

High Street, Hanging Heaton – Feasibility SAP Calculations Specification under Part L1a 2013 – Rev E.

Following the Feasibility Design Stage SAP Calculations undertaken on behalf of Vistry Partnerships for the proposed development at High Street, Hanging Heaton. Below details the specification information as used within the SAP 2012 calculations.

Element	U-value	Construction
External Wall	0.27w/m ² k	102.5mm Brick, 100mm Knauf Supafil 34 (0.034W/m.K), 100mm Plasmor Aglite 4.2N (0.31W/m.K), 12.5mm Plasterboard on dabs
Wall to Garage	0.46w/m ² k (Plus Shelter Factor)	100mm Plasmor Aglite 4.2N (0.31W/m.K), 38mm Gyproc Thermaline (0.022W/m.K)
Dormer Wall	0.30w/m ² k	Target U Value report/construction to be provided
Party Wall	0.00w/m ² k	Robust Detail E-WM-34 12.5mm Plasterboard on dabs, 100mm Plasmor Aglite 4.2N, 100mm Knauf Supafil 34, 100mm Plasmor Aglite 4.2N, 12.5mm Plasterboard on dabs
Ground Floor	0.14- 0.15w/m ² k	150mm Beam & Block, 150mm Floor Insulation (0.028W/m.K), 75mm Screed
Floor above Garage	0.12w/m ² k (Plus Shelter Factor)	22mm Chipboard, 240mm Knauf Earthwool Loft Roll 40 (0.040W/m.K) between Joists, 40mm SuperQuilt (7.5mm when compressed) to underside of joists, 15mm Plasterboard
Party Ceiling & Floor	0.00w/m ² k	Robust detail E-FC-4 Plasterboard on Metal Frame,

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		Concrete, Isorubber, Screed
Roof – Insulated Ceiling	0.08w/m²k	2 layers of 200mm Glassfibre (0.044W/m.K), 150mm Glassfibre (0.040W/m.K) filled between studs (38@450 centres), 15mm Plasterboard
Roof – Insulated Slope	0.18w/m²k	100mm Thermapitch TP10 (0.022W/m.K) between rafters (38@450 centres), 40mm Thermapitch TP10 (0.022W/m.K), 15mm Plasterboard
Entrance Door	1.40w/m²k	Double Glazed/Solid
Windows	1.40w/m²k	Double Glazed
Patio Doors	1.40w/m²k	Double Glazed
Roof Windows	1.40w/m²k	Double Glazed
Boiler	Gas	Ideal Logic ESP1 35
Heating Controls	Dual Zone	Time, temperature & zone controls
Mechanical Extract Ventilation	System 3	Vent Axia Response
Waste Water Heat Recovery (Plots 4 & 5)	WWHR	RECOUP, Pipe+ (<i>In room without bath</i>)
Air pressure test	4.50	Design figure
Lighting	100%	Low Energy Lighting
Thermal Bridging	-	Plasmor Aglite Details ACDs for E2 Lintels and Ground Floor

Revisions

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Rev	Date	Revision Details
Initial	03/02/21	-
A	14/03/22	Updated u values for windows and doors to 1.40W/m.K. Increase roof insulation to 550mm. Achieves a value of 0.08W/m2K. Amended ventilation for housetype Goodridge.
B	16/03/2022	Amended floor above garage construction. Added WWHR for Goodridge & Wyatt.
C	22/03/22	Removed system 1 ventilation and added Vent Axia Response for Atkins & Wyatt.
D	26/04/22	Added 7.5mm compressed SuperQuilt for floor above garage
E	29/06/22	Added Robust detail reference for party wall and ceiling/floor

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