

Underfloor Heating Solutions Guide



About us

Uheat is a trading style of Pedarson Ltd (The Pedarson Group), a wholly family-owned and managed company established in 2003.

Our business ethos from the very start has been (and always will be) based on offering the highest standards of customer service, together with a range of products that meet our stringent demands for utmost quality and value for money. Here at Uheat, we pride ourselves on our approach to customer service and every time you contact us, you can expect to receive professional and friendly advice.

Uheat specialises in the supply of electric and water underfloor heating, radiators and fittings, plumbing accessories and frost protection solutions.

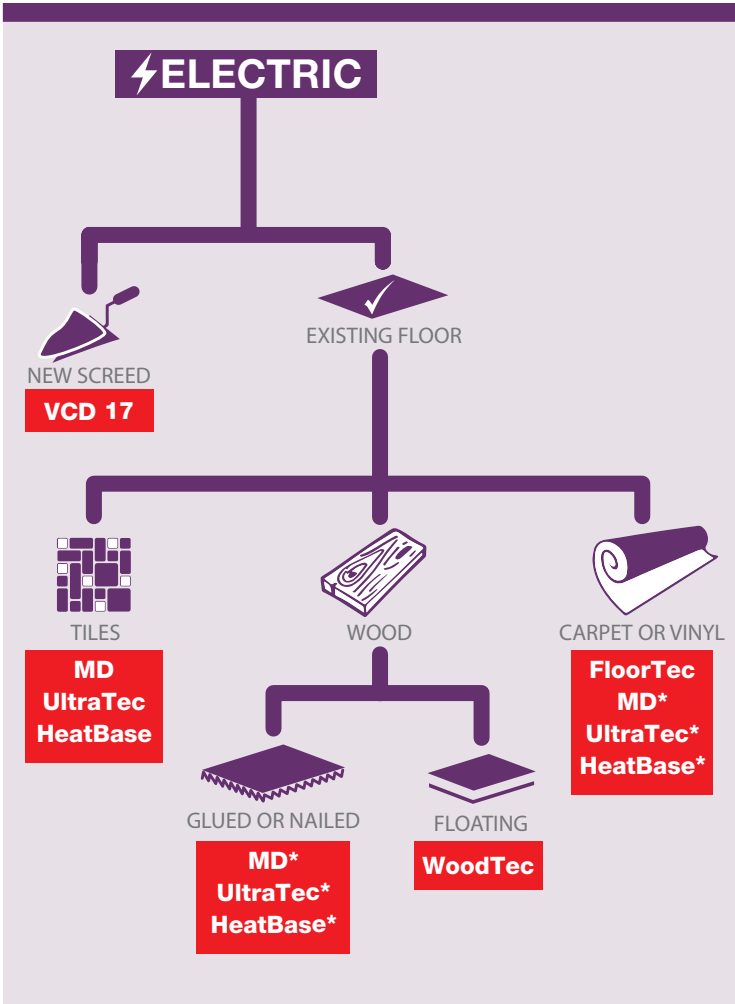
Our extensive range of underfloor heating / frost protection products can provide solutions for virtually any type of project. Whether it be a complete new build, renovation/refurbishment or extension.



mail@uheat.co.uk

01394 384077

ELECTRIC UNDERFLOOR HEATING



MD

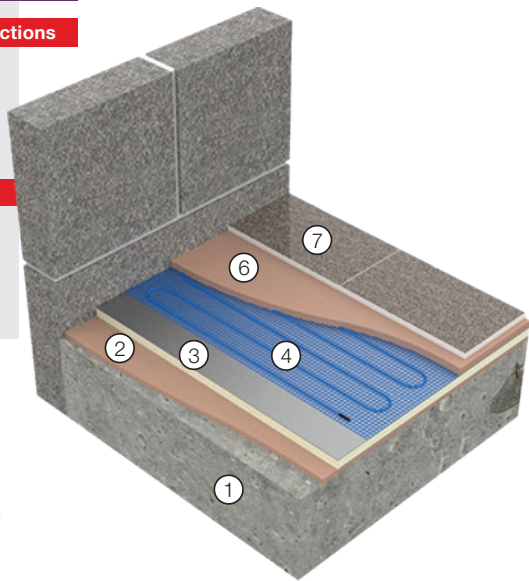
Suitable floor Constructions

Solid / Screed
Beam & Block
Suspended Timber
Batten Floor

Suitable floor finishes

Tiles
Wood
Vinyl
Carpet

- 1 Base Floor
- 2 Flexible Tile Adhesive
- 3 Insulation
- 4 MD Heating Mat
- 6 Flexible Tile Adhesive and /or Compound
- 7 Floor Finish



