

YOUR PROJECT SUCCESS IS OUR BUSINESS



TRUSTED

WARMTH

WMS HEARTBEAT

THE HEARTBEAT OF OUR COMPANY IS ALWAYS IN PEOPLE, WHETHER IT'S OUR CUSTOMERS OR EMPLOYEES.

We strive to improve and exceed expectations.

We know your site schedules are critical therefore you can count on us to supply and install your underfloor heating system on time, within budget and with our outstanding service.

We've always been ambitious and we want to grow to be market leader, but, our way – with enthusiastic happy customers and as an honest, family-friendly employer.



IT'S SIMPLE, WE THRIVE TOGETHER WITH OUR CUSTOMERS, SUPPLIERS AND STAFF IN THE MOST RESPECTFUL, HELPFUL AND TRANSPARENT WAY.





YOUR SERVICE

BE ASSURED THAT YOU GET AN EFFICIENT HEATING SYSTEM THAT WORKS, A SYSTEM THAT WE WORK WITH YOU TO BUILD. A SYSTEM THAT SUITS YOUR NEEDS, KEEPS YOUR PROJECT ON TIME AND STAYS WITHIN BUDGET.

Complete project engineering at every stage for every client, from bespoke project design, complete system installation, balancing and testing to our own site assist maintenance contracts. You can be assured with our experience, knowledge and research you will achieve your goals.





UNDERSTANDING UNDERFLOOR HEATING

HEATING YOUR HOME
VIA RADIANT HEAT, FROM
THE FLOOR UPWARDS, IS
A MORE COMFORTABLE
AND HEALTHIER HEAT. IT
ALSO LOWERS ENERGY
USAGE AND FUEL BILLS.

COMFORT

Making the warmest part of the room the floor means the air cools as it rises, giving you the heat where you need it. This is also better for the environment since you are not emitting heat from your roof.

EFFICIENCY

UFH has a far greater surface area to emit heat than traditional heating systems, requiring much lower flow temperatures and therefore reducing energy usage and fuel bills.

WELL-BEING

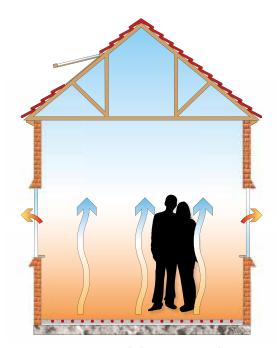
The radiant heat creates fewer draughts and dust movements forming a healthier environment, even going as far as helping with allergies and asthma sufferers.

RENEWABLE

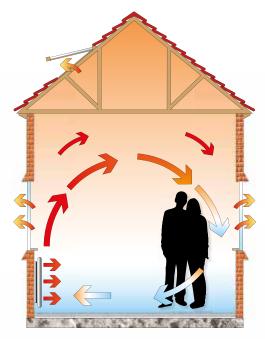
The lower flow temperatures make it a perfect partner for renewable sources such as heat pumps and solar panels.



COMPARING UNDERFLOOR HEATING WITH RADIATORS



UNDERFLOOR HEATING



CONVENTIONAL RADIATORS

WHAT ARE THE MAIN COMPONENTS OF AN UNDERFLOOR **HEATING SYSTEM?**







HEAT SOURCE

DESIGN

MANIFOLD

The heat source can be any type of water heater, from a conventional boiler powered by gas or electricity or any of the renewable energy sources, including heat pumps and solar panels. Since underfloor heating heats the whole floor area, the water temperatures required are much lower than that of radiators.

The design is unmistakably the most important part of any underfloor heating system. Our dedicated design team produces accurate and comprehensive drawings for every system that we install, maximising performance for all our systems, guaranteeing that we will supply the most cost effective and efficient solution for your project.

The manifold distributes water from the heating source to the relevant zone. Manifolds will typically have a mixer valve to allow them to mix hot flow water with the cooler return to achieve the reduced temperatures required by underfloor heating.



ALL OUR INSTALLED PRODUCTS ARE MANUFACTURED IN THE EU AND COMPLY WITH INTERNATIONAL QUALITY AND ENVIRONMENTAL STANDARDS.







PIPE **SYSTEMS** **CONTROLS**

Our 17mm pipe has a robust, 2mm, five layered polyethylene tube that uses the very latest PE-RT technology.

The 2mm thick pipe wall is made up of five separate layers and contains an oxygen barrier to prevent the ingress of water from the pipe into the surrounding screed through condensation and to prevent oxidisation by stopping any ingress of oxygen into the pipe. It comes with a 75 year warranty.

There are many variations of system type, each having its own benefits for specific applications. Choosing the correct system type is critical to the comfort levels experienced and the running costs. Our pipes can heat floor areas at low water temperatures and are designed to be effective with any floor finish including ceramic tiles, linoleum, wood and carpets.

The control system provides a user interface with your heating system and can be as simple or as complex as your requirements.

THE COMPLETE SOLUTION



DRIVEWAY HEATING AND SNOW **MELTING SYSTEMS**

Fully automated, radiant heat snow melting systems can be installed in small customised driveways, large commercial parking structures, ramps, loading bays, walkways and more.

MANIFOLD

The Ambiente stainless steel manifold is a piece of engineering excellence. Acting as the heart of the system, this sophisticated piece of equipment distributes warm water throughout the underfloor heating system.

More information on page 22

WI-FI CONTROL

Control your system via wi-fi from the office or, if you are unexpectedly delayed, you can adjust your heating and cooling settings remotely.

THERMOSTAT

Our wide range of controls caters for any application. Every room benefits from individual time and room temperature control.

More information on page 26



AMBICLIP SYSTEM

This is one of our most popular underfloor heating systems providing a quick, flexible and effective form of heating within a screeded floor build-up.

More information on page 34

AMBITAK SYSTEM

Underfloor heating pipe is fixed directly onto gridded insulation board. It is quick to install, economical and very effective in terms of thermal output.

More information on page 34

AMBIPLATE 20 SYSTEM

This makes a perfect underfloor system for joisted and battened upper floors.

More information on page 38

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OUR LARGE ON-SITE WAREHOUSE SENDS **OUT OVER 2.5 MILLION** METERS OF 5-CORE POLYETHYLENE UFH PIPE EACH YEAR.

"



OUR PROJECT PATHWAY

A STEP-BY-STEP GUIDE ON HOW YOUR PROJECT WILL PROGRESS FROM YOUR INITIAL ENQUIRY TO THE SUCCESSFUL COMPLETION.



ENQUIRY



PRE-CONTRACT **ADVICE**



SYSTEM SOLUTION



PROJECT TEAM MANAGEMENT



SYSTEM DESIGN

DEFINE REQUIREMENTS

UNDERSTAND PROJECT DRIVERS

CONTROL STRATEGY ANALYSIS

SPECIFICATION REVIEW

Defining and understanding the unique needs of each project is critical. Our Pre-Contracts team will go through this with you and establish all the key requirements.

MAKE RECOMMENDATIONS SAMPLE APPROVAL **VALUE ENGINEER CONCEPT DESIGN**

We submit detailed proposals containing our design proposals, control options, warranty details and pricing information. We also add our unique **Project Engineering** Standard (PES) where appropriate, to ensure that we always provide you with our most cost effective solutions.

DETAILED ESTIMATING PROPOSALS

COMPREHENSIVE SUPPORT

TECHNICAL SUBMISION

RESEARCH OPTIONS

Our technical team offers full UFH technical support with all queries. The system will need to integrate with other elements in the floor construction (i.e floor finishes).

