



The skirting board that **heats** your home™



Benefits of using the system



True radiant heat

Minimal air movement and drafts create real comfort.



Energy efficient

Even, all-around heat uses less energy yet provides real warmth.



Fast and responsive

No under heating or over heating.



Simple installation

Installed with minimal disturbance or modification to your home.



Works with any floor finish

Carpet, laminate, timber, vinyl with equal performance.



Free up wall space

Create a more spacious and versatile environment.

The **smart** alternative to panel radiators, storage heaters and underfloor heating.





Feel

the difference...



The skirting board that *heats* your home...

Imagine a home without radiators. Imagine a home where you can decide the layout and arrange the furniture however you want. Imagine a controllable, comfortable, energy efficient heating system that responds in minutes, and works just as well with any floor covering or finish.

ThermaSkirt is a radically simple, innovative and proven room heating system that combines the heating into a stylish, sleek and unobtrusive skirting board. No more storage heaters, no more panel radiators and no more underfloor heating. Available in wet and electric versions.



'Wet' or Hydronic



Direct electric

ThermaSkirt is a simple installation onto any suitable central heating system or electrical heating circuit, whether the project is a new build apartment or a refurbished manor house. Heating from low-level, and from all-around the room is a proven way to save energy without sacrificing comfort. No drafts, no hot spots and no under-heating - whatever the floor construction or finish.

With more than 40,000 systems installed worldwide, ThermaSkirt is the No1 alternative to radiators and underfloor heating.

ThermaSkirt: The World's Smartest Heating System.



When installed by our trained engineers, ThermaSkirt will give you a no quibble 10 year parts warranty against manufacturing defect.

THE SIMPLE, SAFE AND
ENERGY EFFICIENT SOLUTION



ThermaSkirt Systems have been evaluated and tested by some of the world's leading institutes for its efficiency, performance, reliability and safety.

It is such a simple,
smart idea. I wish
I had thought of it



D. Kerr

Managing Director
RKCK Mechanical & Electrical Services Limited

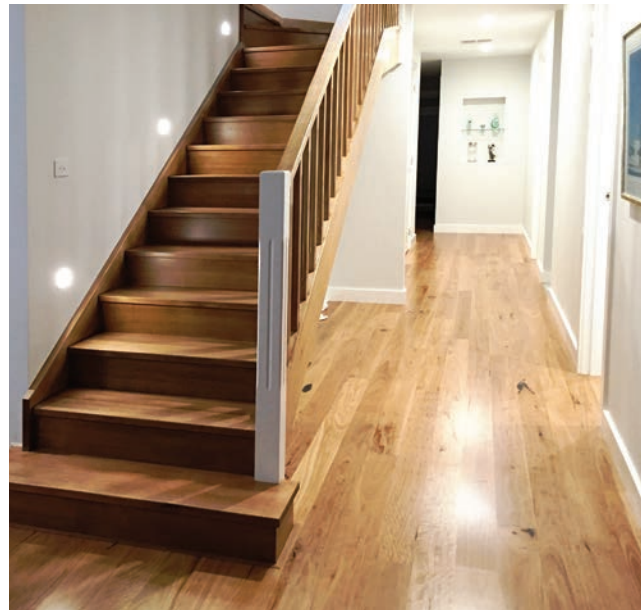


“ They even heated my kitchen plinths—no more radiators and more kitchen units! ”

Mrs P Kell, Cheshire



Shown: EasyClean EC2



Shown: Classic TS



Shown: Deco BM

Create the room you want and the look you desire

Whether it's a kitchen diner, bedroom, basement, living room or loft, Thermaskirt creates valuable wall space by removing the radiators – without disturbing your floors.

Just imagine; extra kitchen units or fitted bedroom furniture where the radiator used to be, a sofa where everyone can enjoy the TV, or just more space to roam around.

Saying goodbye to your bulky storage heaters or replacing your panel radiators doesn't mean you have to take up the floor coverings to install underfloor heating.

Thermaskirt can either connect straight onto any conventional plumbing system or any suitable electrical heating circuit and simultaneously provides a freshly painted new set of skirting boards that are durable, versatile and energy efficient.

ThermaSkirt h₂O is available in a wide range of profiles and colours. With integral oval pipes, ThermaSkirt h₂O will work with any primary heat source of hot water; boilers (gas, oil or LPG), wood pellet and bio mass and renewables such as heat pumps and solar assisted systems.

Thermaskirt e is available with a range of interchangeable top profiles to effortlessly change the look from room to room.

Provided as standard in a smart, modern Deco pencil round profile, Thermaskirt e can be transformed in no time at all into a traditional Torus profile, a stylish Lambs Tongue, an easy-to-clean Bull nose or a stately Ogee profile.

Special colours, sizes and top profiles are available for volume project orders.

