

Construction Specification for Part L1A Compliance 2021 Building Regulations	
<b>Project:</b> 5 new dwellings	<b>Address:</b> Primrose Barns, Weybeards Farm, Hill End Road, Harefield, Uxbridge, UB9 6LH
<b>Date:</b> 15 May 2023	<b>SAP Assessor:</b> Dominic Bibby
Construction and insulation	
Element	U-Value (W/m <sup>2</sup> K)
<b>Ground floor</b> 75mm screed + 100mm concrete + 180mm PIR	0.1
<b>External wall</b> 12.5mm plasterboard + 100mm block + 150mm PIR + 100mm block	0.13
<b>Exposed wall – Stud</b> u-value of sloped roof x by 0.72	0.08
<b>Exposed wall - Party</b> Solid/Fully filled cavity walls.	0.0
<b>Roof – Sloped</b> 12.5mm plasterboard + 100mm PIR (between rafters) + 130mm PIR over	0.11
<b>Roof void</b> u-value of sloped roof x by 0.72	0.08
<b>Roof - Flat ceiling</b> 12.5mm plasterboard + 200mm mineral wool (between joists) + 250mm mineral wool over	0.1
<b><u>Glazing</u></b> Windows/Glazed doors/Roof lights	1.2
Front door/external doors	1.0
<b><u>Photographic Evidence</u></b> Building Regulations Part L 2021 requires that the builder/developer collates photographic evidence of all construction elements and junctions throughout the build process. BCB may request this on completion and may be needed to enable the as-built SAP and EPC to be produced.	
<b><u>Air tightness</u></b> A design air permeability of 5.0m <sup>3</sup> /h/m <sup>2</sup> to be confirmed by air pressure testing.	
Heating and Ventilation	
<b><u>Main Heating System</u></b> Air Source Heat Pump (ASHP) minimum 250% efficiency. MCS certified. Rads/UFH	
<b><u>Water Heating</u></b> From main heating. 200 litre water cylinder with declared loss factor of 2.0.	
<b><u>Heating Controls</u></b> Time and temperature zone control.	
<b><u>Ventilation</u></b> System 1 natural ventilation including extract fans to wet rooms.	
Other energy related issues	
<b><u>Lighting</u></b> Light fittings to have a minimum luminous efficacy of 75 light source lumens per circuit watt.	
<b><u>Electricity Tariff</u></b> Standard Tariff.	