PROJECT MANAGER **ASSIGNED**

ON-SITE SURVEY CO-ORDINATION OF **ASSOCIATED TRADES**

AGREE DELIVERY **DATES**

PROJECT PLANNING

TIMESCALES APPROVED

Following confirmation of an order, we appoint a project manager who will undertake an on-site survey to assess conditions 'on the ground'. The project manager will complete a components list ready for despatch to site. Risk assessments and method statements are also produced at this stage.

HEAT LOSS CALCULATIONS

OUTPUT CALCULATIONS

PIPE LAYOUT **DRAWING**

MANIFOLD POSITIONS FINALISED

Our design team uses a unique, 'design approved' system that includes heat loss calculations and A1 detailed CAD layout pipe drawings.







100% OF OUR INSTALLATION TEAM ARE CSCS / SKILLCARD QUALIFIED.























INSTALLATION

BALANCING

HANDOVER

GUARANTEE

DELIVERY SYSTEM INSTALLATION PRESSURE TESTS SIGN-OFF

Our team of highly skilled and experienced installers will install the system according to your specifications. Adhering to our own 'Quality Marque' installation procedure, you can be sure that we will complete our install in the most competent and professional manner.

SYSTEM SET-UP HAND OVER TO CLIENT BALANCING REPORT

Following installation and before handover to the client we carry out a series of comprehensive tests in accordance with our own procedures to ensure the system is in perfect working order.

We also provide 'as installed' drawings and a comprehensive O&M manual that contains all the information required to set up, run and perform routine tests on your system.

100% WORKING ORDER GUARANTEES O&M MANUALS

At handover you can be sure that our system is in 100% working order. We will provide all necessary instructions on the use of the system and manuals and data sheets. We also leave you with full details of component and system guarantees.

75 YEAR STANDARD

EXTENDED GUARANTEE AVAILABLE

As an ISO 9001 registered company, we go to extraordinary lengths to make sure you are completely satisfied with your system and that it will continue to function for many years to come.

All our UFH pipe work carries a 75 year warranty. We also offer extended guarantees for our control systems, manifolds and thermostats to give you complete peace of mind.





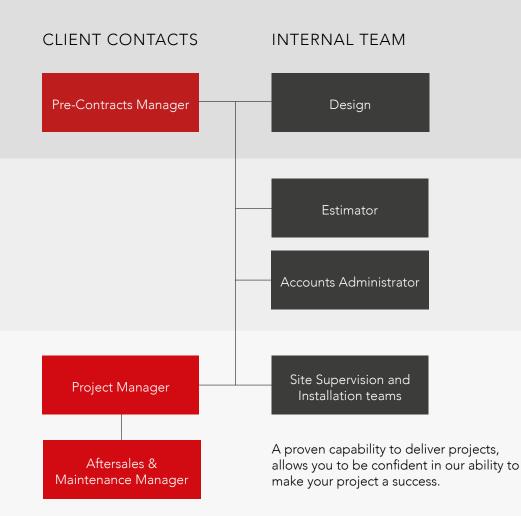
OUR PEOPLE

THE HEARTBEAT OF OUR COMPANY IS ALWAYS IN PEOPLE, WHETHER IT'S OUR CUSTOMERS OR EMPLOYEES.

We strive to have enthusiastic happy customers and be an honest, family-friendly employer. Our growing, experienced and friendly team is recruited on attitude. To deliver excellent service we need positive, helpful and honest employees.

Your project team is kept lean, our service is built on trust and relationships. Fewer contacts means increased knowledge and understanding of your project, also allowing issues to be overcome quickly and efficiently.

TYPICAL PROJECT TEAM





DESIGN CAPABILITY

OUR DEDICATED CAD DESIGN TEAM PRODUCES
ACCURATE AND COMPREHENSIVE DRAWINGS FOR
EVERY SYSTEM THAT WE INSTALL, MAXIMISING
PERFORMANCE AND GUARANTEEING THAT WE
WILL SUPPLY THE MOST COST EFFECTIVE AND
EFFICIENT SOLUTION FOR YOUR PROJECT.

Having our own design team means that we can be much more flexible during the design stage and can quickly accommodate any alterations to your layout and other requirements as they are specified by the architect, builder or client. We can prioritise these changes in our system and minimise any delays.

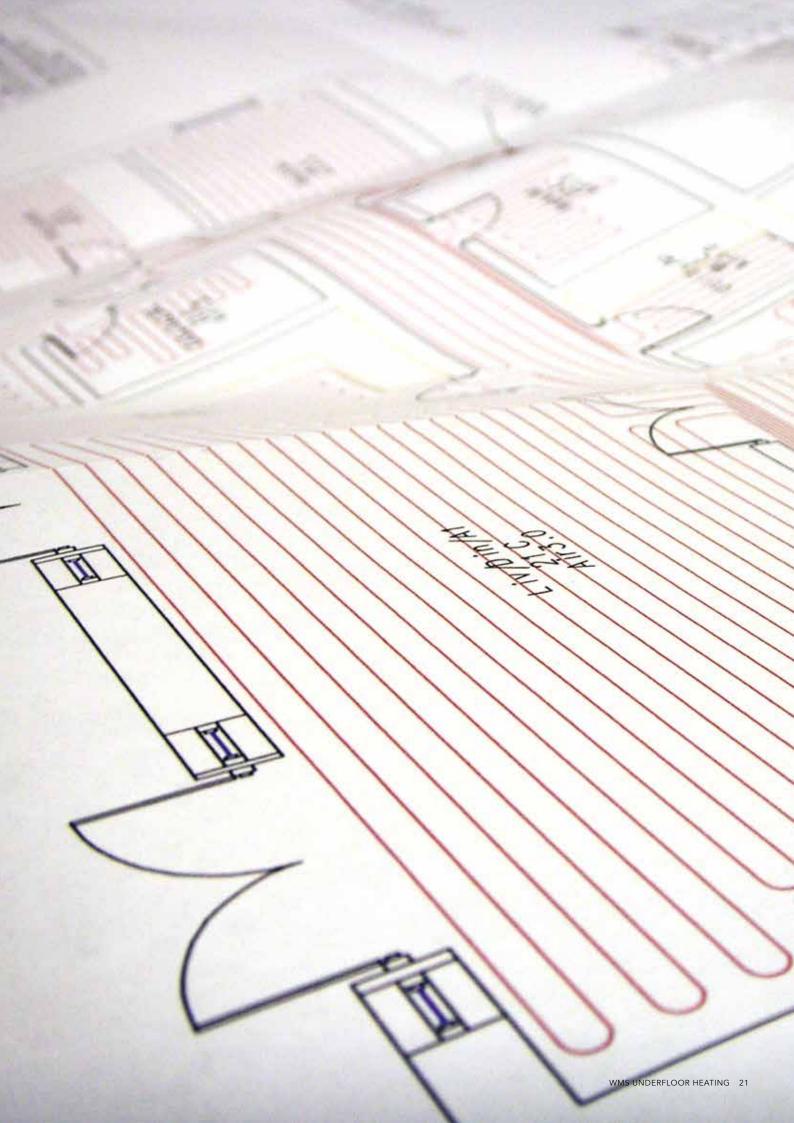
Our design team benefits from our unique, approved design system that includes heat loss and output calculations. We provide detailed CAD drawing layouts showing exact positioning of all UFH pipework, controllers, manifolds and bathroom/kitchen layouts to thoroughly assist the install process and ensure all requirements are met.