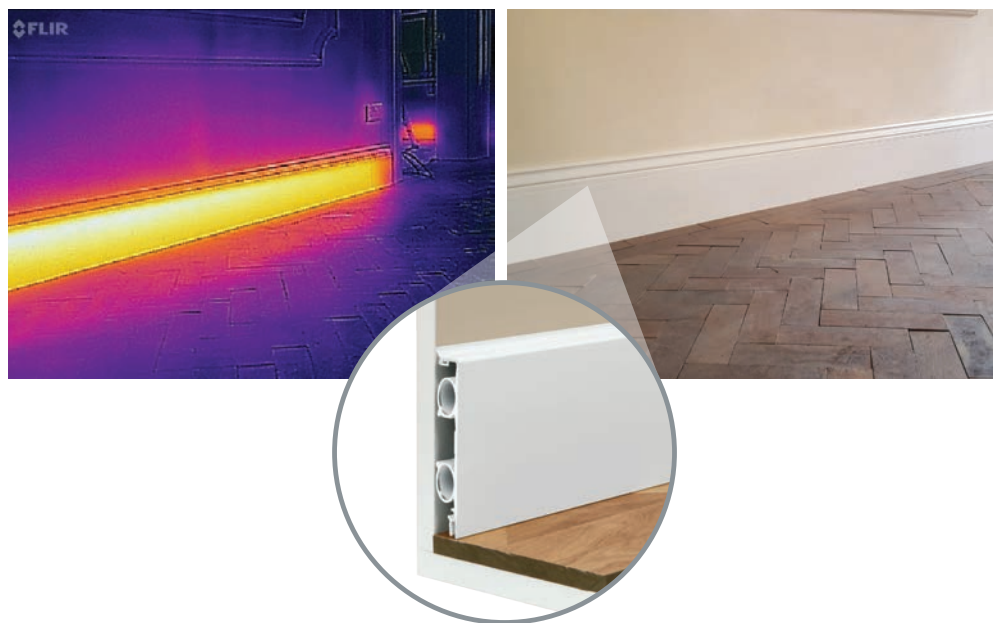
ThermaSkirt - the advantage



Patented design gives unparalleled performance and amazing aesthetics

Only ThermaSkirt h₂O features the unique elliptical flow and return pipes to not only achieve a super slim 20mm profile, but also to maximise heat output.

Providing a profile that replicates a typical skirting board not only creates incredible aesthetics, but the increased turbulence created by the elliptical tubes ensures more heat from the water is transferred to the radiant surface. This coupled with a high quality aluminium polymer alloy ensures a high heat output per metre and an even spread of heat across the length and breadth of the system.



Safety designed in from the start

As well as providing the same energy saving heat distribution characteristics of the H₂O heating version, ThermaSkirt^e has another unique and important benefit – safety.

Unlike conventional electric panel or storage heaters, ThermaSkirt^e utilises a specially developed fire safe heating element that will not over heat, even if covered over by insulating materials such as books or bedding. Furthermore, the heating system continues to work wherever it is not covered over without fusing or burning itself out.

Instead, the system stops heating only wherever there is a thermal obstruction, avoiding nuisance tripping and eliminating the risk of fire.

Whenever the thermal obstruction is removed, ThermaSkirt^e naturally re-sets itself and recommences heating as normal.

ThermaSkirt - anything else is a compromise

ThermaSkirt is not only the most stylish, smartest and sophisticated heating system you could choose, it's the most practical and energy efficient one as well.

ThermaSkirt Vs radiators

As well as stealing valuable wall and floor space, radiators also emit heat by convection – that is by moving air around. Not only does this create uncomfortable hot and cold spots it can lead to dust marks on the walls and potentially aggravate respiratory illnesses such as asthma.

ThermaSkirt on the other hand not only frees up your walls, but emits an even, gentle radiant heat from all sides, creating greater comfort for less energy (Source: BSRIA Test 53197/1).

So effective is ThermaSkirt at radiating the heat energy from the hot water that it is possible to reduce your boiler flow temperature or even use a heat pump, further increasing energy savings. Recently, ThermaSkirt won Most Innovative New Product at the National Heat Pump Awards.

Furthermore, by removing the bulky steel radiators off the wall the risk of injury through falls, trips and stumbles is eliminated. Given that there are over 27,000 radiator related injuries per year (source: RoSPA), this is a significant improvement in health and safety.

ThermaSkirt Vs underfloor heating

For some, having no radiators means only one thing – underfloor heating. But for most, UFH is impractical as it cannot be easily retrofitted without major upheaval, or is often installed under insulating surfaces such as carpet or wood, hindering performance and response times.

