



SUPERIOR UNDERFLOOR HEATING



ComfortHeat
Superior Floor Heating Systems

BUILDERS
DEVELOPERS
ARCHITECTS
ELECTRICIANS
RENOVATORS
TILERS

underfloor heating
our speciality



“COMFORT HEAT AUSTRALIA
IS SETTING THE STANDARD
IN UNDERFLOOR HEATING”

Comfort Heat stocks the full range of world leading underfloor heating products to suit all your heating needs, for all floor coverings, both electric and hydronic.

Large industrial projects to small bathroom renovations or even a simple DIY kit, Comfort Heat has the solutions to your heating requirements.

With floor sensing technology and superior twin conducting cable, Comfort Heat can provide cost effective and efficient underfloor heating solutions.




COMFORT HEAT UNDERFLOOR HEATING

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Comfort Heat offers the complete range of under floor heating products manufactured by DK Heating Systems Ltd, the world leader in the development of thin heating cables and mats. DK Heating Systems Ltd pioneered the development of the "Ultra Thin" heating mats for installation in the tile adhesive.

The superior cable construction of the Comfort Heat products means a better underfloor heating system.





All the heating cables have the following unique construction;

- Multi-stranded heating wires for cable flexibility
- Kevlar core for increased tensile strength
- Double insulation rated at 4000 Volts
- Construction exceeding the requirements of IEC800 Class II
- Manufactured to ISO9002 quality control standards

The Comfort Heat range of Electric underfloor heating products include:

- Heating cables for In-Slab heating
- Twin conductor cable for In-Screed heating
- Ultra-thin heating mats for heating in tile adhesive
- Under-carpet heating
- Under-floating timber floor heating

Together with our design facilities and ongoing technical support, we offer you the latest technology in cable construction currently available.

The Comfort Heat Range of Hydronic underfloor heating products include:

- Rehau Pex Pipe
- Gas Boilers
- Manifolds and Connectors
- Storage Tanks
- Heat Pumps
- Solar Hot Water Systems

With our range of Underfloor Heating systems we are able to provide comfortable warmth to those cold floor surfaces.

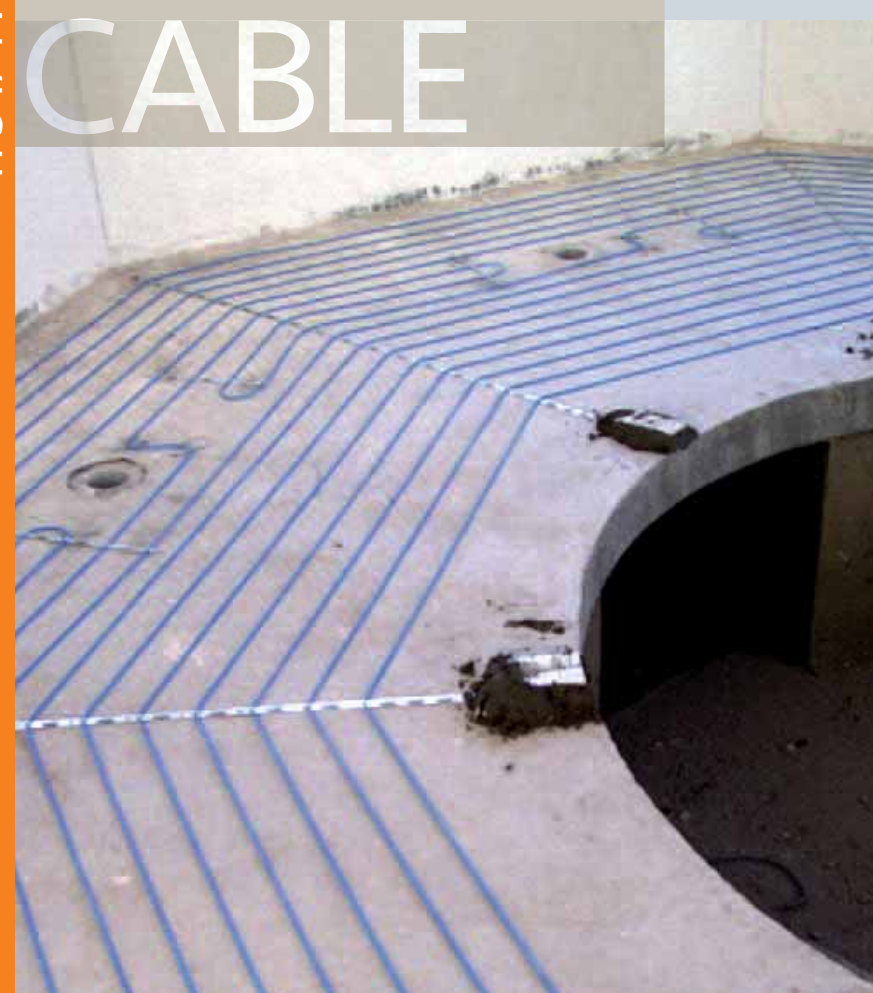
Additional benefits of underfloor heating to consider are:

- There is no other way of effectively warming tiles than 'Underfloor Heating'
- With a floor temperature maintained between 24-28 deg C, heat radiates up into the room overcoming and cold inertia and ensuring any supplementary heating is more efficient
- With floor heating the bathroom areas will be warmer - towels will dry while hanging on the towel rail and the likelihood of mould and damp will be greatly reduced
- The warm floor will quickly evaporate any water spilt, resulting in improved safety
- Underfloor Heating is safe and cost efficient
- Heating from the floor up is the most efficient way to heat a room
- Our range of direct heating systems will provide a comfortable warmth to those cold floor surfaces in new and renovated bathrooms, kitchens and living areas. Direct heating will provide a very quick response time and greater flexibility of temperature control.

Remember that all Comfort Heat floor heating is **floor sensor controlled**, maintaining a consistent floor temperature.

IN SCREED HEATING CABLE

TFS 17 TWIN



APPLICATIONS

The TFS 17 TWIN heating cable can be used in a variety of installations where a sand and cement bed is being used. The TFS 17 TWIN is suitable for large or small areas and is used in most wet areas. TFS 17 TWIN has a fast response time and will reach set temperature in approximately 1 - 2 hours.

CABLE TECHNOLOGY

As the TFS 17 TWIN screed cable is a twin conductor, there is no need to return the cable to the start of the installation. This makes installations very simple.

HEAT OUTPUT

The TFS 17 TWIN cable has a heat output of 175W per m² at 100mm spacing or 225W per m² at 75mm spacing. It is available in pre determined lengths ranging from 10m up to 120m. Comfort Heat staff can select the correct cable length and spacing for your heated area.

INSTALLATION

The TFS 17 TWIN cable is installed before the cement screed, beneath any type of floor covering (generally tile). It is recommended that you cover the cable with a minimum of 20mm bed of screed. TFS 17 TWIN heating cable is held on the floor by either metal retaining strip or for wet areas, clipped to wire mesh (does not affect

waterproofing), with a 100mm clearance from walls and fixtures. The TFS 17 TWIN can also be installed in a polished concrete floor.

SPECIAL REQUIREMENTS

Comfort Heat must be informed of any expansion joints in the slab. TFS 17 TWIN must not be installed over any expansion joints. For large areas multiple cables will be installed.

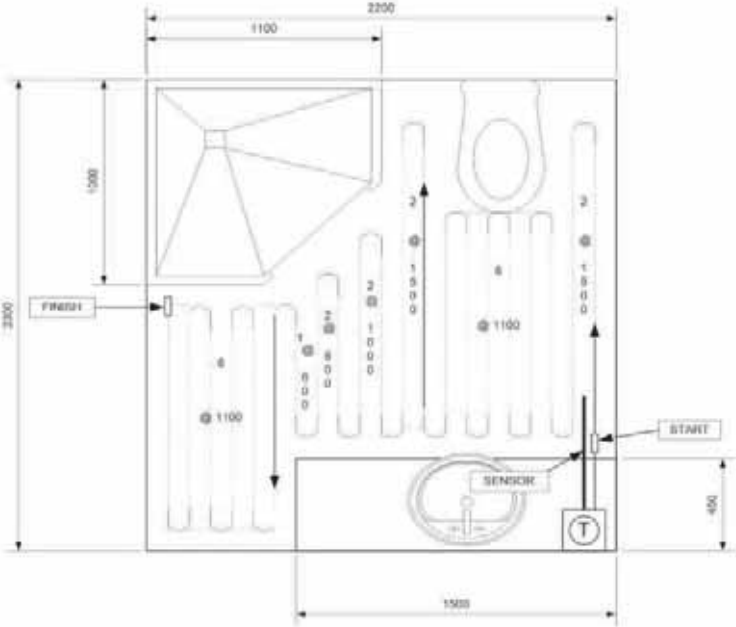
TECHNICAL DATA

Cable Type	Twin conductor heating cable with earth screen
Construction	Multi-stranded heating wire wound around kevlar core with double insulation, earth screen and sheath
Insulation Rating	4000 V
Rated Voltage	240 Volt AC
Rated output	17W/m
Cold Tail Length	4 metre with splice connection
Cable Diameter	5mm
Cable Standard	IEC800 Class II
Warranty	10 years

