

Amuheat Cable Strip Installation Manual

Installation guidelines for installing the
Amuheat Cable Strip under tile, stone and floating floors

Contents

Important Installation Guidelines	2	
Required Materials and Tools	3	Materials and components
Compatible Sub-floors	4	Overview and recommendations
Electrical Requirements	5	RCD Supply, Connection and Rough-in
Getting Started	6	Amuheat Cable Strip
	7	Modifying the Amuheat Cable Strip
	8	Testing the Amuheat Cable Strip
	9	Amuheat Element Fault Monitor
	10	Plan installation layout
Installation	12	Installing the Amuheat Cable Strip
Install Floor Coverings	14	Protecting Amuheat Cable Strip
Troubleshooting	15	Locating a break or short
	16	Repairing the Amuheat Cable Strip
Electrical Connections	17	Connecting the Supply and Thermostat
	18	Amuheat Cable Strip Test Log
Contact Information	19	Technical Support
Warranty	20	Warranty
	21	Warranty Registration

Important Installation Guidelines

- ✓ Read the installation guide before starting the installation
- ✓ You can install Amuheat Cable Strip directly under ceramic tile, quarry or natural stone, bamboo and other floating floors or embed the heating element in a min 5mm self leveling compound or screed for all other floor finishes.
- ✓ Concrete subfloors must be fully cured before installation commences and timber subfloors must be rigid and free from movement by using a suitable tile backer or insulation board
- ✓ Plan your layout and installation taking into consideration all fixed objects and where you may need to drill into the floor
- ✓ Ensure you have the correct heating strip size before installation
- ✓ Do not leave surplus cable strip rolled up under cabinets and do not cut, shorten or lengthen the heating element
- ✓ Ensure the heating cable is tested before, during and after installation
- ✓ If you remove the heating element from the adhesive tape strips for a free form run layout, maintain a min 60mm distance between the heating elements
- ✓ Avoid crossing the heating element, floor sensor wire or cold tail leads over or under each other and one another and do not overlap strips of mesh
- ✓ Multiple heating cable strips connect to the thermostat in parallel - the cold tail leads cannot be joined and buried in the ground
- ✓ Do not drop or rest any heavy objects or tools on the heating element.
- ✓ Protect the heating element with cardboard or scraps of carpet between installation and tiling
- ✓ Test the heater before tiling commences
- ✓ Use adhesives and grouts suitable for use with floor heating
- ✓ Ensure that each tile is solidly bedded in tile adhesive, with no gaps or voids beneath
- ✓ Do not bang a trowel on the floor area with heating element to remove excess mortar from the trowel and do not use a knife to clean adhesive from between the tiles along the grout spacing
- ✓ Remember to install the floor probe
- ✓ Make sure all electrical work is done by a qualified electrician and check your electrician provides a mains power supply connected via a RCD circuit
- ✓ Allow the tile adhesive to cure before switching power to the floor heating system
- ✓ Keep your heating design plan sketching and layout changes for future reference

Required Materials and Tools

Materials and Components

Before you start

Check your room measurements against your heating design plan or quoted floor areas. Ensure you have the right heater sizes for the areas you need to heat. Remember that the heating element is not installed under permanent fixtures or appliances. If you are missing any of the kit contents or have the incorrect heating mat to cover the floor area you require call Amuheat Support.

The Amuheat Cable Strip Kit includes:

- Heating design plan
- Installation guide
- Amuheat Cable Strip
- Adhesive fibreglass mesh
- Amuheat Element Monitor
- Floor Temperature Sensor
- Programmable thermostat control
- Warranty registration

You may require a 20A contactor if you are installing multiple Cable Strips connected to one thermostat where the load capacity exceeds 16A.

The following tools and materials may be required for a successful installation:

- Bondcrete floor primer mixed in 1:4 ratio with water and applied to the floor with a paint roller (*optional: used where adhesive tape on heater does not adhere to sub floor*)
- Tile adhesive or self leveling cement (*optional: depending on floor finish and heater element protection*)
- Scissors (to cut the fibreglass mesh)
- Adhesive cloth tape
- Permanent marker/Construction crayon & Tape measure
- Chisel & hammer or Angle grinder (to recess joints & conduits in subfloor)
- Cardboard or carpet scraps (to protect the heater if tiling is delayed)
- RCD switch on electrical board (supplied and fitted by your electrician)
- 25mm Conduits (for cable strip cold tail leads & floor temperature sensor)
- Wall box, plate or c-clip (for mounting thermostat on the wall)

Compatible Sub-floors

Overview and recommendations

Overview

Suitable sub-floors must be correctly designed, constructed and prepared in accordance with building regulations. Suitable sub-floors include:

- 1) F/C Boards
- 2) Smooth Concrete Slab
- 3) Waterproof Membranes
- 4) Acoustic Underlay
- 5) Insulation Boards
- 6) Ceramic Tile
- 7) Sand Cement Screed

Recommendations

Our recommendation below is only intended to provide an outline guide to the floor preparation required and protection of Amuheat Cable Strip during floor finish installation.