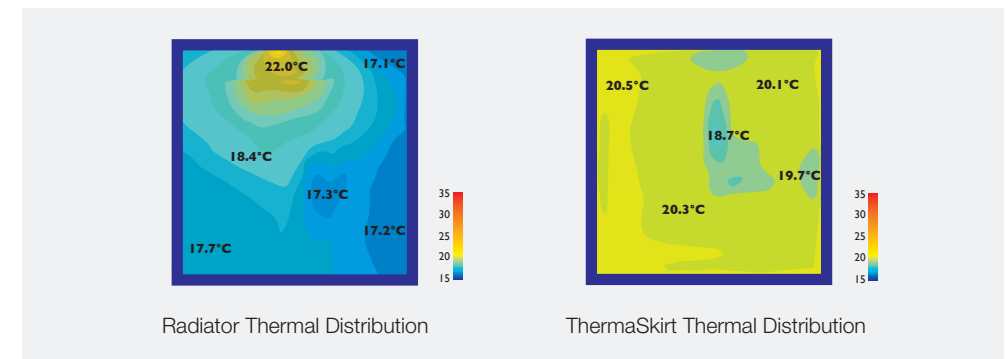
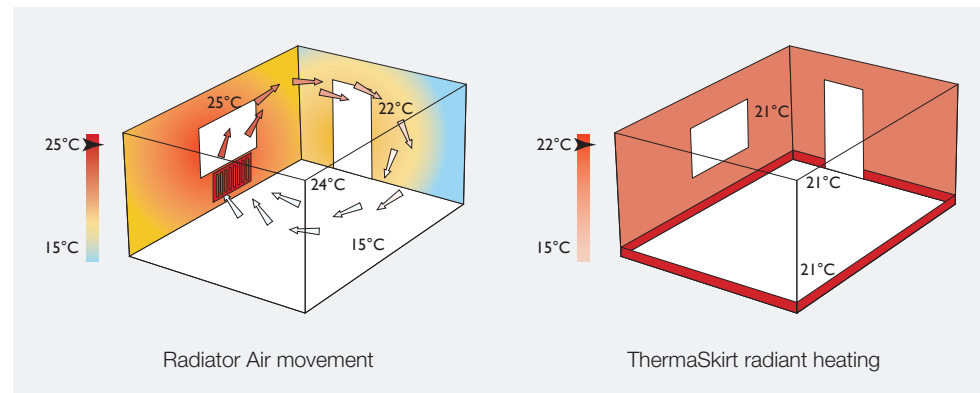
ThermaSkirt provides the benefits of UFH but with significantly less hassle.

It is simple to retrofit - often using the existing radiator pipework or electrical circuits- and floor coverings usually stay undisturbed. Doors do not need cutting down as when an overlaid UFH system is installed, and controls can be as simple or as sophisticated as you like – including wireless, Wi Fi or smart phone enabled (see page 18 for options).

In operation, ThermaSkirt responds in minutes, avoiding under and overheating, which in the long run means real energy savings (Source: Energy Saving Trust).

In addition, ThermaSkirt works just as well with any floor coverings, -timber, laminate, carpet tiles or vinyl - and is readily accessible and simple to amend in the unlikely event you ever need to.

Finally, as ThermaSkirt is a simple, radiant heating solution using standard pipework, it is perfectly possible to mix and match ThermaSkirt with other heating options: a towel radiator in an en-suite or underfloor heating in a kitchen extension for example.





Central heating skirting

A highly efficient alloy polymer composite provides exceptional radiant heating efficiency, whatever the floor construction and covering.



Most innovative new product



Future proof

Flexible top gasket seal eliminates any caulking and filling and makes redecoration easy.

Easy to install

Cuts with conventional power tools and fitted 'above ground'; enables rapid and trouble free installation.



The details

Connects onto a conventional wet heating system, 15 or 16mm Feed & return. Simple to retrofit and straight forward for new design & build.

See page 18 for control options.



Colour matched internal corner cover - available in 90°, 135° and other angles are available to order

Fully fitted profile

KEY POINTS

Connections

- 1. Push fit connectors with Teflon coated poly elastomer O rings create a perfect seal with no soldering, glues or sealants

Retaining clip

- 2. Retaining clips retain the connectors, withstanding pressures of up to 15bar

Return manifold

- 3. Return manifold returns the flow back to the beginning, providing even heat all along the length as well as draining and bleeding options.

Standard external corners available in 90° and 225° - other angles are available to order

The finish

All skirting panels and covers pre finished in a tough, durable, epoxy powder coat paint finish. No painting required and no brush marks.

Versatile

Removable bottom cable cover allows discreet installation of data and AV cables and can be trimmed to suit uneven floors.