We also supply comprehensive wiring diagrams showing how the system should be wired, by your on-site electrician. Each diagram provides clear, concise and comprehensive electrical layout details for the system.



AT WMS, EXCELLENCE
COMES AS STANDARD.
OUR DESIGNS MEET
BRITISH STANDARDS
BSEN1283 AND BSEN1264.



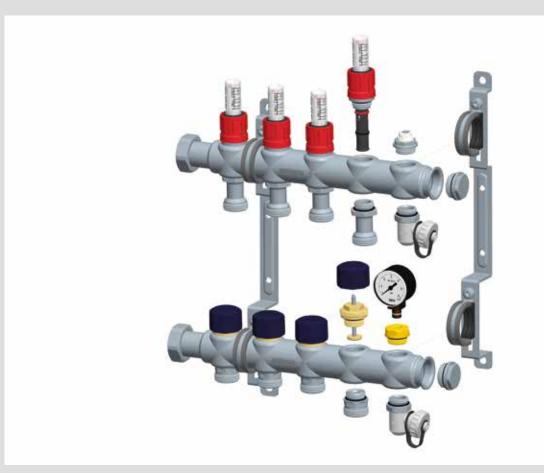


PRODUCT QUALITY **ASSURANCE**

CONFIDENCE AT THE HEART OF THE SYSTEM



The Manifold and Pumpset are at the heart of any underfloor heating system since they control the flow and distribution of water from the heat source (eg. boiler, heat pump) to each underfloor pipe circuit. Our manifolds can be supplied with a pump mixing valve, ball valves, drain valves, temperature and pressure gauges. There is also a balancing valve for each loop.





Made out of stainless steel and tested to rigorous standards, they are available in various sizes from just two ports for a small system, up to 12 port versions for areas up to $200 m^2$. In order to ensure total durability and reliability, our systems are tested to 4 bar for operation within systems that typically operate on less than 2 bar pressure.

Following installation, our commissioning engineers provide a comprehensive balancing and commissioning service to ensure the system is working perfectly before handover.

THE HIDDEN QUALITY

PE-RT PIPE

OUR PIPE IS A FIVE LAYERED POLYETHYLENE TUBE USING PE-RT TECHNOLOGY THAT IS MANUFACTURED TO OUR OWN SPECIFICATION AND COMPOSED OF FIVE BONDED LAYERS. IT CONTAINS AN INTEGRAL EVOH OXYGEN BARRIER LAYER TO PREVENT OXYGENATION OF WATER INSIDE THE SYSTEM.

PE-RT PIPE

PE-RT stands for 'polyethylene at raised temperature resistance'. Polyethylene has excellent properties at high pressures and temperatures as well as being very flexible and easy to use. It is non-corrosive and has very good resistance to frost. It is also creepresistant and has a high impact strength. The outer layer protects the oxygen barrier from mechanical damage, moisture and other damaging materials.

POLYMER ADHESIVE

A functionalised polythene that acts as an adhesive layer between the polyethylene and the oxygen barrier.

ENVIRONMENTALLY SAFE

Unlike PEX pipework which has toxins in it that can only be burnt or buried due to the molecular cross-linking process. Our PE-RT pipe is completely environmentally friendly and can be easily melted and recycled.

EVOH OXYGEN BARRIER

Made of ethanol vinyl alcohol that prevents oxygen diffusion.

Oxygen diffusion is a very important factor within underfloor heating with the vast amount of pipework installed into the floors of every project, it is essential that the pipe has a very low level of oxygen permeability so that oxygen ingress cannot cause unnecessary damage and costs. A standard plastic pipe would not meet the required level of oxygen permeability.



IT IS EXPECTED TO OUT LIVE THE LIFE OF THE BUILDING ITSELF.





CONTROL **FREEDOM**

CONTROLS ARE AN ESSENTIAL PART OF ANY HEATING SYSTEM AS THEY CREATE YOUR ENVIRONMENT IN THE MOST EFFICIENT AND COST EFFECTIVE WAY POSSIBLE. OUR EXPERT ADVICE IN PROVIDING YOU WITH THE MOST SUITABLE CONTROLS FOR YOUR PROJECT WILL ENSURE THAT YOUR SYSTEM ONLY OPERATES WHEN REQUIRED AND FOR THE MINIMUM PERIOD OF TIME.

There are various methods of doing this but all are managed by your control system with various levels of integration between the heating zone, heat source and outside temperature. The control system must be accurate and sophisticated as well as easy to use!

| Individual temperature control. | Simple and easy to use. |
|---|--|
| Individual room temperature control with night setback facility. | Simple and has an eco setting. |
| Individual programmable room temperature control. | User friendly and has a variety of programmes. |
| Individual programmable and networkable room temperature control. | Can be networked off a timer to incorporate up to 31 thermostat zones from a central touchscreen controller. Additional features can be included at this level including internet control, holiday mode, hot water control and heating profiles. |
| Individual programmable room temperature control with BMS integration. | From any point in the building and online. Using a BMS compatible control system you can use it to control your central heating system, integrate the boiler and control other performance monitoring equipment. |

Control your system via wi-fi from the office or, if you are unexpectedly delayed, you can adjust your heating settings remotely.

LunaStat is the only stat able to operate in three different ways: Programmable, Night Setback and Digital!



D MINU ON A Y ambiente*



OUR CONTROLLERS CAN BE EITHER HARD WIRED OR WIRELESS AND INTERFACED WITH YOUR BUILDING MANAGEMENT SYSTEM GIVING YOU FULL REMOTE CONTROL INCLUDING INTERNET ACCESS.









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- 36 SUSPENDED FLOOR SYSTEMS
- 38 STRUCTURAL FLOOR SYSTEM
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- 42 BESPOKE SYSTEMS

