

Element	Specification	U-value	Kappa		Psi value	Notes
Ground floor		0.11 W/m2K	Suspended concrete	75 KJ/m2K	n/a	Assumed
Internal floors		n/a	Plasterboard ceiling	18 KJ/m2K	n/a	Assumed
Party floor		n/a	Timber	30 KJ/m2K	n/a	Assumed
External wall	Timber frame	0.16 W/m2K	Timber frame (1 layer of plasterboard)	9 KJ/m2K	n/a	see calc
Party wall	Filled cavity with edge sealing	0.00 W/m2K	Double plasterboard, twin timber frame	20 KJ/m2K	n/a	Assumed
Internal partitions		n/a	Plasterboard on timber frame	9 KJ/m2K	n/a	Assumed
Roof - Pitched		0.11 W/m2K	Plasterboard insulated at ceiling level	9 KJ/m2K	n/a	ER's for Very Good
Roof - Sloped		0.11 W/m2K	Plasterboard insulated slope	9 KJ/m2K	n/a	ER's for Very Good
Internal ceilings		n/a	Plasterboard ceiling	9 KJ/m2K	n/a	Assumed
Party ceiling		n/a	Timber	20 KJ/m2K	n/a	Assumed
Windows	Double glazed. G-value 0.63	1.20 W/m2K	n/a	n/a	n/a	ER's for Very Good
Front door	Half glazed. Double glazed. G-value 0.63	1.00 W/m2K	n/a	n/a	n/a	Assumed
Thermal bridges	Lintels	n/a	n/a	n/a	0.084 W/m.K	ROI Accepted Construction assumed
	Sills	n/a	n/a	n/a	0.034 W/m.K	ROI Accepted Construction assumed
	Jambbs	n/a	n/a	n/a	0.043 W/m.K	ROI Accepted Construction assumed
	Ground floor	n/a	n/a	n/a	0.021 W/m.K	ROI Accepted Construction assumed
	Intermediate floor (within dwelling)	n/a	n/a	n/a	0.080 W/m.K	ROI Accepted Construction assumed
	Intermediate floor (between dwellings)	n/a	n/a	n/a	0.280 W/m.K	default
	Eaves	n/a	n/a	n/a	0.044 W/m.K	ROI Accepted Construction assumed
	Gable	n/a	n/a	n/a	0.081 W/m.K	ROI Accepted Construction assumed
	Corner	n/a	n/a	n/a	0.035 W/m.K	ROI Accepted Construction assumed
	Party Corner	n/a	n/a	n/a	0.079 W/m.K	ROI Accepted Construction assumed
	Staggered party corner	n/a	n/a	n/a	0.240 W/m.K	default
	Party wall and roof	n/a	n/a	n/a	0.480 W/m.K	default
	Party wall and ground floor	n/a	n/a	n/a	0.074 W/m.K	ROI Accepted Construction assumed
	Party wall and intermediate floor	n/a	n/a	n/a	0.000 W/m.K	default
Ventilation	dMEV. Greenwood Unity CV2.1CTA110. Semi rigid. Through wall fans	n/a	n/a	n/a	n/a	Assumed
Wet rms	4B - kitchen +3. 3B - kitchen +3. 2B - kitchen +2. 1B - kitchen +1.	n/a	n/a	n/a	n/a	Based on drawings
Cooling	None	n/a	n/a	n/a	n/a	Assumed
Pressure	3.0 m3/h.m2 @50	n/a	n/a	n/a	n/a	Assumed
Lighting	80lm/W. 4B - x40. 3B - x30. 2B - x20. 1B x10.	n/a	n/a	n/a	n/a	Assumed
Heating	1B + 2B - Mitsubishi Ecodan PUZ-WM50VHA (5kW)	n/a	n/a	n/a	n/a	from email
	4B +3B - Mitsubishi Ecodan PUZ-WM85VAA (8.5kW).	n/a	n/a	n/a	n/a	
Distribution	Pump in heated space. Underfloor and rads. Pipework in thin screed. Flow temp 35	n/a	n/a	n/a	n/a	from email
Heating controls	Zones	n/a	n/a	n/a	n/a	Assumed
Smoke control area	Unknown	n/a	n/a	n/a	n/a	Assumed
Secondary heating	None	n/a	n/a	n/a	n/a	Based on drawings
Cold water source	From mains	n/a	n/a	n/a	n/a	Assumed
Hot water	From main heating system. Independent time control.	n/a	n/a	n/a	n/a	ER's for Very Good
Hot water cylinder	Cylinder stat. In heated space. Fully insulated primary pipework.	n/a	n/a	n/a	n/a	Assumed
	4B + 3B - 200l. 2.09heatloss. 1B + 2B - 180l. 1.50heatloss.	n/a	n/a	n/a	n/a	
Bath tub count	1 per plot	n/a	n/a	n/a	n/a	Based on drawings
Showers	7l/min	n/a	n/a	n/a	n/a	Assumed
Waste water heat recovery	None	n/a	n/a	n/a	n/a	Assumed
Solar PV	1.35kWp per dwelling. Export meter. Shading - none or little.	n/a	n/a	n/a	n/a	from email
Electricity meter	Smart	n/a	n/a	n/a	n/a	Assumed
Gas meter	None	n/a	n/a	n/a	n/a	Assumed