Beneath Heat

UNDERFLOOR HEATING SYSTEMS

Design | Supply | Support

Product & Technical Guide

2018/A

Wet Underfloor Heating

Electric Underfloor Heating

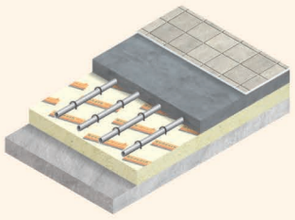
Press Fit Plumbing

Welcome to Beneath Heat

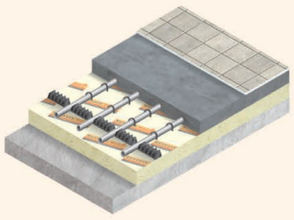
Beneath Heat, a specialist design & supply underfloor heating company offering high quality products & service with excellent value for money.

- Quotations turned around within 24 hours
- Free designs on every project
- Design & supply of materials within 4 days
- Next day delivery on product only
- Fully trained technical department
- High standard of customer service before & after sale

Staple System



Clip & Rail System



15mm Slim Board System

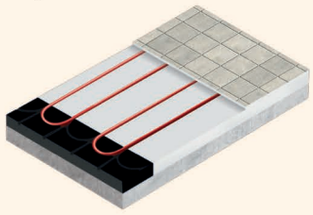
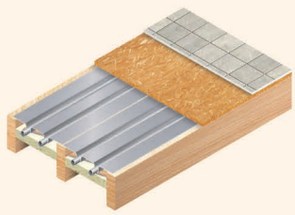
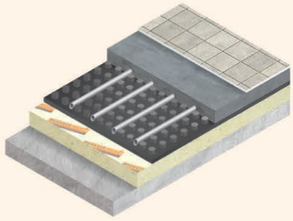


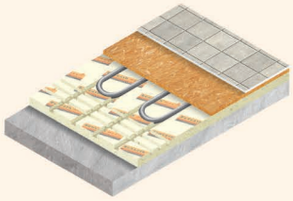
Plate System



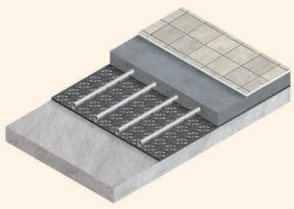
Tacker Panel System



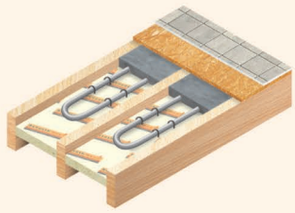
20mm Floating System



15mm Slim Clip System



Dry Screed Mix System



01268 543475

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16mm Pex-Al-Pex Multilayer Pipe

CODE	DESCRIPTION
BHL10016EMM	100m 16x2mm Pex-Al-Pex MLCP Pipe
BHL12016EMM	120m 16x2mm Pex-Al-Pex MLCP Pipe
BHL20016EMM	200m 16x2mm Pex-Al-Pex MLCP Pipe

Notes: Compatible with MLCP press fittings

15mm Polybutylene Barrier Pipe (For Plumbing Or UFH)

CODE	DESCRIPTION
BHL100MPB15	100m 15mm PB Coil

Notes: Compatible with 15mm push fit plumbing fittings (WRAS Approved)

16mm PEX-A EVOH Barrier Pipe

CODE	DESCRIPTION
BHL100162PEXA	100m 16mm PEX-A EVOH Barrier Pipe
BHL240162PEXA	240m 16mm PEX-A EVOH Barrier Pipe

10mm PE-RT Pipe

CODE	DESCRIPTION
BHL8010	80m 10 x 1.3 mm PE-RT Pipe
BHL24010	240m 10 x 1.3 mm PE-RT Pipe

Notes: To be used with 15mm Slim Clip floor system - See page 22

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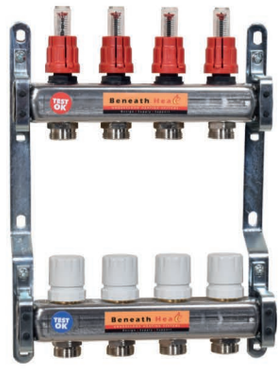
Manifolds



CODE	DESCRIPTION
T-060402-F	2-Port Manifold Inc Flow Meters & Fill Points
T-060403-F	3-Port Manifold Inc Flow Meters & Fill Points
T-060404-F	4-Port Manifold Inc Flow Meters & Fill Points
T-060405-F	5-Port Manifold Inc Flow Meters & Fill Points
T-060406-F	6-Port Manifold Inc Flow Meters & Fill Points
T-060407-F	7-Port Manifold Inc Flow Meters & Fill Points
T-060408-F	8-Port Manifold Inc Flow Meters & Fill Points
T-060409-F	9-Port Manifold Inc Flow Meters & Fill Points
T-060410-F	10-Port Manifold Inc Flow Meters & Fill Points
T-060411-F	11-Port Manifold Inc Flow Meters & Fill Points
T-060412-F	12-Port Manifold Inc Flow Meters & Fill Points

Ball Valves

CODE	DESCRIPTION
T-3114049	Pair 1" Ball Valves (Red / Blue)

Pipe Connection / Connectors

CODE	DESCRIPTION
T-EK10	10 x 1.5mm Pipe Connector
T-EK15	15 x 2mm Pipe Connector
T-EK16	16 x 2mm Pipe Connector
T-EK20	20 x 2mm Pipe Connector

Underfloor Heating Pump Pack

	CODE	DESCRIPTION
	UFH-UPM3	Grundfos UPM3 High Efficiency Pump

Underfloor Heating Blend Valve / Top Elbow

	CODE	DESCRIPTION
	UFH-BLEND	Essco Controls Blend Valve 20-55 C inc Thermometer

Single Area Pump Pack

	CODE	DESCRIPTION
	VL-10	Grundfos Single Area Pump Pack Inc Blend Valve

Single Area Pump Pack Adaptors

	CODE	DESCRIPTION
	VL-ADT	16mm x 1/2" Male Irons
		Notes: 2no to be used with 'VL-10' see above

Compression Couplings

	CODE	DESCRIPTION
	UFH-COUPLING	16 x 16mm Compression Coupling

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230v Wiring Centre

CODE	DESCRIPTION
UFH-ZONE-W	230v Wiring Centre Up To 4no Zones

230v Plug In Extension Module

CODE	DESCRIPTION
UFH-EXTRAZONE 4-W	230v Plug In Extension Module 4no Zones
UFH-EXTRAZONE 6-W	230v Plug In Extension Module 6no Zones

230v Actuator Head

CODE	DESCRIPTION
SA91	Saswell 230v 2 Wire NC Actuator Head

230v Heatmiser Dial Thermostats

	CODE	DESCRIPTION
	UFH-DS1	230v Dial Thermostat

230v Saswell Thermostat

	CODE	DESCRIPTION
	SAS920WHL-7(P)-S	230v Programmable / Non Programmable LCD Thermostat

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Wireless Heatmiser Wiring Centre

	CODE	DESCRIPTION
	UFH-UH8-RF	230v Heatmiser Wireless Wiring Centre Up To 8no Zones

Wireless Heatmiser Slimline Thermostats

	CODE	DESCRIPTION
	UFH-SLIMLINE-RF	Heatmiser Programmable/Non Wireless LCD Thermostat

Network WIFI Heamiser Hub

CODE	DESCRIPTION
UFH-NEOHUB	Heatmiser Neo Internet Gateway

Network WIFI Heatmiser Thermostats

CODE	DESCRIPTION
UFH-THERM-NEO-B	Black Heatmiser NEO Programmable Thermostat
UFH-THERM-NEO-W	White Heatmiser NEO Programmable Thermostat

Notes: Controllable via mobile applications

Thimble Sensor

CODE	DESCRIPTION
UFH-THIMBLESENSOR	Thimble Sensor

Notes: To be used in wet areas

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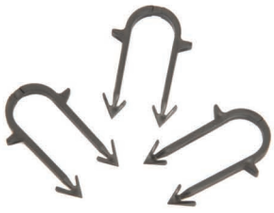
Clip Rail