SYSTEMS INDEX

SCREEDED

FLOATING

SUSPENDED







LOW COST SYSTEM

MAXIMUM OUTPUT

QUICK INSTALLATION

SUIT IRREGULARLY SHAPED ROOMS
VERSATILE PIPE LAYOUT PLAN

See page 32

CAN BE USED IN EXISTING FLOOR CONSTRUCTIONS

PANELS MANUFACTURED TO SUIT LAYOUT PLAN

NO WET TRADES

WIDE RANGE OF APPLICATIONS

See page 34

DESIGNED FOR JOISTED / BATTENED FLOORS

MAXIMUM HEAT TRANSFER

EVEN HEAT DIFFUSION

NO IMPACT ON FLOOR BUILD-UP

QUICK RESPONSE TIME

See page 36

STRUCTURAL

LOW PROFILE



BESPOKE SYSTEMS



DESIGNED FOR HIGH LOAD APPLICATIONS

LOW COST AND FAST INSTALLATION
HEATING IS APPLIED EVENLY
ACROSS LARGE FLOOR AREAS
VERSATILE PIPE LAYOUT

See page 38

ULTRA SLIM FLOOR BUILD UP

SUITABLE FOR BOTH NEW AND REFURBISHMENT APPLICATIONS

QUICK RESPONSE TIMES

COMPATIBLE OVER EXISTING FLOORS

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EXPERIENCE

KNOWLEDGE

COMMITMENT

INNOVATION

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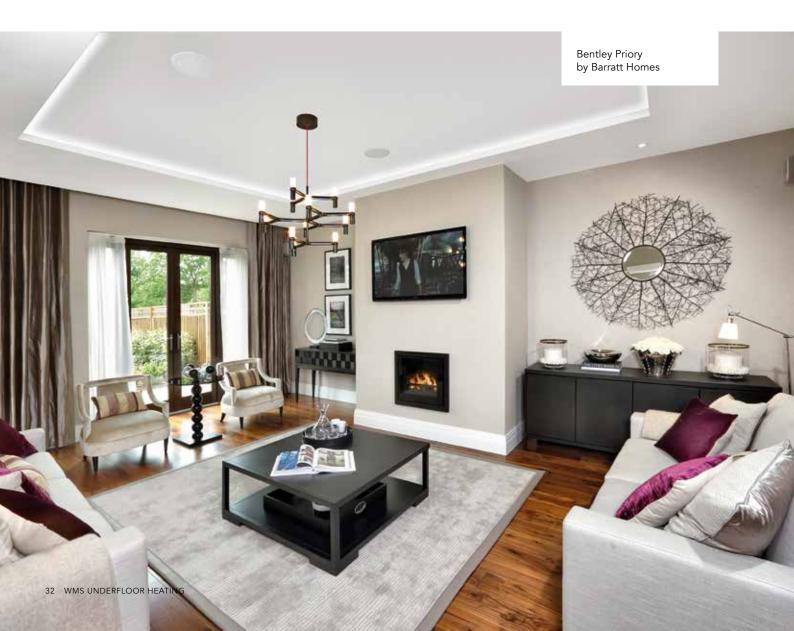


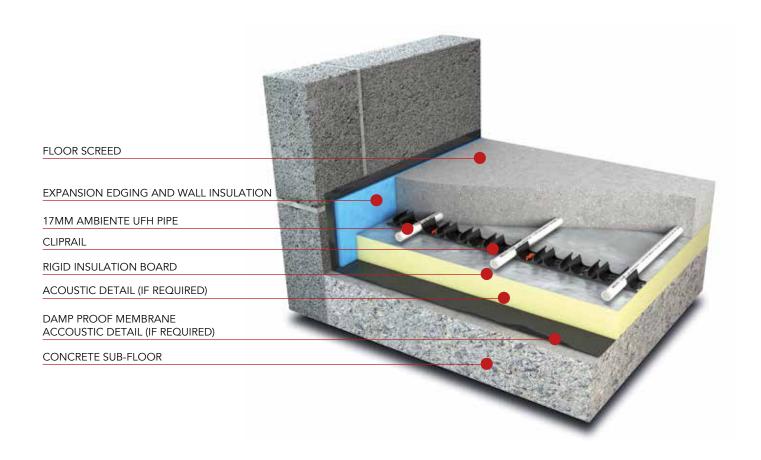
SCREEDED FLOOR SYSTEMS

Screeded floor systems are our most popular underfloor heating systems. They provide a quick, flexible and effective form of heating within a screeded floor build-up.

With the majority of solid floor build-ups requiring an insulated screed to meet building regulations, this system can easily be accommodated into most floor applications without affecting the overall build-up.

- > LOW COST SYSTEMS
- > MAXIMUM OUTPUT
- > QUICK INSTALLATION
- > SUIT IRREGULARLY SHAPED ROOMS
- > VERSATILE PIPE LAYOUT PLAN







AMBICLIP

Can be fitted securely to any insulation board. The cliprail supports provide a very secure pipework fixing method, minimising the risk of pipework moving when screeded over. It is the most commonly specified system and very cost effective.



AMBICASTELLATED

Is a cost effective system which can be laid over any insulation board or directly onto a concrete subfloor. The pre-formed panel ensures consistent pipework patterns and spacings.



AMBITAK

A very quick and cost effective system, can be used on all floors.

FLOATING FLOOR SYSTEMS

Floating floor systems have a wide range of applications from overlaying a flat and level subfloor through to being installed between suspended floor joists. The system removes any requirement for wet trades, reducing programme constraints, logistics challenges and removes common tolerance issues associated with screeds. This system can also often provide a overall thinner floor build-up than other UFH systems. The installation is quick, clean and tidy.

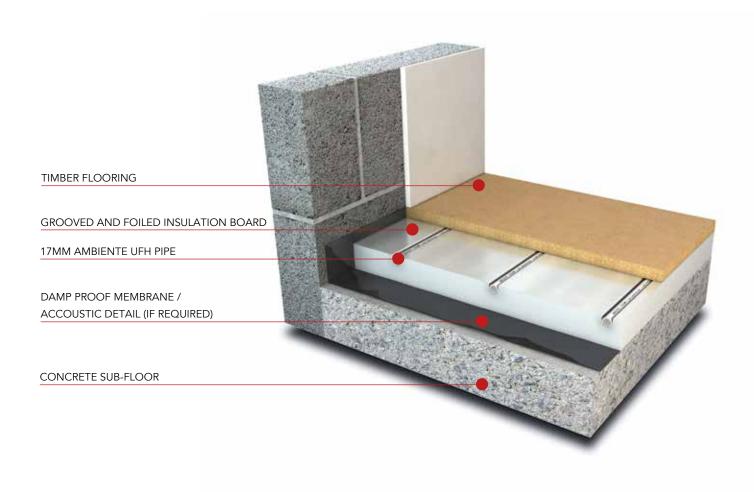
- > CAN BE USED IN EXISTING FLOOR CONSTRUCTIONS
- PANELS MANUFACTURED TO SUIT LAYOUT PLAN
- > NO WET TRADES
- > WIDE RANGE OF APPLICATIONS

The profiled panels are available in most thickness's and can be bespoke designed to suit specific project requirements.

The insulation is pre-grooved to take the underfloor heating pipework and over laid with foil to assist the distribution of heat. The profiled panels are available in most thickness's and can be bespoke designed to suit specific project requirements.

When using the AmbiFloat 20 and AmbiFloat 30 systems, the timber subfloor should be installed in the normal way over the joists/battens onto which your finishes are applied. Engineered timber floors can be fixed directly to the joists / battens.







AMBIFLOAT 10 (10 = FULLY FLOATING FLOOR)

Requires a flat and level sub floor for the insulation to fully support the floor laid on top.



AMBIFLOAT 20 (20 = BATTENED FLOOR)

The foiled and grooved insulation boards are fitted between battens over a concrete or chipboard subfloor. Overboarding should be carried out in the normal way.



AMBIFLOAT 30 (30 = JOISTED FLOOR)

The foiled and grooved insulation boards are fitted between joists on upper floors. This provides a neat solution for suspended flooring applications. Overboarding should be carried out in the normal way.

SUSPENDED FLOOR SYSTEMS

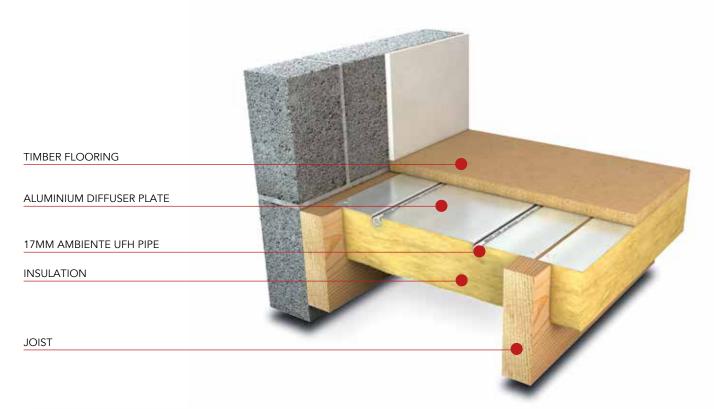
Our suspended floor systems are designed for battened and joisted floor build-ups. The system can also be used in a number of specialist applications such as acoustic battened floors and sprung sports floors.

