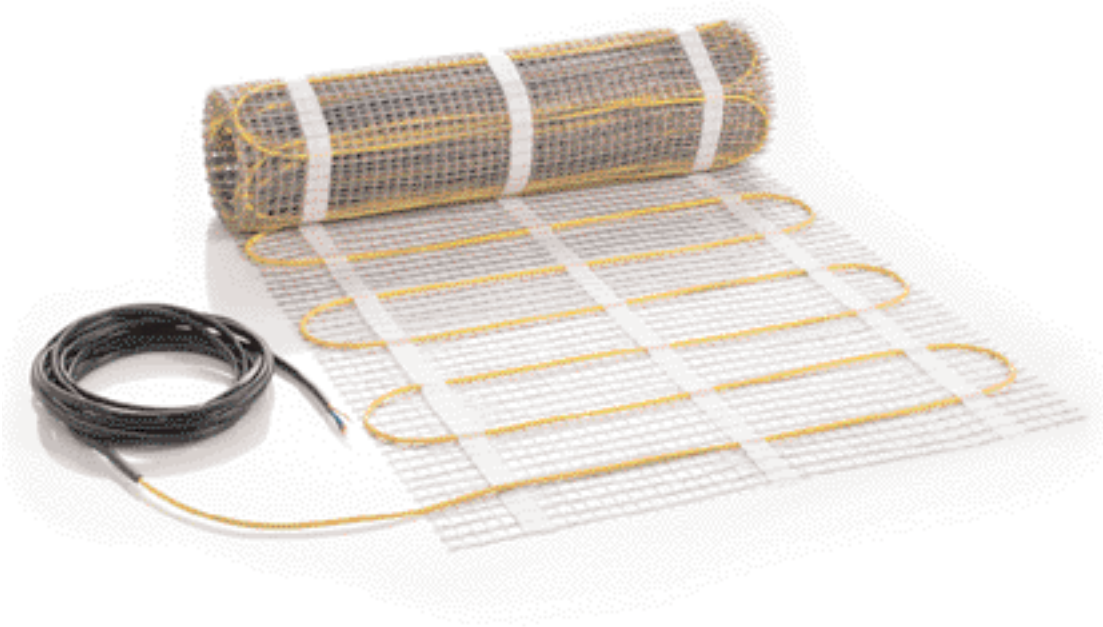
impey



Impey Aqua-Mat

Installation guide

Installation guide

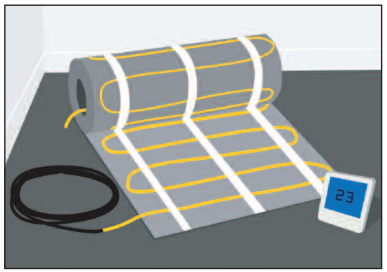


Fig. 1

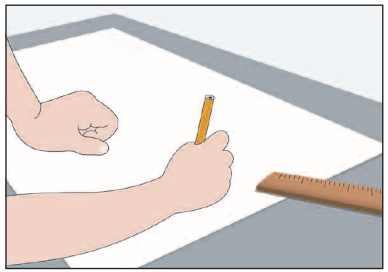


Fig. 2

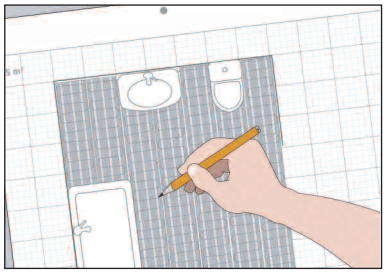


Fig. 3

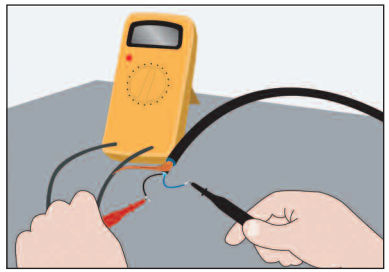


Fig. 4a

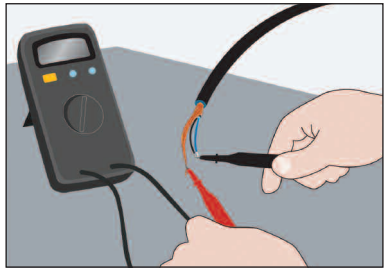


Fig. 4b

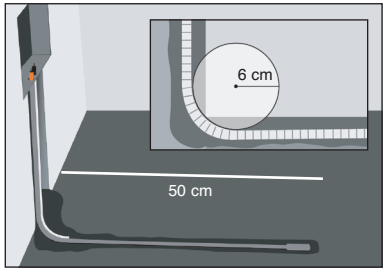


Fig. 5

Fig. 6

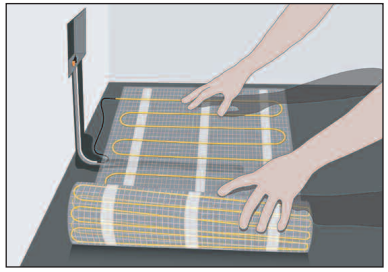


Fig. 7

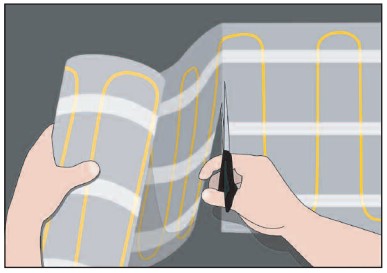


Fig. 8a

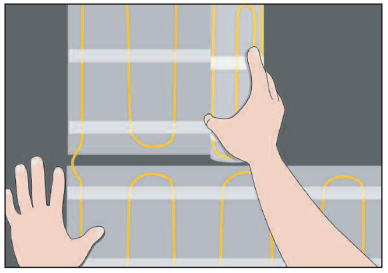


Fig. 8b

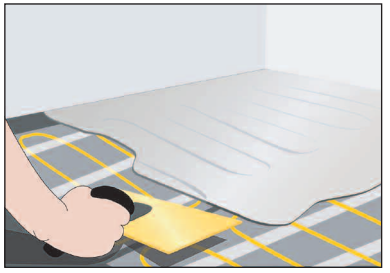


Fig. 9

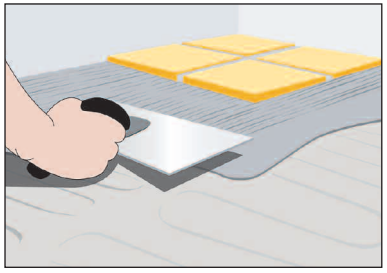


Fig. 10

Congratulations on your new Impey product!

By following the installation guidelines below you are guaranteed a high-performing result and many years of troublefree use.

1 Let's get started

A. Necessary tools: Hammer, chisel, pencil, tape measure, craft knife, multimeter, insulation tester and this guidance leaflet and plan.
B. Plan: Draw your room on the graph paper (fig. 2). Remember to draw in any fixed furniture/cupboards etc. and the location of your thermostat/power supply. The heating mat should not be installed beneath items fixed to the floor, such as cupboards, bathtubs, toilets etc.
Your Impey Aqua-Mat should have a smaller m^2 measurement than the available floor area. Any "excess" floor area (with out floor heating) is spread along the walls. Draw in your Impey Aqua-Mat (w: 48 cm) with a gap of 2 cm between the lines on the plan. Note that the adhesive backing mat under the heating cable can be cut by changing the direction on the layout plan (fig. 3).
C. Transfer your plan with its markings onto the floor, so that you know exactly where you will start and finish.

2 Test your Impey Aqua-Mat

Before you lay the heating mat you must check that the heating conductors works properly.
The resistance value is measured using a multimeter between the blue and black sections (fig. 4a). Check that the value measured matches the value of the label attached to the cold tail connection. The value displayed must lie within -5% - +10% of the given ohm value.