CROSS SECTION



TYPICAL DESIGN LAYOUT SCALE 1:20



Room	Client Name	Address	Quote No	By
Bath	Jane Doe	Surry Hills	98774	mp

Room	Heater/h	Heft Area	Wattage	Spacing
bat	TFS 1705M	2.15 sq m	425W	100mm

AVAILABLE SIZES AND LOADS

DESCRIPTION	LENGTH	WATTS
TFS 17 - 10	10m	170W
TFS 17 - 12.5	12.5m	213 W
TFS 17 - 15	15m	255W
TFS17 - 17.5	17.5m	298W
TFS 17 - 20	20m	340W
TFS 17 - 22.5	22.5m	383W
TFS 17 - 25	25m	425W
TFS 17 - 27.5	27.5m	468W
TFS 17 - 30	30m	510W
TFS 17 - 32.5	32.5m	553W
TFS 17 - 35	35m	595W
TFS 17 - 40	40m	680W
TFS 17 - 45	45m	765W
TFS 17 - 50	50m	850W
TFS 17 - 55	55m	935W
TFS 17 - 60	60m	1020W
TFS 17 - 70	70m	1190W
TFS 17 - 80	80m	1360W
TFS 17 - 90	90m	1530W
TFS 17 - 100	100m	1700W
TFS 17 - 120	120m	2040W





ULTRA-THIN HEATING CABLE

APPLICATIONS

The PV3L TWIN heating cable is perfect for small areas where the heating is required to be installed in the tile adhesive. PV3L TWIN has a fast response time and will reach set temperature in 1 - 2 hours.

CABLE TECHNOLOGY

As the PV3L TWIN is a return cable system, installation is made simple as the mat can be rolled out with no return cable. (perfect for small bathrooms).

HEAT OUTPUT

The PV3L TWIN cable has a heat output of 160W per m² and is available in 300mm wide fabricated mats with pre determined lengths ranging from 3m to 12m. Comfort Heat staff can select the correct mat for your heated area, with a 100mm clearance from walls and fixtures.

INSTALLATION

The PV3L TWIN cable is installed directly to the sub-floor beneath the tiles in the tile adhesive. PV3L mats are attached to the floor with either hot glue, nylon anchors or tape. The tile adhesive is laid directly over the heating mat.

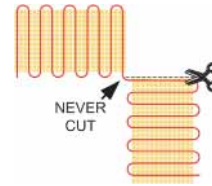
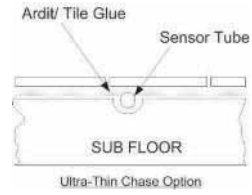
SPECIAL REQUIREMENTS

Due to the thin cable, the Comfort Heat 'Sensor Tube' (Ref: Sensor Tube Page) will need to be chased into the floor.

TECHNICAL DATA

Cable Type	Twin conductor heating cable woven into textile net
Construction	Multi-stranded heating wire wound around kevlar core with double insulation, earth screen and sheath
Insulation Rating	4000 V
Rated Voltage	240 Volt AC
Rated output	160W/m ²
Cold Tail Length	3.5 metre with splice connection
Cable Diameter	3mm
Cable Standard	IEC800 Class II
Warranty	10 years

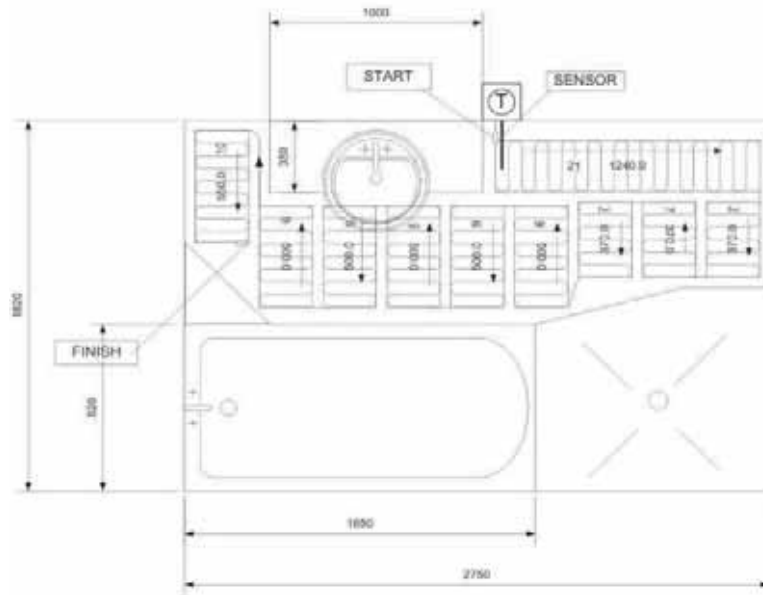
CROSS SECTION



AVAILABLE SIZES AND LOADS

DESCRIPTION	AREAm ²	LENGTH	WATTS
PV3L 3/0.9	0.9	0.3m x 3m	144W
PV3L 3/1.35	1.35	0.3m x 4.5m	216W
PV3L 3/1.8	1.8	0.3m x 6m	288W
PV3L 3/2.25	2.25	0.3m x 7.5m	360W
PV3L 3/2.7	2.7	0.3m x 9m	432W
PV3L 3/3.15	3.0	0.3m x 10.5m	504W
PV3L 3/3.6	3.6	0.3m x 12m	576W

TYPICAL DESIGN LAYOUT SCALE 1:20



Room	Client Name	Address	Quote No	By
Bath	Jana Doe	Surry Hills	87554	mp

Room	Heater's	Nett Area	Wattage	Spacing
Ultra Thin	PV3L 3/1.8	1.47 sq m	288W	100mm





APPLICATIONS

The PVS 5 heating cable is perfect for renovations or new homes where the heating is required to be installed in the tile adhesive (no sand and cement bed) usually due to floor height limitations. PVS 5 has a fast response time and will reach set temperature in 1 - 2 hours.

CABLE TECHNOLOGY

The PVS 5 is a flexible double insulated single cable system woven into a textile mat, with a multi-strand heating cable and kevlar core, giving superior strength.

HEAT OUTPUT

The PVS 5 cable has a heat output of 160W per m² and is available in 500mm wide fabricated mats and pre determined lengths ranging from 2m to 16m. Comfort Heat staff can select the correct mat for your heated area, allowing 100mm clearance from walls and fixtures.

INSTALLATION

The PVS 5 cable is installed directly to the sub-floor beneath the tiles in the tile adhesive. PVS 5 mats are attached to the floor with either hot glue, nylon anchors or tape. The tile adhesive is laid directly on top.

SPECIAL REQUIREMENTS

Due to the thin cable, the Comfort Heat 'Sensor Tube' (Ref: Sensor Tube Page.) needs to be chased into the floor. Comfort Heat must be informed of any expansion joints in the slab.

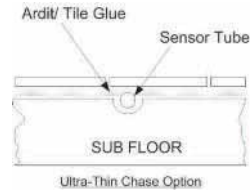
TECHNICAL DATA

Cable Type	Single conductor heating cable with earth screen
Construction	Multi-stranded heating wire wound around kevlar core with double insulation, earth screen and sheath
Insulation Rating	4000 V
Rated Voltage	240 Volt AC
Rated output	160W/m ²
Cold Tail Length	2.5 metre with splice connection
Cable Diameter	3.5mm
Cable Standard	IEC800 Class II
Warranty	10 years

