

# APPENDIX (D)

## Maurice Bird

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**From:** Puiu, Diana (External) <diana.puiu@uponor.com> on behalf of Puiu, Diana (External)  
**Sent:** 10 December 2020 11:36  
**To:** 'Maurice Bird'  
**Cc:** Varndell, Angela  
**Subject:** RE: Saint Mary's Park Pavilion ASHP and underfloor heating  
**Attachments:** Saint Mary's Park Pavilion.png; New Vario S Manifold - FLUVIA15 - Mechanical Schematic.pdf; Floor - Screed with Clamp Track 16mm.pdf

Hi,

Please see the attached informations about the Screed & Clip System and Vario S manifold.

Also I attached a picture of your project, which shows you how many loops are per room. The black points represent the loops.

Unfortunately we are not able to provide the line drawing until you place the order.

If you have any questions please let me know.

Kind regards,

Diana

# uponor

Diana Puiu  
Design & Estimation Engineer  
UK & Ireland  
Building Solutions - Europe

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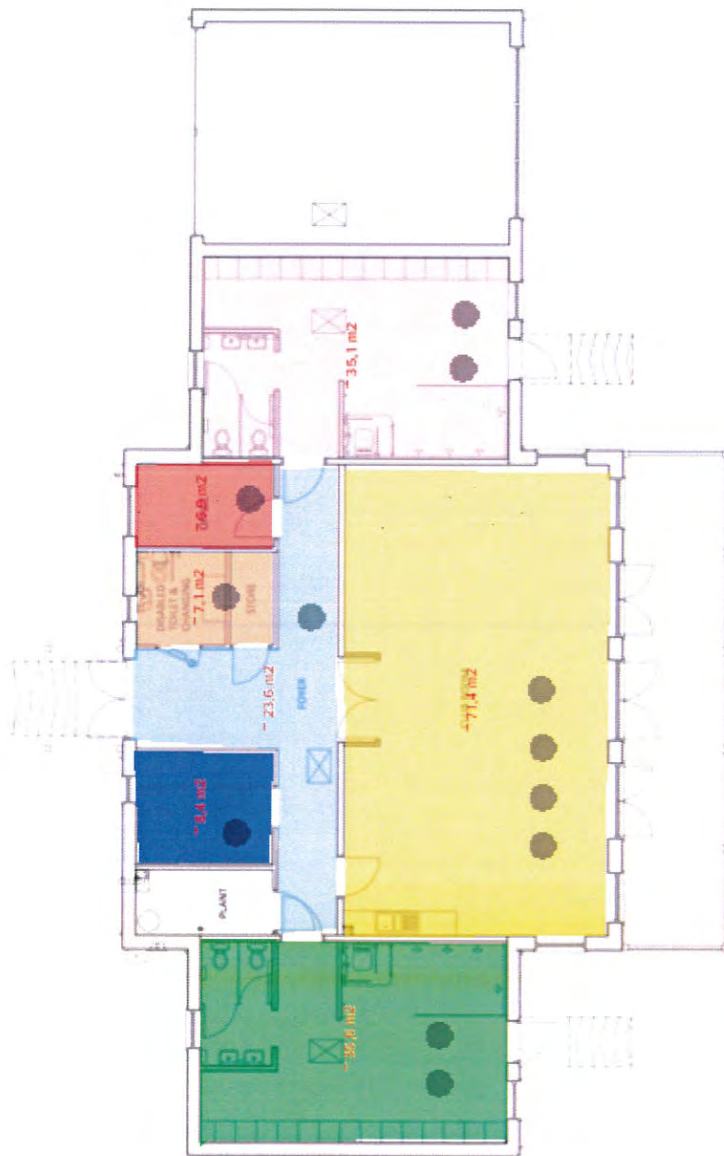


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Introducing the new  
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Uponor Uni Pipe PLUS    Uponor S-Press PLUS PPSU



PROPOSED GROUND FLOOR PLAN  
SCALE 1:100



PROJECT NO.	10/10/2018	DATE	10/10/2018
PROJECT NAME	CHelsea	CLIENT	CHelsea
ADDRESS	10/10/2018	ARCHITECT	CHelsea
SCALE	1:100	DATE	10/10/2018
PROJECT NO.	10/10/2018	DATE	10/10/2018