	CODE	DESCRIPTION
	UC-16M1	100m 16mm Interlocking Clip Rail

Pipe Staples

	CODE	DESCRIPTION
	U-CLIP6	300no 60mm Pipe Staples
	U-CLIP4	300no 40mm Pipe Staples

Edge Insulation

	CODE	DESCRIPTION
	ISO-BOARD50	50m x 150mm x 8mm Edge Insulation

Pipe Conduit

	CODE	DESCRIPTION
	CONR25	25m Black Conduit

Double Groove Aluminium Plate

	CODE	DESCRIPTION
	DIFF400TWIN200	Twin Groove Alumium Plate 390mm x 1000mm - 200mm Centres
	TRIPLEGROOVE150	Triple Groove Aluminium Plate 390 x 1000mm - 150mm Centres

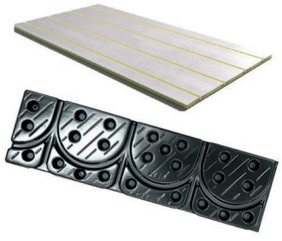
Single Groove Aluminium Plate

	CODE	DESCRIPTION
	SINGLEDIFF	Single Groove Aluminium Plate 1000 x 120mm

Castellated Pipe Positioning Panel

	CODE	DESCRIPTION
	TACKPANEL	1220 x 820mm Tack Panel

Slimboard

	CODE	DESCRIPTION
	UFH-SLIMBOARD	15mm Slim Board 1200 x 600 x 15mm (Grooved 150mm)
	UFH-SLIM-RETURN	600mm x 150mm End Return

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20mm XPS Floating Floor Panel

	CODE	DESCRIPTION
	XPS20FOIL200	20mm Foiled & Grooved XPS Board 1250 x 600 x 20mm

15mm Slim Clip System

	CODE	DESCRIPTION
	UFH-SLIMCLIP	

Notes: To be used with 'BHL8010 & BHL24010' see page 2

22mm Grooved T & G Deck

	CODE	DESCRIPTION
	LK22BOARD	Routed T & G Board 1.8 x 0.6 x 22mm
	LK22TURN	Routed T & G Turning Board 0.8 x 0.59 x 22mm

Notes: To be used with 'SINGLEDIFF' see page 10

Pipe Decoiler

	CODE	DESCRIPTION
	UFH-DECOIL	Pipe De-Coiler

Pipe Cutter

	CODE	DESCRIPTION
	UFH-CUT	Pipe Cutter

Pipe Calibrator

	CODE	DESCRIPTION
	UFH-CALI	Pipe Calibrator

Staple Gun

	CODE	DESCRIPTION
	UFH-GUN	Staple Gun

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20sqm Single Area Pack (Screeded Floor) - Non Independent

CODE	DESCRIPTION	QUANTITY
BHL10016EMM	100m 16x2mm UFH Pipe	1
VL-10	Single Area Pump Pack	1
VL10-APT	16mm x 1/2" Male Iron	2
SAS920WHL-7(P)-S	230v Programmable / Non Programmable LCD Thermostat	1
ISO-BOARD50	50m x 150mm x 8mm Edge Insulation	1
U-CLIP6	300no 60mm UFH Staples	1

Complete Pack Code : BHL20SQM-NON

20sqm Single Area Pack (Screeded Floor) - Independent

CODE	DESCRIPTION	QUANTITY
BHL10016EMM	100m 16x2mm UFH Pipe	1
T-060402-F	2-Port Manifold Inc Flow Meters & Fill Points	1
T-3114049	Pair 1" Ball Valves (Red / Blue)	1
T-EK16	16 x 2mm Pipe Connector	4
UFH-ZONE-W	230v Wiring Centre Up To 4no Zones	1
SAS920WHL-7(P)-S	230v Programmable / Non Programmable LCD Thermostat	1
UFH-UPM3	Grundfos UPM3 High Efficiency Pump	1
UFH-BLEND	Essco Controls Blend Valve 20-55 C inc Thermometer	1
ISO-BOARD50	50m x 150mm x 8mm Edge Insulation	1
U-CLIP6	300no 60mm UFH Staples	1

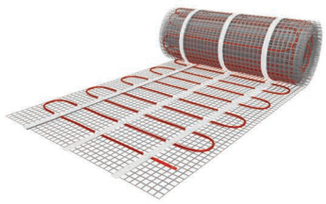
Complete Pack Code : BHL20SQM-IN

35sqm Single Area Pack (Screeded Floor) - Independent

CODE	DESCRIPTION	QUANTITY
BHL20016EMM	200m 16x2mm UFH Pipe	1
T-060402-F	2-Port Manifold Inc Flow Meters & Fill Points	1
T-3114049	Pair 1" Ball Valves (Red / Blue)	1
T-EK16	16 x 2mm Pipe Connector	4
UFH-ZONE-W	230v Wiring Centre Up To 4no Zones	1
SAS920WHL-7(P)-S	230v Programmable / Non Programmable LCD Thermostat	1
UFH-UPM3	Grundfos UPM3 High Efficiency Pump	1
UFH-BLEND	Essco Controls Blend Valve 20-55 C inc Thermometer	1
ISO-BOARD50	50m x 150mm x 8mm Edge Insulation	1
U-CLIP6	300no 60mm UFH Staples	2

Complete Pack Code : BHL20SQM-IN

Under Tile Electric Underfloor Heating Mats



CODE	DESCRIPTION	QTY
ELEC1.0	1 sqm Electric UFH Mat 150W	1
ELEC1.5	1.5 sqm Electric UFH Mat 150W	1
ELEC2.0	2 sqm Electric UFH Mat 150W	1
ELEC2.5	2.5 sqm Electric UFH Mat 150W	1
ELEC3.0	3sqm Electric UFH Mat 150W	1
ELEC4.0	4sqm Electric UFH Mat 150W	1
ELEC5.0	5sqm Electric UFH Mat 150W	1
ELEC6.0	6sqm Electric UFH Mat 150W	1
ELEC8.0	8sqm Electric UFH Mat 150W	1
ELEC10.0	10sqm Electric UFH Mat 150W	1

Electric Underfloor Heating Dial Stat

CODE	DESCRIPTION	QTY
UFH-DS1-E	230v Dial Thermostat Including Floor Sensor	1

Electric Underfloor Heating Programmable Thermostat

CODE	DESCRIPTION	QTY
UFH-SLIMLINE-E	230v Programmable / Non-Programmable LCD Screen Thermostat (Including Floor Sensor)	1

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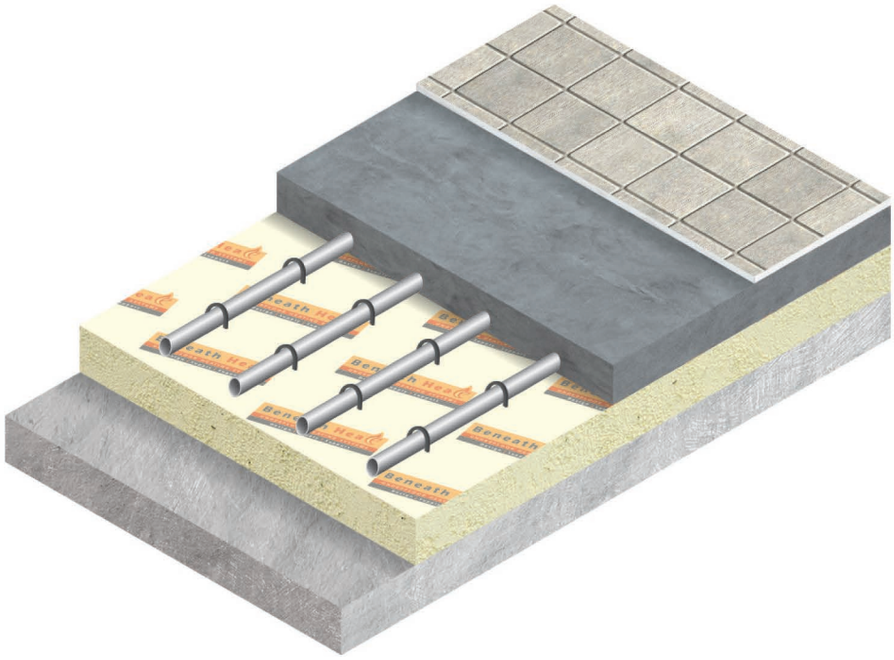
Staple System

Typical Floor Build up



System Information

The Beneath Heat **'Staple System'** has been developed to be used in combination with floor Insulation panels to provide a secure method of securing the pipes to the insulation layer below.