No fuss

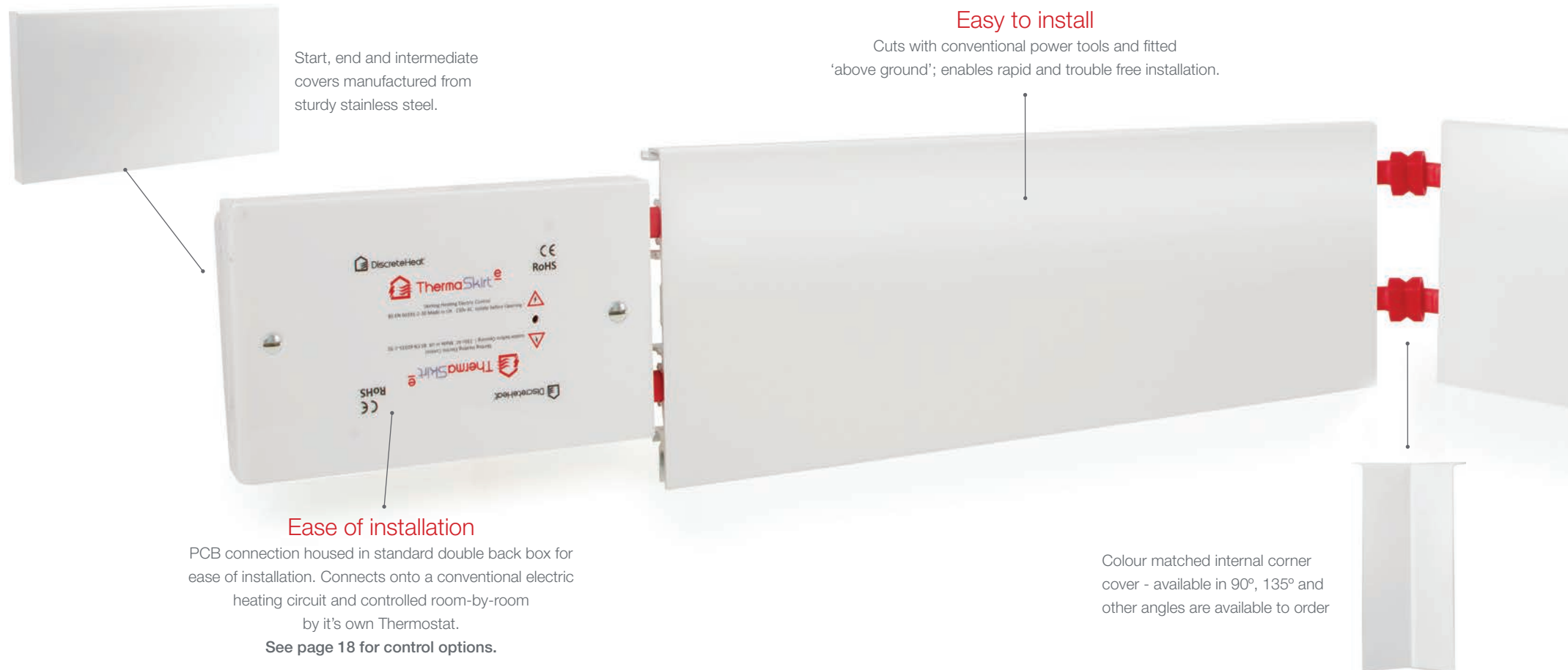
Mounts to the wall with secure, adjustable brackets that allow for uneven walls.





Electric skirting heating

Unique self regulating heating element uses less energy as the room heats up and will not overheat even if covered by insulating materials.



Start, end and intermediate covers manufactured from sturdy stainless steel.

Easy to install

Cuts with conventional power tools and fitted 'above ground'; enables rapid and trouble free installation.

Ease of installation

PCB connection housed in standard double back box for ease of installation. Connects onto a conventional electric heating circuit and controlled room-by-room by it's own Thermostat.

See page 18 for control options.

Colour matched internal corner cover - available in 90°, 135° and other angles are available to order

Fully fitted profile

KEY POINTS

Flooring

Works just as effectively and efficiently with any construction or covering. Beam & block, tiles and carpet, wood or laminate.

Electrics

30mA, Type C RCBO or RCD unit is all that's needed to provide a suitable circuit.

Controls

Wired, wireless and even smart phone enabled available.

Standard external corners available in 90° and 225° - other angles are available to order

Neat finish

Flexible top gasket seal eliminates any caulking and filling and makes redecoration easy.

Minimum connections

Skirting panels available up to 6m length and heating elements up to 50m. Simply cut to size; minimal joints means aesthetic perfection.