**CHelsea**  
ARCHITECTS

10/10/2018

10/10/2018

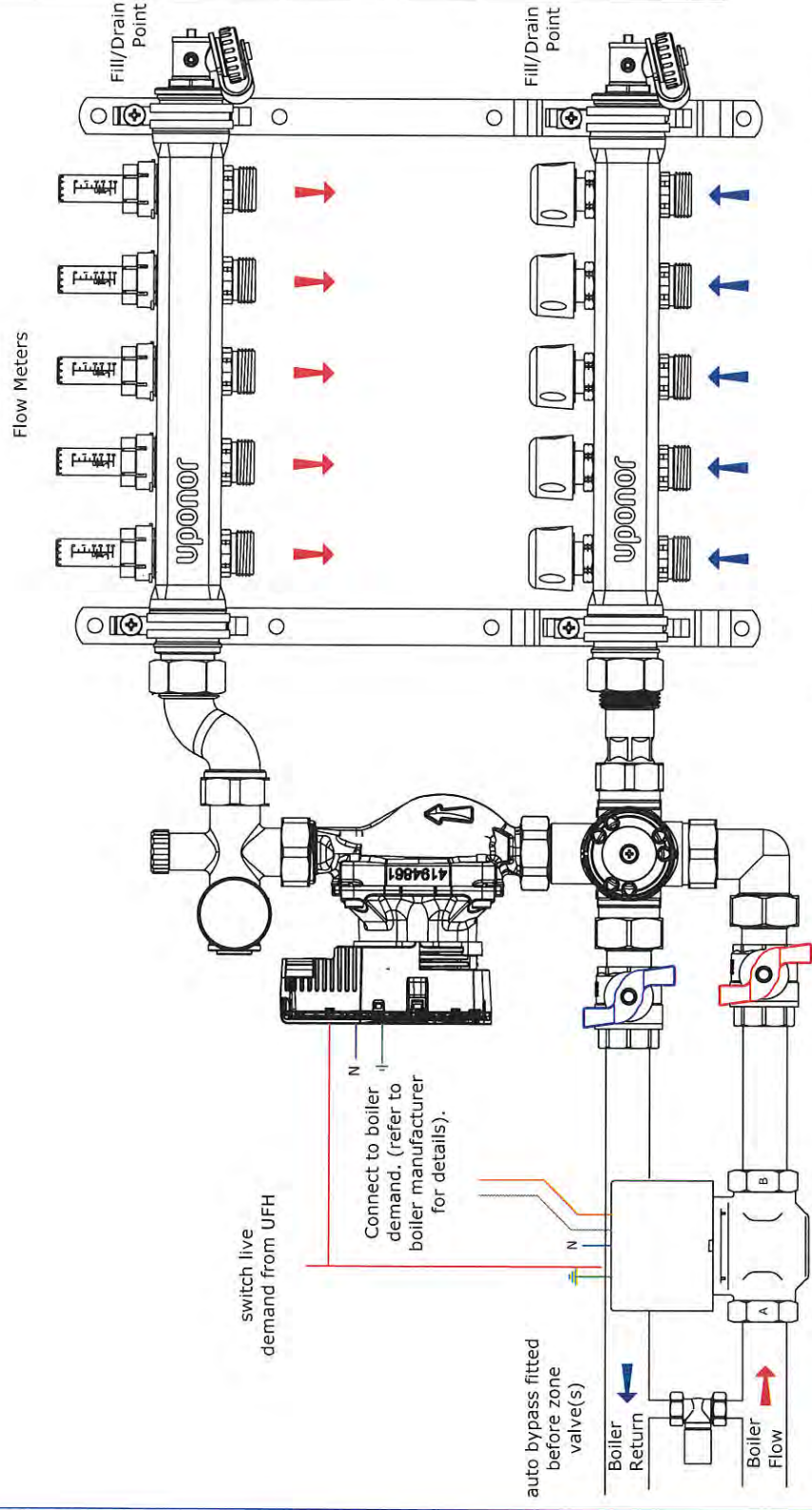
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## Mechanical Schematic

### 4-way Water Temperature Control

Ref: FLU-1.0A



Manifold	Length
2 Port	210mm
3 Port	260mm
4 Port	310mm
5 Port	360mm
6 Port	410mm
7 Port	460mm
8 Port	510mm
9 Port	560mm
10 Port	610mm
11 Port	660mm
12 Port	710mm

The height of the manifold is 365mm and needs to be mounted at least 300mm from the floor.

- Notes,
- 1) A bypass is recommended on the primary circuit.
  - 2) The drawing excludes regulating valves for clarity.
  - 3) All items to be installed in accordance with manufacturer's instructions and current best practices.

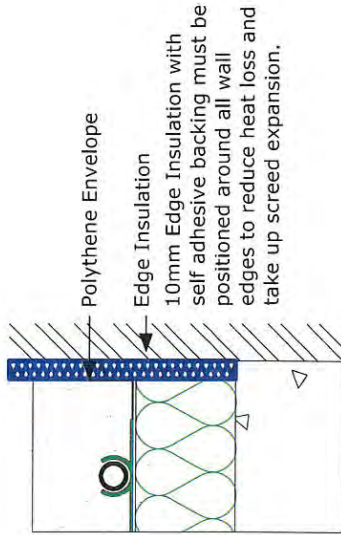
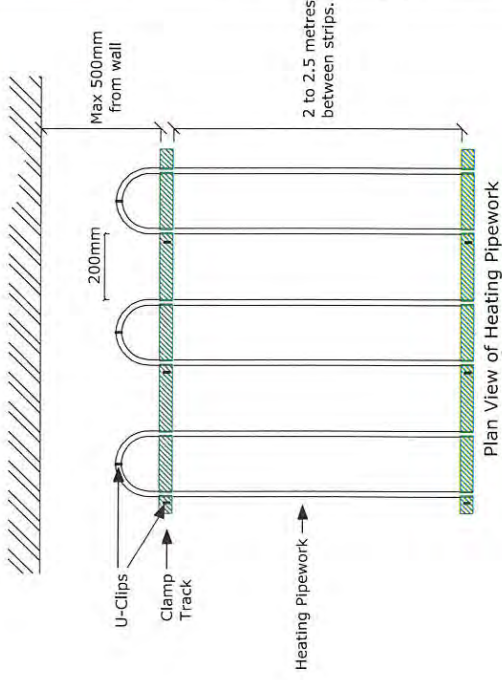
Uponor reserve the right to alter specifications and operating parameters for all their systems at any time as part of their policy of continuous product development.

195mm Max.  
 Manifold length - see table

# Uponor

## Floor Construction Screed with Clamp Track - 16mm Ref: I12-F

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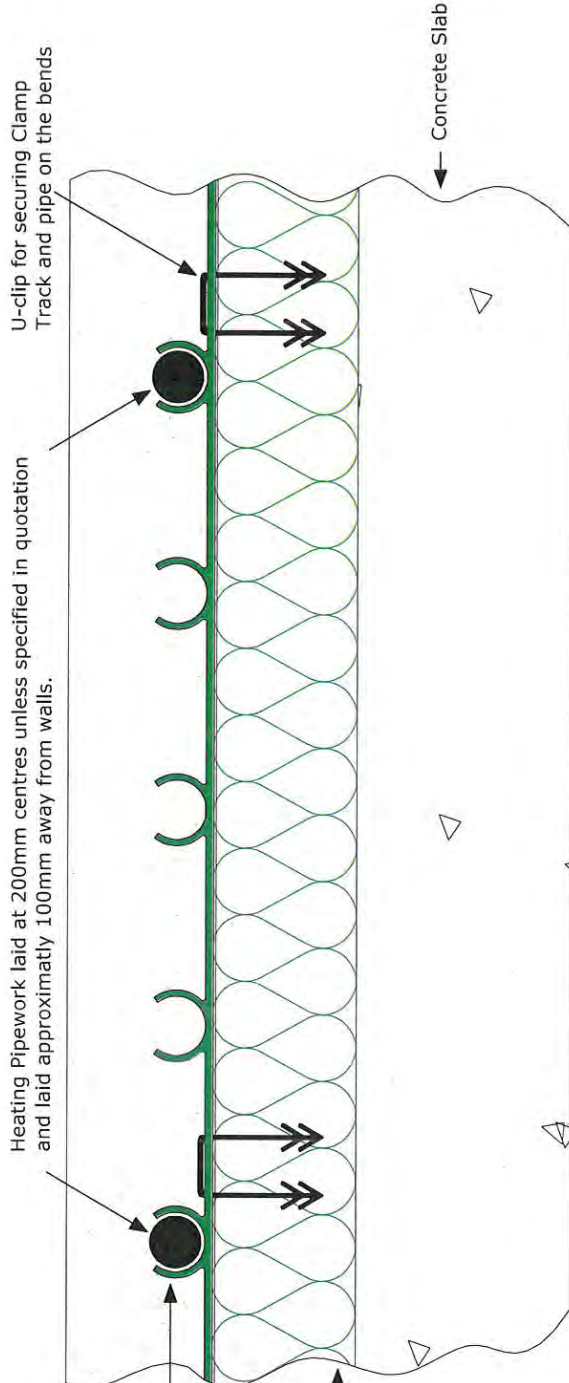


The U-clips are used to fasten Clamp Track or pipework to insulation. The clips require a minimum of 25mm insulation depth to be fitted into.