ULTRA-THIN HEATING CABLE

PVS 5

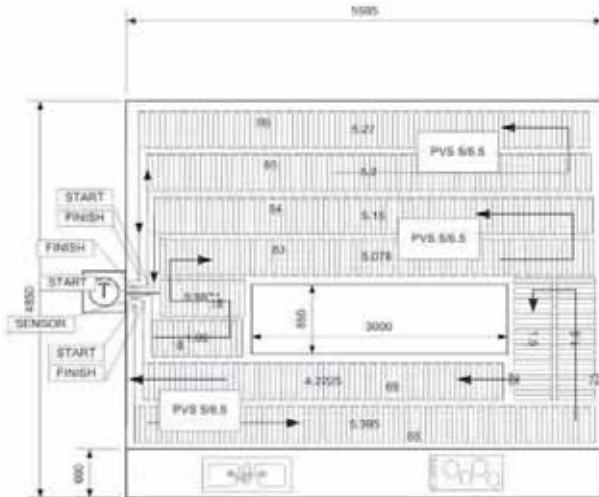
CROSS SECTION



AVAILABLE SIZES AND LOADS

DESCRIPTION	AREAm ²	LENGTH	WATTS
PVS 5/1.0	1.0	0.5m x 2.0m	160W
PVS 5/1.5	1.5	0.5m x 3.0m	240W
PVS 5/2.0	2.0	0.5m x 4.0m	320W
PVS 5/3.0	3.0	0.5m x 6.0m	480W
PVS 5/3.5	3.5	0.5m x 7.0m	560W
PVS 5/4.0	4.0	0.5m x 8.0m	640W
PVS 5/4.5	4.5	0.5m x 9.0m	720W
PVS 5/5.0	5.0	0.5m x 10.0m	800W
PVS 5/5.5	5.5	0.5m x 11.0m	880W
PVS 5/6.0	6.0	0.5m x 12.0m	960W
PVS 5/6.5	6.5	0.5m x 13.0m	1040W
PVS 5/7.0	7.0	0.5m x 14.0m	1120W
PVS 5/7.5	7.5	0.5m x 15.0m	1200W
PVS 5/8.0	8.0	0.5m x 16.0m	1280W

TYPICAL DESIGN LAYOUT SCALE 1:50



Room	Client Name	Address	Quote No	By
Kitchen	Jane Doe	Surry Hills	57096	mp

Room	Heater/s	Nett Area	Wattage	Spacing
Ultra Thin	2" PVS 5/5.5 1" PVS 5/5.5	15.71 sq m	2983W	100mm



IN SLAB HEATING CABLE

HCS-BR



APPLICATIONS

The HCS-BR heating cable is used for In-Slab heating applications. The HCS-BR is suitable for large areas where the slab is used for heat storage. The cheapest electricity needs to be used, either off-peak, if available, or using a timer to ensure off peak rates. HCS-BR has a slow response time and will take between 10 - 24 hours to heat up, depending on slab thickness.

CABLE TECHNOLOGY

The HCS-BR is a flexible double insulated single cable system, with a multi-strand heating cable and kevlar core, where required, giving superior strength to prevent cable failure due to slab movement.

HEAT OUTPUT

The HCS-BR cable has a heat output of 160W per m² at 200mm spacing and is available in pre-determined lengths ranging from 30m to 200m. Comfort Heat staff can select the correct cable length for your heated area, with a 200mm clearance from walls and fixtures.

INSTALLATION

The HCS-BR cable is installed before the slab is poured. The cable is attached to either the mesh (ie. F72) or the reinforcing rods that have 200mm centres (one direction only).

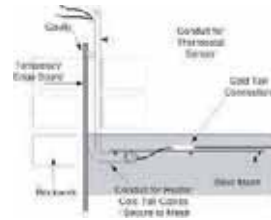
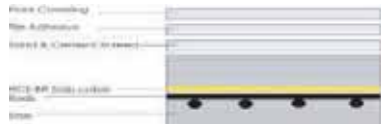
SPECIAL REQUIREMENTS

HCS-BR can not be installed across expansion joints. Comfort Heat must be informed of any expansion joints in the slab. For large areas multiple cables will be installed.

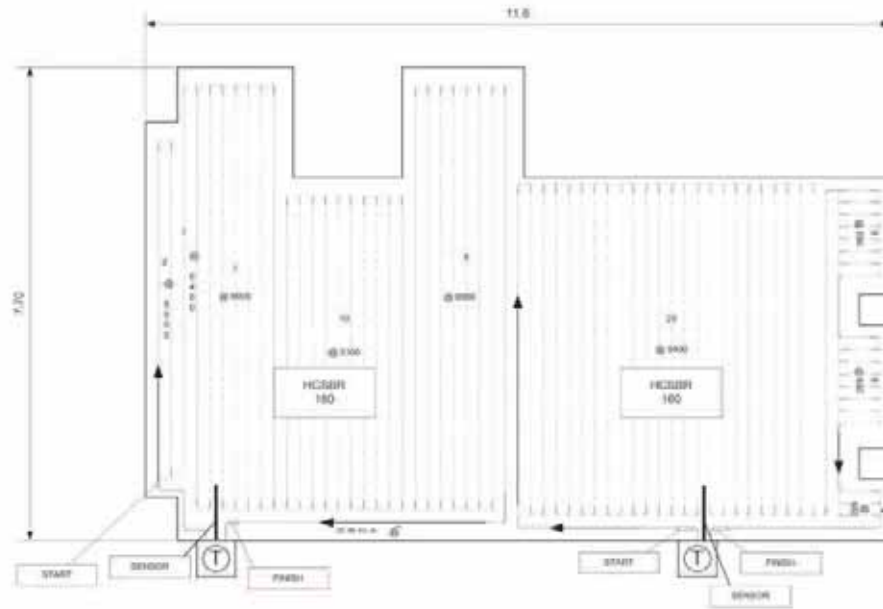
TECHNICAL DATA

Cable Type	Single conductor heating cable with earth screen
Construction	Multi-stranded heating wire wound around kevlar core with double insulation, earth screen and sheath
Insulation Rating	4000 V
Rated Voltage	240 Volt AC
Rated output	30W/m
Cold Tail Length	4 metre with splice connection
Cable Diameter	5.5mm
Cable Standard	IEC800 Class II
Warranty	10 years

CROSS SECTION



TYPICAL DESIGN LAYOUT SCALE 1:75

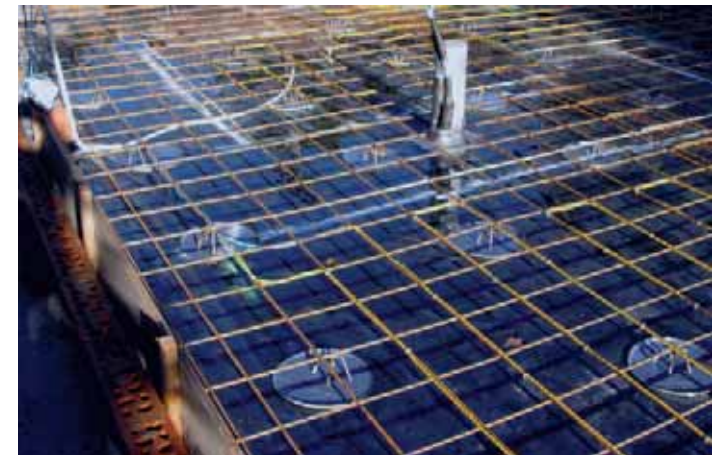


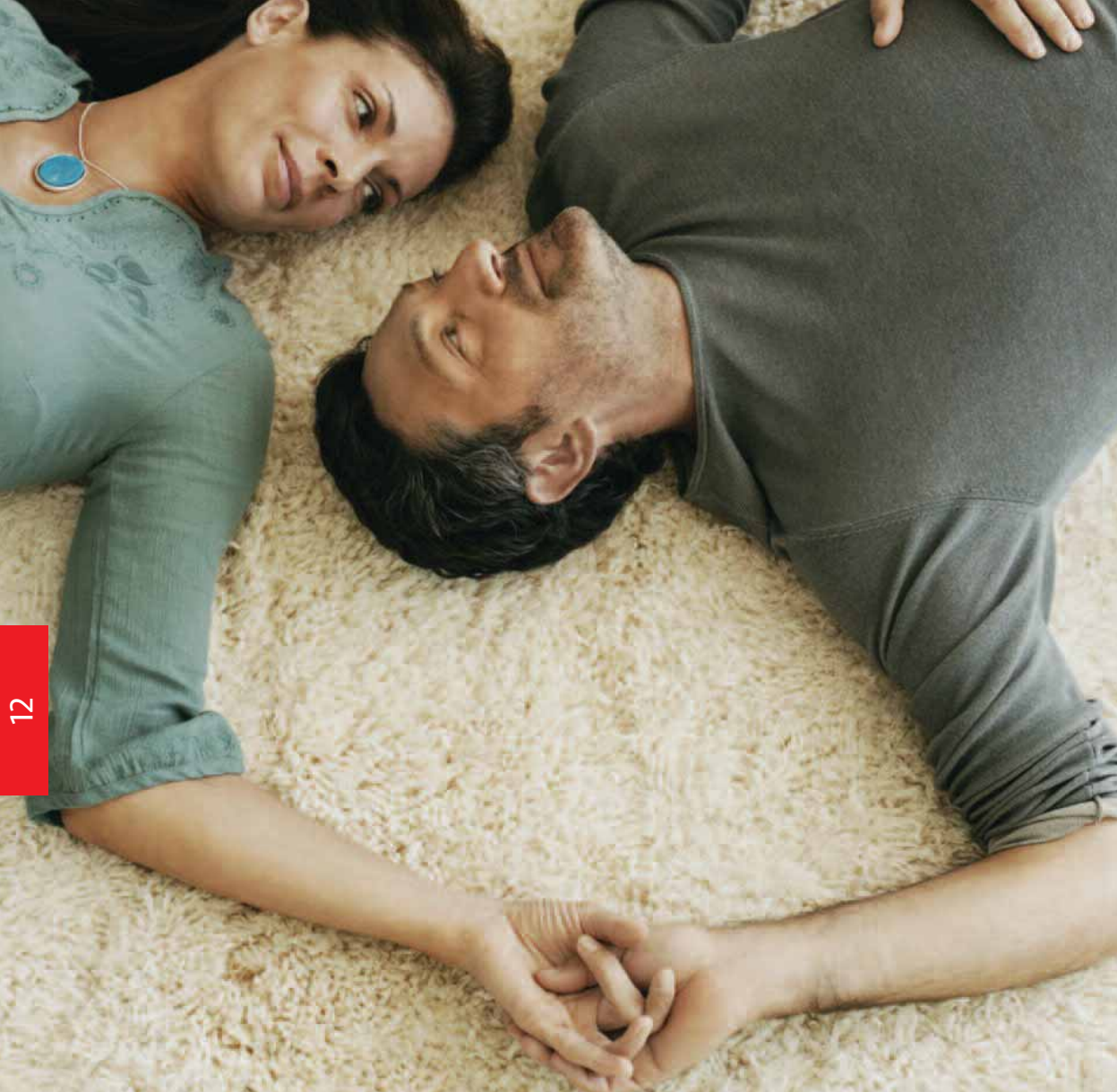
Room	Client Name	Address	Quote No	By
Living	Jane Doe	Surry Hills	88774	mp