Make a note of the value measured on the proof of warranty.
Then measure the insulation value with an insulation tester by measuring between the screen (outer connector wiring) and both the black and blue sections (fig. 4b). The measured value must be over 10 MΩ. If this is the case tick the field on the proof of warranty.

3 Preparation and cleaning

Power supply and floor sensor
Start by cutting/drilling a groove in the wall and floor from the connection point. A separate tube for the thermostat's floor sensor and the heating mat's power cables is fitted into this groove (fig. 5).
Make sure that the groove for the floor sensor stretches at least 50 cm out into the room and that the sensor is placed between two heating cables. The curve of the tube must have a radius of no less than 6 cm.

Before you fit the cable mat you must prepare the floor surface (fig. 6)
A. Make sure that loose items and sharp edges are removed and that the floor is vacuum-cleaned or washed.
B. For improved adhesion of the heating mat it is strongly recommended that the floor be primed before installation. This must be done after the cleaning has been completed.

4 Fitting

Fitting the mat
Start by removing the protective plastic foil from the mat. Start rolling it out (with the self-adhesive side towards the floor), referring to your layout plan.
Place the start of the mat close to the electricity installation/desired thermostat location (fig. 7). **Note that the connections between the yellow heating cable and the power cables must be embedded.**

Spread out the heating mat in the room, referring to your layout plan. When you meet an obstacle (walls, cupboards, toilets or similar), cut the adhesive backing mat (not the heating cable!) and continue in a new direction (fig. 8a-8b).
If the cable, due to installation purpose, has been detached from the adhesive backing mat it can be glued to the underlay using a glue gun.