Tools Required

Multimeter
Insulation Resistance Tester
Scissors
Screwdrivers

Used for:-

Testing Resistance
Testing Insulation Resistance
Cutting Heating Mat
Connecting Thermostat

Materials Available from Uheat

Complete Kits (Standard & Bespoke)
Heating Mats
Thermostats with Floor Sensor
Insulation
Flexible Tile Adhesive
Levelling Compound
Tools

Notes:

- Insulation is optional underneath the heating mats but it will reduce the warmup time and reduce running costs so it should always be used if possible.
- If the floor finish is tiles, then you can either use flexible tile adhesive directly on the heating mat or self-level over the heating mat then fix the tiles with flexible tile adhesive.
- If you're going to use MD heating mats under wood, vinyl or carpet, then you will need to use a levelling compound over the mat before installing the floor finish.



THE FOUNDATION OF YOUR WETROOM

mail@thewetroomstore.co.uk 01394 593300



WATERPROOFING & TILING ESSENTIALS

mail@tilefixstore.co.uk 01394 330929



MODERN & TRADITIONAL HEATING SOLUTIONS

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VCD 17

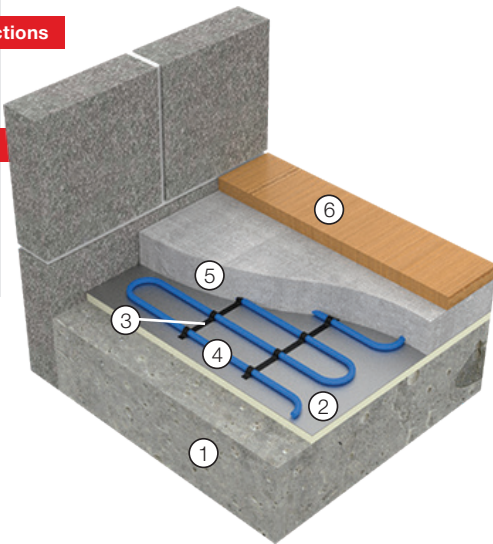
Suitable floor Constructions

Solid / Screed
Beam & Block

Suitable floor finishes

Tiles
Wood
Vinyl
Carpet

- 1 Sub-floor
- 2 Insulation
- 3 Metal Fixing Bands
- 4 Heating cable
- 5 Screed (min 50mm)
- 6 Floor Finish



Tools Required

Multimeter
Insulation Resistance Tester
Resistance Tester
Screwdrivers

Used for:-

Testing Resistance
Testing Insulation
Connecting Thermostat

Materials Available from Uheat

Complete Kits (Standard & Bespoke)
Heating Cables
Thermostats with Floor Sensor
Insulation
Flexible Tile Adhesive
Levelling Compound
Tools

Notes:

- Insulation should be rigid PIR
- Some insulation / screed combinations require a vapour barrier to be installed directly on the insulation before you install the cable and lay the screed.
- To comply with building regulations, you should use a minimum 65mm sand / cement screed or 50mm pumped screed.