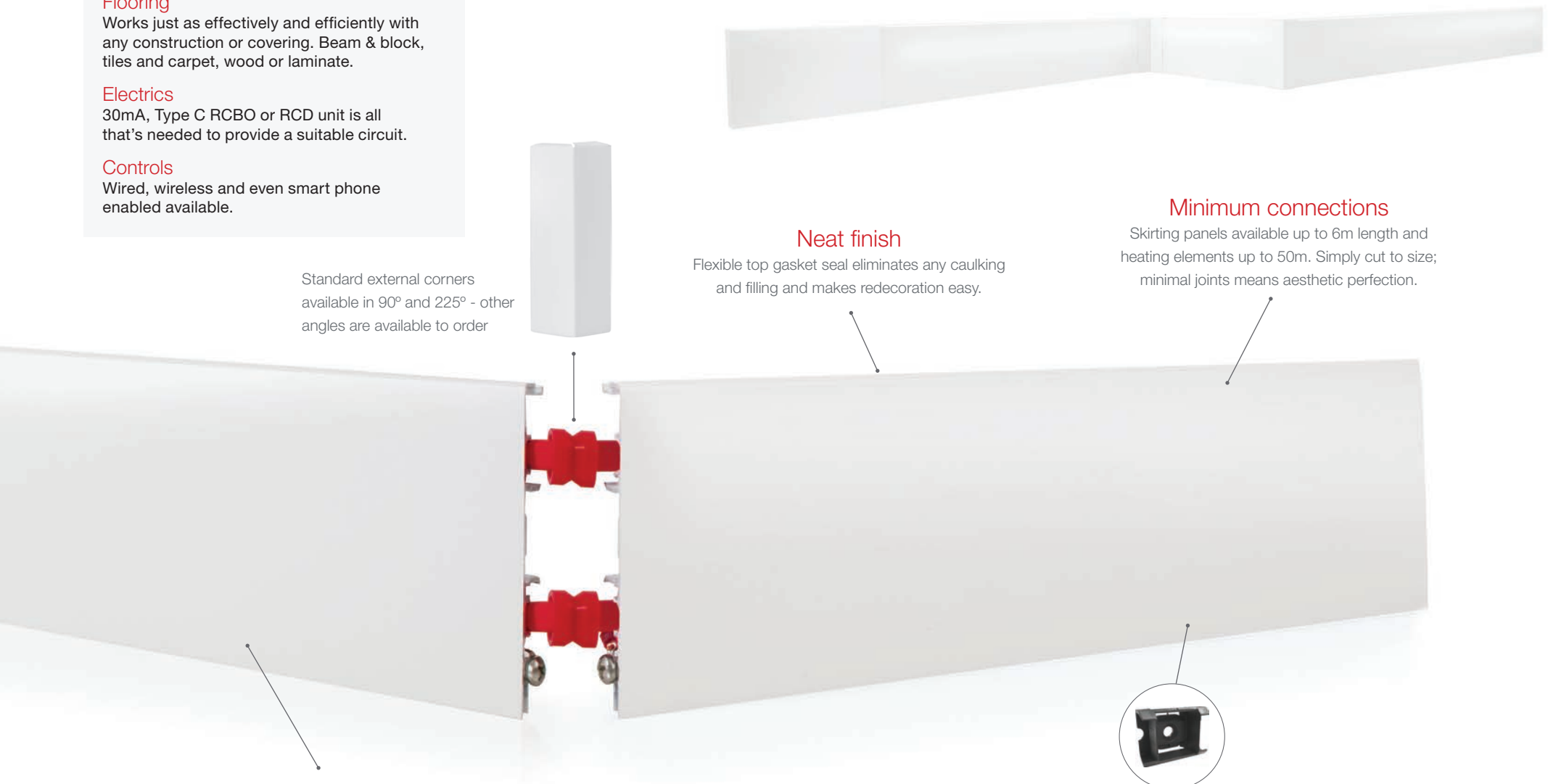
The details

All skirting panels and covers pre finished in a tough, durable epoxy powder coat paint finish. No painting required and no brush marks.



No fuss

Mounts to the wall with secure, adjustable brackets that allow for uneven walls.



The profiles



Deco BM2

- 115mm/4.5" or 170mm/7" high profile
- Simple, stylish square edge profile
- Ideal for modern apartments and kitchen plinth heating
- Also available with optional top caps to create different styles



Urban LT

- 150mm/6" high profile
- Removable and trimmable bottom cable cover
- Suitable for modern and contemporary housing



Classic TS

- 150mm/6" high profile
- Super slim 20mm profile that can be painted over
- Matches the most popular skirting profile in the UK



Deco BM3

- 170mm/7" high Profile
- High Heat output per linear metre
- Suitable for older poorly insulated properties or larger spaces
- Optional tops available to create different styles