Concrete Slab - The concrete slab must be completely cured, clean, smooth and level. *See Insulation below.*

Timber Subfloors - Suitable substrates such as Cement or Marmox boards should be used on timber floors to ensure the subfloor is rigid and free from movement.

Insulation - It is generally accepted that floor heating will take the chill off the floor and provide some comfort warmth. Insulating concrete slabs will reduce heat losses downward into the slab. Rooms will also stay warmer for longer periods of time.

Protecting the Amuheat Cable Strip - Proper care should be taken to ensure the heating cable is not damaged during the floor heating or floor covering installation. Heavy cardboard or carpet scraps should be used to protect the heater cables from traffic during the flooring installation. For the best results, cover the heater with a skim coat of tile adhesive or apply a flexible floor leveling compound.

Electrical Requirements

RCD Supply, Connection and Rough-in

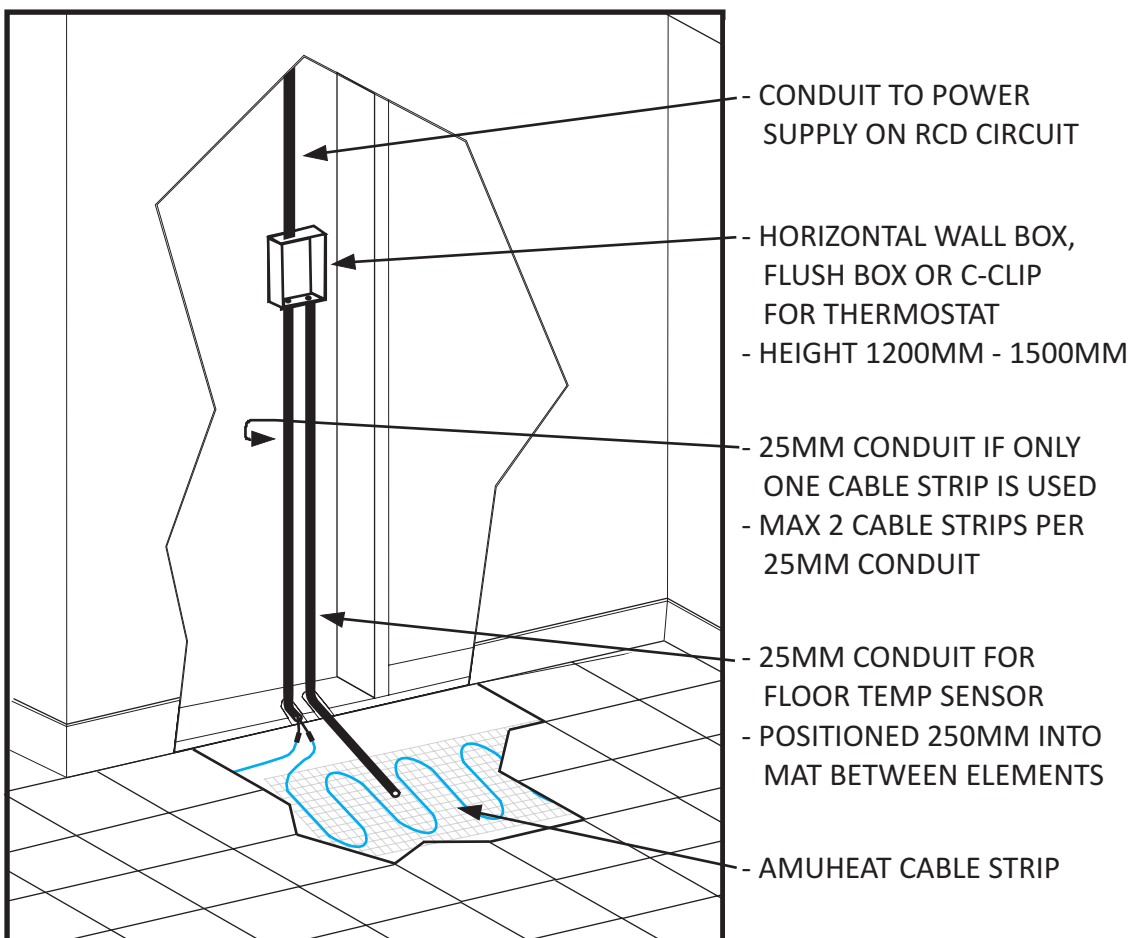
RCD Supply

Amuheat Cable Strip installations must be connected to a supply with an approved Residual Current Device (RCD) mounted on the switchboard. It is recommended you consult with your electrician to ascertain whether or not the circuit and cabling can handle the additional load and if a RCD is protecting the circuit.

Electrical Connection

All electrical connections (including thermostats) must be performed by your electrician, in accordance with current AS/NZ 3000 wiring rules.