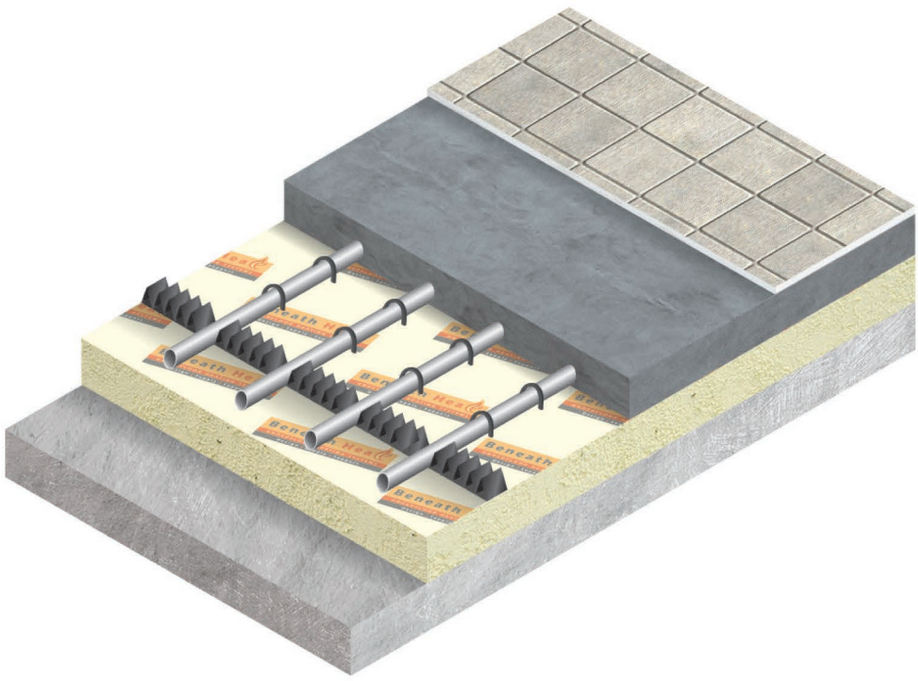
The Beneath Heat **'Staple System'** is used for screeded floors.

Installation

1. Edge insulation is fitted around the perimeter of the heated room providing a barrier against heat loss and expansion.
2. Insulation panels are laid covering the complete floor area
3. 500 gauge black polythene is then laid over the complete area (polythene is only required if liquid screed is being laid).
4. Beneath Heat pipework is then laid in accordance with the Beneath Heat design provided. Pipe is secured to the layers below using pipe staples.
5. Beneath Heat pipework is connected to the manifold, filled & tested in preparation for screeding.

Clip & Rail System

Typical Floor Build up



System Information

The Beneath Heat **'Staple & Rail System'** has been developed to be used in combination with floor Insulation panels to provide a secure method of securing the pipes to the insulation layer below.

The Beneath Heat **'Staple & Rail System'** is used for screeded floors.

Installation

1. Edge insulation is fitted around the perimeter of the heated room providing a barrier against heat loss and expansion.
2. Insulation panels are laid coving the complete floor area.
3. 500 gauge black polythene is then laid over the complete area.
4. Rail is then laid at 1m centres across all areas which are to be heated.
5. Beneath Heat pipework is then laid in accordance with the Beneath Heat design provided. Pipe is secured to the layers below with the rail in combination with staples.
6. Beneath Heat pipework is connected to the manifold, filled & tested in preparation for screeding.

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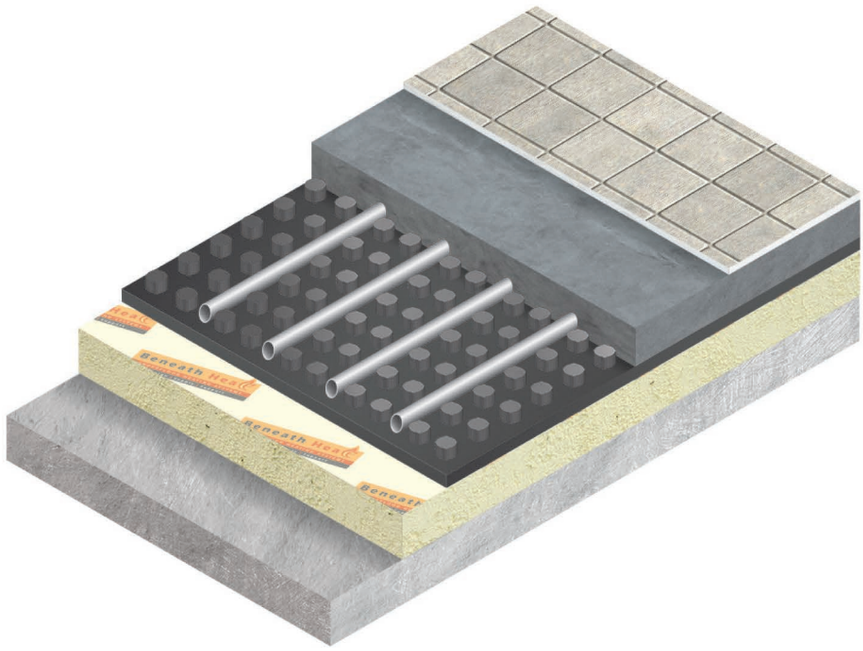
Tacker Panel System

Typical Floor Build up



System Information

The Beneath Heat **'Tacker Panel System'** has been developed to be used in combination with floor Insulation panels to provide a secure method of securing the pipes to the insulation layer below.

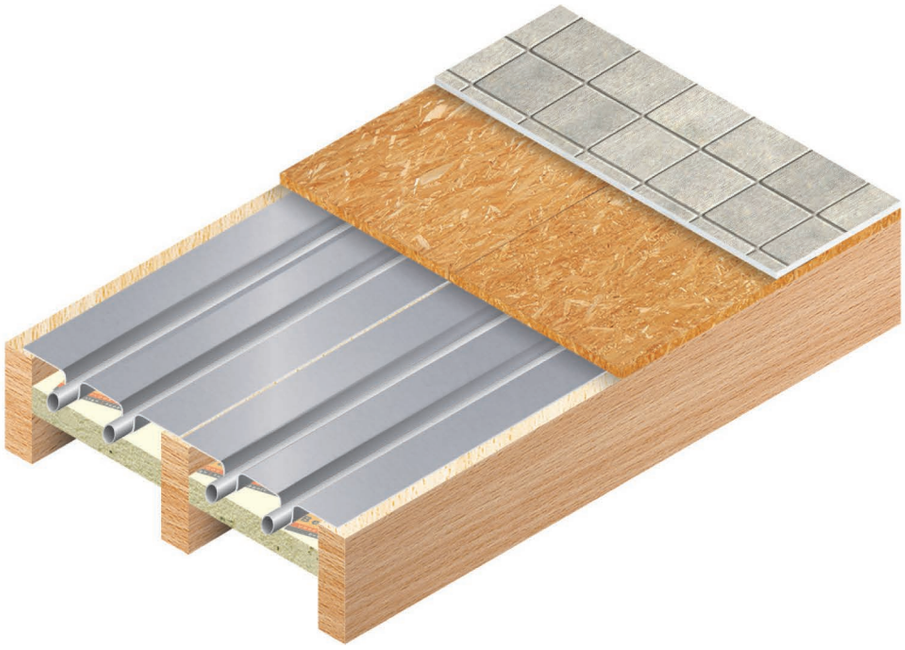
The Beneath Heat **'Tacker Panel System'** is used for screeded floors.