FloorTec / WoodTec

Suitable floor Constructions

Solid / Screed
Beam & Block
Suspended Timber
Batten Floor

Suitable floor finishes

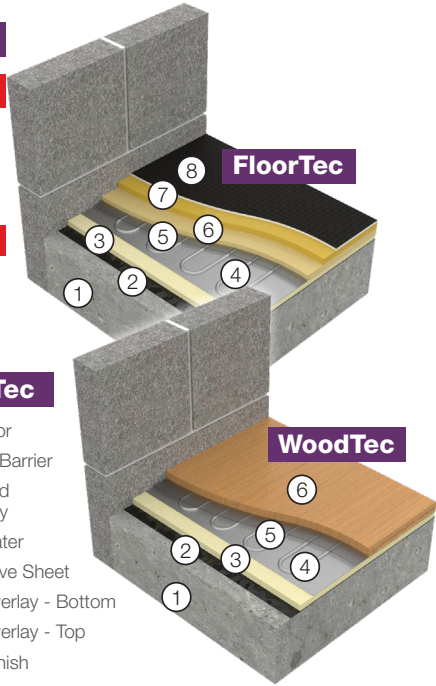
Carpet (FloorTec)
Wood (WoodTec)

WoodTec

- 1 Sub-floor
- 2 Vapour Barrier
- 3 Insulated Underlay
- 4 Foil Heater
- 5 Protective Sheet
- 6 Floor Finish

FloorTec

- 1 Sub-floor
- 2 Vapour Barrier
- 3 Insulated Underlay
- 4 Foil Heater
- 5 Protective Sheet
- 6 Dual Overlay - Bottom
- 7 Dual Overlay - Top
- 8 Floor Finish



Tools Required

Multimeter
Insulation Resistance Tester
Scissors
Screwdrivers

Used for:-

Testing Resistance
Testing Insulation Resistance
Cutting Heating Mat
Connecting Thermostat

Materials Available from Uheat

Complete Kits (Standard & Bespoke)
Heating Mats
Thermostats with Floor Sensor
Insulation
Tools

Notes:

- It is essential that a 6mm XPS insulating underlay, such as Izotherm, is used under the WoodTec heating mats.
- Your laminate or engineered wood flooring can be laid directly WoodTec system without the need for any other underlay.
- The thermal resistance of your floor covering (Carpet + Underlay) should not exceed 2.5 TOG.

HeatBase

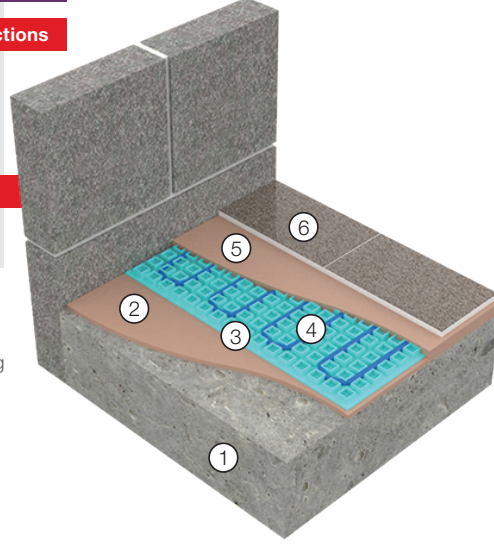
Suitable floor Constructions

Solid / Screed
Beam & Block
Suspended Timber
Batten Floor

Suitable floor finishes

Tiles

- 1 Sub-floor
- 2 Flexible Tile Adhesive
- 3 Heat Base Decoupling Membrane
- 4 Heating Cable
- 5 Flexible Tile Adhesive
- 6 Floor Tiles



