
SPECIFICATION - 2013 BUILDING REGULATION REQUIREMENTS

Design 05.10.21 - Luke Butler

Stroma number: STRO033924

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SAP-LSB 14-2074

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**Residential development at:
Conventions: 8.2**

4 Plots Moss Lane East

Ground floor:

50mm Screed
150mm Foam Board Insulation (K=0.022)
100mm Aglite Beam and Block Floor
U-Value = 0.11-0.12W/m²K

Exposed floor Over Entrance:

22mm Chipboard flooring
200mm Mineral wool Insulation (K=0.044)
between intermediate floor joists
22mm External plywood finish
U-Value = 0.22W/m²K

Brick walls:

100mm Brick outer leaf
100mm Full fill insulation (K=0.032)
100mm Aglite block
12.5mm Plasterboard on dabs with skim
U-Value = 0.26W/m²K

Cement board Clad:

Cement board cladding
100mm Aglite block
100mm Full fill insulation (K=0.032)
100mm Aglite block
12.5mm Plasterboard on dabs with skim
U-Value = 0.24W/m²K

Party Wall:

Fully filled party walls with effective edge sealing at all exposed edges and in line with insulating layers in abutting elements
U-Value = 0.00W/m²K

Sloped roof:

100mm Foam Board Insulation between rafters (K=0.022)
37.5mm Foam Board Insulation over rafters (K=0.022)
12.5mm Plasterboard with skim
U-Value = 0.18W/m²K

Plane roof:

200mm Mineral wool Insulation between joists (K=0.044)
200mm Mineral wool Insulation over joists (K=0.044)
12.5mm Plasterboard with skim
U-Value = 0.11W/m²K

Flat roof:	18mm External Plywood Finish 150mm Foam Board Insulation (K=0.022) Cavity between flat roof joists 12.5mm Plasterboard with skim <u>U-Value = 0.13W/m²K</u>
Doors:	Manufacturers U-Value to achieve; <u>1.6W/m²K</u>
Window/ Rooflights:	Manufacturers U-Value to achieve; <u>1.5W/m²K</u> Double-glazed, argon filled (low-E, En = 0.05, soft coat) 16mm or more.
Ventilation:	Background ventilators including trickle vents along with intermittent extract fans fitted in moisture producing areas such as bathrooms and kitchens
Air pressure testing:	All Plots designed to achieve a maximum of 5.0m ³ h/m ²
Heating system:	Vaillant Ecotec Exclusive 843 combi boiler to be installed.to each plot. <i>If an alternate boiler is to be specified, please check with the technical office to mitigate the risk of a compliance fail.</i> Underfloor heating and Radiators throughout
Heating controls:	Time and temperature zone control
Water Heating:	From main heating
Renewables:	1.0 kWp PV solar panels installed to each plot in the south orientation. MCS certificate to be provided at as built stage Size to be confirmed by developer
Low energy lighting:	100% Low energy lighting
Thermal bridging:	Calculated in SAP 2012 Appendix K based on the use of Accredited Construction Details and Plasmor calculated Psi values. Bespoke PSI values are all calculated in accordance to BR497 and by someone with the appropriate experience and expertise. See Thermal bridging checklist for details.
Additional information:	Cavity closures to be; Thermabate Cavity Closers or equivalent used throughout Keystone standard lintels used throughout (Psi value = 0.23) or equivalent

** Please inform us of any changes to the assumed boilers within our calculations and actual boilers to be installed prior to purchase order. This will allow us to mitigate the risk of a compliance fail.*

**Please make sure the dwelling address/ addresses are correct. Any re-lodgements due to incorrect addresses will incur a £12+VAT amendment fee per plot*

Thermal bridging checklist for SAP Part L 2013

To enable us to issue the EPC, please sign the construction details below and return to us with the 'As Built' form.

Detail / Reference		Provider	Location	PSI
E2	Standard	Keystone	Lintel	0.23
E3	PTM-042	Plasmor	Cill	0.012
E4	CBA 315	CBA	Jambs	0.011
E5	PTM-015	Plasmor	Ground Floor	0.075
E6	CBA 301	CBA	Timber suspended ground floor	0.00
E16	PTM-007	Plasmor	Corner normal	0.057
E17	PTM-008	Plasmor	Corner inverted	-0.103
E10	PTM-005	Plasmor	Insulation at ceiling level, eves.	0.036
E15	Conventions #5.08	Conventions	Flat Roof	0.28
E11	CBA 309	CBA	Eaves insulated at Rafter level	-0.002
E12	CBA 310	CBA	Gable insulated at Ceiling	0.084
E13	MCI-RG-01	ACD	Gable insulated at rafters	0.04
E18	PTM-012	Plasmor	Party wall abutment	0.040
P4	CBA 306	Plasmor	Party Roof insulated ceiling	0.0405

SAP Ref:

Site:

Name (please print)

Signed

Date