Installation

1. Edge insulation is fitted around the perimeter of the heated room providing a barrier against heat loss and expansion.
2. Insulation panels are laid covering the complete floor area
3. 500 gauge black polythene is then laid over the complete area.
4. The tacker panel is laid to cover the complete floor area.
5. Beneath Heat pipework is then laid in accordance with the Beneath Heat design provided. Pipe is secured to the layers below with the rail in combination with staples.
6. Beneath Heat pipework is connected to the manifold, filled & tested in preparation for screeding.

Plate System

Typical Floor Build up



System Information

The Beneath Heat **'Plate System'** has been developed to be used in combination with timber joists to provide a secure method of securing the pipes.

The Beneath Heat **'Plate System'** is used for joisted floors.

Installation

1. All joists need to be fully exposed.
2. Insulation is to be laid between the joists.
3. Secure the plate to the joist using a staple gun.
4. Notch every other joist so pipework can pass between each joist void.
5. Beneath Heat pipework is then laid in accordance with the Beneath Heat design provided. Pipe is secured into the grooves within the plate.
6. Beneath Heat pipework is connected to the manifold, filled & tested in preparation for floor boards to be laid.

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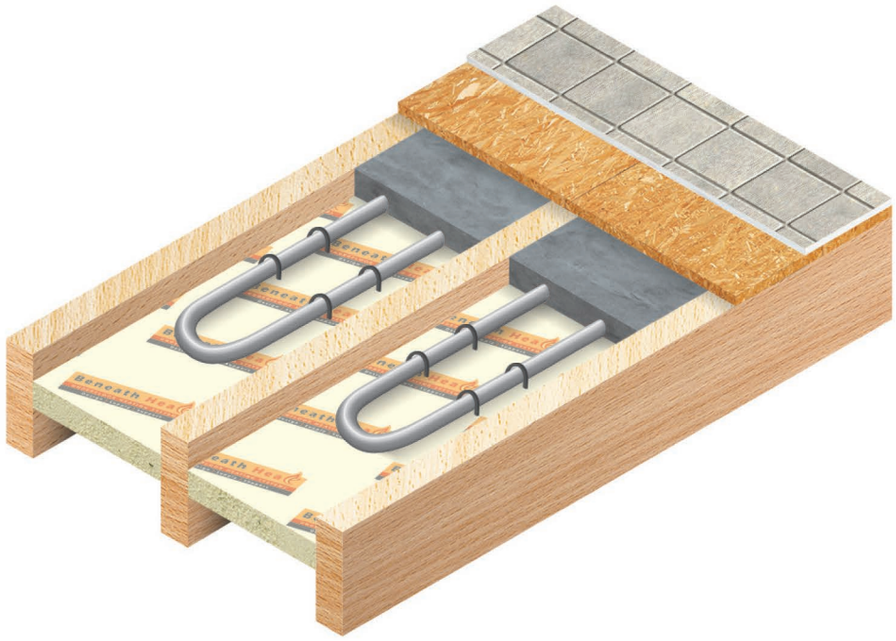
Dry Screed Mix System

Typical Floor Build up



System Information

The Beneath Heat **'Dry Screed System'** has been developed to be used in combination with timber joists to provide a secure method of securing the pipes.

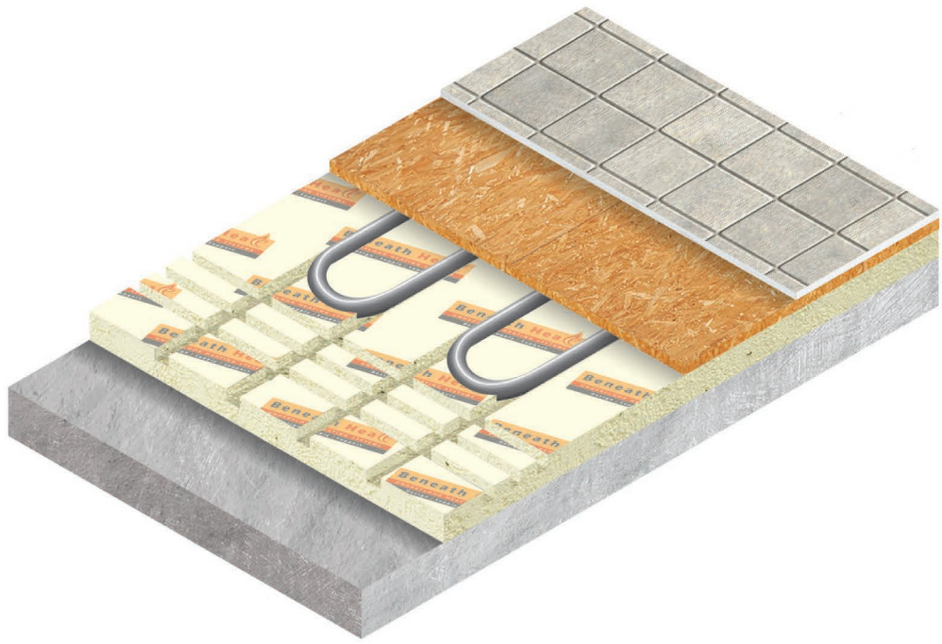
The Beneath Heat **'Dry Screed System'** is used for joisted floors.

Installation

1. All joists need to be fully exposed.
2. Battens are to be installed between the joists, to support insulation.
3. Notch every other joist so pipework can pass between each joist void.
4. Beneath Heat pipework is then laid in accordance with the Beneath Heat design provided. Pipe is secured using a pipe staple pushed into the insulation.
5. Beneath Heat pipework is connected to the manifold, filled & tested in preparation for the dry screed mix to be spread & floor boards to be laid.

20mm Floating System

Typical Floor Build up



System Information

The Beneath Heat **'20mm Floating System'** has been developed to be used where screeding is not an option.

The Beneath Heat **'20mm Floating System'** is used for solid existing floors.

Installation

1. The sub floor below needs to be flat and cleared of any debris.
2. 20/25mm Foil faced floor panels are to be laid.
3. Beneath Heat pipework is then laid in accordance with the Beneath Heat design provided. Pipe is secured by being pushed into the grooves provided.
4. Beneath Heat pipework is connected to the manifold, filled & tested in preparation for T&G or plywood to be laid.
5. Interlocking laminate or hardwood can be directly laid onto the insulation board. If tiling / carpeting a separation layer needs to be applied (18mm T&G OR ply).

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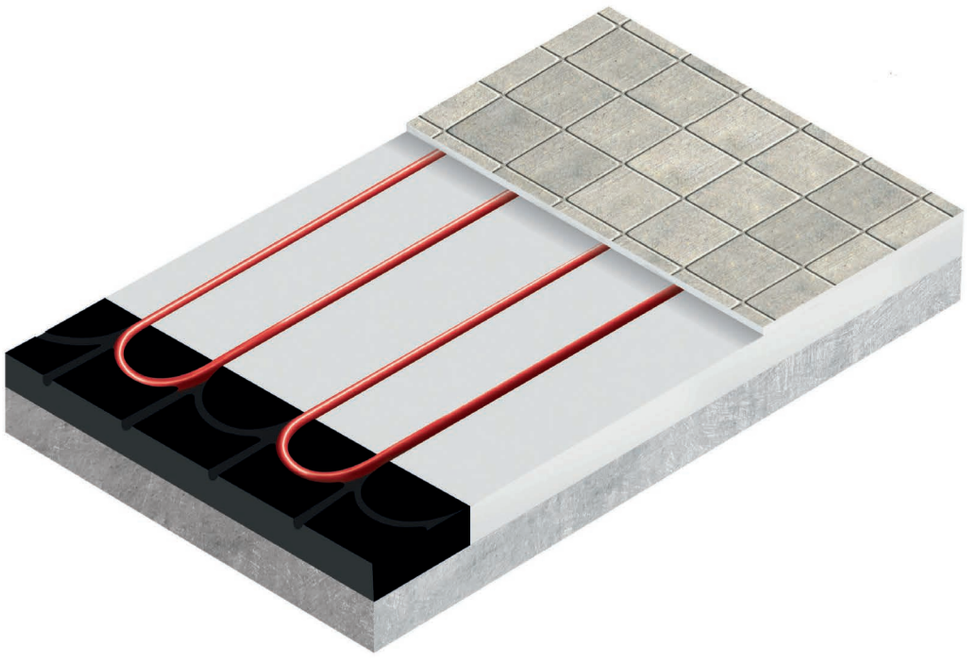
15mm Slim Board

Typical Floor Build up



System Information

The Beneath Heat **'15mm Slim Board System'** has been developed where screed is not an option.