MATERIALS

Skirting: Aluminium polymer alloy

Connectors: Reinforced glass nylon

Paint finish: Epoxy powder coat

APPROVALS AND WARRANTY

CE Marked to BS EN 442-1

Tested by BSRIA, TUV and KTH

10 year warranty: Aluminium friendly inhibitor required

SPECIFICATIONS

Operating pressure: Typically 2-3 bar

Max testing pressure: Typically 10 bar

Max operating length: Typically 20-25m per 15/16mm feed

Technical specifications

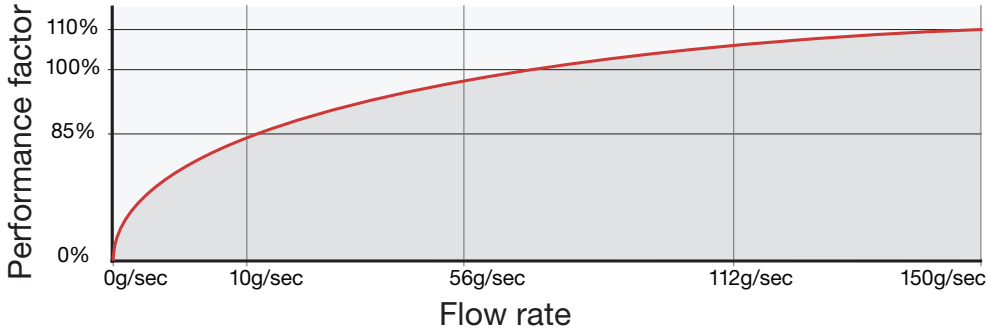
BS EN 442-1:2014



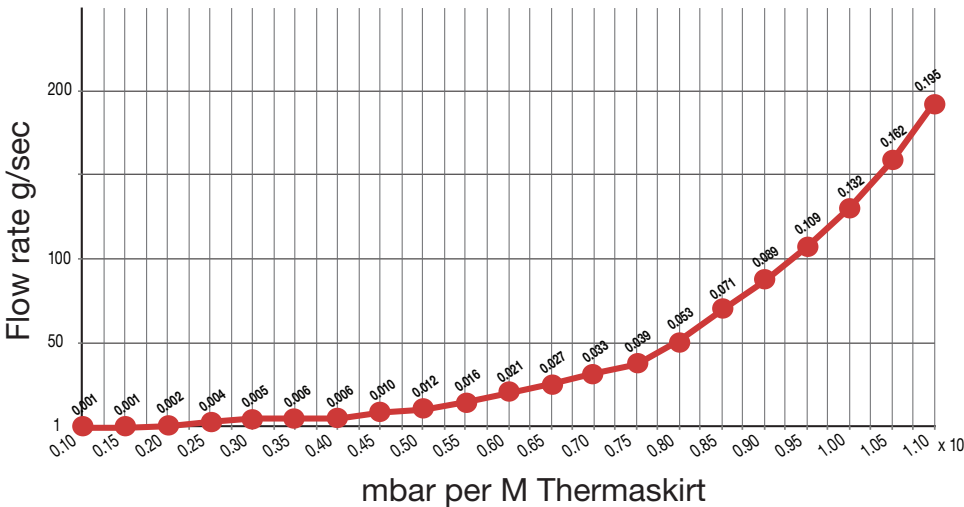
Profile	Flow rate	Flow temp Vs W/m					
		72°C (ΔT50)	45°C	50°C	55°C	65°C	75°C
			< Typical Heat Pump / Renewable Energy Source >			< Typical Boiler; Gas, oil LPG or Pellet >	
DECO BM2	56-80 gm/s	134	53	66	80	105	143
URBAN LT	56-80 gm/s	148.5	59	73	88	124	159
CLASSIC TS	56-80 gm/s	148.5	59	73	88	124	159
DECO BM3	56-80 gm/s	197	80	98	119	166	215

PERFORMANCE VS FLOW RATE

Output in Watts/m (or BTU/ft) is only slightly affected over a wide range of flow rates. Our typical test data is based on 56g/sec in accordance with the BSRIA test BS EN 442-1. Output data is given here for flow rates between 10g/sec & 112g/sec which covers the lower and upper ranges of suitable performance for central heating systems.



FLOW RATE RESISTANCE



The profiles



Deco BM^e

- Simple, stylish pencil round design
- Ideal for new build apartments & kitchen plinths
- Available in 2 or 3 channel versions
- Up to 185 w/m



Classic TS^e

- Additional top capping creates a whole new look
- Matches most popular skirting profile in the UK
- Available in 2 or 3 channel versions
- Up to 185w/m heat output



EasyClean EC^e

- Bullnose top capping creates a hygienic and easy to clean profile
- Ideal for kitchens, bathrooms and utility rooms
- Available in 2 or 3 channel versions
- Up to 185w/m heat output



Regency OG^e

- Stylish, period additional top suitable for Victorian and Georgian properties. Available in 2 & 3 channel versions from Jan 2018

Technical specifications

EN 60335-2-30



MATERIALS

Skirting: Aluminium polymer alloy
Covers: 316 stainless steel
Paint finish: Epoxy powder coat

APPROVALS

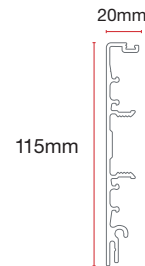
CE Marked to Low Voltage Directive
 Tested to EN 60335-2-30 (Room Heaters)
 EMC Test Certificate No C106457

ELECTRICAL RATING

Supply: Supply: 220~240V
Inrush: Typically 1.2 A/m at 10°C
Protection: Type C 30mA RCBO to IEC 60898



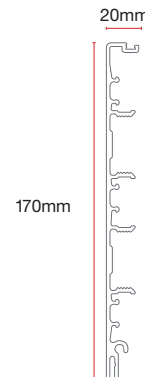
Deco BM^e2



Op temp 220-240vAC	Heat output 220-240vAC	Room start up temp	Recommended max. Skirting lengths (m) Vs Type C RCBO circuit rating			
			10A	16A	20A	32A
40~45°C	50~65w/m	@10°C	30m	40m	50m	70m
55~65°C	85~95w/m	@10°C	20m	30m	40m	60m
65~70°C	115~125w/m	@10°C	15m	24m	30m	50m



Deco BM^e3



Op temp 220-240vAC	Heat output 220-240vAC	Room start up temp	Recommended max. Skirting lengths (m) Vs Type C RCBO circuit rating			
			10A	16A	20A	32A
40~45°C	80~95w/m	@10°C	20m	30m	40m	60m
55~65°C	120~140w/m	@10°C	15m	20m	25m	35m
65~70°C	160~180w/m	@0°C ¹	10m	16m	20m	32m

¹ Soft start units available for longer lengths. Details on request.