Tools Required

Multimeter
Insulation Resistance Tester
Screwdrivers

Used for:-

Testing Resistance
Testing Insulation Resistance
Connecting Thermostat

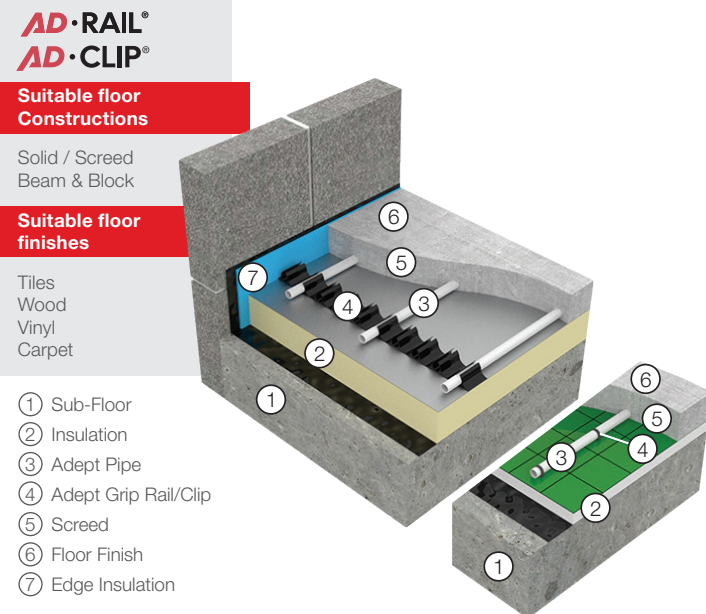
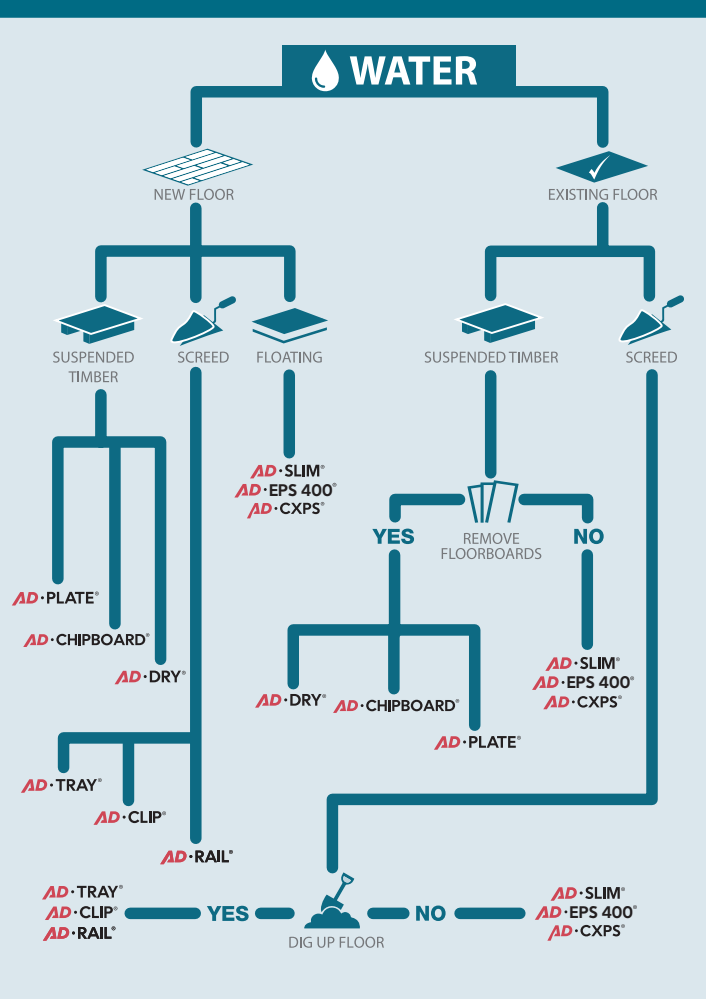
Materials Available from Uheat

Complete Kits (Standard & Bespoke)
Heating Cables
Thermostats with Floor Sensor
Insulation
Flexible Tile Adhesive
Levelling Compound
Tools
Decoupling Membrane

Notes:

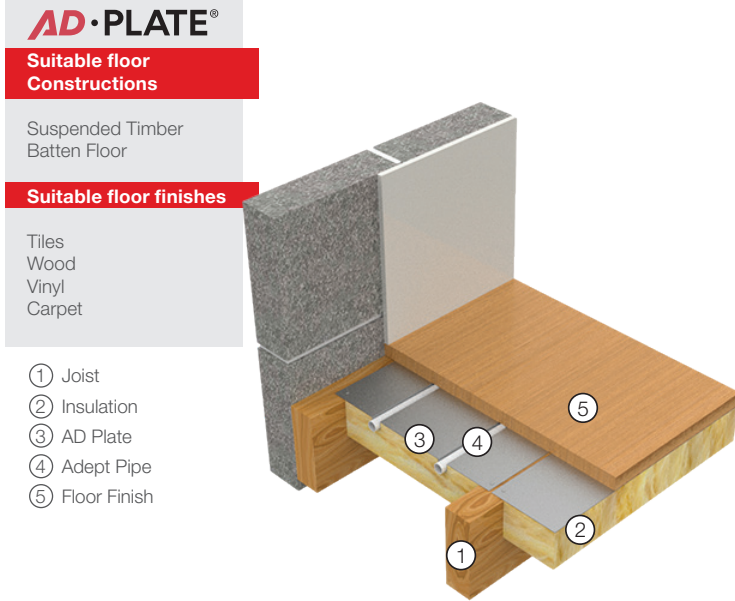
- You must use flexible tile adhesive to secure the HeatBase mat to the floor and to fix the tiles on top of the heating cable / HeatBase mat
- As you are using Heatbase, you will not need any other decoupling membrane.