Room	Height	Nett Area	Wattage	Spacing
Tray	HCSBR 180 & 180	60.11 sq m	10200W	200mm

AVAILABLE SIZES AND LOADS

DESCRIPTION	LENGTH	WATTS
HCS-BR-30	30m	900W
HCS-BR-40	40m	1200W
HCS-BR-50	50m	1500W
HCS-BR-65	65m	1950W
HCS-BR-80	80m	2400W
HCS-BR-100	100m	3000W
HCS-BR-115	115m	3450W
HCS-BR-130	130m	3900W
HCS-BR-145	145m	4300W
HCS-BR-160	160m	4800W
HCS-BR-180	180m	5200W
HCS-BR-200	200m	6000W





UNDER-CARPET HEATING MAT

MILLIMAT

APPLICATIONS

The Millimat heating mat is specifically developed for warming carpeted floors. The Millimat is suitable for large or small areas. The Millimat has a fast response time and should reach your set temperature in the first hour.

CABLE TECHNOLOGY

The Millimat is double insulated heating cable woven into a textile webbing. The Millimat has a braided earth casing.

HEAT OUTPUT

The Millimat has a heat output of 160W per m² and is available in 300mm, 750mm and 1000mm wide fabricated mats, in a variety pre-determined lengths. Comfort Heat staff select the correct mat for your heated area, with a 200mm clearance from walls and fixtures.

INSTALLATION

The Millimat is installed on top of the underlay and beneath the carpet. The mats are attached to the underlay with tape.

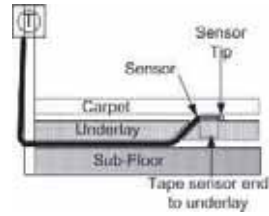
SPECIAL REQUIREMENTS

No sensor tube is used with under-carpet installations. The floor sensor is located between the heating wires.

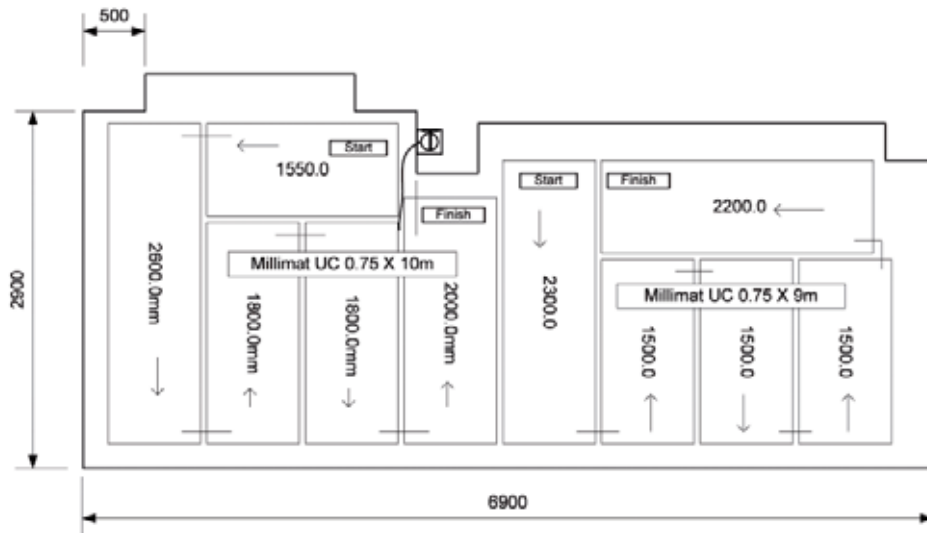
TECHNICAL DATA

Cable Type	Single conductor heating cable with earth screen
Construction	Multi-stranded heating wire wound around kevlar core with double insulation, fully braided earth shield on a woven textile webbing
Insulation Rating	4000 V
Rated Voltage	240 Volt AC
Rated output	160W/m ²
Cold Tail Length	4 metre with splice connection
Cable Diameter	2mm
Cable Standard	IEC800 Class II
Warranty	5 years

CROSS SECTION



TYPICAL DESIGN LAYOUT SCALE 1:50



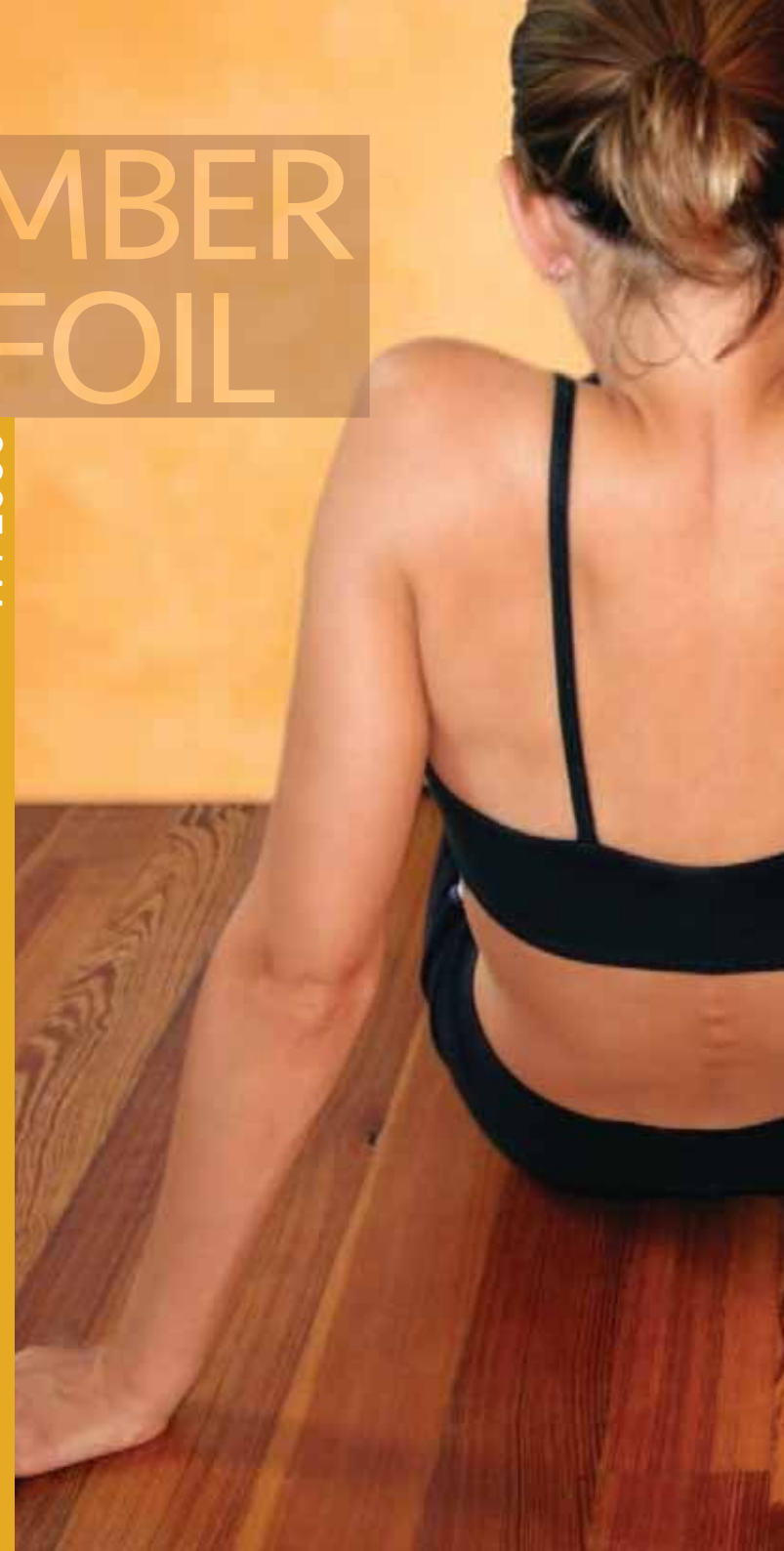
Room	Heater/s	Nett Area	Wattage	Spacing
Area One	Millimat UC 0.75*10 & 9	1117.68 m	2280 W	10100mm/m

