top



- Loosen the four grub screws on the reverse side of the ladder.
- Slide the left and right aluminium covers towards the top of the ladder so that the top fixing holes are exposed.
- If the electrical connection is through one of the top mounting legs then feed the wire protruding from the wall through the larger hole in the aluminium cover.
- Using 4 supplied small stainless steel screws; attach the aluminium covers to the top mounting legs (top left shown above).

#### 4. Install the ladder on the mounting legs – Bottom



- Slide the heated towel ladder upwards until the bottom fixing holes on the aluminium covers are exposed.
- If the electrical connection is through one of the bottom mounting legs then feed the wire protruding from the wall through the larger hole in the aluminium cover.
- Using 4 supplied small stainless steel screws; attach the aluminium cover strips to the bottom mounting legs (bottom left shown above).
- Slide the heated towel ladder downwards until the left and right side channels are flush with the aluminium covers (top and the bottom).
- Lightly tighten the 4 screws at the rear of the ladder using the supplied 3mm allen key.

#### 5. Electrical connection

- Trim the wires to length and making sure to keep them as short as possible as there is limited space available for the connection joint.
- Connect the 12-volt supply using the supplied crimp terminals.
- Switch on the mains supply to the safety-isolating transformer and allow 30 to 60 minutes to allow rail to reach maximum temperature.
- Once tested, fit the supplied chrome caps to the ends of the side channels and remove the green protective green film.

Milli

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