5 Midway test

After laying out the mat please measure the resistance value in the mat again (fig. 4a-4b). Use the same procedure as in section 2 – then make a note of the values on the proof of warranty.

Installation guide

6 Filling/Final measurement

When the mat has been laid as desired press the mat down against the floor to ensure optimal adhesion. Feed the 2 power cables (blue and black) back to the thermostat connection point. Then cover the heating mat with a layer of flexible self levelling compound or flexible tile adhesive (fig. 9).
When subsequently laying a tiled floor on top the heating cable must simply be covered, whilst wooden floors, laminates, rugs, vinyl etc. require a filling layer of at least 5 mm on top of the heating cable (fig. 10).
It is recommended that the self levelling compound or tile adhesive be left to harden in accordance with the manufacturer's instructions before the top floor is laid (tiles, wooden flooring, laminate etc.).
After fitting, measure the resistance value in the mat again (fig. 4a-4b). Use the same procedure as in section 2 – then make a note of the values on the proof of warranty.

7 Finishing

After the work has been completed the floor must harden completely before the floor heating and thermostat are connected. This process usually takes 8-10 days, but you should refer to the filler manufacturer's guidelines. To connect the thermostat, please refer to the thermostat installation guidelines.
Please note that Impey Aqua-Mat must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA.

Impey Aqua-Mat can be used with the following thermostats:

Amstat	Amstat	Amstat

Impey wish you all the best with your new heated floors!

12-year warranty for Impey Aqua-Mat

Impey's products have been developed for many years of trouble-free use. Assuming that they are installed correctly – according to the installation guidelines – we therefore provide a 12-year warranty on Impey Aqua-Mat.
The warranty covers products that appear to be defective due to manufacturing, construction or material faults.

However, the warranty is void if:
- The product has not been installed according to the installation guidelines
- It has not been connected by an authorised electrician
- The fault is caused by inappropriate/poor floor construction

The warranty is also conditional upon the accompanying proof of warranty having been filled in correctly. The proof of warranty must be retained by the owner and must be produced in the event of a claim.
In the unlikely event that you have to make use of the warranty, we will repair the product or supply a new replacement product free of charge. The warranty does not cover any indirect or additional costs such as costs relating to the localisation of the fault, removing the product, repairing the floor etc.

In the event of a warranty claim the product will be sent to Impey – as agreed in advance - with a tracking label attached, stating the nature of the fault. If our investigation shows that the product is not faulty it will be returned. If we find any faults Impey will return the repaired product or supply a new Impey product and will take away the parts that have been removed or the faulty impey product.

No additional claims may be made against Impey under the warranty.

Product specifications - Impey Aqua-Mat 100 W/m²

Impey Aqua-Mat is a 1-conductor heating mat which, due to the low fitting height (approx 3.5mm), is particularly suitable for renovating existing floors.

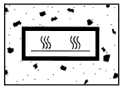
Your underlay/under-floor will decide how big an output your Impey Aqua-Mat should have. Follow the instructions in the table below.

Note that the heating mat **must** be connected to the power supply by an authorised electrician.

Voltage:	230 V
W x L:	See Label
Max. temperature:	120°C

Areas of applications	Max. output per m²	Max. surface temperature	Thermostat
Impey Tile Safe	100W/m²	27°C	Thermostat with floor sensor and max. temp. 35 degrees
Wooden floor underlay with carpet or parquet on top	100W/m²	27°C	Thermostat with floor sensor and max. temp. 35 degrees
Wooden floor underlay with tiles on top	100W/m²	27°C	Thermostat with floor sensor and max. temp. 35 degrees
Concrete floor with carpet, vinyl or parquet on top	100W/m²	27°C	Thermostat with floor sensor and max. temp. 35 degrees
Concrete floors with tiles on top	100W/m²	None	Thermostat with floor sensor and max. temp. 45 degrees

The product must be used to heat floor directly.



The heating mat must be embedded.

Note that the yellow cable must not be cut under any circumstances.
The heating mat/cable must never be double-laid, overlap or cross over itself.

Connection:

Live:

Neutral:

Earth:

CE

Installation guide

Proof of Warranty

A 12-year warranty is hereby provided for:

Name: _____ Telephone: _____

Address: _____ Postcode & Town: _____

Please note!
The warranty is only valid if the following details have been filled in correctly. See the conditions below.
The proof of warranty must be retained by the purchaser.

Heating mat laid by: _____ Date: _____

Connected by: _____ Date: _____

Mat length:

Item number (see label):

Impey Aqua-Mat		Result
Insulation Resistance	Before embedding	Above 10 MΩ ☐
	After floor covering	Above 10 MΩ ☐
Heating Cable Resistance	Before laying	= Ω
	Before embedding in mortar	= Ω
	After embedding in mortar	= Ω

impey

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Email: info@impeyshowers.com

Installers stamp: