Project: 4 St Augustines Road, London NW1

Stage: Planning Stage: 01/02/2013



Targets:	CSH Level 4 (CSH 2010)			
	L1A Compliance (2010 Regulations)			
EXPOSED ELEMENTS	EXAMPLE SPECIFICATION	TARGET U-VALUE (W/m²K)	Ass.r/Mar ./Other	
FT1 - Ground Floor	75mm concrete screed/ 150mm rigid insulation (thermal conductivity 0.022W/mK) + 50mm vertical edge insulation/ 250mm ground bearing reinforced concrete slab	0.12	SRS	
FT2 - Upper Floor (Over unheated space)	TBC - Target U-value	0.20	Target	
WT1 - External Walls	TBC - Target U-value	0.20	Target	
WT2 - Sheltered Walls (Wall between flat and common areas)	TBC - Target U-value	0.20	Target	
WT3 - Party Wall (Walls between habitable flats)	Fully filled cavity with sealed edges - default u-value	0.00	SRS	
RT1 - Pitched Roofs (Insulated rafters)	Tiling/ batten space/ sarking felt/ 50mm well ventilated cavity/ 150mm timber rafters @450cc with 100mm rigid board insulation between rafters/ 50mm rigid board fixed to underside of rafters/ 12.5mm plasterboard	0.15	SRS	
RT2 - Flat Roofs	Single ply membrane/ 150mm ridgid board insulation/ 18mm timber ply/ 300mm roof joists/ 12.5mm plasterboard	0.15	SRS	
RT3 - Exposed Ceiling (2nd Floor)	Single ply membrane/ 150mm ridgid board insulation/ 18mm timber ply/ 300mm roof joists/ 12.5mm plasterboard	0.15	SRS	
Entrance Doors	Individual Flat Entrance Doors: Insulated core timber faced doors - non perforated base plate lintel - target U-value	1.60	Target	
	Glazed Doors: Metal double glazed with low-e soft coat glazing, 16mm+ air gap - 32mm thermal break - argon filled - non perforated base plate lintel - target whole unit U-value	1.20	Target	
Windows	Metal double glazed with low-e soft coat glazing, 16mm+ air gap - argon filled - 32mm thermal break - non perforated base plate lintel - target whole unit U-value	1.40	Target	
Rooflights	uPVC double glazed with low-e soft coat glazing, 16mm+ air gap - argon filled - target whole unit U-value	1.40	Target	
DETAILING				
Thermal Bridging	Accredited Construction Details (ACD) - Thermal bridging calculations undertaken for each unit type using ACD Ψ values	ACD		
Thermal Mass Parameter	Assumed RC frame with stud infill/ internal stud walls: User Defined TMP - Low (100kJm²K)	100kJm²K		
Air Permeability	Air pressure test - air permeability no greater than 5m³/hm² (@50pa) - All units to be tested	5m³/hm² (@50pa)		
OPERATING SYSTEMS				
Electricity Tarrif	Standard			
Ventilation	Mechanical whole house ventilation (MEV) - Kitchen + 1 = 0.2W/l/s - Kitchen + 2 = 0.18W/l/s - Approved installer (Based on Titon CME 1 Q Plus)			
Main Heating System	Gas condensing combination boiler, 89%efficient (Sedbuk 2009) with weather compensator, interlock and delayed start thermostat, radiators as emitters. NB: NOx emissions to be less than 40mg/kWh for CSH (Based on Vaillant Ecotec)	89% (Sedbuk 2009)	Target	

SUMMARY OF CONSTRUCTION DETAILS AND ASSUMPTIONS SAP, PART L1A ASSESSMENT

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Heating Controls	Time and temperature zone controls		
Secondary Heating	None		
Water Heating	From main gas boiler - 210 litres hot water cylinder with heat loss no greater than 1.85kWh/day	1.85kWh/day	
Water Usage	Less than 90lites/person per day for CSH purposes - Calculations by CSH assessor		
Renewable Energy	Photovoltaic Panels (PV) - 10kWp located on flat and pitched roofs in South orientation with total output directed to common areas and back to grid - collectors @ 30 degree tilt with none or very little overshading - see SAP summary for unit breakdown.	10kWp	Target
Lighting	100% low energy		
OTHER ASSUMPTIONS			
Communal Space	Assumed communal areas unheated		