- > DESIGNED FOR JOISTED/ BATTENED FLOORS
- > MAXIMUM HEAT TRANSFER
- > EVEN HEAT DIFFUSION
- > NO IMPACT ON FLOOR BUILD-UP
- > OUICK RESPONSE TIME

The system consists of pre-grooved aluminium diffuser plates being fixed directly to the joists or battens. The grooves provide channels into which the pipework is installed in continuous lengths and piped back to the underfloor heating manifold. Insulation should be laid beneath the system and should be positioned as close as possible to the underside of the pipework to maximise the heat output.

Due to suspended floors systems often resulting in working at height, WMS have developed a 'Safer Section' accreditation which incorporates anti-fall measures to remove the need for temporary protection to be installed prior to fitting the UFH system. Any section with the 'Safer Section' accreditation badge meets this description.







AMBIPLATE 20 (20 = BATTENED FLOOR)

Provides a flexible heating solution for battened floors from fixed battens to acoustic/ sprung battens.

AMBIPLATE 30 (30 = JOISTED FLOOR)

Designed for joisted floors, this system can be installed in new build applications but is also very versatile in accommodating refurbishment project subject to a site survey.



'Safer Section' is a Health and Safety accreditation designed to provide increased strength and stability for the installer when working at height over joisted floors.

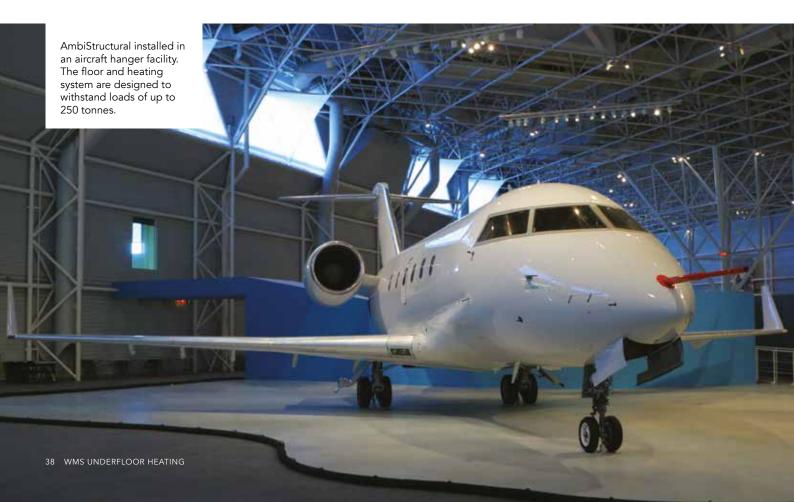
STRUCTURAL FLOOR SYSTEM

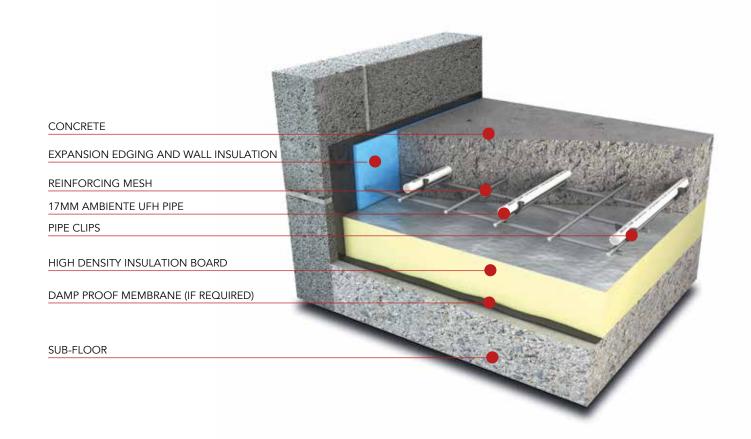
Designed to suit high load bearing floor constructions, the AmbiStructural system is perfectly suited for use in car showrooms, factories and aircraft hangers and many other high point load areas.

- DESIGNED FOR HIGH LOAD APPLICATIONS
- > LOW COST AND FAST INSTALLATION
- > HEATING IS APPLIED EVENLY ACROSS LARGE FLOOR AREAS
- > VERSATILE PIPE LAYOUT

The AmbiStructural system can also be used in a number of non-load bearing applications such as within polished concrete floor slabs or where reinforcing mesh is required within the screeded floor build-up to provide additional support to the floor construction.

In high load bearing applications, high density floor insulation panels are also required and are laid over with an A412 reinforcing mesh on to which the underfloor heating pipework is clipped.







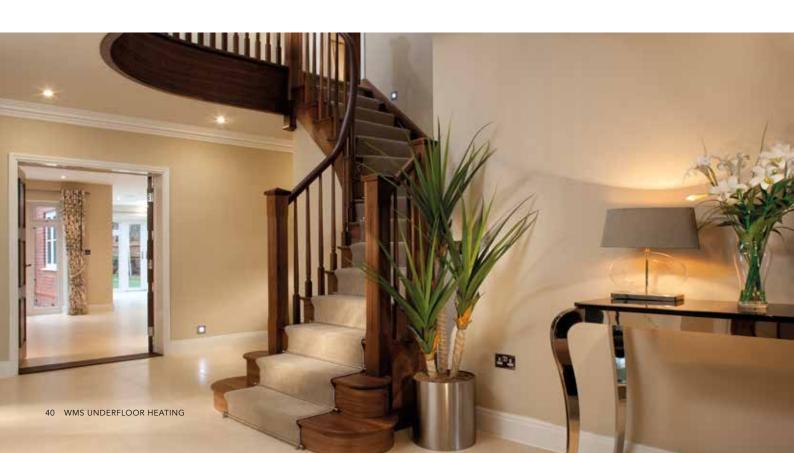


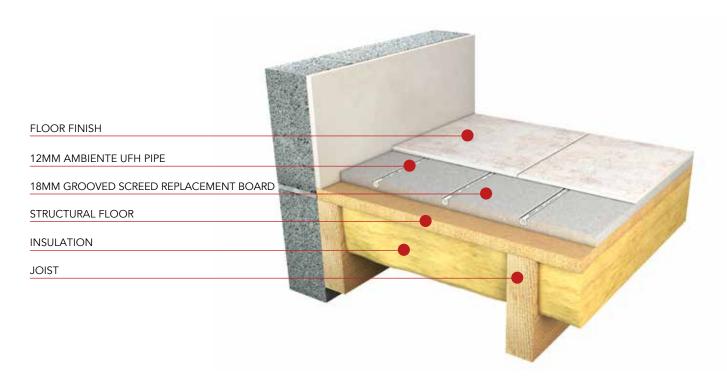
LOW PROFILE SYSTEMS

Our low profile range of systems has been uniquely designed to offer slim line solutions commonly required within the refurbishment market. These systems are equally suitable to new build applications but thought should be given to targeted insulation value due to the low profile nature of the systems.

- > ULTRA SLIM FLOOR BUILD UP
- SUITABLE FOR BOTH NEW AND REFURBISHMENT APPLICATIONS
- > QUICK RESPONSE TIMES
- > COMPATIBLE OVER EXISTING FLOORS

From only 18mm overall build-up, WMS are pleased to incorporate a range of solution driven systems that can solve floor build-up issues and design errors, or allow underfloor heating to be a replacement of traditional radiator systems in refurbishment projects.















AMBILOWBOARD SRB

Grooved screed replacement board system.

Consists of pre-routered screed boards which offers the perfect solution for tiled floors. The screed boards' excellent conductivity properties make a highly effective and responsive heating system. Tiles can be laid directly on top of the screed board raising the overall floor build-up by only 18mm.

