

Tuesday 3rd December



L1a2013 – Energy Specification

Billingley View, Bolton on Dearne

- Ground Floor – Suspended Beam & Block, 65mm Screed, 150mm Kingapan Thermafloor TF70 insulation – **U-Value 0.11**
- External Cavity Wall – 100mm facing brick 100mm cavity filled with Knauf Dritherm 32 insulation, 100mm Aglite Block, 12.5mm plasterboard on dabs – **U-Value 0.25**
- Party Wall - Fully filled party wall with sealed edges - **U-Value 0.00**
- Cold Roof – 100mm Loft Roll 40 between joists and 350mm across joists – **U-Value 0.09**
- Windows & Doors – Double glazed, uPVC – **U-Value 1.20**
- Selected thermal linear bridging details – The developer will adopt enhanced Construction Details on this development for Plasmor Aglite blocks **for the following junctions:**
 - E3 – Sill (0.012)
 - E4 – Jamb (0.011)
 - E5 – Ground Floor (0.067)
 - E6 – Intermediate floor within a dwelling (-0.007)
 - E10 – Eaves – Insulation at ceiling level (0.036)
 - E12 – Gable – Insulation at ceiling level (0.181)
 - E16 – Corner – normal (0.057)
 - E18 – Separating Wall (0.04)
 - P1 – Party Wall – Ground Floor (0.068)
 - P4 – Party Wall – Roof (Insulation at ceiling level) (0.091)
 - All other junctions will be ACD's from approved table K1
- Air Permeability - Upon completion, air permeability tests should be carried out and shall achieve no more than **5.10m³/hm²**.
- Air Source Heat Pump with flow temperature <= 35°C
- Time and temperature zone control
- Secondary heating – none
- Ventilation – System 1 intermittent extract vents in wet rooms and kitchen alongside Nuair Drimaster PIV system
- Low – E Lighting – All internal light bulbs (**100%**) will be low energy.
- Part G Water Use – All dwellings will be designed to use no more than 125L of water per person per day
- Solar (PV) Panels – 2 Kw to be installed on front facing roof with battery back up

2 Bed Semi – 74.66% improvement between Target Emission Rate and Design Emission Rate (95 A Rating)

3 Bed Semi – 71.92% improvement between Target Emission Rate and Design Emission Rate (94 A Rating)