


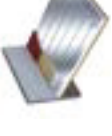




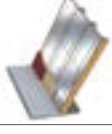






Guide to typical applications

Type of project	PREDOMINANTLY NEW BUILD OR RENOVATION WHERE FLOOR REQUIRES EXCAVATION			NEW BUILD OR RENOVATION WHERE FLOOR LEVEL PERMITS	
	IN THE FLOOR SOLID/SCREED			OVER THE FLOOR FLOATING	
Floor construction	RED FLOOR PANEL	CLIP RAIL	STAPLE SYSTEM	FLOATING FLOOR	
System					
Schematic					
General system description	Pipe laid on insulation prior to screeding and then sits within a 65mm screed			Pipe laid in 50mm thick pre-grooved insulation panels and then overlaid with structural chipboard floor deck	
Typical floor build height (including insulation)	115mm with 50mm insulation			68mm with 18mm chipboard floor deck	
Compatible heat source	Boilers and heat pumps			Boilers	
Floor coverings	Tiles and ceramics, vinyl, wood laminate, engineered wood, solid wood and carpet			Tiles and ceramics, vinyl, wood laminate, carpet	
Heat output at mean water temperature shown below	91W/m <sup>2</sup> at 100mm pipe spacing	76W/m <sup>2</sup> at 200mm pipe spacing	76W/m <sup>2</sup> at 200mm pipe spacing	65W/m <sup>2</sup>	
Mean water temperature	50°C	50°C	50°C	50°C	
System benefits - Installer	<ul style="list-style-type: none"> <li>• Simpler, more accurate installation</li> <li>• Precise pipe positioning</li> <li>• Ensures minimum pipe bending radius achieved</li> <li>• Quick and easy to use</li> <li>• Can use in any size room configurations and 100mm pipe centres</li> </ul>			<ul style="list-style-type: none"> <li>• Fit directly onto insulation</li> <li>• Minimum fixing materials needed</li> </ul>	
System benefits - Consumer	<ul style="list-style-type: none"> <li>• Ideal for ground floors, new build or extensions</li> <li>• Little if any change to floor construction</li> <li>• Can be used with low temperature heat sources</li> <li>• Use with all common floor coverings</li> <li>• Can reduce the amount of screed content needed</li> </ul>			<ul style="list-style-type: none"> <li>• Dry system, hence no screed and drying time</li> <li>• Suitable for projects where access to wet screed may be difficult</li> </ul>	
System benefits - Consumer	<ul style="list-style-type: none"> <li>• Standard suspended floor detail normally associated with intermediate floor systems</li> </ul>			<ul style="list-style-type: none"> <li>• System compatible with heat pumps or boilers to run at lower temperatures for optimum efficiency</li> </ul>	

Optimum performance system

NEW BUILD AND RENOVATION	SUSPENDED (TIMBER AND COMPOSITE JOISTS)		NEW BUILD/RENOVATION/EXISTING/SINGLE ROOM	
	BETWEEN JOISTS		OVER THE FLOOR	
DOUBLE HEAT SPREADER PLATES	OVERLAY™ LITE 15	MODULAR HEATING PANELS (MHP)	OVERLAY™ LITE	OVERLAY™ LITE 15
				
Fit from above grooved metal plate suspended between joists	Pipe fits into pre-formed grooves of panels/plates, which are cut to size and fitted in between joists	Pre-configured solution including pipes, supplied in sized panels which are fitted between joists from above or below	Pipe laid in pre-grooved gypsum fibre structural floor and floor covering	Pipe laid in pre-grooved insulation panels between structural floor and floor covering
Within suspended floor void	Within suspended floor void	Within suspended floor void	18mm	22mm
Boilers	Boilers and Heat Pumps	Boilers	Boilers and Heat Pumps	Boilers and Heat Pumps
Tiles and ceramics, vinyl, wood laminate, carpet				
52W/m <sup>2</sup>	65W/m <sup>2</sup>	52W/m <sup>2</sup>	79W/m <sup>2</sup>	65W/m <sup>2</sup>
60°C	50°C	60°C	50°C	
<ul style="list-style-type: none"> <li>• Simple installation with traditional joists at typical 300mm to 450mm centres</li> <li>• Suitable for 'sprung' flooring systems as used in sports halls, etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Can be used with traditional joists</li> <li>• System includes insulation and heat spreader layer</li> <li>• System can be used with low temperature heat sources</li> </ul>	<ul style="list-style-type: none"> <li>• Can be used with both traditional or composite (I beam) joists</li> <li>• Ability to fit above has already been installed</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-configured solution</li> <li>• Can be used with both traditional or composite (I beam) joists</li> <li>• Maximises heat efficiency</li> <li>• System can be used with low temperature heat sources</li> </ul>	<ul style="list-style-type: none"> <li>• Fast response system - slightly deeper profile which can be used on top of a supporting floor or as a low profile alternative to floating floor</li> <li>• Uses 15mm pipe so uses fewer circuits</li> <li>• Suitable for larger areas or whole house solutions</li> </ul>
<ul style="list-style-type: none"> <li>• Standard suspended floor detail normally associated with intermediate floor systems</li> </ul>	<ul style="list-style-type: none"> <li>• System compatible with heat pumps or boilers to run at lower temperatures for optimum efficiency</li> </ul>	<ul style="list-style-type: none"> <li>• Allows installation of heating without disturbance to upper floor e.g. cellars or where upper floor coverings are in situ</li> </ul>	<ul style="list-style-type: none"> <li>• Low profile system allows simple installation of UHF without significant floor height gain or excavation of existing floor</li> <li>• Fast response system</li> </ul>	<ul style="list-style-type: none"> <li>• Ideal for single room applications</li> <li>• Low profile option for new build</li> <li>• Fast response systems</li> </ul>