### Floor Make-up

- 65-75mm 4:1 Sand/Cement Screed. Additives are not required although if used should not be detrimental to the pipe.
- 1m Length of Clamp Track positioned 1m apart with double sided tape for locating. Once Clip Rail is laid in position it is to be secured with pipe fixing clips.
- Protective Layer. It is essential to prevent screed from slipping between the insulation board joints. This can be achieved by taping the joints of Uponor insulation or alternatively by using a foil or polythene film.
- Insulation to comply with Part L of the Building Regulations. If insulation is already fitted below the concrete slab a recommended minimum insulation thermal resistance of  $1.25\text{m}^2\text{k/W}$  should additionally be installed above the slab, equivalent to our 50mm Rolltec insulation. On intermediate floors with heated rooms below an insulation resistance of  $0.75\text{m}^2\text{k/W}$  is required to comply with BS EN 1264.

Heating Pipework laid at 200mm centres unless specified in quotation and laid approximately 100mm away from walls.



## Maurice Bird

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**From:** Puiu, Diana (External) <diana.puiu@uponor.com> on behalf of Puiu, Diana (External)  
**Sent:** 09 December 2020 10:05  
**To:** 'Maurice Bird'  
**Cc:** Varndell, Angela  
**Subject:** RE: Saint Mary's Park Pavilion ASHP and underfloor heating  
**Attachments:** 235710\_St\_Mary\_s\_Park\_Pavilion.pdf

**Project Name : Saint Mary's Park Pavilion**  
**Project Number : 315963**  
**Quotation Number : 235710**

Thank you for your valued enquiry. Please see attached your quotation.

If you require any further information or assistance we will be more than happy to help.  
Please contact:

[-domesticprojects@uponor.com](mailto:-domesticprojects@uponor.com) for quotations and designs  
[-customerservice.uk@uponor.com](mailto:-customerservice.uk@uponor.com) 01923 927 000 for pricing and stock availability.

To ensure a quick turnaround please make sure you provide the following details when requesting a quotation;

- **What type of system you require? e.g Screed, Floating Floor etc**
- **What is your heat source?**
- **Where would your preferred manifold location be?**
- **Which variety of controls would you require? Wired / Wireless (Wireless : Remote Access Optional)**
- **Please provide .pdf scaled drawings, or room dimensions**
- **How would you like your zones mapped out? Default ; Halls linked to Bathrooms/WC, Bedrooms linked with En-suites, Open plan areas such as Kitchen / Diners will be linked on the same thermostat.**
- **What areas do not require heating?**

Please include both project or quote references in any correspondence. The quote is valid for a period of 30 days.

Thank you.

The Domestic Projects Team

# uponor

**Domestic Projects**  
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Building Solutions - Europe

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## Quotation

Recipient	Salesperson	Handled By	Reference	Project nr	Date
BSc FCIBSE	Angela Varndell	Diana Puiu		315963	8.12.2020
Maurice Bird					
190C Wendover Road	Project			Quotation nr	Valid until
HP22 5TG Weston Turville	<b>St Mary's Park Pavilion</b>			235710-v1	7.1.2021

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Thank you for your recent enquiry for Uponor Systems, we are pleased to submit our proposal for the above project.

Overleaf you will find a breakdown of the materials included within our quotation with the respective prices. If you have asked for options on price, these will also be shown here.

All prices shown in this quotation are List, subject to discount and exclusive of VAT.

If there is anything further that I can do for you or if you have any other queries on the quote then please don't hesitate to contact our design & estimation team on the number below.

Please include both project and quote references in any correspondence.

Kind Regards,

Design & Estimating

Tel: 01923 927000

Email: [projects.uk@uponor.com](mailto:projects.uk@uponor.com)

For Further information on pricing and product availability please contact your Territory Sales Manager.

