

East Street, Southampton



BRegs L1A 2013 - As Built Draft																							
Option	Units	External Wall - Brick	External Wall - cladding	Corridor Walls - Party	Party Walls - Flats	Ground Floor	Upper Floor	Flat Roof	Windows	Ext Door	Boiler	Delayed Start Thermostat	Weather / Load Compensator	Secondary Heating	HW Cylinder	Renewables (PV)	Renewables (Area)	Mechanical Ventilation	Air- Permeability	DERV TER Improvement	DfEE vs TEE Improvement		
Type	Plot No	U Value	U Value	U Value	U Value	U Value	U Value	U Value	U Value	U Value	Make	Y/N	Y/N	Y/N	(litres)	(kWp)	m ²	Type		%	%		
1st Floor (Over Unheated)	4	0.18	-	0	0	-	0.15	-	1.4	0	Immersion & panel heaters	-	-	-	150.00	Y	-	MVHR	4	20.43	6.63		
1st Floor (Over Commercial)	5	0.18	-	0	0	-	0.08	-	1.4	0	Immersion & panel heaters	-	-	-	150.00	Y	-	MVHR	4				
Mid Floor	27	0.18	-	0	0	-	-	-	1.4	0	Immersion & panel heaters	-	-	-	150.00	Y	-	MVHR	4				
Top Floor (4th)	73	0.18	-	0	0	-	-	0.15	1.4	0	Immersion & panel heaters	-	-	-	150.00	Y	-	MVHR	4				
Top Floor (14th)	132	-	0.19	0	0	-	-	0.15	1.4	0	Immersion & panel heaters	-	-	-	150.00	Y	-	MVHR	4				
Whole Scheme (PV)				Heated Cor.												134							
Element	U Values	Description																					
External Wall - Brick SAP Wall Type 1	0.18	Brick/Brick slip, 50mm cavity, 125mm duo-slab (0.035 conductivity), breather membrane, 12mm cement bonded particle board, 100mm light steel frame fully filled batt (0.035 conductivity), vapour barrier, 2x15mm plasterboard.																					
External Wall - Panel SAP Wall Type 2	0.18-0.19	rainscreen cladding/panelling, 50mm cavity, 125mm duo-slab (0.035 conductivity), breather membrane, 12mm cement bonded particle board, 100mm light steel frame fully filled batt (0.035 conductivity), vapour barrier, 2x15mm plasterboard. (subject to number of fixings)																					
Party Wall SAP Wall Type 3	0.00	Fully filled cavity and thermally sealed edges achieves default U-Value of 0																					
Corridor Wall SAP Wall Type 4	0.00	Fully filled cavity and thermally sealed edges achieves default U-Value of 0 (heated corridors)																					
Spandrel Panels SAP Wall Type 5	-	None proposed (tbc)																					
Ground Floor SAP Floor Type 1	0.11	Slab on ground floor, 150mm rigid insulation (0.022 conductivity), 75mm screed. (n/a as no flats on ground floor).																					
Upper Floor - over commercial SAP Floor Type 2	0.15 (0.08)	75mm screed, 25mm insulation (0.022 conductivity), 250mm RC Slab, 100mm insulation undersoffit (0.022 conductivity), 50mm cavity, 2x15mm board (U-Value halved for flats above commercial)																					
Flat roof - 4th Floor SAP Roof Type 1	0.14	Single ply protective membrane, 150mm PU Board (0.022 conductivity), RC Concrete slab, service void, 12.5mm Plasterboard																					
Flat roof - Tower SAP Roof Type 2	0.14	Single ply protective membrane, 150mm PU Board, RC Concrete slab, service void, 12.5mm Plasterboard																					
Windows	1.40	UPVC, Double glazed, high specification soft lowE, whole window U-Value (G-Value 0.67 average, FF 0.8)																					
Roof Lights (velux)	1.40	TBC - standard Velux assumed for corridor locations - doesn't impact residential units																					
Front Door	-	Insulated external door but opening onto the corridor so no U-Value applied																					
French Doors	1.40	UPVC, Double glazed, high specification soft lowE, whole window U-Value (G-Value 0.67, FF 0.8) - same as glazing																					
Construction Details (PSI values)	-	Accredited Construction Details psi-values have been proposed for all applicable junctions. (Note: Balcony psi value - 0.24)																					
Boiler	-	n/a																					
Controls	-	Programmer & appliance thermostat																					
Heating Emitters	-	Electric panel heaters																					
Secondary Heating	-	n/a																					
HW Cylinder	-	1 bed units: Dual Immersion, ThermoQ Evocyl 120 Super Eco, Standing loss 0.92 kWh/24hr. 2 bed units: Dual Immersion, 150L eso, Standing loss 1.30 kWh/24hr.																					
Mechanical Ventilation	-	MVHR: Titon HRV 1.75 Q+ ECO - to provide summer bypass.																					
Lighting	-	100% Low Energy Lighting - CFL or LED.																					
Renewables	-	PV on all main roofs - to deliver 19% CO2 offset required by planning, 134.2kWp in total at present.																					
Overheating	-	Blinds are being installed in all rooms, cross ventilation where applicable (some units), as all units are 1st floor upwards the use of openable windows to enable purge ventilation is to be used as required - noise report acknowledges ability to open windows																					
Notes	Change in the specification from planning (M&E), wall slightly worse, thermal bridging different, updated MVHR, glazing and cylinders																						
Sign Off of details	Name	PP M Maclean	Date	13.02.18	On behalf of the contractor/client:										Name						Date		
	Sign	(on behalf of SRE)													Sign						Date		