Electrical Rough In

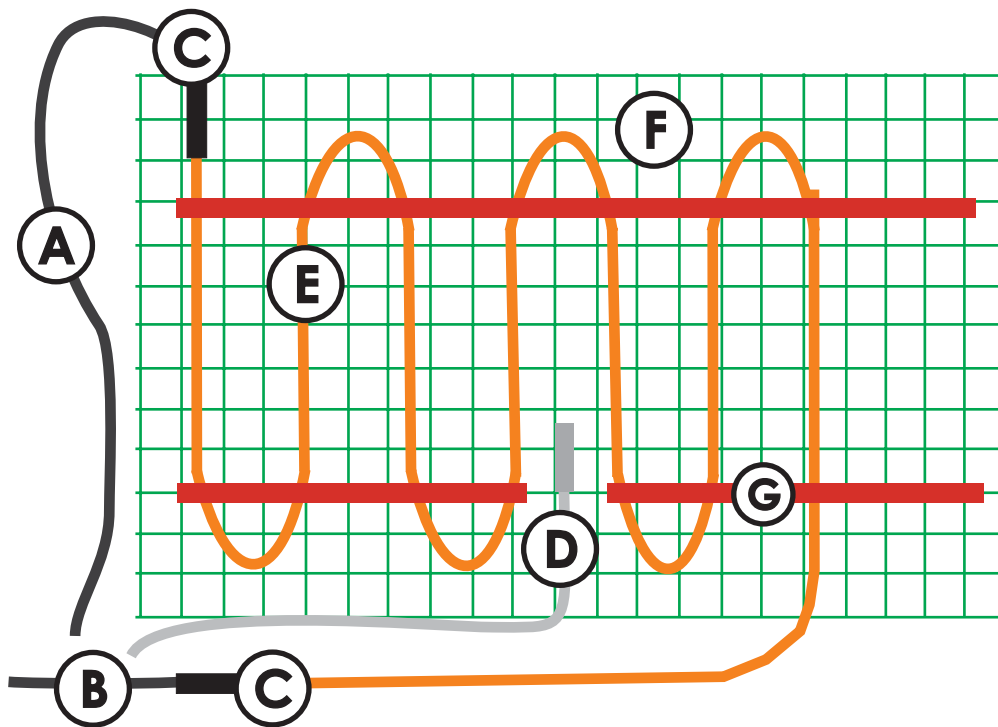


Getting Started

Amuheat Cable Strip

Construction

The Amuheat Cable Strip heating cable is attached in a serpentine pattern to strips of adhesive tape. The adhesive tape strips allow the Cable Strip to a clean subfloor. For protection, an adhesive fibreglass mesh is rolled over the heating cable and stuck to the subfloor. The two cold lead tail return wires have factory-made joints, and run back to the thermostat/power supply along the perimeter of the heated space.



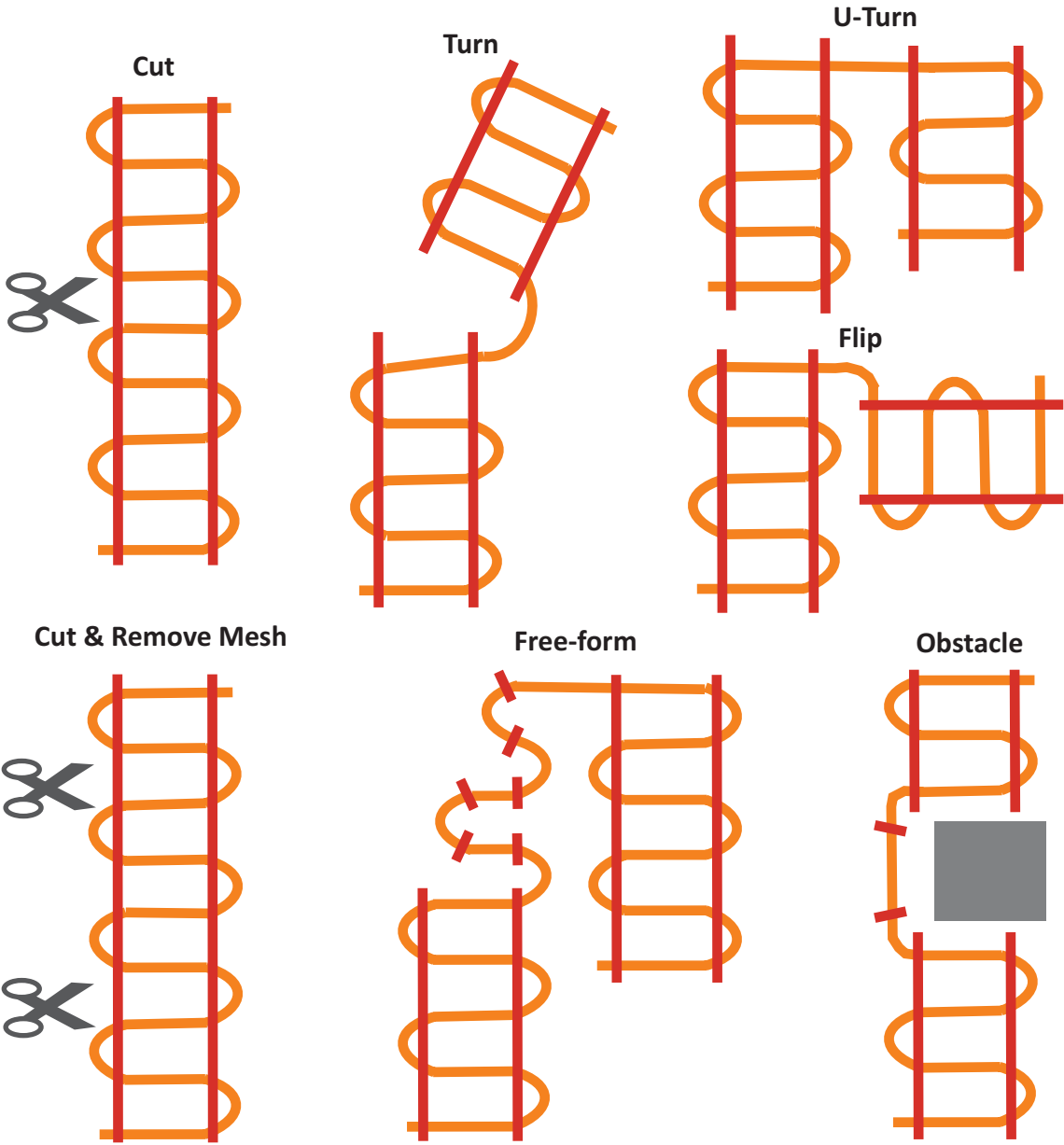
- A Cold lead tail active
- B Cold lead tail neutral
- C Factory-made joint
- D Floor temperature sensor
- E Heating element
- F Fibreglass mesh
- G Adhesive tape strips
- H Multi strand conductor wire
- I Primary Teflon insulation
- J Metal braiding connected to earth
- K Secondary PVC insulation