WATER UNDERFLOOR HEATING



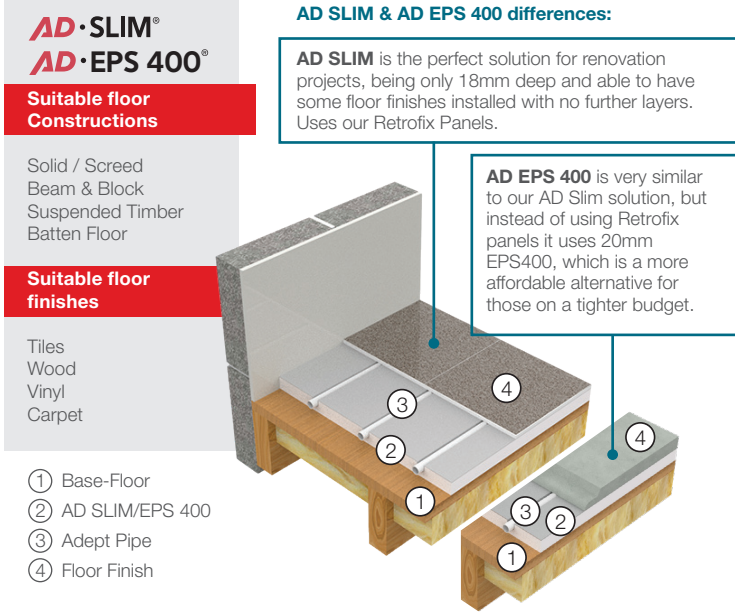
Tools Required	Used for:-	Materials Available from uheat
Pipe Cutter	Cut pipe to length	Complete Kits (Standard & Bespoke)
Pipe Reamer/Beveller	Prepare pipe for connection	Pipe
Power Drill	Drill fixings for manifold	Pipe Clips
Spanner	Tighten pipe fittings	Manifolds
Hydraulic Test Pump	Pressure test pipe loops	Pump / Mixer Sets
		Pipe Fittings
		Thermostats & Controls
		Tools

- Notes:**
- Insulation should be rigid PIR
 - Some insulation / screed combinations require a vapour barrier to be installed directly on the insulation before you install the pipe and lay the screed.
 - To comply with building regulations, you should use a minimum 65mm sand / cement screed or 50mm pumped screed.



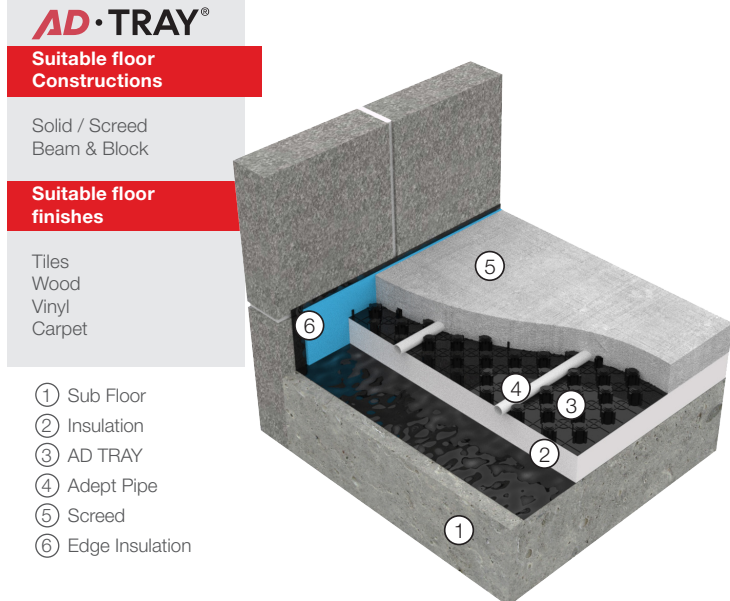
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Tools Required Pipe Cutter Pipe Reamer / Bevellor Power Drill Spanner Hydraulic Test Pump	Used for:- Cut pipe to length Prepare pipe for connection Drill fixings for manifold Tighten pipe fittings Pressure test pipe loops
Optional Tools Hammer	Materials Available from Complete Kits (Standard & Bespoke) Pipe Pipe Clips Manifolds Pump / Mixer Sets Pipe Fittings Thermostats & Controls Tools