Control systems



SIMPLE 'ON BOARD' TRV THERMOSTAT

- Fitted directly onto the ThermaSkirt
- Mechanical operation – uses existing pipework
- Simple thermostatic room comfort control
- Integral lock shield balancing valve



REMOTE CAPILLARY THERMOSTAT VALVE

- Connects onto standard pipework
- Mechanical operation – no electrics required
- Simple thermostatic room comfort control
- Eye-level position, ideal for assisted or retirement living



IN LINE 2 PORT VALVE (HIDDEN IN CEILING OR FLOOR VOID)

- Connects onto existing pipework
- Controlled by programmable ThermoStat (see right)
- Accurate and silent room temperature control
- Wireless option available



MANIFOLD CONTROL WITH ACTUATORS

- Ideal for major refurbishment or new build
- Up to 16 zones controlled from one central point
- Features secondary pump and balancing valves
- Wireless & Wi Fi options available



SIMPLE DIAL TRV THERMOSTAT

- Connects onto standard/existing electrics
- Mechanical setting for room temperature
- Simple room comfort control
- Ideal for storage heater replacement



FULLY PROGRAMMABLE TIME AND TEMPERATURE CONTROL

- Touchscreen thermostat with auto dim
- Accurate control to $\pm 0.5^{\circ}\text{C}$
- 6 on/off settings per day
- 5 + 2 day or 7 day week program options



SMART PHONE OR WI-FI ENABLED

- Wireless control and setting from anywhere
- Simple, instinctive programming
- Choice of colours to suit decor
- Live interactive data and updates



ELECTRIC 'MANIFOLD' 4 WAY ROOM CONTROLLER

- 4 way room controller
- Simple wiring to one point
- Ideal for new build or modular construction
- Wireless or Wi Fi options available

As well as our own range of DiscreteHeat control systems, Thermaskirt h2o and e systems are fully compatible with all well-known home automation and smart control systems. These include (but not limited to) Nest by Google, Hive by British Gas, EvoHome by Honeywel, Control 4 and Heatmiser.

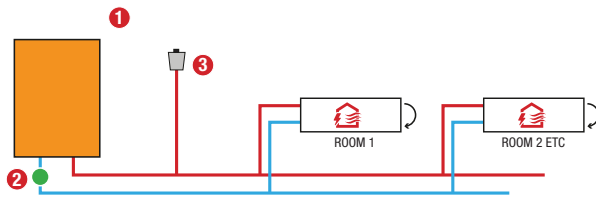
For more information contact your local ThermaSkirt installer or info@discreteheat.co.uk



Typical installations

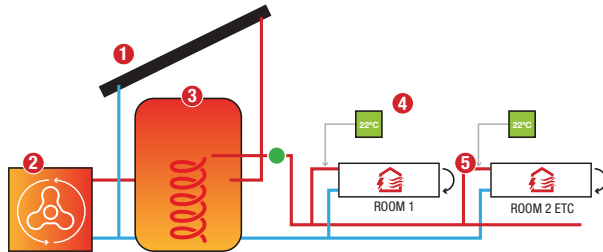


Typical radiator replacement



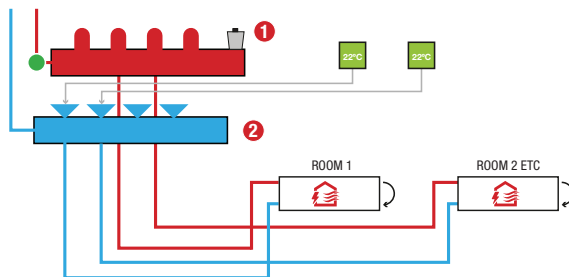
- 1 Typical boiler
- 2 Secondary pump may be required on large or complicated systems
- 3 Air vent or aerator recommended

Heat pump/solar assisted renewables



- 1 Solar thermal or PV & immersion
- 2 Air source or ground source heat pump
- 3 Thermal store with heat interface coil(s)
- 4 Digital or wireless room thermostat control
- 5 Remote or wireless 2 port valve (hidden)

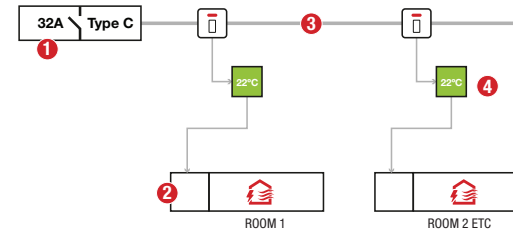
Manifold control



- 1 Balancing/check valves
- 2 Flow control valve actuated by wired or wireless thermometers