AVAILABLE SIZES AND LOADS

DESCRIPTION	LENGTH	WATTS
millimat UC 300-5m	300mm x 5m	240W
millimat UC 300-6m	300mm x 6m	288W
millimat UC 300-7m	300mm x 7m	336W
millimat UC 300-8m	300mm x 8m	384W
millimat UC 300-10m	300mm x 10m	480W
millimat UC 300-12m	300mm x 12m	576W
millimat UC 750-5m	750mm x 5m	600W
millimat UC 750-6m	750mm x 6m	720W
millimat UC 750-7m	750mm x 7m	840W
millimat UC 750-8m	750mm x 8m	960W
millimat UC 750-10m	750mm x 10m	1200W
millimat UC 750-12m	750mm x 12m	1440W
millimat UC 750-14m	750mm x 14m	1680W
millimat UC 750-16m	750mm x 16m	1920W
millimat UC 1000-5m	1000mm x 5m	800W
millimat UC 1000-6m	1000mm x 6m	960W
millimat UC 1000-7m	1000mm x 7m	1120W
millimat UC 1000-8m	1000mm x 8m	1280W

UNDER TIMBER HEATING FOIL

WT 2000



APPLICATIONS

The WT 2000 heating foils are specifically developed for warming of floating timber floors. The WT 2000 heating foils are suitable for large or small areas and have a fast response time, reaching your set temperature in 1 - 1.5 hours.

CABLE TECHNOLOGY

The WT 2000 heating foils are a thin, double insulated heating cable woven into a textile webbing with an aluminium foil attached to one surface, to ensure even heat distribution.

HEAT OUTPUT

The WT 2000 heating foils have a heat output of 150W per m². The WT 2000 heating foils are available in pre-determined lengths of 500mm wide and 2m - 16m long.

INSTALLATION

With floating floors the WT 2000 heating foils are installed directly beneath the timber floor and above the underlay.

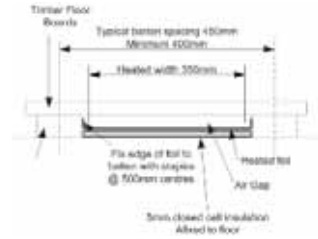
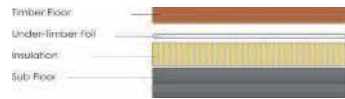
SPECIAL REQUIREMENTS

The WT 2000 heating foils must be controlled by floor sensing thermostats so the floor does not exceed 25 deg C.

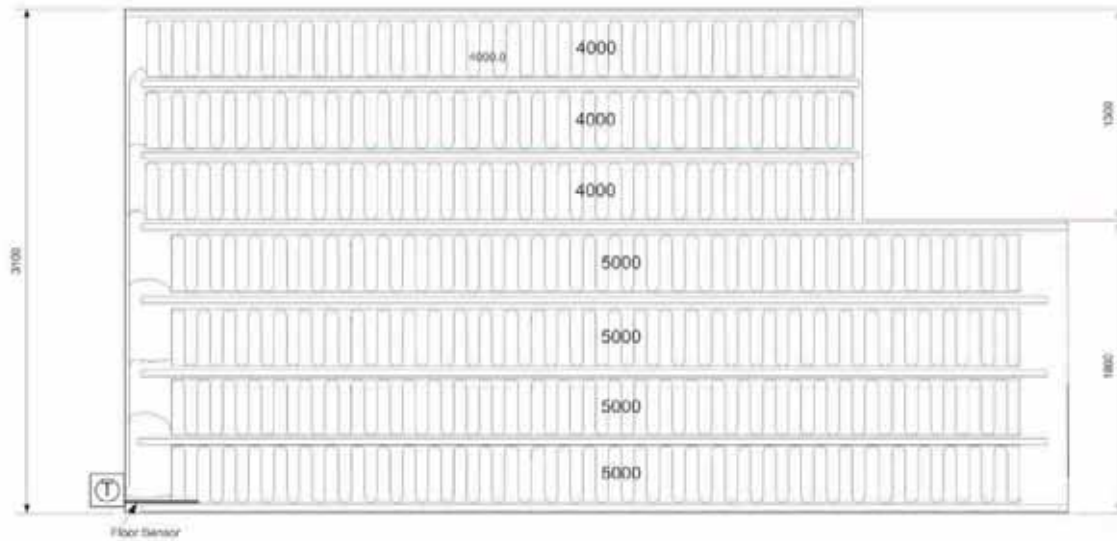
TECHNICAL DATA

Cable Type	Single conductor heating cable with earth screen
Construction	Multi-stranded heating wire wound around kevlar core with double insulation, on a woven textile webbing coated with aluminium foil
Insulation Rating	4000 V
Rated Voltage	240 Volt AC
Rated output	150W/m ²
Cold Tail Length	2.5 metre
Cable Diameter	1.6mm
Cable Standard	IEC800 Class II
Warranty	5 years

CROSS SECTION



TYPICAL DESIGN LAYOUT SCALE 1:25



Room	Client Name	Address	Ref No	By
Living	Jane Doe	Surry Hills	87447	mp

Room	Heater/s	Heft Area	Wattage	Spacing
Fixed timber	WFPS			

AVAILABLE SIZES AND LOADS

DESCRIPTION	LENGTH	WATTS
2000AL		
2000AL 0.5/2	2m	150W
2000AL 0.5/3	3m	225W
2000AL 0.5/4	4m	300W
2000AL 0.5/6	6m	450W
2000AL 0.5/8	8m	600W
2000AL 0.5/10	10m	750W
2000AL 0.5/12	12m	900W
2000AL 0.5/14	14m	1050W
2000AL 0.5/16	16m	1200W



Comfort Heat has introduced Hydronic floor heating systems to its product range. This means heating larger floor areas is not only extremely comfortable, but energy efficient too, and this keeps running costs down.

Hydronic floor heating relies on pipes laid in the concrete slab or screed to carry heated water. The water can then be heated by various energy sources. The most popular is a natural gas boiler, but other sources can be used such as heat pumps, solar hot water systems and wood fired stoves.

Due to the plumbing infrastructure required, hydronic floor heating is more suitable for larger heated areas of at least 100m², although smaller areas could be cost effective if the energy requirements are incorporated into the entire project design.

The hydronic heating pipe is installed in circuits of 100m which are then connected to a manifold. The manifold is used to supply the circuits with hot water and maintain constant water flow. The total system is designed by qualified engineers to ensure the best possible outcome for any individual project. As the design and materials are crucial elements of an hydronic heating system, Comfort Heat can design and supply a complete hydronic heating system and ship anywhere in Australia.

The major elements in the hydronic floor heating system are:

MANIFOLD

The manifold distributes and balances the water flow to each piping circuit on the floor. Comfort Heat uses a modular manifold which includes circuit isolation valves, balancing adjustments, automatic air-bleed and temperature indicators. With the addition of an electric solenoid motor it is possible to turn a pipe circuit on/off either for temperature control or zone isolation.

FLOOR PIPING

Comfort Heat use a PEX pipe specially designed for floor heating. This pipe is multi-layered and includes an oxygen barrier. The typical maximum pipe length is 100m per circuit. They are installed in the concrete slab or cement screed with a coverage of at least 50mm from the top of the pipe.

HEAT SOURCES

The Hydronic floor heating system can utilise a variety of heat sources. The most popular is a Natural Gas packaged boiler, however, solar evacuated tubes, Heat Pumps and Wood Stoves can also be used to heat the water in the system.

THERMOSTAT

The thermostat controls the operation of the circulating pump. Comfort Heat incorporates a thermostat with both air and floor sensing controls to ensure the optimum operation of the heating system. The thermostat also includes a 7 day digital time-clock.