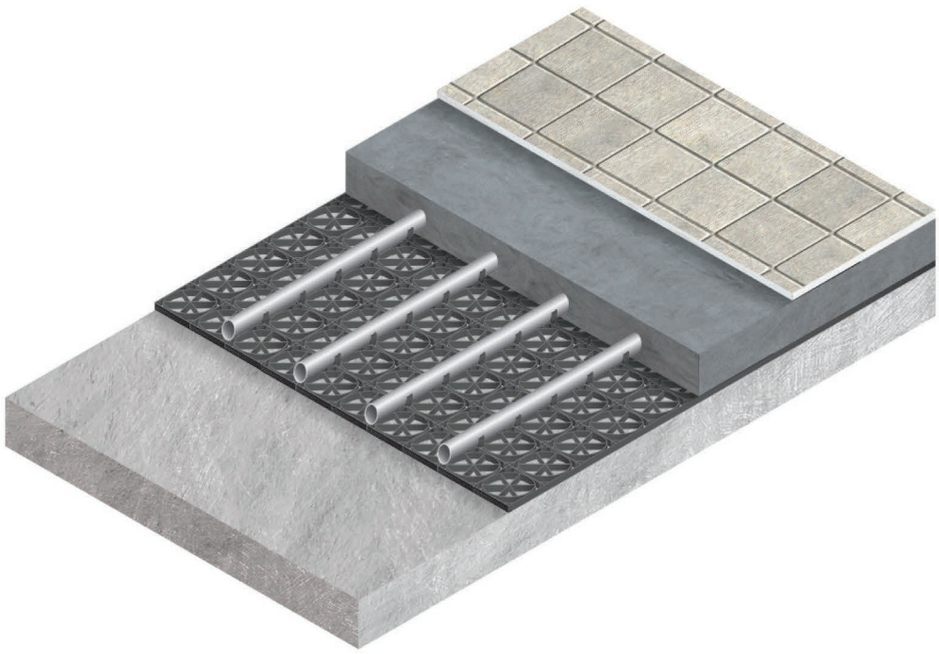
The Beneath Heat **'15mm Slim Board System'** can be used for solid existing floors

Installation

1. The sub floor needs to be flat and cleared of any debris.
2. The 15mm Slim Board & Slim Board return panels need to be laid as per the design provided.
3. Beneath Heat pipework can then be laid into the panel in accordance with the design provided.
4. Beneath Heat pipework is connected to the manifold, filled & tested.
5. Tiles can be laid directly onto the panel using a flexible adhesive.

15mm Slim Clip System

Typical Floor Build up



System Information

The Beneath Heat **'15mm Slim Clip System'** has been developed to be used where screeding is not an option.

The Beneath Heat **'15mm Slim Clip System'** is used for solid existing floors.

Installation

1. The sub floor below needs to be flat and cleared of any debris.
2. 12mm Slim Clip Mesh is to be screwed to the sub floor.
3. Beneath Heat pipework is then laid in accordance with the Beneath Heat design provided. Pipe is secured by being pushed into the grooves provided.
4. Beneath Heat pipework is connected to the manifold, filled & tested.
5. 15mm Self leveller compound is to be laid in preparation for floor covering.

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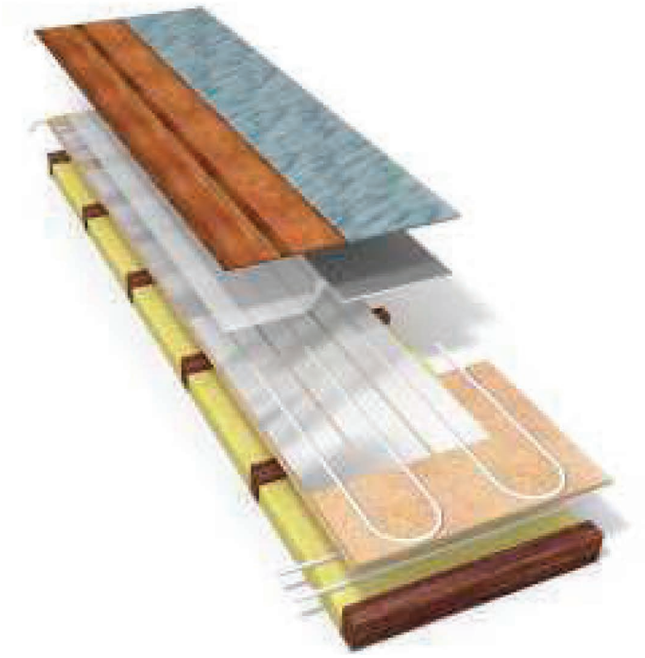
22mm Grooved T & G Chipboard System

Typical Floor Build up



System Information

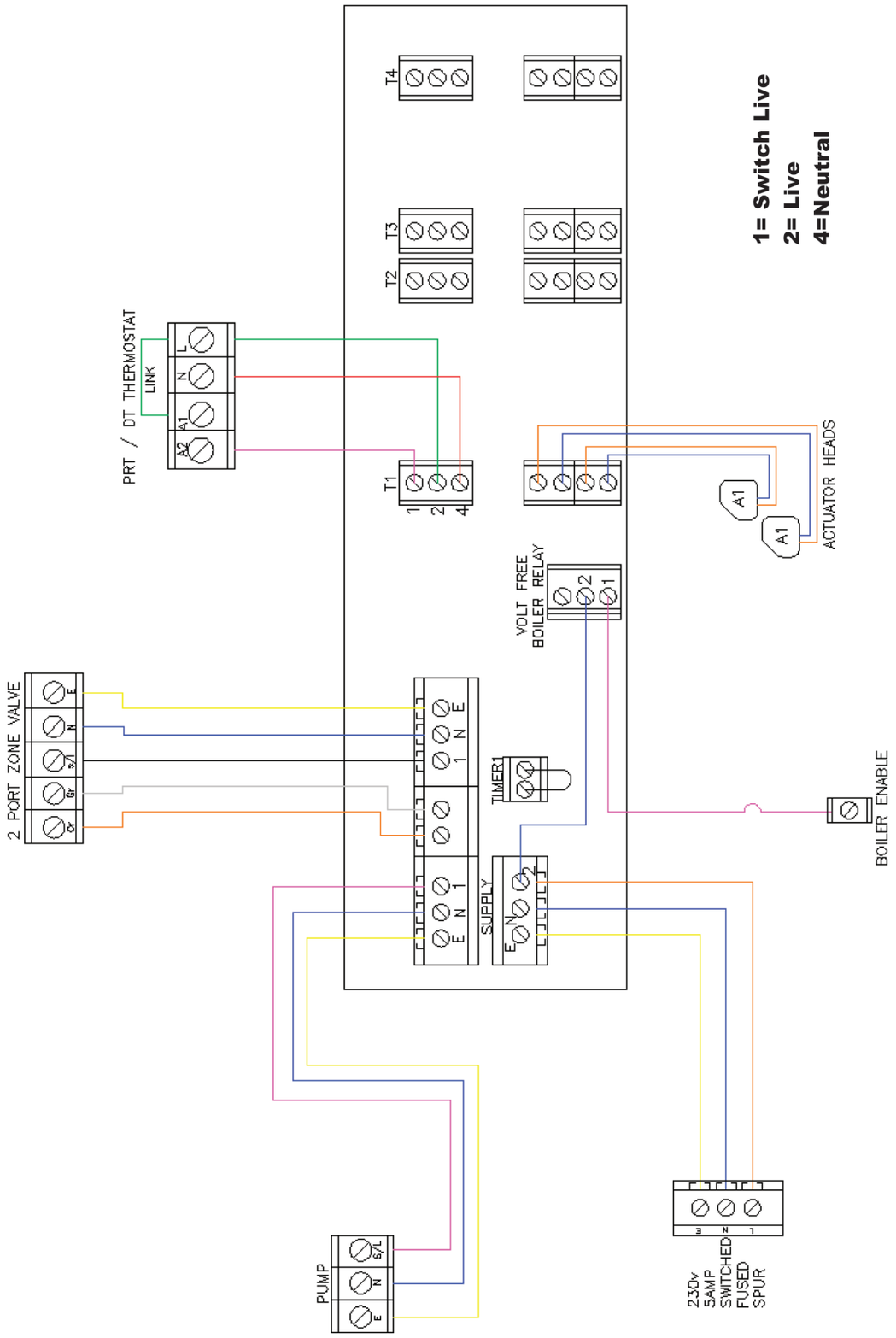
The Beneath Heat **'22mm Grooved T & G Chipboard System'** has been developed to be used on top of existing solid joists or eco joists.