Getting Started

Modifying the Amuheat Cable Strip

When installing Amuheat Cable Strip in a small space or around fixed objects, it may be necessary to cut and turn the heater strip. NEVER cut the heating element. When cutting the tape and flipping the heater strip, take care not to cut or damage the heating element. Never allow the heating element to overlap. If you remove the heating element from the adhesive tape strip for a custom or free form run, maintain a min 60mm spacing between the heating elements.



Getting Started

Testing the Amuheat Cable Strip

The Amuheat Cable Strip heater is tested and supplied in good working order from the factory. Before installing the heating cable strip, insulation and resistance tests should be conducted to ensure the integrity of the cable.

Resistance Test

To ensure continuity in the Amuheat Cable:

- Set the multimeter to measure in 0-200 Ohms.
- Place one probe on the active conductor (brown) and the other on the neutral conductor (blue).
- Confirm your reading falls within +/- 15% of the factory recorded value listed on the product label. Record the reading in the Test Log on page xx of this guide.
- If installing an Amuheat Floor Temperature Sensor, test the sensor probe as well. Set the multimeter to 20K Ohms. Probe wires should read between 8K-12K Ohms.
- If your installation uses two or more cable mats per zone, label each heating mats cold tail lead with corresponding mat numbers (eg. "M1", "M2", etc.).

Insulation Test

To ensure the Amuheat Cable is insulated:

- Set the multimeter to measure in 0-200 Ohms.
- Place one probe on the active conductor (brown) and the other on the corresponding earth wire (green/yellow).
- Confirm your reading is open circuit or infinity.
- Repeat this step on the neutral conductor (blue) and it's corresponding earth wire (green/yellow).

If at any time your readings are not in line with the guidelines above, or you suspect there is a problem at any point of the installation, stop installing immediately and contact Amuheat Support.

The Amuheat Cable Strip heater must be tested:

- **Before and after the heating installation.**
- **After the floor finish installation.**
- **Before the electrician connects power to the heater.**

Getting Started

Amuheat Element Fault Monitor

Before connecting any wires to the Element Fault Monitor, install the batteries in the device and turn it “on” and “off” to test the alarm. Provided the alarm is in good working order, connect the cold tail lead wiring to the Element Fault Monitor as follows:

- Connect 1st inner conductor core wire to the Black terminal.
- Connect 2nd inner conductor core wire to the Red terminal.
- Connect both ground sheaths to the Green terminal.

Turn on the Element Fault Monitor. The monitor will immediately beep when a short or break in the heating element is detected and alerts the flooring contractor to a potentially damaged heating element before he lays the tiles over the floor heating system.

Test the monitor again by touching the earth conductor to one of the inner conductor wires. This should activate the alarm

Getting Started

Plan Installation Layout

It is VERY IMPORTANT to plan the installation before securing the Amuheat Cable Strip to the sub-floor.

Amuheat Design & Layout

Amuheat provides a design and layout service to assist in planning the installation. Take a moment to double-check that your heating design plan has the proper room dimensions and that you have the correct size and number of heating mats. Once the heating mat has been cut it cannot be returned.

