

| Construction Specification for Part L1A Compliance | |
|--|---|
| Project: 1 new dwelling | Address: Woodrising, Bleadon, BS24 0AA |
| SAP Assessor: Dominic Bibby | Date: 10 February 2023 |
| Building Regulations: 2021 | SAP software: STROMA SAP 10 |
| Construction and insulation | |
| Element | U-Value (W/m²K) |
| Ground floor 75mm screed + 100mm PIR insulation + 100mm concrete | 0.16 |
| Exposed wall 12.5mm plasterboard + 100mm block + 100mm PIR insulation + 50mm cavity + 102.5mm Brickwork Outer Leaf | 0.16 |
| Exposed wall - Stud u-value of sloped roof applied x 0.72 gives resultant u-value* | 0.115* |
| Roof – Sloped (including flat ceiling) 12.5mm Plasterboard + 100mm PIR insulation (between rafters) + 60mm PIR insulation (below) | 0.16 |
| Roof – exposed roof – Flat roof (balcony) 12.5mm plasterboard + 130mm PIR insulation | 0.16 |
| Roof void (as sloped) u-value of sloped roof applied x 0.72 gives resultant u-value* | 0.115* |
| Glazing Windows/Glazed doors/Roof lights. | 1.2 |
| Front door/external doors | 1.4 |
| 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 170% efficiency. MCS certified. | |
| Water Heating From main heating. 200 litre water cylinder with declared loss factor of 2.0. | |
| Heating Controls Time and temperature zone control. | |
| Secondary Heating Wood-burning stove (multi fuel), HETAS approved, minimum 65% efficiency. | |
| Ventilation System 3 and natural ventilation. | |
| 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. | |