AMBILOWBOARD EPS

Grooved insulation system.

Can be used in existing and new build applications. It utilises the same principals as the AmbiFloat 10 system but has been optimised to use an 18mm high density insulation and minimise the impact on the floor build-up.

AMBIDECK 18

Grooved insulation system.

Incorporates an 18mm XPS insulation panel as well as being able to be tiled directly onto.

AMBICHIPBOARD

Grooved chipboard system.

Another development of the low floor build-up range that provides a structural floor solution over suspended timber floors, ideally for engineered joists that cannot be notched or where full height steels restrict the use of the AmbiPlate system.

AMBISOLO

Low profile castellated system.

This system is designed to be laid over concrete and timber floors. It is ideal solution to out of tolerance floors or where the floor build-up needs to be fully bonded due to sensitive floor finishes being laid on top. The overall build-up can be a little as 20mm.

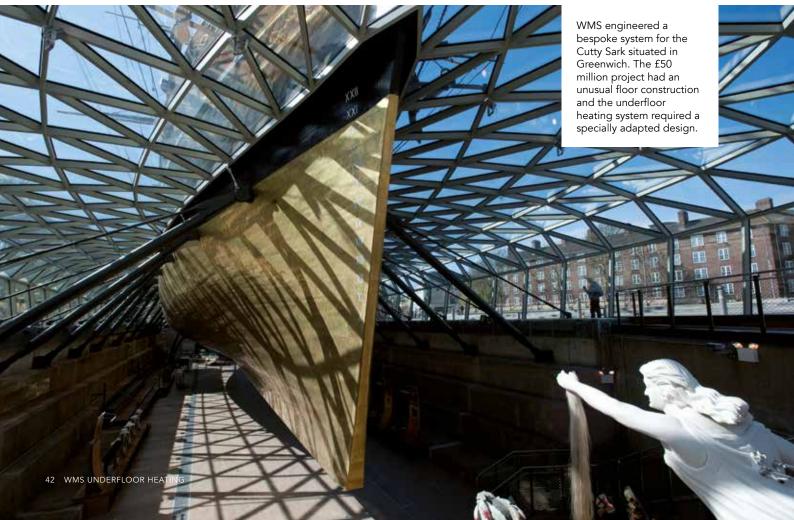
BESPOKE SYSTEMS

In addition to our comprehensive range of standard floor systems, we also offer bespoke systems that can be specially engineered to your specific project specifications.



IF YOUR PROJECT HAS SPECIALIST DESIGN AND INSTALLATION REQUIREMENTS, PLEASE DO NOT HESITATE TO CONTACT US. WE TAKE PRIDE IN DEVELOPING BESPOKE SOLUTIONS FOR OUR CLIENTS BY PROVIDING A PROFESSIONALLY DESIGNED, INSTALLED AND FULLY GUARANTEED SOLUTION.







AMBIAF SYSTEM

The AmbiAF system is uniquely designed to incorporate underfloor heating into raised access floor constructions. The system provides a primary heating or cooling source whilst maintaining full access to services within the floor void.



AMBIPLATE 80 SERIES

Combining contemporary heating technology with traditional timber floors, this system is designed specifically for retrofit and refurbishment projects where the system has to be installed from below.



BESPOKE CLIP SYSTEM

A cost effective system for use where the heat requirements of the building are low. It can be used in a variety of floor build-ups including joisted floors, battened floors and overbattened floors on engineered joists.



AMBIWALLBOARD SYSTEM

Transforms walls and ceilings into efficient, fast-response heating and cooling surfaces where energy is evenly distributed over the wall or ceiling to provide a pleasant room temperature without dust circulating in the air. It can be retrofitted or fitted during construction for new build projects.



BESPOKE BISCUIT SCREED SYSTEM

An excellent solution for areas that require a higher heat output than the nominal 70 w/m² achieved by the AmbiPlate systems. This system can achieve outputs up to 90 w/m². It can also be integrated into existing or new build applications.



AMBISUBLIME 'BREATHABLE' FLOOR SOLUTION

A highly specialised system that we developed for use on lime screed floors. The system's breathability makes it an ideal retrofit choice for solid wall properties as well as for some new builds and extensions due to its excellent environmental credentials and its simplicity and ease of installation.



46 HOLLAND PARK VILLAS, KENSINGTON

48 KINGS GATE, LONDON SW1

50 NOVA, VICTORIA LONDON

52 BAGEL FACTORY, HACKNEY WICK

54 ONE TOWER BRIDGE, LONDON

56 BISHOPS PARK, THE BISHOPS AVENUE

58 BENTLEY PRIORY, STANMORE

60 CUTTY SARK GREENWICH, LONDON

66

97% OF OUR **BUSINESS IS GENERATED BY** REPEAT CUSTOM OR REFERRALS.





HOLLAND PARK VILLAS, KENSINGTON

A RARE COLLECTION OF 68 EXCEPTIONAL APARTMENTS AND FOUR MAGNIFICENT PENTHOUSES OVERLOOKING LONDON'S MOST CHARMING PARK. LOCATED AT THE END OF A CUL-DE-SAC WITH FOUR INDIVIDUAL CORES AND VERY LIMITED SPACE ON SITE, THIS PROVIDED A VERY CHALLENGING LOGISTICS SCENARIO.

SYSTEM

Bespoke floating floor

CLIENT

Native Land / Multiplex

THE PROJECT BRIEF

The tight programme prevented screed on the upper floors due to the drying times.

The sensitive, large format natural stone floor finishes required a suitably strong subfloor.

THE SOLUTION

WMS undertook the specialist design and build package including the complete subfloor between structural slab and underside of floor finishes:
Subfloor preparation and levelling to a high tolerance.
Acoustic membrane.

Bespoke high density Dry AmbiFloat Underfloor heating system.

Dry structural overlay board in varying thicknesses to support floor finishes and maintain level thresholds.

THE RESULTS

WMS successfully completed the works without causing delay, adapting to many changes in the overall build sequence along the way. A positive and professional final account was achieved in January 2018 and WMS left the project in a strong relationship with all key stakeholders that has since led to other repeat work.

The finished building is absolutely stunning and WMS are proud to have been a part of its design and construction. Residents, including a famous music artist, will enjoy solid subfloors with TRUSTED WARMTH for many years to come!



KINGS GATE, LONDON SW1

AT THIS VERY BRITISH ADDRESS, COMMANDING
BREATHTAKING VIEWS OF THE ROYAL PARKS AND
BUCKINGHAM PALACE, WE ARE PROUD TO INTRODUCE
A NEW VISION FOR BEAUTIFULLY CRAFTED LIVING.
ONE HUNDRED ELEGANT APARTMENTS, STUDIOS AND
PENTHOUSES IN AN EXCEPTIONALLY WELL DESIGNED
BUILDING WHICH COMBINES RENAISSANCE ITALIAN
INFLUENCES WITH UNDERSTATED BRITISH ELEGANCE.

SYSTEMAmbiTak

CLIENTLandsec

THE PROJECT BRIEF

Our client wanted a service to match the exclusive location and we initially took over this project as they were let down on a technical issue.

THE SOLUTION

We stepped in happily and with our knowledge and experience we were easily placed to overcome any issues and still work to a fast paced programme.

THE RESULTS

A development of 100 apartments in the heart of a great world city. We built strong relationships through our expertise with key stakeholders in the project which led to a smooth and successful delivery.