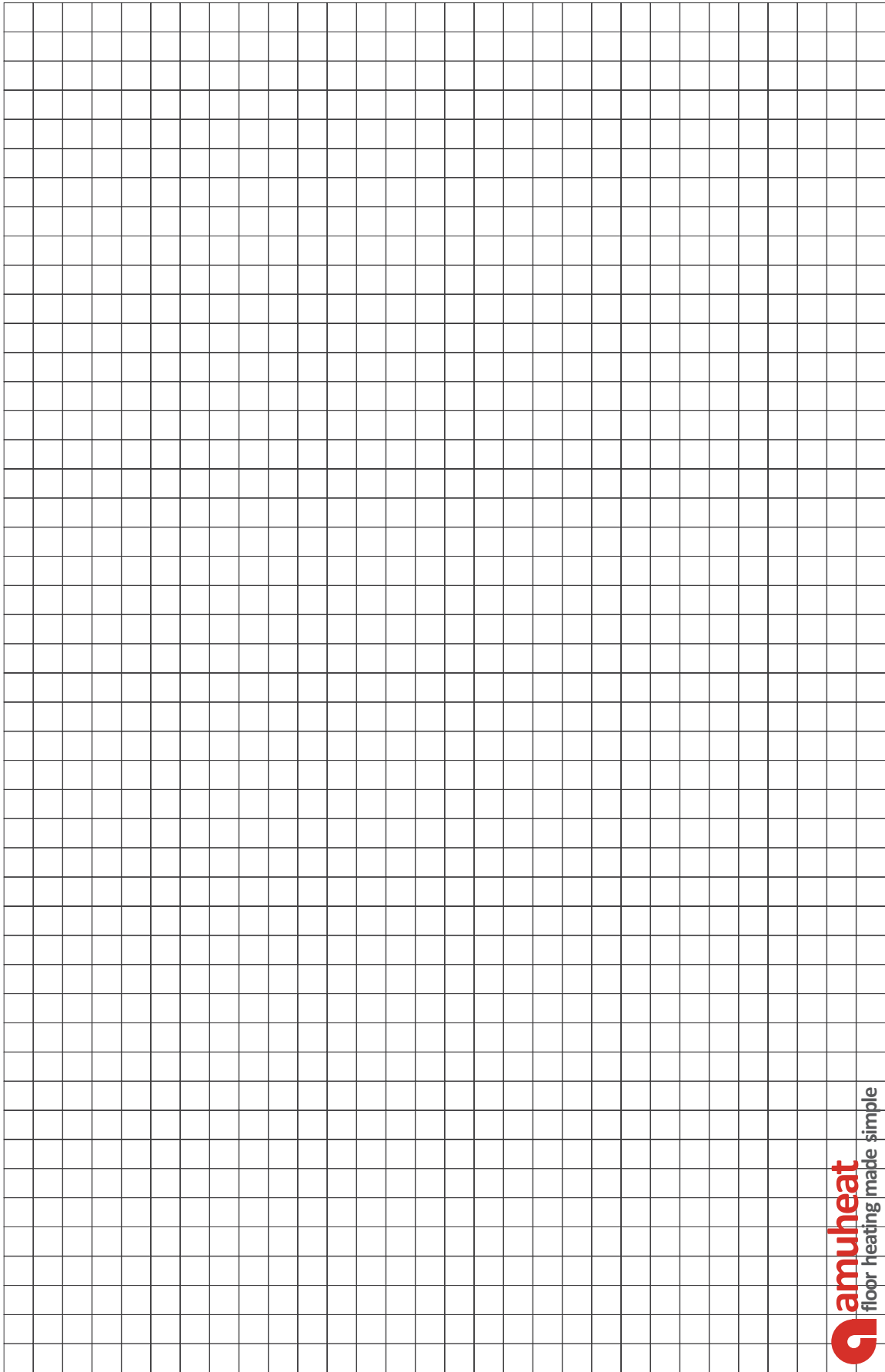
Design your own Layout

Follow these steps to assist you in planning the design and installation:

1. Draw the room dimensions to scale on a piece of paper
2. Mark and draw the dimensions of all permanent fixtures including drains, toilets, etc.
3. Mark the position of the supply and thermostat. This will also be the position of the Cable Strip' start and end point. The heating cable joints will be positioned on the sub-floor below the thermostat position.
4. Mark the widths and runs of the cable mats on available floor areas. The heating mats measures 300mm or 600mm wide and must be kept 100mm from all permanent fixtures
5. Remember to allow a buffer around the perimeter to allow for the return cold tail lead.
4. Measure lengths of the runs
5. Look up the Amuheat Cable Strip size close to your calculations.

