

Construction Specification for Part L1A Compliance 2021 Building Regulations

Project: 5 new dwellings	Address: Primrose Barns, Weybeards Farm, Hill End Road, Harefield, Uxbridge, UB9 6LH
Date: 15 May 2023	SAP Assessor: Dominic Bibby
Construction and insulation	
Element	U-Value (W/m²K)
Ground floor 75mm screed + 100mm concrete + 180mm PIR	0.1
External wall 12.5mm plasterboard + 100mm block + 150mm PIR + 100mm block	0.13
Exposed wall – Stud u-value of sloped roof x by 0.72	0.08
Exposed wall - Party Solid/Fully filled cavity walls.	0.0
Roof – Sloped 12.5mm plasterboard + 100mm PIR (between rafters) + 130mm PIR over	0.11
Roof void u-value of sloped roof x by 0.72	0.08
Roof - Flat ceiling 12.5mm plasterboard + 200mm mineral wool (between joists) + 250mm mineral wool over	0.1
Glazing Windows/Glazed doors/Roof lights	1.2
Front door/external doors	1.0
Photographic Evidence	
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.	
Air tightness	
A design air permeability of 5.0m ³ /h/m ² to be confirmed by air pressure testing.	
Heating and Ventilation	
Main Heating System	
Air Source Heat Pump (ASHP) minimum 250% efficiency. MCS certified. Rads/UFH	
Water Heating	
From main heating. 200 litre water cylinder with declared loss factor of 2.0.	
Heating Controls	
Time and temperature zone control.	
Ventilation	
System 1 natural ventilation including extract fans to wet rooms.	
Other energy related issues	
Lighting	
Light fittings to have a minimum luminous efficacy of 75 light source lumens per circuit watt.	
Electricity Tariff	
Standard Tariff.	