- Notes:**
- Insulation is typically rockwool but rigid insulation can be used.



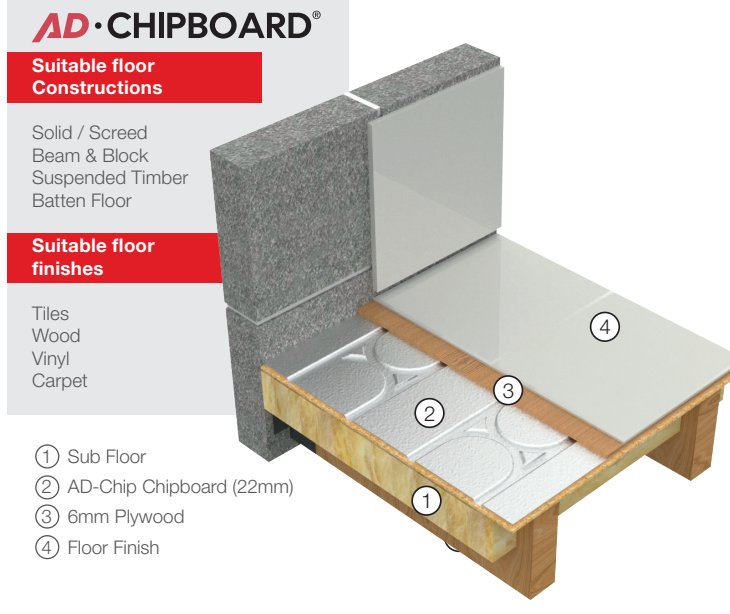
Tools Required	Used for:-	Materials Available from uheat
Pipe Cutter	Cut pipe to length	Complete Kits (Standard & Bespoke)
Power Drill	Drill fixings for manifold	Pipe
Spanner	Tighten pipe fittings	Pipe Clips
Hydraulic Test Pump	Pressure test pipe loops	Manifolds
Knife	Cut Panels	Pump / Mixer Sets
		Pipe Fittings
		Thermostats & Controls
		Tools


- Notes:**
- Vinyl & Carpet flooring requires 6mm self-levelling compound
 - Please check manufacturers approval when using tile adhesive



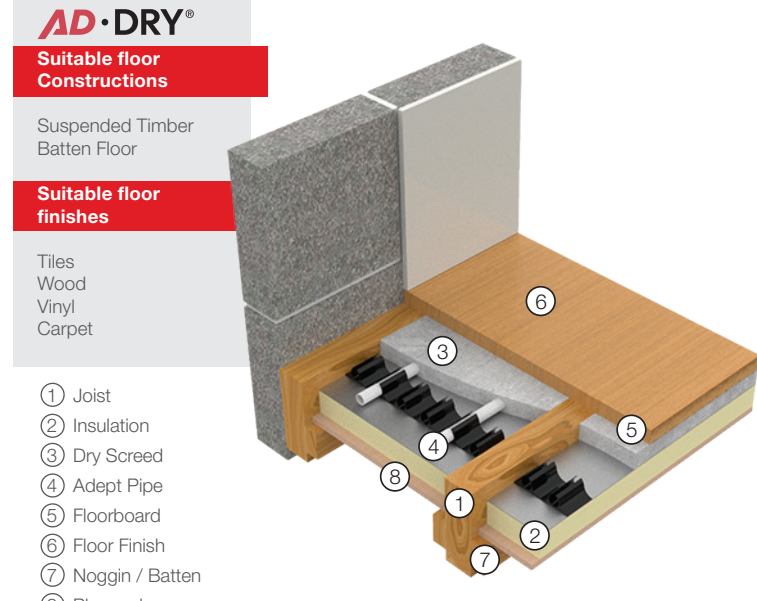
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Tools Required Pipe Cutter Pipe Reamer / Beveler Power Drill Spanner Hydraulic Test Pump	Used for:- Cut pipe to length Prepare pipe for connection Drill fixings for manifold Tighten pipe fittings Pressure test pipe loops
Optional Tools Tacker Gun	Materials Available from Complete Kits (Standard & Bespoke) Pipe Pipe Clips Manifolds Pump / Mixer Sets Pipe Fittings Thermostats & Controls Tools