Amuheat Cable Mat Size Chart

Item Number	Area Covered (m2)	Strip Size (m)	Wattage @ 240V	Amps @ 240V
CSK285-16	1.7	.3 x 4.98	308	1.3
CSK440-16	2.8	.3 x 7.82	475	2.0
CSK570-16	3.5	.6 x 5.46	616	2.6
CSK760-16	4.7	.6 x 7.26	821	3.4
CSK940-16	5.7	.6 x 8.88	1015	4.2
CSK1210-16	7.5	.6 x 11.50	1307	5.4
CSK1500-16	9.3	.6 x 14.40	1620	6.8



Installation

Installing the Amuheat Cable Strip

Step 1 Electrical Preparation

- The Amuheat Floor Heating Strip is supplied with two cold tail leads which run from the floor to the thermostat in 25mm conduits (limit 2 heating mats per conduit).
- The Floor Temperature Sensor requires its own conduit and should not be placed in the same conduit as the cold tail leads.
- Neither the cold tail leads or sensor wire should cross, or come into contact with the heating cable.

Step 2 Floor Preparation

- It may be necessary to chisel out a short channel in the sub-floor to minimise the increased height presented by the joints, cold tail leads (2 leads per heating strip) and conduits.
- The factory-made joints connecting the heating cable and cold tail lead must be at least 100mm from the wall, 50mm apart and in a position to be covered by the adhesive and tile.
- The separate capped conduit for the Floor Temperature Sensor should extend into the room to lay at least 250mm from the edge of the heating mat, between two heating cables.
- Thoroughly clean the floor to ensure the surface is completely clean, dry and dust free.
- On sub-floors where the adhesive tape strips will not hold (typically concrete and cement boards), apply a thin coat of floor primer (Bondcrete mixed 1:4 with water) with a paint roller. Avoid ponding and allow to dry completely before installing the cable strip.

Step 3 Mark-out Layout

- Referring to your heating layout design, mark out the areas on the sub-floor where permanent fixtures will be fitted.
- Mark out the position of the heating strip and of any turns, flips and where free form spaces will be located, starting at the thermostat location.
- Mark the planned route of the returning cold tail lead from the end of the heating mat.
- This is the last time you can make sure that the length of heating mat required is the same as the length of the heating mat you have.

! Note: Conduct insulation and resistance tests (refer to page 8)

Installation

Installing the Amuheat Cable Mat

Step 4 *Position Cable Strip*

The Amuheat Cable Strip is designed for installation with the heating element below the fibreglass mesh. The application of tile adhesive and flexible floor leveling compounds will be easier with the heating cable below the mesh. The mesh also offers some protection during the floor installation.

- Unroll the heating strip starting at the closest to the thermostat.
- Ensure the separate capped conduit for the temperature floor sensor extends into the room to lay at least 250mm from the edge of the heating mat, between two heating elements.
- Cut and modify the heating strip as per marking up on the sub-floor.

! Note: Be careful not to cut the heating element or fold the heating cable sharply

- Where you remove heating cable from the adhesive tape strip for free form runs, maintain a distance between cables similar to that on the Amuheat Cable Strip - approx 50mm.
- When you are close to completing the layout of the heating strip, remove enough heating element from the adhesive tape strip to return the heating element along the side of the heating strips to position the joint and cold tail lead at the starting point.

If you are installing multiple heaters into one room and using one thermostat, you will need to ensure all the cold tail leads start and finish at the same point. Do not join the cold tail leads or heating elements wire together.

Step 5 *Stick down Cable Strip and Fibreglass Mesh*

- Remove the backing tape off the adhesive tape strips a little at a time as you proceed to stick the heater to the floor. Do the same with the tape on the other side of the cable strip ensuring that the element is straight and under slight tension.
- Use adhesive cloth tape to fix the heating element in free form runs and the heating cable returning the cold tail lead to the start point. Ensure you maintain equal distances between heating cables - approx 50mm.
- Lay the adhesive fibreglass mesh over the cable strips. Cut the mesh as necessary to cover all the heating element including those to the factory joints.
- Press the mesh down so that it sticks to the sub-floor and keeps the heating cable in position. Avoid overlapping the mesh.

! Note : Never overlap the cable strip, element or cold tail leads. Cable strip' and heating elements that overlap will cause dangerous overheating and cold tail lead wires that overlap the heating element may cause a short circuit.

! Note: Conduct insulation and resistance tests (refer to page 8)

Install Floor Coverings

Protecting Amuheat Cable Strip

Ensure you use tile adhesives and grouts suitable for use with underfloor heating systems (they must contain a flexible additive). It is important that each tile is solidly bedded in tile adhesive, with no gaps or voids beneath them.

Laying Tiles Directly onto Cable Strips

- Apply a layer of tile adhesive over the heating mat and lay the tile or stone directly into this layer of tile adhesive.
- Avoid careless use of the trowel. This can cause damage to the heating cable, so avoid placing, dropping or banging tools directly on the heating element.
- Heavy cardboard or carpet scraps should be used to protect the heating cables from traffic during the flooring installation.
- *For the best results, cover the Cable Strip with a skim coat of tile adhesive or apply a flexible floor leveling compound.*
- ***When installing mosaic tiles and certain porcelain tiles, we recommend covering the heating mat with a flexible floor leveling compound before tiling to ensure a flat smooth surface.***
- Conduct resistance and insulation tests.

