

- 2. DETAILS OF ANY ALTERATION DURING INSTALLATION SHOULD BE NOTIFIED TO THE UNDERFLOOR HEATING DESIGNER FOR DRAWINGS TO BE PRODUCED SHOWING SYSTEM AS FITTED.
- 3. PRESSURE TESTING: A PRESSURE TEST OF A MINIMUM 3 BAR & MAXIMUM OF 6 BAR MUST BE APPLIED TO ALL THE UNDERFLOOOR HEATING PIPEWORK PRIOR TO & DURING FLOOR FIXING.

BEGIGITI / WWWEFERG					
EXTERNAL DESIGN	-3				
PARTY WALL OTH	NA				
ELEMENT	ELEMENT CONSTRUCTION				
EXTERNAL WALL	Solid	0.35			
INTERNAL WALL	Blk/PB	1.8			
PARTY WALL	NA	NA			
GARAGE WALL	NA	NA			
GROUND FLOOR	Ins solid	0.0 UFH			
INTERNAL FLOORS	NA	NA			
ROOF	Ins Pitch	0.20			
WINDOWS	D Glazed	2.8			
DOOR		2.0			
* INDICATES AN ASSUMED VALUE					

Room	Area	Design	Air	Heatloss	Total	Maximum	UFH Shortfall
		Temp.	Change	per m2	Heatloss	UFH Output	Against Heatloss
Library	18.4 m²	21 °C	1.5 1/h	62 W/m²	1134 Watt	1554 Watt	
Reception	14.9 m²	21 °C	1.5 1/h	57 W/m²	855 Watt	1033 Watt	
Hall	12.4 m²	18 °C	1.5 1/h	28 W/m²	349 Watt	901 Watt	
Bedroom 2	9 m²	18 °C	1.5 1/h	51 W/m²	460 Watt	810 Watt	
Dressing	1.9 m²	21 °C	1.5 1/h	80 W/m²	150 Watt	171 Watt	
Study A	6.9 m²	21 °C	1.5 1/h	84 W/m²	585 Watt	621 Watt	

Loop	Room	Pipe	Design	Install
No.		Centres	Length	Length
1	Study A	133 mm	69 m	
2	Hall	133 mm	67 m	
3	Reception	133 mm	107 m	
4	Library	133 mm	78 m	
5	Library	133 mm	77 m	
6	Bedroom 2	133 mm	63 m	
7	Dressing	133 mm	13 m	

SCREED CURING: A CURING PERIOD OF 21 DAYS FOR CEMENT SCREEDS, OR 7 DAYS FOR ANHYDRITE SCREEDS MUST ELAPSE BEFORE HEAT CAN BE APPLIED FOR PRECONDITIONING. CEMENT SCREEDS REQUIRE CURING UNDER POLYTHENE SHEET FOR THE FIRST 7 DAYS AFTER LAYING FOR OPTIMUM CONTRACTOR OF A DAYS OF THE TO THE OPTIMUM STRENGTH. HEAT SHALL BE APPLIED TO THE FLOOR SCREED INITIALLY, USING WARM WATER AT 25-30 degC ON THE FIRST DAY, AFTER WHICH THE FLOW TEMPERATURE CAN BE RAISED BY 5 degC PER DAY UNTIL THE DESIGN TEMPERATURE IS REACHED.

AMBIENT TEMPERATURES: THE UNDERFLOOR HEATING PIPEWORK SHOULD NOT BE LAID WITH AMBIENT TEMPERATURES OF BELOW 0 degC. SCREEDS SHOULD NOT BE LAID WITH AMBIENT TEMPERATURES OF BELOW 5 degC.

- CONDITIONED PREVIOUSLY TO A MOISTURE CONTENT OF APPROX 0.5% (Carbide Method) BY HEATING TO THE OPERATING CONDITION FOR 5 DAYS. IT IS NOT RECOMMENDED TO LAY TIMBER FINISHES WHOSE MOISTURE CONTENT EXCEEDS 8-9% (by volume), AS THE RISK OF WARPING AND SHRINKAGE DAMAGE WILL BECOME UNACCEPTABLE. THE TIMBER MANUFACTURERS INSTRUCTIONS MUST PREVAIL. THE OPERATIONAL SURFACE TEMPERATURE OF WOOD FLOORS SHOULD NOT EXCEED 27 degC AS THIS CARRIES A RISK OF SHRINKAGE, SUBSEQUENT COOLING MAY RESULT IN SWELLING AS EXTENDED SWELLING AS EXTRA MOISTURE BECOMES ABSORBED INTO THE WOOD FROM THE ATMOSPHERE.
- 7. CERAMIC TILES ON WOODEN FLOORS: CERAMIC TILES ON WOODEN FLOORS: BATHROOM RENOVATION PROJECTS CONTAINING CERAMIC FLOOR TILE ON TIMBER SUB-FLOORS REQUIRE EXTRA CARE. ALL FLOOR BOARD SUBSTRUCTURES REQUIRE TO BE REPLACED OR OVERLAID WITH LARGE SHEETS OF WPB PLYWOOD TO ENSURE MINIMUM FLEXURAL MOVEMENT & CERTIFICATION OF THE ON NO AT A CONTROL OF A CONTROL OF A SECURED USING ADHESIVE OR NAILS AT 150mm SPACING. CERAMIC TILE ADHESIVE AND GROUTING MUST CONTAIN A FLEXIBLE LATEX ADMIXTURE TO PERMIT MICRO-MOVEMENT OF TILES DURING NORMAL OPERATION OF THE FLOOR HEATING SYSTEM. FAILURE TO CARRY OUT THESE INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PIPEWORK, SCREED OR FLOOR COVERING.
- CARPET CARE SHOULD BE TAKEN TO ENSURE THAT THE COMBINED TOGG VALUE OF BOTH THE CARPET AND THE UNDERLAY DOES NOT EXCEED 2 TOGG.

MANIFOLD DIMENSIONS											
Temperature gauge I Actuators Pressure gauge 1 2 3 4 Height = 354mm											
4 port manifold shown for example purposes only											
Portage	2 ports	3 ports	4 ports	5 ports	6 ports	7 ports	8 ports	9 ports	10 ports	11 ports	12 ports
Length mm	347mm	397mm	447mm	497mm	547mm	597mm	647mm	697mm	747mm	797mm	847mm

W	IRING SCHEMATIC FOR UF
Note: Existing systems "S" plan type ((	using the "Y" plan should Contact your Heating Engir
Boiler E	nable    @@@@@
Mains Input	If the boiler requires a 240V signal, a live link can be placed between the Mains Input and Boiler Enable wires.
Ø ℚ Ø Ø L ≑ N BIOL MAINS ENAE (voltf	
DHW DHW STAT L ≑ N ∅ ℚ ∅ ∅ ⊘ ⊗	Z <u>ONE 1</u> Z <u>ONE 2</u> Z <u>ONE 3</u> L@①@ L@①@ L@①@ N ③@@ N ⑤@@ N ⑤@@
ACTUATOR HEAD 1	HEAD 2 HEAD 4 HEAD 3
	Zones with more