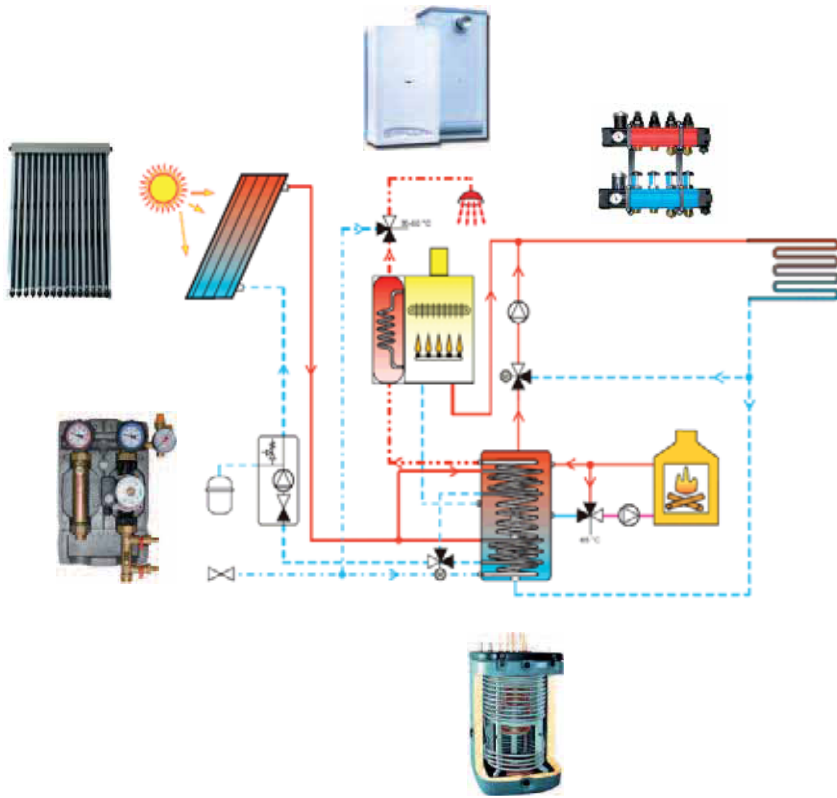
TECHNICAL DATA

Pipe Type	PEX-A
Durability	100% impermeable to oxygen and water vapour diffusion
Pipe Diameter	12mm - 16mm
Pipe Spacing	100 - 200mm
Warranty	10 years



HYDRONIC FLOOR HEATING

INTEGRATED SOLAR HEATING SYSTEM WITH DOMESTIC HOT WATER



TYPICAL DESIGN LAYOUT SCALE 1:100





ELECTRIC UNDERFLOOR DIY KITS

APPLICATIONS

All Comfort Heat underfloor heating systems are available in kits. All kits include the required materials to complete the installation.

ELECTRIC UNDERFLOOR KIT INCLUSIONS

- WARMTOUCH heating cables or mats
- Electronic wall thermostat MTC/MCC/ETN with floor sensor
- Floor Sensor Tube
- Retaining Mesh or Strip
- Metal retaining Clips and Pliers or Cable ties
- Detailed Installation Instructions
- Cable Design Layout
- Electrical loads and wiring diagrams
- Optional: Cable monitor (to detect damage during the slab pour)

INSTALLATION

All kits arrive with a detailed installation guide with step by step instructions to install your heating cable. In addition you will receive a start to finish cable design layout displaying your cable layout plan.

ELECTRICAL REQUIREMENTS

You need a qualified electrician to do your final connection. All floor heating loads are supplied for you and your electrician.

SPECIAL REQUIREMENTS

All kits are quoted direct from the floor plan. All fixtures and walls must be clearly marked as floor heating is installed with a minimum 100mm clearance off walls or permanent fixtures. Comfort Heat must be informed of any expansion joints in the slab. Extremely large areas may require junction points.

TECHNICAL SUPPORT

Comfort Heat prides itself on excellent customer service and technical support. All our kits are supplied with a step by step installation guide and detailed design layout. If you, or your electrician have any installation questions or require any technical information please contact Comfort Heat on 1300 13WARM.

SUPPLIED KIT



Mesh



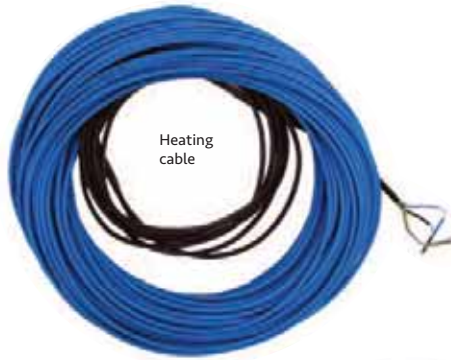
Metal Clips



Thermostat



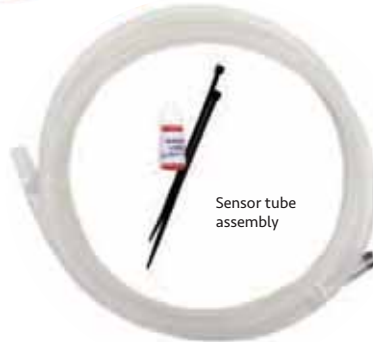
Pliers



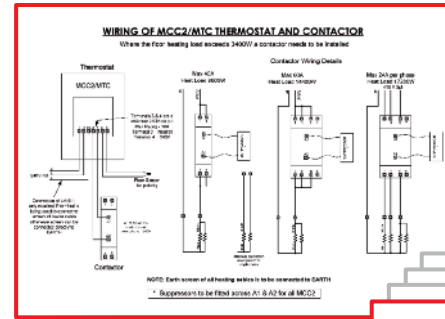
Heating cable



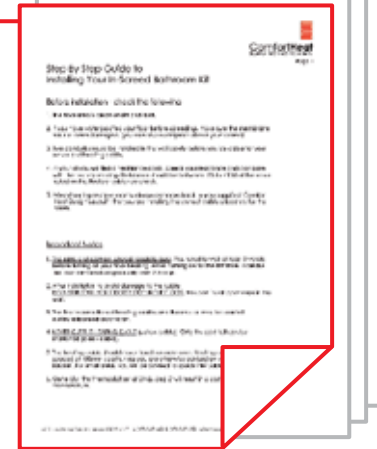
Sensor



Sensor tube assembly



Electrical Loads and Wiring Diagrams



Detailed Installation Instructions



THERMOSTAT RANGE

The Comfort Heat range of thermostats are specifically designed for underfloor heating systems. The thermostats are all vertically flush mounted and include a floor sensor to maintain consistent temperature.

STANDARD THERMOSTAT TYPE MTC

Adjustable temperature control with floor sensor allows you to maintain a consistent temperature. On/Off function. Compatible with home automation systems.

PROGRAMMABLE THERMOSTAT TYPE MCC

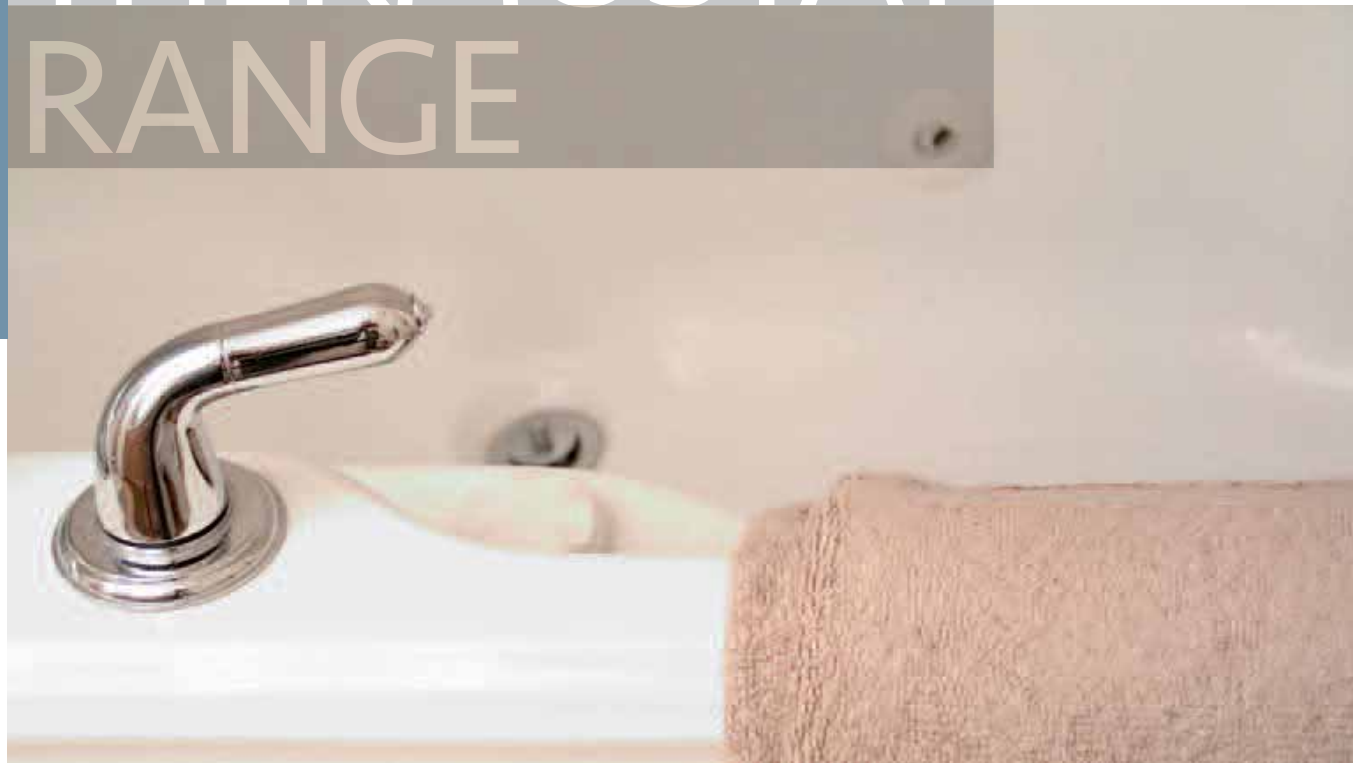
Digital, 7 day / 4 event programmable thermostat, allowing you to program On/Off times and temperature, with a range of setback functions. IP 21 rated.