Curing Time

- Ceramic tile and stone installations require up to 14 days for the adhesive to cure. You must allow the adhesive to fully cure before the Amuheat floor heating system is switched on. Failure to do so may result in damage to the heating cable and cause the adhesive to become brittle.

Troubleshooting

Locating a break or short

Checking For Breaks

To determine if there is a break in the heating cable under the floor:

- Set the multimeter to measure in 0-200 Ohms.
- Place one probe on the active conductor (red or brown) and the other on the neutral conductor (blue or black).
- Confirm your reading falls within +/- 15% of the recorded value before during and after installation.
- If your Ohm reading is lower (outside the 15% range), but there is clearly some continuity, check your Ohm meter and your batteries.
- If you have absolutely no reading (= infinity on your meter), then there is a break (= total cut) in the conductor.

Checking For Electrical Short

To determine if there is a short in the heating cable under the floor:

- Set the multimeter to measure in 0-200 Ohms.
- Place one probe on the active conductor (brown or red) and the other on the corresponding earth wire (green/yellow).
- Confirm your reading is open circuit or infinity.
- Repeat this step on the neutral conductor (blue or black) and its corresponding earth wire (green/yellow).
- If you have continuity between either the active-earth or neutral-earth combinations, there is a short in the heating cable.

Locating an Electrical Short

In order to locate the approximate position of the short, you need to take 4-Ohm resistance measurements:

1. From the active conductor (brown/red) to the neutral conductor (blue/black)
2. From the earth (green/yellow) to earth
3. From the active conductor (brown/red) to its corresponding earth (green/yellow)
4. From the neutral conductor (blue/black) to its corresponding earth (green/yellow)

The percentage ratio of the third and fourth Ohm measurement reveals the approximate location of the circuit short. For example: if the third Ohm measurement is 25% of the total of third-&-fourth Ohm measurement, the circuit short is approximately at 25% of the roll length, starting from the white end.

There are other ways to locate breaks or circuit shorts with underground fault detectors. Contact Amuheat Support for more information.

Troubleshooting

Repairing the Amuheat Strip Cable

Tools and Materials

To carry out a repair on the Amuheat Cable Strip heating element you will need the following tools and materials:

- Ferrule connectors
- Electrical wire
- Heat shrink
- Knife blade
- Open flame (lighter or match)
- Crimp tool or pliers
- Hot glue gun and glue sticks

Repair kits are available from Amuheat. The kits contents include ferrule connectors, electrical wire and heat shrink. Contact Amuheat support for more information.

Cable Repair

- Cut the damaged cable out from the cable run
- Using a knife blade, carefully strip the outer Tefzel layer from both ends of the exposed heating cable.
- Separate and twist the earth core away from the inner conductor on both ends of the exposed heating cable.
- Using an open flame, burn the inner Tefzel layer from the conductor wire from both ends of the exposed heating cable.
- Measure the length of electrical wire required to join the two exposed ends of the heating cable, and using the knife blade, strip away some of the insulation.
- Using a ferrule, connect the one end of the heating cable conductor to a piece of electrical wire and crimp the join.
- Slide a piece of heat shrink over the join, and seal under an open flame.
- Slide a second piece of heat shrink over the electrical wire. Using a second ferrule, connect the other end of the electrical wire to the other exposed heating cable conductor and crimp the join. Slide the second piece of heat shrink over the join and seal under an open flame.
- Repeat these steps to repair the earth wire.
- Conduct resistance and insulation tests on the heating cable prior to connection. Compare the results with those taken before, during and after the heating and flooring installation.
- Recess the join in a chiseled channel and cover with hot glue melt.

Electrical Connections

Connecting the Supply and Thermostat

Electrical Connections

Programmable floor-sensing thermostats offer the best control over floor temperature and maximises energy savings. Users can program specific days and times they want their floor heating system turned on or off.

All electrical connections including the thermostat must be performed by your electrician, in accordance with current AS/NZ 3000 wiring rules.

- The Amuheat Cable Strip cold tail leads must be pulled up, in a conduit, to the electrical supply/thermostat position on the wall.
- The supply must be connected on a RCD circuit.
- The heating cables earth wire must be connected to the mains supply earth.
- Conduct resistance and insulation tests on the heating cable prior to connection. Compare the results with those taken before, during and after the heating and flooring installation.

Thermostat Connections

It is recommended that you use an Amuheat thermostat to control your Amuheat floor heating system. Each thermostat is supplied with their own instructions.

- Refer to the thermostat installation instructions for proper wiring instructions.
- Remember to install and connect the Floor Temperature Sensor the designated terminal block on the thermostat control.
- Multiple heating mats are connected in parallel.
- The amps rating of the thermostat limits the total number of heating mats that can be controlled by a single thermostat. A contactor will be required when the amps drawn is greater than the thermostat amp rating.