Installation

1. Insulation is to be laid between the joists.
2. The 22mm grooved boards are the be laid & screwed on top of the joists.
3. Beneath Heat pipework is then laid in accordance with the Beneath Heat design provided. Pipe is secured by being pushed into the grooves provided.
4. Beneath Heat pipework is connected to the manifold, filled & tested.
5. Interlocking laminate or hardwood can be directly laid onto the insulation board. If tiling / carpeting a separation layer needs to be applied (Tile back board OR ply).

Wiring - UFH-ZONE-W

UFH-ZONE-W Wiring Arrangement



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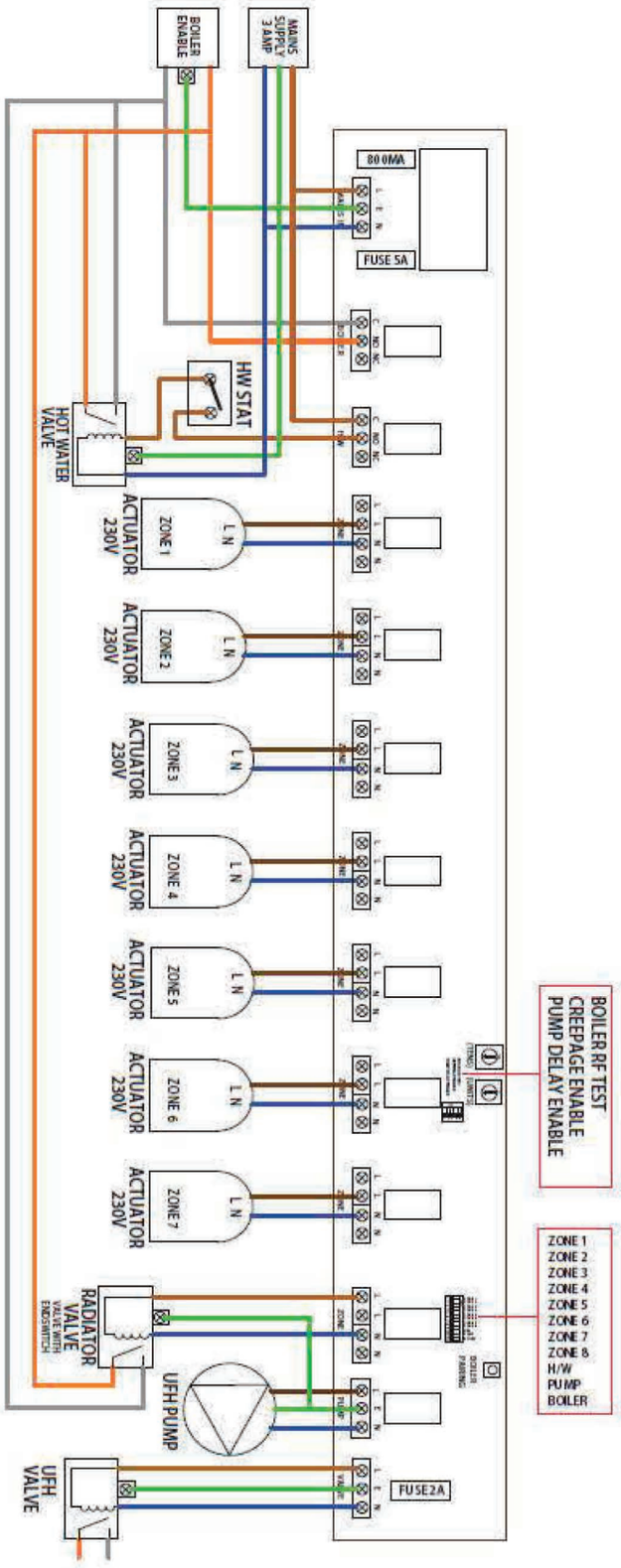
UH8-RF Wiring Arrangement



Press Fittings

Technical Information

Multilayer Pipe Information

The Blansol system of pipe consists of 5 layers making the pipe a multilayer composite pipe used in conjunction with press fittings for a fast & secure connection.

The Blansol system of multilayer pipe & press fittings can be used for drinking water and heating installations as the system is WRAS approved. The 5-layer system has all the benefits copper & plastics plumbing systems

Linear dilation	0,025 mm / m · K
Thermal conductivity	R=0,4 W / m · K
Maximum work temperature	95°C
Punctual maximum temperature	110°C
Maximum work pressure	10 bar to 95°C
Thickness	1,47 gr/cm3
Permeability to the oxygen	0 mg/l*d

Layer 1: PEX
Layer 2: Adhesive
Layer 3: Aluminium
Layer 4: Adhesive
Layer 5: PEX

Pipe Compatibility

Blansol systems are compatible with Multipipe, Multitubo, Uponor & Maincor press fittings.

Jaw Profile	Pipe Diameter						
	16	20	25	32	40	50	63
U	•	•	•		•	•	•
UP	•	•	•		•	•	•
RF	•	•	•	•			
H	•	•	•	•			
TH	•	•	•	•			

Installation Information

1. Cut the pipe to the desired length
2. Calibrate the pipe to remove any sharp edges & to create a chamfer on the inside of the pipe
3. Insert the fitting into the pipe pushing all the way in to the body of the fitting – making sure pipe is visible through the viewing hole
4. Open the press jaw & position around the fitting and press

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Technical Information

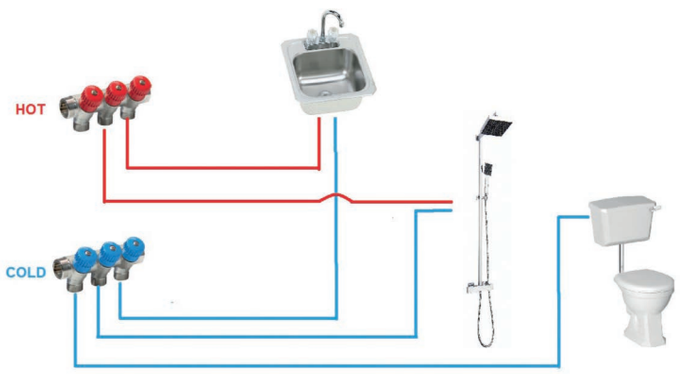
Point To Point Plumbing

Mostly utilised in Europe for decades, point to point plumbing offers many benefits to the installer & the installation itself. The installer can benefit from a cost saving as no fittings are used in the floors, walls or ceilings, this in turn also gives peace of mind having no joists in concealed areas. Point to point plumbing can be used for sanitary or heating requirements your project may have.