REMOTELY LOCATED THERMOSTAT TYPE ETN

DIN-rail mounted thermostat with setback functions, located within the power board. Compatible with home automation systems.

TECHNICAL DATA

Supply Voltage	240Vac, 50/60hz
Output Relay	16A SPST, 3600W max
Switching Differential	4000 V
Built-in-Switch	2 pole 16A
Temperature Range	0/+50 deg C
Housing/protection	IP20 and IP21
Dimensions (HxWxD)	115mm x 84mm x 58mm
Sensor Length	3m
Warranty	2 years



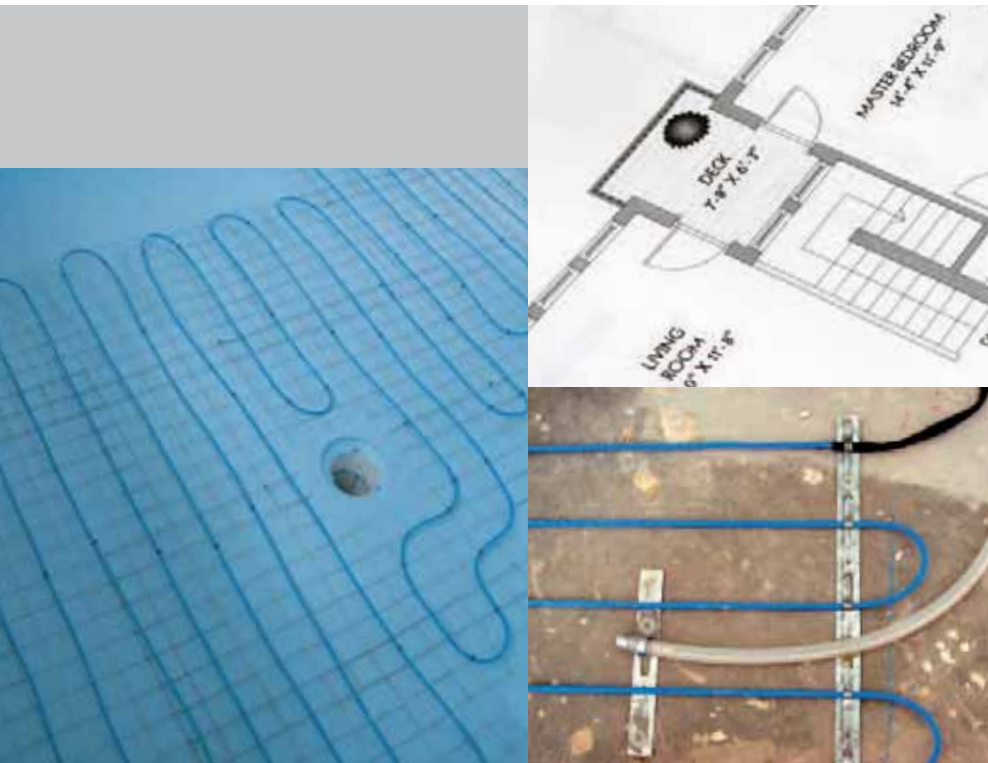
Standard
Thermostat
Type MTC



Programmable
Thermostat
Type MCC



Remotely
Located
Thermostat
Type ETN



FLOOR SENSOR

FLOOR SENSOR

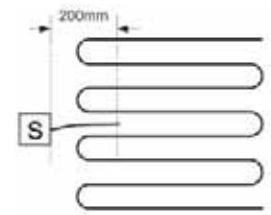
All Comfort Heat thermostats include a floor sensor maintaining consistent floor temperature. Floor sensing thermostats are the safest and most energy efficient floor heating regulators ensuring the floor is not overheated, but kept at the desired temperature.

SENSOR LOCATION

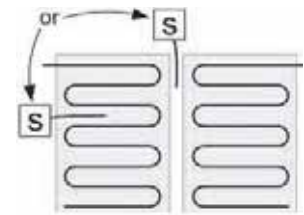
The sensor end should be located in the floor between the heating cables so that it measures the typical floor temperature. The sensor tube should not pass over or under the heating cable.

SENSOR TUBE

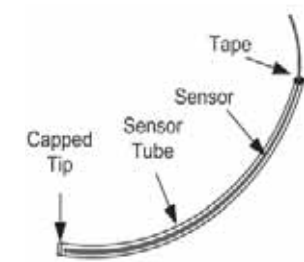
All Comfort Heat sensors are installed in a sensor tube. (12mm plastic tube with capped end) This allows the sensor to be removed if required, without lifting floor tiles.



Mats - Between the loops of the mat or between adjacent mats and 100mm - 150mm in from mat edge.



Cables - Between adjacent cables and min 200mm in from the wall.



MIRROR HEAT



APPLICATIONS

Specially designed, ultra-thin heating element which is easily attached to the rear of the mirror to keep the mirror clear in the steamiest of conditions.

SIZES AND HEAT OUTPUT

Mirror Heat 360mm * 500mm	90Watts	240V
Mirror Heat 570mm * 750mm	110Watts	240V
Mirror Heat 550mm * 1550mm	196Watts	240V
Mirror Heat 390mm * 460mm (includes transformer)	50Watts	24V

INSTALLATION

Mirror Heat pads are taped to the back of the mirror before hanging. Mirror Heat is connected directly to a standard power outlet. Mirror Heat must be installed and connected in accordance with standards AS/NZ3000:2000. Electrical work must be carried out by a licensed electrician.

TECHNICAL DATA

Heater Type	Double insulated polyester film. Aluminium based heating element etched to surface
Supply Voltage	230/240V
Heater Thickness	0.4mm (Connection point 2mm)
Cable Length	1000mm
Protection	IP34 class 2
Surface Temperature	Approx. 30 deg C (45 deg C max)
Warranty	5 years



Comfort Underlay is a simple, yet effective, mobile heating unit placed directly under your existing rug. At an affordable price it is ideal for the lounge room or in front of a television. Plug it in and enjoy warmth in your home.