NOVA, VICTORIA LONDON

NOVA VICTORIA BETWEEN VICTORIA STATION, BUCKINGHAM PALACE AND THE ROYAL PARKS. IT FOLLOWS THE REDEVELOPMENT OF VICTORIA STATION. THE DEVELOPMENT CONSISTS OF 170 APARTMENTS OF THE HIGHEST SPECIFICATION AT THE CENTRE OF ONE OF LONDON'S MOST PRESTIGIOUS NEIGHBOURHOODS.

SYSTEM

AmbiTak

CLIENT

Land Securities

ARCHITECT

Powell Dobson | Allford Hall Monaghan Morris Flanagan Lawrence

THE PROJECT BRIEF

We were approached to carry out the complete delivery of the floor build-up on the Nova Victoria development because of a proven track record of delivering on complex residential schemes in central London and in particular, following the successful completion of Kingsgate House. The project involved developing a fully approved and tested floor construction within a very thin build-up using a screed-based system that complied with all the necessary residential acoustic requirements.

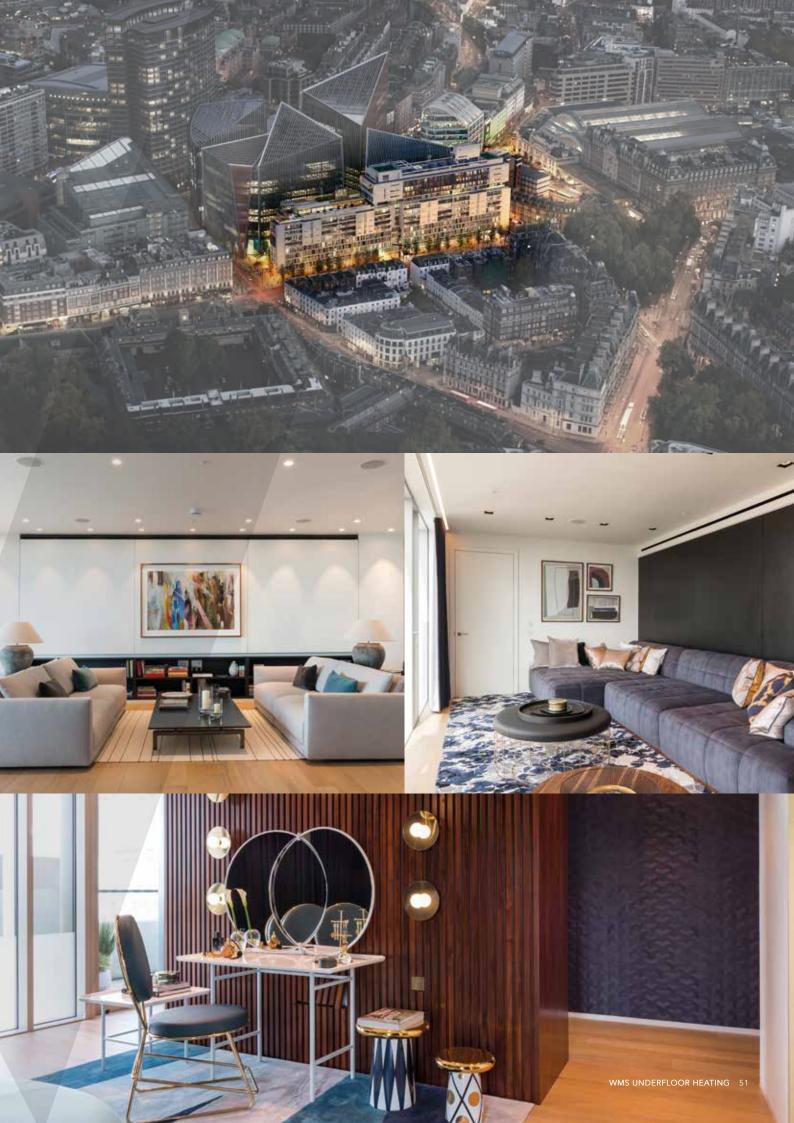
THE SOLUTION

The design and build contract gave us the flexibility to develop a viable solution within the restriction floor build-up zone, as well as taking into consideration the varied tolerances that every concrete and screed are subjected to. The process involved using independent specialists to assist in the testing and sign off process and satisfy the complete team of the innovative and robust proposal. We were also able to successfully complete the programme within the short time frame and overcome the challenging logistical location (just next to Victoria Station).

THE RESULTS

We are glad to report a successful completion of the works during the early part of 2016 and are proud to have been associated with such a phenomenal development in a prime location. The overall development value was over £2bn, a major project that will remain iconic for many years to come. We continue to enjoy the working relationships with the Nova Victoria team on other prime residential developments.

Land Securities testimonial: "We have worked with WMS on two of our flagship developments; Nova Victoria and Kingsgate House. We first worked together on Nova for 170 super-prime apartments, they were introduced to the scheme at a late stage and worked tirelessly to keep the project to program and impressed us all with their commitment, speed and flexibility. In particular I have valued WMS' positive and supportive approach at client handover stage. We work with companies like WMS to uphold the level of service we pride ourselves in providing to our clients."



BAGEL FACTORY, HACKNEY WICK

STANDING PROUD IN THE HEART OF HACKNEY WICK IS BAGEL FACTORY, A FLAGSHIP DEVELOPMENT COMPRISING OF UNIQUE WAREHOUSE STYLE APARTMENTS SPREAD ACROSS AN IMPRESSIVE THREE BUILDING COMPLEX.

SYSTEM AmbiDuoClip

CLIENT Aitch Group

THE PROJECT BRIEF

Our client had secured this unique project and were looking for a specialist UFH contractor to design, supply and install the UFH works for them, within a very challenging programme.

THE SOLUTION

Our client wanted the confidence of using a specialist UFH contractor to design, supply and install the UFH. We have over 15 years experience on delivering for this type of (103 unit) project. We kept the challenging programme on track with our reaction times, and in doing so gave our client the peace of mind they originally sought-after.

THE RESULTS

By involving a specialist UFH contractor the project was completed on time and our client was able to release resource to concentrate on delivering the other elements of their MEP package.





ONE TOWER BRIDGE LONDON

THIS STYLISH AND LUXURIOUS RESIDENTIAL

DEVELOPMENT OFFERS ONE OF THE MOST PRESTIGIOUS

ADDRESSES IN LONDON AT ONE OF THE BEST RIVERSIDE

LOCATIONS, OPPOSITE THE TOWER OF LONDON. THE

DEVELOPMENT COMPRISES EIGHT BLOCKS UP TO 11

STOREY HIGH AND A SINGLE, SLENDER 20 STOREY THAT

IS REFERRED TO AS THE 'CAMPONILE'.