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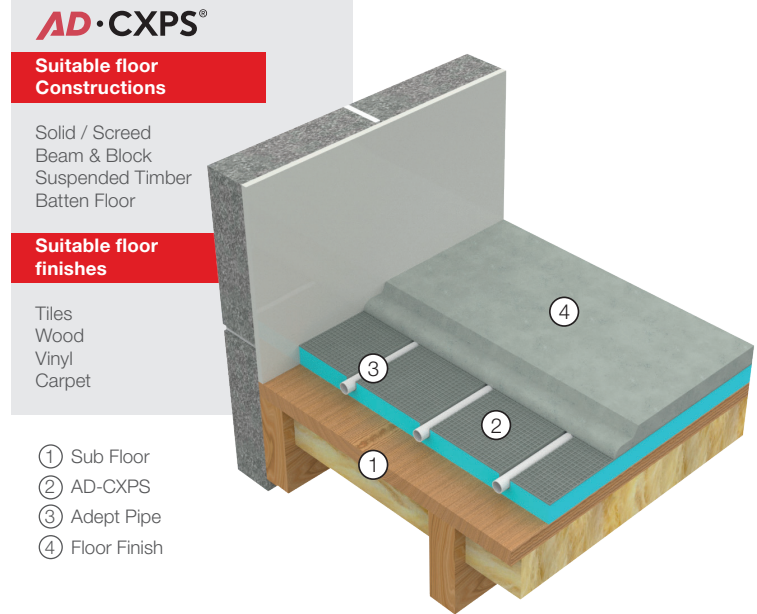
Tools Required		Used for:-		Materials Available from 	
Pipe Cutter		Cut pipe to length		Complete Kits (Standard & Bespoke)	
Power Drill		Prepare pipe for connection		Pipe	
Spanner		Drill fixings for manifold		Pipe Clips	
Hydraulic Test Pump		Tighten pipe fittings		Manifolds	
		Pressure test pipe loops		Pump / Mixer Sets	
				Pipe Fittings	
				Thermostats & Controls	
				Tools	


- Notes:**
- Ad-Chip Chipboard will require oboarding with 6mm plywood before installation of floor finishes



Tools Required	Used for:-	Materials Available from 
Pipe Cutter	Cut pipe to length	Complete Kits (Standard & Bespoke)
Pipe Reamer / Beveller	Prepare pipe for connection	Pipe
Power Drill	Drill fixings for manifold	Pipe Clips
Spanner	Tighten pipe fittings	Manifolds
Hydraulic Test Pump	Pressure test pipe loops	Pump / Mixer Sets
		Pipe Fittings
		Thermostats & Controls
		Tools

- Notes:**
- Insulation should be rigid PIR
 - Some insulation / screed combinations require a vapour barrier to be installed directly on the insulation before you install the pipe and lay the screed.



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Tools Required Pipe Cutter Power Drill Spanner Hydraulic Test Pump	Used for:- Cut pipe to length Prepare pipe for connection Drill fixings for manifold Tighten pipe fittings Pressure test pipe loops
	Materials Available from
	Complete Kits (Standard & Bespoke) Pipe Pipe Clips Manifolds Pump / Mixer Sets Pipe Fittings Thermostats & Controls Tools