TECHNICAL DATA

Cold Tail Length	4 metres
Size	1.30 x 1.80m
Output	480W
Size	1.5 x 2.1m
Output	630W

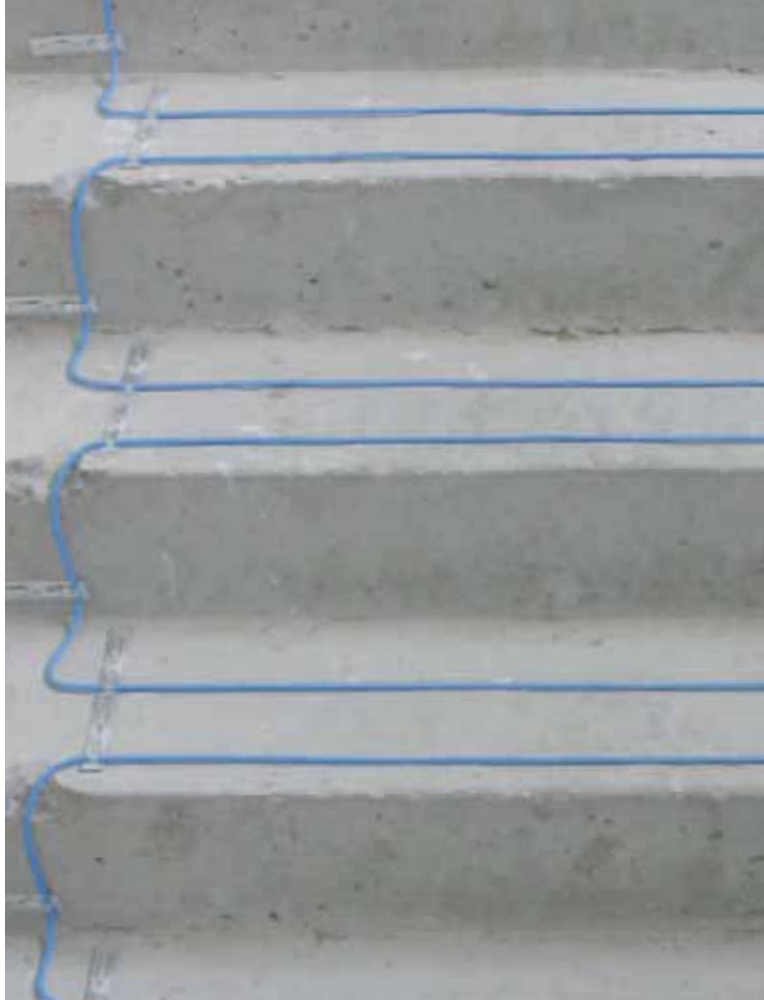


Comfort Heat Mats are mobile heating units placed directly under your feet. They are ideal for times of extended inactivity such as using the computer, working in a factory or watching television.

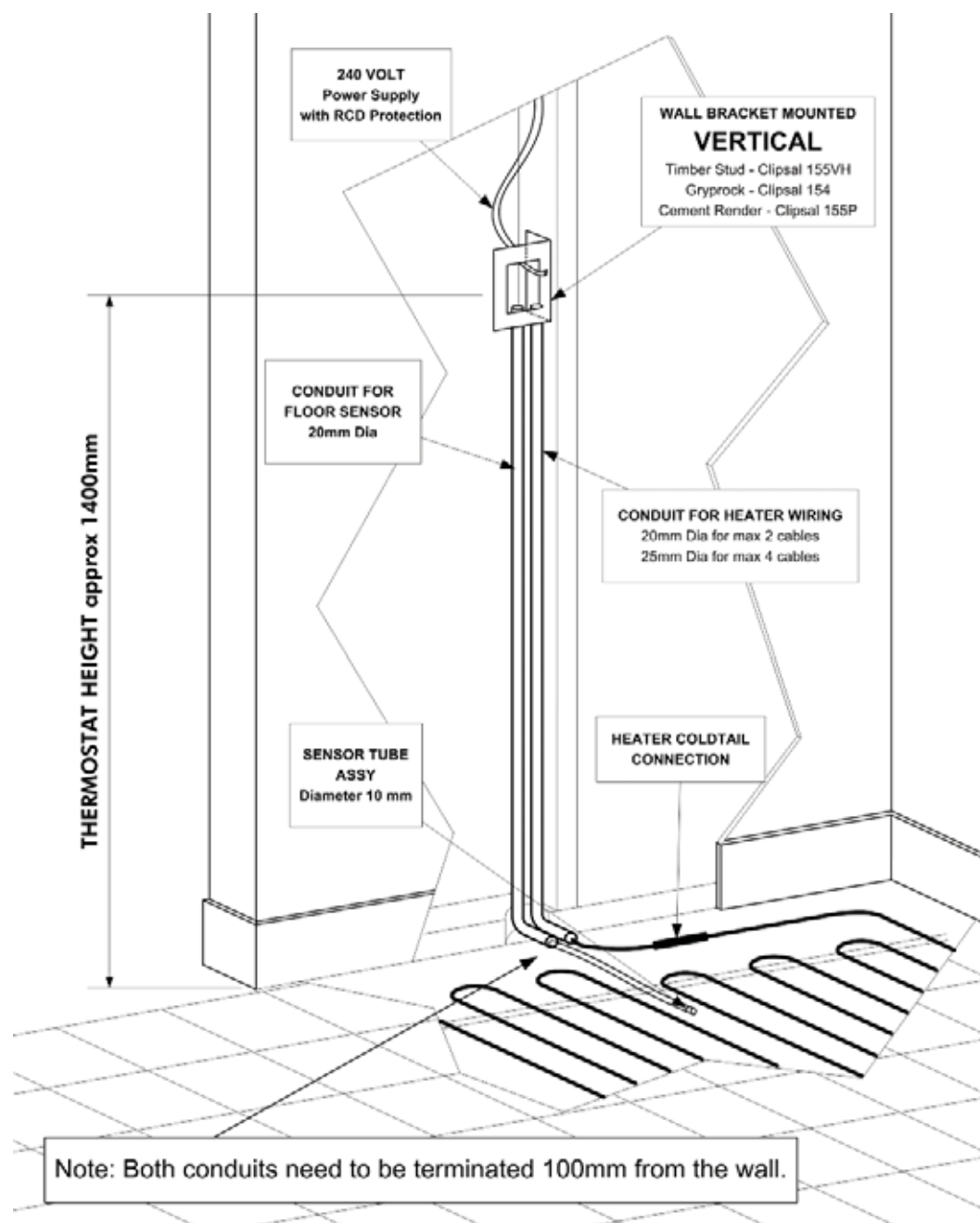
TECHNICAL DATA

Cold Tail Length	1.5 metres
Size	0.5m x 0.7m
Output	65W
Size	0.6 x 0.9m
Output	95W

HEAT UNDERLAYS & MATS

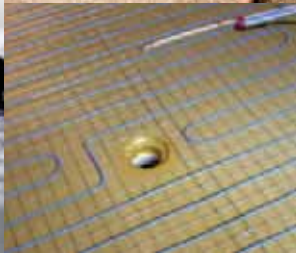
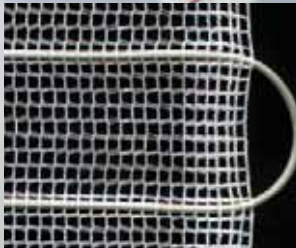


CONDUIT REQUIREMENTS FOR ELECTRIC UNDERFLOOR HEATING



NOTE - ALL ELECTRICAL WORK MUST COMPLY WITH AS/NZ 3000:2000

QUESTIONS & ANSWERS



How much does electric underfloor heating cost to run?

Running costs depend on the installed heating capacity and electrical tariff. As a guide, depending on the room's heat loss and the floor temperature selection, a bathroom with an area of 3m² would cost approximately 4.5 cents per hour to heat to the desired temperature (which takes approx 1 hour), then 2 cents per hour to maintain. (Based on a bathroom with a heating capacity of approximately 480 Watts, on a demand tariff average of 10 cents per k/W hour).

What if the electric cable is damaged after installation?

Comfort Heat has a team of electrical engineers and technical staff working on new technology to improve underfloor heating installations. This includes technology to accurately locate damage to heating cables in the floor. If your cable is damaged during or after installation, Comfort Heat can locate the fault, lift the tile and repair the cable, with minimal inconvenience.

How long will it take for the floor to heat up?

The time it takes for the floor to reach a set temperature will depend on how close to the floor surface the heat is. With In-slab installations, either electric or hydronic, the heat warms the large block of concrete and takes many hours to reach the surface. For electric slab heating timed to use the cheapest electricity, it could take three cycles of heating to reach temperature. Hydronic will take less elapsed time as the heat source is available 24 hours per day.

In screed installations will take less time – up to 3 hours – to reach temperature and under carpet would be at temperature within the hour.

What type of electric heating cable is it?

The heating element is multi stranded for flexibility and is wound around a kevlar core so the heating wire is not subject to any tensile loading during installation or from movement in the floor. By coiling the heating wire around the kevlar the heating element also has room to expand and contract without any damage to the cable or heating wire. The heating element is double insulated (di-electrical) with a rating of 4000V. The cable has an earth screen and an external sheath for cable protection. Our range of cable is the most advanced available and its construction is totally designed for safe reliable and long term operation.

What are the on-site installation requirements for electric floor heating?

- Provision of suitable 240V Power Supply to each floor heating with suitable earth leakage protection.
- A suitably sized (advised by Comfort Heat) conduit for the heating cold tails from the thermostat location to the floor.
- An additional 20mm conduit is required for the thermostat sensor.
- The installation of all thermostats and final connections will be carried out by your on-site electrician.

warmth from
the floor up



ComfortHeat
Superior Floor Heating Systems

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