SYSTEM

AmbiClip AmbiTak

CLIENT

Berkeley Homes

ARCHITECT

Squire and Partners PTL

THE PROJECT BRIEF

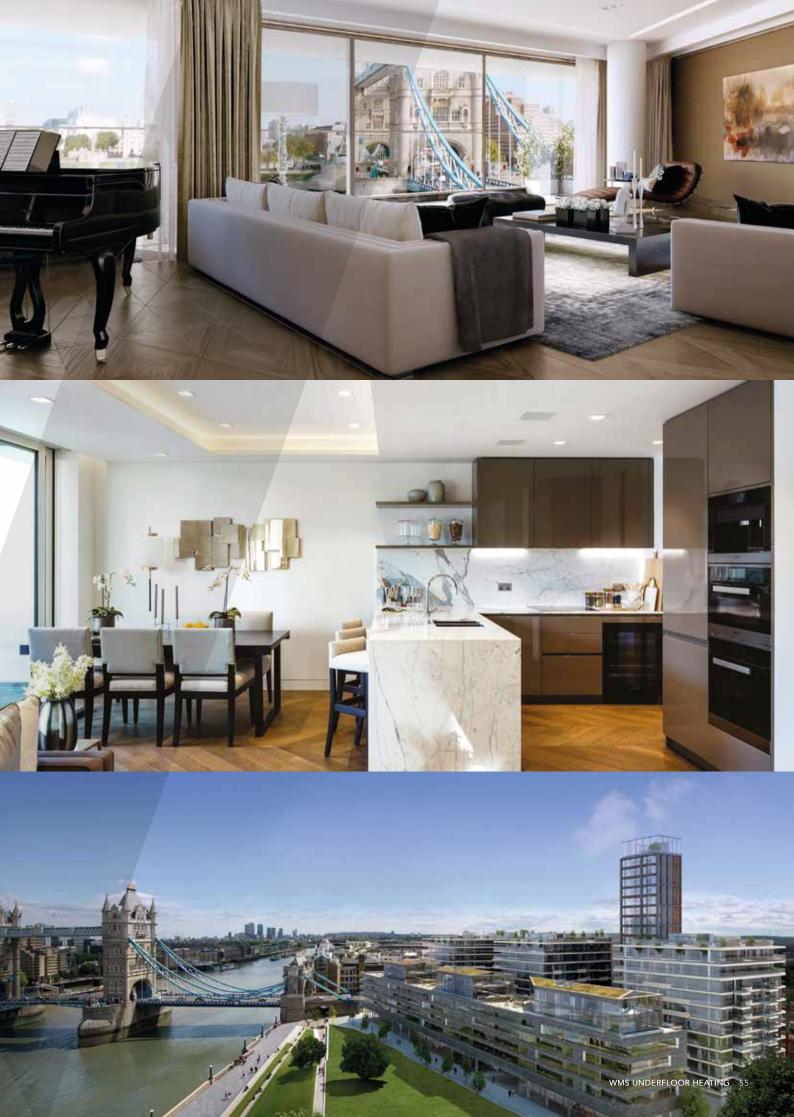
Our client was wanting design input from an underfloor heating specialist who had experience and expertise in the use of underfloor heating with prestigious timber and stone floor finishes. They wanted 100% assurance of floor finish protection coupled with a responsive and efficient underfloor heating system.

THE SOLUTION

WMS designed, supplied, installed and commissioned the underfloor heating system to the 346 apartments. Our designs accounted for the various prestigious floor finishes and maximised the underfloor heating output. Control of floor surface temperatures using floor probes ensured the protection of the sensitive timber floor finish. Our client received a turn-key solution from a specialist providing them with complete peace of mind.

THE RESULTS

Our client now has 346 units with underfloor heating fully operational with satisfied occupiers. The protection of our clients brand is of utmost importance when working on such developments. It's the long term result and enhance of our client brand that truly matters.



BISHOPS PARK, THE BISHOPS AVENUE

BISHOPS PARK DEVELOPMENT CONSISTS OF

24 LUXURY APARTMENTS AND THREE MAGNIFICENT

PENTHOUSES WITH PRIVATE GATED GROUNDS OF

ALMOST TWO ACRES THAT INCLUDE WOODLAND

WITH MATURE CEDAR TREES.

SYSTEM

AmbiTak

CLIENT

Bishops Avenue Property Company

ARCHITECT

Moxley Architects Ltd

THE PROJECT BRIEF

Our client required a solution to supply and install UFH to a screeded floor build-up, over hollow core wide plank concrete beams. The floors had to be acoustically treated to meet a the robust detail.

THE SOLUTION

To achieve this, WMS were able to not only supply and install the selected AmbiTak system but also supplied and installed the acoustic layer and insulation layer, completing the project ready for screeding.

THE RESULTS

The classic design layout and interplay of natural daylight gave unique sense of space in each apartment, raising the standard of living to a new level of enjoyment. Terraces and balconies are generously proportioned and afford timeless views across the neighbouring countryside. The property also benefits from an underground car park served by lifts to each floor.



BENTLEY PRIORY, STANMORE

THE RAF BENTLEY PRIORY SITE, WHICH COVERS 50 ACRES IN STANMORE, NORTH LONDON, WAS PURCHASED BY BARRATT DEVELOPMENTS IN 2002 FOR A DEVELOPMENT OF 89 LUXURY RESIDENTIAL UNITS VARYING FROM APARTMENTS TO SINGLE DETACHED HOUSES.

Built in 1766, Bentley Priory itself is a grade 2 listed building that provides the area with an air of historic importance. With past owners including John Hamilton, 1st Marquess of Abercorn and the Dowager Queen Adelaide, it was acquired by the Royal Air Force in 1926 and became the headquarters of Fighter Command during the Second World War.

The RAF continued to occupy the site until 2008, when it relocated to its Northolt facility. As part of the development, the former officers' mess will be renovated to house the Battle of Britain museum.

The first phase included construction of 12 crescent houses. The three storey properties include underfloor heating on each level, with the systems designed, installed and commissioned by WMS. Piping is located under a 75mm screed on the ground floor, with 55mm screeds on the two floors above.

The site has a total of six phases. Phase 2 alone involved the supply and installation of underfloor heating for 2,652m² of floorspace, requiring 16 miles of UFH piping. The final phase of the project will see the completion of 40 apartments located within the Walled Garden area of the development and situated to the former officers' mess.

WMS was delighted to be involved with the conversion of this historically significant site into a luxury residential development with a public access museum.

SYSTEM

AmbiTak AmbiClip

CLIENT

Barratt Homes

ARCHITECT

Clague



CUTTY SARK GREENWICH LONDON

THE CUTTY SARK IS THE MOST FAMOUS TEA CLIPPER
EVER BUILT AND IS THE ONLY ONE TO SURVIVE. BUILT
IN 1869 AND NAMED AFTER A FLEET-FOOTED WITCH IN
THE SCOTTISH LEGEND OF TAM O'SHANTER, THE SHIP
WAS ALMOST DESTROYED BY FIRE IN 2007. FOLLOWING
LOTTERY FUNDING AND PUBLIC DONATIONS IT WAS
DECIDED TO CONSERVE THE SHIP TO ITS FORMER GLORY
AND BUILD AN IMAGINATIVE NEW VISITOR CENTRE AT
THE SHIP'S HOME IN GREENWICH DOCK.

The project raises the 980 tonne ship over three metres and a glass canopy encloses the dry berth to protect the ship's hull from the elements. This allows visitors to view the clipper's uniquely shaped 'built for speed' hull from below. The new facility also has an indoor shopping area and cafe.

Due to the unusual floor construction in the dry berth, underfloor heating panels were specially designed by WMS engineers. The installation featured a raised floor build up that was supported by pedestals holding large calcium sulphate boards pregrooved to allow the underfloor heating pipe work to be laid flush within each panel. This provided a completely floating floor slab that as the primary heat source, capable of achieving at least 70 watts per metre. This is a unique design and was created by WMS designers using our experience and knowledge of underfloor heating and its wide range of applications.

SYSTEM

Bespoke

CLIENT

Cutty Sark Trust

ARCHITECT

Grimshaw Architects LLP



GET IN TOUCH

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youtube.com and search WMS Underfloor Heating



WMS Underfloor Heating



@WMS UFH