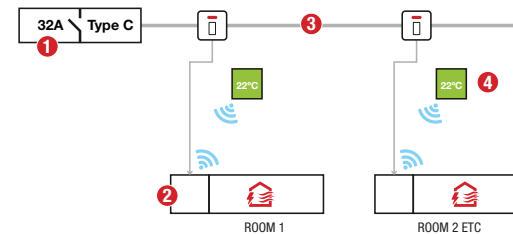


Basic storage heater/panel radiator alternative



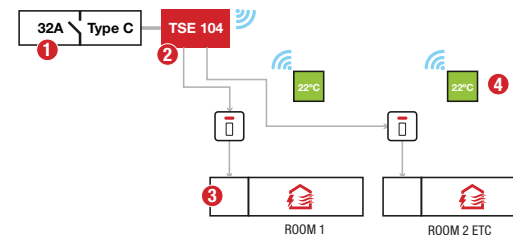
- 1 Consumer unit
- 2 PCB control unit
- 3 Ring main
- 4 Digital or wireless room thermostat control

Wireless/wifi enabled



- 1 Consumer unit
- 2 Wireless PCB control unit
- 3 Ring main
- 4 Digital or wireless room thermostat control

Central 'electric manifold' control



- 1 Consumer unit
- 2 4 way room controller
- 3 Electrical connection
- 4 Wifi or wireless room thermostat control

ThermaSkirt - versatile, innovative space saving solutions

With over 40,000 installations worldwide, there aren't many applications we haven't heated or problems we've had to overcome.. Here are just a few examples of just how versatile ThermaSkirt can be.

Bay Windows & Odd Angles

Flexible connectors and configurable covers cope with any angle.



Across Patio & Bi-fold doors

Architects and home-owners love to bring the outside-in-side with large floor to ceiling walls and doors – but where is the heating going to go?

ThermaSkirt can provide a heated 'threshold' solution to provide the heat just where it's needed most.



Under Doorways & Openings

Sub-floor connections allow bridging of doors, archways and fireplaces with ease.





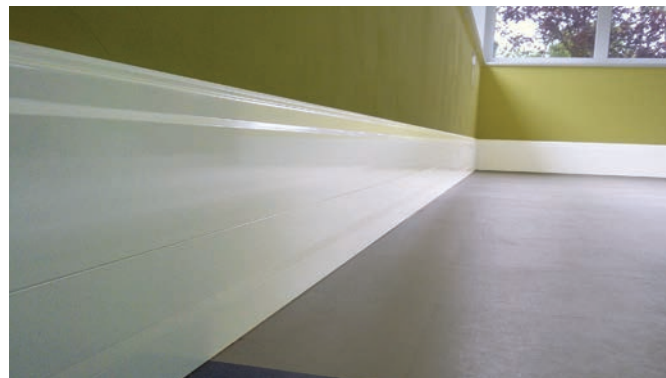
Curved walls

Live in a windmill or water tower?
Fancy a feature wall or a curved
alcove? No problem; we simply form
the ThermaSkirt to suit the shape.



Kitchen units & fitted wardrobes

Plinth heating is a stylish way to heat your kitchen
and bedroom, and free up valuable wall space.
Choice of heights and colours available.



Commercial & public spaces

Double or even triple height solutions are
available for larger commercial or public
spaces such as gyms, meeting halls,
churches, shops and libraries.



Coving Heating

No available walls? Coving heating in small
spaces like en-suite bathrooms provides a
smart alternative to infra red lamps or fan
convectors.

ThermaSkirt - the 21st century heating solution

From listed buildings to modular construction, from offices to restaurants, from nurseries to assisted living, from schools to ships, ThermaSkirt is a practical, affordable and energy efficient heating solution

Listed buildings and stately homes

Renovating an existing building, especially one that is listed requires sensitive and commensurate measures; to modernise but not to mess.

ThermaSkirt can add warmth and comfort to even the oldest, most prestigious buildings, without damaging the fabric or feel.

Special profiles and colours are available for especially sensitive projects.



ThermaSkirt has been fitted in function rooms at Harewood House, Yorkshire

Modular construction

21st century construction techniques requires 21st century heating solutions.

None more so than modular, where time is money and off-site construction requires everything to fit right first time.

Combining the heating into the skirting saves time and money, and DiscreteHeat is working with some of the largest modular manufacturers in the world.

Offering a pre-cut, pre painted room-kit solution enables manufacturers to plug'n'play when assembling their products.



Images courtesy of CIMC & Future Form Global

ThermaSkirt – for difficult and demanding environments

ThermaSkirt has been fitted in the Rostok secondary school, Germany



Schools, student living and public buildings

Schools and places of learning require responsive, controllable, quiet and comfortable heating systems to create an environment conducive to learning.

Versions of ThermaSkirt have been installed in student living, primary and secondary schools (both mainstream and special educational learning) as well as nurseries and playschools all over the UK and Europe.

Healthcare and assisted living

With an ever-ageing population, products that are designed for life are of ever increasing importance. We are working with some of the leading specialists in retirement and assisted living to provide safe, comfortable and energy efficient homes for the future.

The 'EasyClean' version of ThermaSkirt has been developed with and approved for use in the **NHS** in some of the most difficult and challenging environments. Ask about our EasyClean range for healthcare and assisted living applications



Images Courtesy of Iris Murdoch Centre, Stirling, and Renfrewshire County Council

For free design and advice, contact our Commercial Sales Team today - **01942 88 00 66**

Your authorised distributor/installer



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