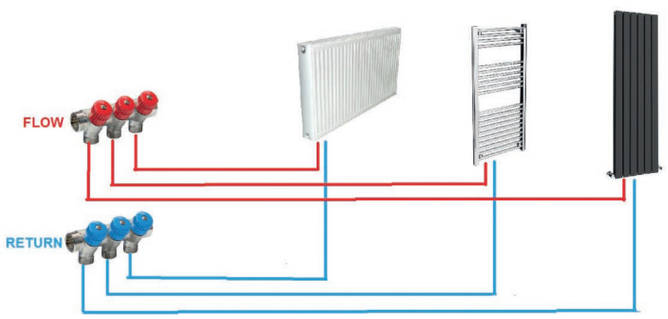
Key Benefits

- Pipe can be laid in screed, joist spaces, ceilings & walls
- Reduction in fittings usage
- Speed of installation
- Individual isolation of application

Hot & Cold Point To Point Plumbing



Heating Point To Point Plumbing



Coils

CODE	DESCRIPTION	QTY
MULPTB1620100	100m 16mm Pex/Al/Pex MLCP	1
MULPTB2020100	100m 20mm Pex/Al/Pex MLCP	1
MULPTB2525050	50m 25mm Pex/Al/Pex MLCP	1
MULPTB3230050	50m 32mm Pex/Al/Pex MLCP	1

Bars

CODE	DESCRIPTION	QTY
MULTB16200025	2.5m Length 16mm Pex/Al/Pex MLCP	1
MULTB200025	2.5m Length 20mm Pex/Al/Pex MLCP	1
MULTB2525025	2.5m Length 25mm Pex/Al/Pex MLCP	1
MULTB320025	2.5m Length 32mm Pex/Al/Pex MLCP	1

Insulated Coils

CODE	DESCRIPTION	QTY
MULPTAA162100	100m 16mm Pex/Al/Pex Insulated (Blue)	1
MULPTAA2020100	100m 20mm Pex/Al/Pex Insulated (Blue)	1
MULPTAA252550	50m 25mm Pex/Al/Pex Insulated (Blue)	1
MULPTAR162100	100m 16mm Pex/Al/Pex Insulated (Red)	1
MULPTAR2020100	100m 20mm Pex/Al/Pex Insulated (Red)	1
MULPTAR252550	50m 25mm Pex/Al/Pex Insulated (Red)	1

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Coupling

CODE	DESCRIPTION	QTY
MULPTHKMU16	Press 16 x 16 Coupling	1
MULPTHKMU2X	Press 20 x 20 Coupling	1
MULPTHKMU25	Press 25 x 25 Coupling	1
MULPTHKMU32	Press 32 x 32 Coupling	1

Reducer

CODE	DESCRIPTION	QTY
MULPTHKMR2X16	Press 20 x 16 Reducer	1
MULPTHKMR2516	Press 25 x 16 Reducer	1
MULPTHKMR252X	Press 25 x 20 Reducer	1
MULPTHKMR3225	Press 32 x 25 Reducer	1

Elbow

CODE	DESCRIPTION	QTY
MULPTHKC16	Press 16 x 16 Elbow	1
MULPTHKC2X	Press 20 x 20 Elbow	1
MULPTHKC25	Press 25 x 25 Elbow	1
MULPTHKC32	Press 32 x 32 Elbow	1

Male Iron

CODE	DESCRIPTION	QTY
MULPTHKRC1612	Press 16 x $^{1}/_{2}$" Male Iron	1
MULPTHKRC1634	Press 16 x $^{3}/_{4}$" Male Iron	1
MULPTHKRC2X12	Press 20 x $^{1}/_{2}$" Male Iron	1
MULPTHKRC2534	Press 25 x $^{3}/_{4}$" Male Iron	1
MULPTHKRC251	Press 25 x 1" Male Iron	1
MULPTHKRC321	Press 32 x 1" Male Iron	1

Female Iron

CODE	DESCRIPTION	QTY
MULPTHKRH1612	Press 16 x $^1/_2$" Female Iron	1
MULPTHKRH2X12	Press 20 x $^1/_2$" Female Iron	1
MULPTHKRH2X34	Press 20 x $^3/_4$" Female Iron	1
MULPTHKRH2534	Press 25 x $^3/_4$" Female Iron	1
MULPTHKRH251	Press 25 x 1" Female Iron	1
MULPTHKRH321	Press 32 x 1" Female Iron	1

Equal Tee

CODE	DESCRIPTION	QTY
MULPTHKT16	Press 16 x 16 x 16 Tee	1
MULPTHKT2X	Press 20 x 20 x 20 Tee	1
MULPTHKT25	Press 25 x 25 x 25 Tee	1
MULPTHKT32	Press 32 x 32 x 32 Tee	1

Reducing Centre Tee

CODE	DESCRIPTION	QTY
MULPTHKT2X16X	Press 20 x 16 x 20 Reducing Centre Tee	1
MULPTHKT25165	Press 25 x 16 x 25 Reducing Centre Tee	1
MULPTHKT252X5	Press 25 x 20 x 25 Reducing Centre Tee	1
MULPTHKT32162	Press 32 x 16 x 32 Reducing Centre Tee	1
MULPTHKT322X2	Press 32 x 20 x 32 Reducing Centre Tee	1
MULPTHKT32252	Press 32 x 25 x 32 Reducing Centre Tee	1

Reducing Tee

CODE	DESCRIPTION	QTY
MULPTHKT2X166	Press 20 x 16 x 16 Reducing Tee	1
MULPTHKT2X2X6	Press 20 x 20 x 16 Reducing Tee	1
MULPALKT2516X	Press 25 x 16 x 20 Reducing Tee	1
MULPTHKT252XX	Press 25 x 20 x 20 Reducing Tee	1
MULPTHKT32255	Press 32 x 25 x 25 Reducing Tee	1

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Female Centre Tee

CODE	DESCRIPTION	QTY
MULPTHKSH1612	Press 16 x 1/2" x 16 Female Centre Tee	1
MULPTHKSH2X12	Press 20 x 1/2" x 20 Female Centre Tee	1
MULPALKSH2X34	Press 20 x 3/4" x 20 Female Centre Tee	1
MULPTHKSH2534	Press 25 x 3/4" x 25 Female Centre Tee	1
MULPTHKSH3234	Press 32 x 3/4" x 32 Female Centre Tee	1

Increased Centre Tee

CODE	DESCRIPTION	QTY
MULPTHKT162X6	Press 16 x 20 x 16 Increased Centre Tee	1

Bent Male Iron

CODE	DESCRIPTION	QTY
MULPTHKCR1612	Press 16 x 1/2" Bent Male Iron	1
MULPTHKCR2X12	Press 20 x 1/2" Bent Male Iron	1
MULPTHKCR2X34	Press 20 x 3/4" Bent Male Iron	1
MULTHKCR2534	Press 25 x 3/4" Bent Male Iron	1

Bent Female Iron

CODE	DESCRIPTION	QTY
MULPTHKTC1612	Press 16 x 1/2" Bent Female Iron	1
MULPTHKTC2X12	Press 20 x 1/2" Bent Female Iron	1
MULPTHKTC2X34	Press 20 x 3/4" Bent Female Iron	1
MULPTHKTC2534	Press 25 x 3/4" Bent Female Iron	1
MULPALKTC321	Press 32 x 1" Bent Female Iron	1

Female Back Plate Elbow

	CODE	DESCRIPTION	QTY
	MULPTHKCBF162	Press 16 x 1/2" Female Back Plate Iron	1
	MULPTHKCBF2X2	Press 20 x 1/2" Female Back Plate Iron	1
	MULPTHKCBF2X4	Press 20 x 3/4" Female Back Plate Iron	1
	MULPTHKCBF254	Press 25 x 3/4" Female Back Plate Iron	1