Electrical Connections

Amuheat Cable Strip Test Log

Cable Strip Test Log

Job Address:				
Room/Zone:			Date:	
Installer name:			Contact number:	
Cable Strip Model Number:				
	Active to Neutral	Earth to Earth	Active to Earth	Neutral to Earth
<i>Ohm Reading</i>	<i>Ohms</i>	<i>Ohms</i>	<i>Infinity</i>	<i>Infinity</i>
Factory Resistance			<input type="checkbox"/> Check	<input type="checkbox"/> Check
Resistance Test (After Unpacking)			<input type="checkbox"/> Check	<input type="checkbox"/> Check
Resistance Test (After Install)			<input type="checkbox"/> Check	<input type="checkbox"/> Check
Connect the Element Fault Monitor to the Amuheat Cable Strip and Activate				
Resistance Test (Before Tiling)			<input type="checkbox"/> Check	<input type="checkbox"/> Check
Connect the Element Fault Monitor to the Amuheat Cable Strip and Activate				
Resistance Test (After Tiling)			<input type="checkbox"/> Check	<input type="checkbox"/> Check
Connect the Element Fault Monitor to the Amuheat Cable Strip and Activate				
Resistance Test (Before Electricals)			<input type="checkbox"/> Check	<input type="checkbox"/> Check

Contact Information

Technical Support and Contact Details

The Amuheat Cable Strip is designed and developed to ensure that installation is quick and simple. As with all electrical work, you must make certain you adhere to electrical standards.

Installation of the Amheat Cable Strip may constitute as prescribed electrical work in your state, and should be performed by a qualified tradesperson.

Installation and technical support is available **Monday - Friday** between the hours of **9.00am - 4.00pm** by contacting the Amuheat Support on (02) 9114 6934.

Additional information can be found on our website at www.amuheat.com.au.

Australia

Amuheat Pty Limited

ABN 86133998900

**Lg1 64 Talavera Road
Macquarie Park NSW 2113**

Line (02) 9114 6934

Fax (02) 8211 5180

Sales@amuheat.com.au

Http://www.amuheat.com.au

Warranty

The Amuheat Cable Strip is supported by a 5 year manufacturers warranty from the date of purchase.

The Amuheat Thermostats supplied with the Amuheat Cable Strip Kits carry a 1 year warranty from date of purchase.

Amuheat Pty Limited assumes no responsibility under this warranty for any damage to the Amuheat Cable Strip or Amuheat Thermostat caused by any trades people, visitors on the job site or damage caused as a result of post-installation work.

Under this warranty, Amuheat will provide the following remedy, in each case up to a limit equal to the sum payable to Amuheat at the time of purchase:

- If the Amuheat Cable Strip or Thermostat is determined to be defective in materials and workmanship, and has not been damaged as a result of misuse or misapplication, Amuheat will reimburse the costs for location of the fault, repair, as well as labor and materials required to perform the repair.
- If the repair of the Amuheat Cable Strip or Thermostat is not feasible, Amuheat will at their discretion replace or refund the original cost of the Amuheat Cable Strip or Thermostat.

In order to validate the warranty, the following conditions must be met.

- The Warranty Card must be completed and returned to Amuheat within 90 days of purchase.
- Proof of purchase will be required in the event of a claim - retain your receipt
- The Amuheat Cable Strip has been installed in accordance with the accompanying Installation Manual, any special written design or installation guidelines provided by Amuheat for the project and all local and building and electrical codes.
- The heater has been earthed and connected to a supply protected by a RCD circuit.
- The heater is used with a thermostat or control system approved by Amuheat.

Amuheat disclaims any warranty not provided herein. Amuheat further disclaims any responsibility for any consequential damages arising from ownership or use of the Product, including inconvenience, loss of use and costs of operating the Amuheat Cable Strip heater.

Warranty Registration Card

Owner

First Name: _____
Surname: _____
Address _____
Suburb: _____ State: _____ Code: _____
Telephone: _____ Mobile: _____
Email: _____
Date of Purchase: _____
Where did you find out about Amuheat:

Installer

First Name: _____
Surname: _____
Address _____
Suburb: _____ State: _____ Code: _____
Telephone: _____ Mobile: _____
Email: _____
Date Installed: _____

Amuheat Cable Strip

Model Number: _____	Room: _____
Model Number: _____	Room: _____
Model Number: _____	Room: _____
Model Number: _____	Room: _____
Model Number: _____	Room: _____

Amuheat Thermostat

Model Number: _____ Qty: _____

I confirm that I have read and understand the contents of the installation manual, and accept the limited conditions of Amuheat' liability under the warranty and confirm the Product is installed in accordance with this guide.

Signature: _____ Date: _____

**When completed please cut along the dotted line and return to:
Amuheat Warranty Registration, PO Box 975, North Ryde BC, NSW 1670**



© 2008 Amuheat Pty Limited

Lg1 64 Talavera Road Macquarie Park NSW 2113

PO Box 975 North Ryde BC NSW 1670

Tel: (02) 9114 6934 Fax: (02) 8211 5180

info@amuheat.com.au www.amuheat.com.au