**Angela Varndell - Territory Sales Manager**

Mob: 07748 637450

Email: [angela.varndell@uponor.com](mailto:angela.varndell@uponor.com)

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## Quotation

Recipient  
 BSc FCIBSE  
 Maurice Bird  
 190C Wendover Road  
 HP22 5TG Weston Turville

Salesperson / Handled By  
 Angela Varndell / Diana Puiu  
 Project  
**St Mary's Park Pavilion**

Reference  
 Project nr  
 Date  
 315963 / 8.12.2020  
 Quotation nr  
 Valid until  
 235710-v1 / 7.1.2021

## Item List, UFH DOM

### Screed & Clip System

Item No.	Item Description	Qty	Unit	Price/item	Gross
1062044	UPONOR COMFORT PIPE PLUS 16X2,0 120M	120	m	1.21	145.20
1062045	UPONOR COMFORT PIPE PLUS 16X2,0 240M	960	m	1.21	1161.60
1057441	UPONOR FLEX-X ADAPTER PLATED PEX 16X1,8/2,0-3/4"FT EURO	24	PCE	6.52	156.48
1000080	UPONOR MULTI PE EDGING STRIP WITH FOIL 150X10MM	250	m	1.14	285.00
1012864	UPONOR TECK CONDUIT 28/23 BLACK 50M	50	m	1.57	78.50
1086530	UPONOR TACKER PIPE CLIP LONG 55MM	3600	PCE	0.16	576.00
1086548	UPONOR VARIO S MANIFOLD FM 12X3/4 EURO	1	PCE	409.64	409.64
1086558	UPONOR VARIO BALL VALVE 3/4-G1	1	set	25.10	25.10
1087778	UPONOR VARIO ACTUATOR S 24V	12	set	29.39	352.68
<b>Screed &amp; Clip System</b>					<b>3190.20</b>

### Option 1 - Wired

Item No.	Item Description	Qty	Unit	Price/item	Gross
1093018	UPONOR SMATRIX BASE CONTROLLER PULSE X-245 BUS 6X UK	1	PCE	156.52	156.52
1093134	UPONOR SMATRIX BASE SLAVE MODULE PULSE M-242 BUS 6X	1	PCE	50.88	50.88
1093030	UPONOR SMATRIX PULSE COM R-208	1	PCE	339.51	339.51
1086976	UPONOR SMATRIX BASE THERMOSTAT D T-146 BUS RAL9016	7	PCE	49.15	344.05
<b>Option 1 - Wired</b>					<b>890.96</b>

### Option 2 - Wireless

Item No.	Item Description	Qty	Unit	Price/item	Gross
1093022	UPONOR SMATRIX WAVE CONTROLLER PULSE X-265 6X UK	1	PCE	242.26	242.26
1093133	UPONOR SMATRIX WAVE SLAVE MODULE PULSE M-262 6X	1	PCE	69.93	69.93
1093030	UPONOR SMATRIX PULSE COM R-208	1	PCE	339.51	339.51
1086982	UPONOR SMATRIX WAVE THERMOSTAT D T-166 RAL9016	7	PCE	67.39	471.73
<b>Option 2 - Wireless</b>					<b>1123.43</b>

### Subtotal

Screed & Clip System	3190.20
Option 1 - Wired	890.96
Option 2 - Wireless	1123.43

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## Quotation

<p>Recipient</p> <p><b>BSc FCIBSE</b></p> <p><b>Maurice Bird</b></p> <p>190C Wendover Road</p> <p>HP22 5TG Weston Turville</p>	<p>Salesperson</p> <p><b>Angela Varndell</b></p> <p>Handled By</p> <p><b>Diana Puiu</b></p> <p>Project</p> <p><b>St Mary's Park Pavilion</b></p>	<p>Reference</p>	<p>Project nr</p> <p><b>315963</b></p> <p>Quotation nr</p> <p><b>235710-v1</b></p>	<p>Date</p> <p><b>8.12.2020</b></p> <p>Valid until</p> <p><b>7.1.2021</b></p>
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Ground Floor - Total Heated Area 197 m<sup>2</sup> (Approx)

Screed & Clip System : PEX-a Pipe 16mm at 200mm Pitch

Heat source is ASHP so mixing has not been included on the manifolds

Smatrix Pulse Wired & Wireless System with Digital Thermostats - Features include Smart App Control, Alexa & Google AI Assistant Compatibility, & Remote Diagnostics.

12 Port Manifold Located in Plant room

Zone 1 - Club room - 4 loops

Zone 2 - Foyer - 1 loop

Zone 3 - Store / Disabled toilet - 1 loop

Zone 4 - Office - 1 loop

Zone 5 - Official changing & first aid - 1 loop

Zone 6 - Room on the left hand side - 2 loops

Zone 7 - Room on the right hand side - 2 loops

Screed and insulation are not included in this quotation.

Hydraulic Drawings may be requested only when placing your order.

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