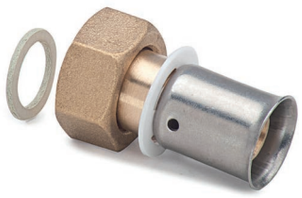
Radiator Feed

	CODE	DESCRIPTION	QTY
	87.45.160	Press 16 x 15mm Bent Chrome Radiator Feed	1

Press To Copper

	CODE	DESCRIPTION	QTY
	MULPTHACC165	Press 16 x 15 Compression / Push Tail	1
	MULPALACC252	Press 25 x 22 Compression / Push Tail	1

Female Swivel

	CODE	DESCRIPTION	QTY
	MULPTHKRM1612	Press 16 x 1/2" Female Swivel Iron	1
	MULPTHKRM2X34	Press 20 x 3/4" Female Swivel Iron	1

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Sanitary Manifolds (Red)

CODE	DESCRIPTION	QTY
88.20.051	2 Port Sanitary Manifold $^{3}/_{4}$" x $^{1}/_{2}$"	1
88.20.056	3 Port Sanitary Manifold $^{3}/_{4}$" x $^{1}/_{2}$"	1
88.20.061	4 Port Sanitary Manifold $^{3}/_{4}$" x $^{1}/_{2}$"	1

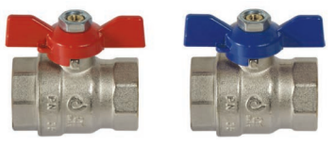
Sanitary Manifolds (Blue)

CODE	DESCRIPTION	QTY
88.20.052	2 Port Sanitary Manifold $^{3}/_{4}$" x $^{1}/_{2}$"	1
88.20.057	3 Port Sanitary Manifold $^{3}/_{4}$" x $^{1}/_{2}$"	1
88.20.062	4 Port Sanitary Manifold $^{3}/_{4}$" x $^{1}/_{2}$"	1

Pipe Adaptors

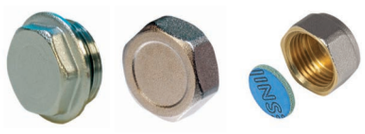
CODE	DESCRIPTION	QTY
88.20.576	16mm $^{1}/_{2}$" Pipe Adaptor	1
88.03.136	20 x $^{3}/_{4}$" Pipe Adaptor	1

Ball Valves



CODE	DESCRIPTION	QTY
41.31.395	Sanitary Manifold Ball Valve ¾" (Red) Female	1
41.31.396	Sanitary Manifold Ball Valve ¾" (Blue) Female	1

Connections



CODE	DESCRIPTION	QTY
80.20.562	Sanitary Manifold End Plugs $^{3}/_{4}$"	1
88.20.566	Sanitary Manifold End Caps $^{3}/_{4}$"	1
88.20.558	Sanitary Manifold Port Caps $^{1}/_{2}$"	1

Sanitary Manifold Bracket

CODE	DESCRIPTION	QTY
MANIBRACK	Sanitary Manifold Bracket	1

REMS Mini Press Tool

	CODE	DESCRIPTION	QTY
	578X02	REMS Mini Press Tool 16 - 32mm	1

REMS Press Tool Kit

	CODE	DESCRIPTION	QTY
	REMSCOMP	REMS Press Tool, 16-20-25-32mm Jaws, 2no Battery's & Charger	

REMS Press Jaws

	CODE	DESCRIPTION	QTY
	578352	REMS 16mm Jaw	
	578358	REMS 20mm Jaw	
	578360	REMS 25mm Jaw	
	578364	REMS 32mm Jaw	

Ratchet Pipe Cutter

	CODE	DESCRIPTION	QTY
	PS	Ratchet Cutter Up To 35mm	

Pipe Calibrator

	CODE	DESCRIPTION	QTY
	IXPRHTCAL1632	Pipe Calibration Tool 16 – 32mm	1

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UFH Warranty

Beneath Heat Ltd guarantees (to the original purchaser/customer) that pipe sold by it are free of defects in materials or manufacture under normal conditions of use for the period 15 years and in case of electrical and mechanical products for 2 years from the date of purchase, with pump packs & blend valves being 1 year.

This guarantee only applies to the products stored, installed, tested and operated in accordance with the fitting instructions issued by Beneath Heat Ltd and valid at the time of product installation.

Where a claim is made during the guarantee period and products are proven to be defective in materials and / or manufacture at the time of delivery, Beneath Heat Ltd will supply replacement products free of charge.

For the above to be valid the end user will need to complete a warranty application form which is available upon request from the office.

Warranty breakdown

Pipe - 15 Years
Controls - 2 Years
Pump & Mixing Valves - 1 Year
Manifolds - 2 Years

Insurances

Professional Indemnity - £2,000,000
Product Liability - £2,000,000
Pipe Manufacture Product Insurance - 1,500,000 EURO

GUARANTEE

GUARANTEE CERTIFICATE

INDUSTRIAL BLANSOL, S.A. with a civil liability insurance policy for the product guarantees up to

1,5 MILLION EUROS
(1,500.000 €)

for a period of: **15 YEARS**

for any damages caused by the use of BARBI SYSTEMS in any country in the world except the U.S.A. and Canada, due to:

- Product design defects.
- Manufacturing defects.

The present GUARANTEE WILL NOT BE VALID In the following cases:

- Non-compliance with the warnings indicated in our technical documentation.
- If mixed with pipes or fittings not supplied by our company.

Jorge Santiago Bilbao
Commercial Manager
INDUSTRIAL BLANSOL

Industrial BLANSOL SISTEMA BARBI
Polig. Ind. Ambrosero
3979 Barcena de Cicero
Cantabria (Spain)
Tel. 34 942 205 200
Fax.34 942 205 201
e-mail: general@barbi.es
www.blansol.es

INSTRUCTIONS IN CASE OF DAMAGE
In the case of damage caused by the system, the user must inform **INDUSTRIAL BLANSOL, S.A.** by registered mail about the type of damage, enclosing a copy of the guarantee certificate.

Industrial BLANSOL SISTEMA BARBI
Polig. Ind. Ambrosero
39791 Barcena de Cicero
Cantabria (Spain)
Tel. 34 942 205 200
Fax.34 942 205 201
e-mail: general@barbi.es
www.blansol.es

GUARANTEE CERTIFICATE N°

WORK:

DATE :

NAME OF THE INSTALLER:

INSTALLER ADRESS:

DISTRIBUTION WAREHOUSE: STAMP

- This guarantee certificate will only be valid if stamped, dated and signed by the distributor.
- To validate this BARBI guarantee, this certificate must be sent to INDUSTRIAL BLANSOL, S.A. within 45 days after installation of the product.

WRAS APPROVED PRODUCT

CERTIFICATION MARK

This certifies that

INDUSTRIAL BLANSOL S.A (BARCELONA)

has had the undermentioned product examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations and Scottish Water Byelaws.

'MULTIPEX' & 'IXPRESS2' RANGE OF PRESSFIT OR PUSHFIT FITTINGS WITH BRASS BODIES FOR USE WITH 'MULTIPEX' PEX/AL/PEX PIPE

The certificate by itself is not evidence of a valid WRAS Approval. Confirmation of the current status of an approval must be obtained from the WRAS Directory (www.wras.co.uk/directory)

The product so mentioned will be valid until the end of:

October 2022

1710323

Certificate No.

J Furnival

Secretary

K. Hussey

Chairman, Product Assessment Group

October 2014

Beneath Heat

UNDERFLOOR HEATING SYSTEMS

Design | Supply | Support

Beneath Heat Ltd
Unit 3, Dunne's Farm, Laindon Road, Horndon on the Hill, Essex SS17 8QB
Tel: 01268 543475 Fax: 01233 221616 Email: info@beneathheat.co.uk
www.beneathheat.co.uk

REMS GRUNDFOS SASWELL Industrial Blansol sa WRAS APPROVED PRODUCT