

Building Regulations - SAP Specification and Evidence Tracker

10-14 Belmont Street -02532 - As-Built Stage

Project Details:

10-14 Belmont Street -02532 - NW18

Hodkinson Project Manager:

Nimco Ali

Client Details:

Livio Venturi - Designsted Contractors - Livio Venturi <Livio@designatedcontractors.com>

Assessor Details:

Nimco Ali - NHER Assessor: 9526

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SAP Specification and Evidence Tracker

Project Name/Number 10-14 Belmont Street -02532		SAP Region Thames		Part L1A Building Regulations Version 2013	
Project Town/Postcode NW18		SAP Terrain Low Rise U/S		Carbon/Energy Reduction Target 20%	
SAP Status As Built Stage				Ene 1 - % DER Improvement None	
Date of Design Freeze				Ene 2 - FEE Level None	
Version Number v2				Ene 7 - % CO ₂ Reduction from Renewables None	
CfSH Targets					
Category	Description	Performance	Units	Evidence	Applicable Plots/Notes
FABRIC			Status	Type	
Walls					
External Wall 1 (Timber framed wall)	12.5mm plasterboard, 03mm vapour control layer, 100mm Kooltherm K12, 25mm air space, 215mm brickwork	0.27	W/m ² .K	Provided	Email confirmation Livio Venturi, dated 26/10/18 Kingspan U-Value calculation
External Wall 2 (Cavity Back wall)	100mm external brick, 100mm Isover CWS 32, 100mm medium dense block.	0.26	W/m ² .K	Provided	Email confirmation Livio Venturi, dated 26/10/18 British Gypsum U-Value calculation
Basement Floor Wall	72.5mm Kooltherm K118, 47mm batten cavity, 300mm concrete. 3.0mm waterproofing.	0.16	W/m ² .K	Provided	Email confirmation Livio Venturi, dated 26/10/18 Kingspan U-Value calculation
Curtain Wall (Third Floor)		0.71/0.69	W/m ² .K	Provided	Email confirmation Livio Venturi, dated 26/10/18 Platin blue - Sliding windows, Page 4 & Third Floor Plan
Party Wall	Solid wall or Fully filled and sealed	0.0	W/m ² .K	Provided	Email confirmation Livio Venturi, dated 26/10/18 Email confirmation from Livio Venturi, dated 06/11/17 & Floor plans
Floors					
Basement Floor	250mm concrete, 120mm Kooltherm K103, 0.5mm polythene separation layer, 65mm sand cement screed.	0.11	W/m ² .K	Provided	Email confirmation Livio Venturi, dated 26/10/18 Kingspan U-Value calculation
Roofs					
Basement Roof	12.5m plasterboard, 50x50mm timber battens, 200mm RC slab, 100mm Kingspan TP10 100mm screed	0.20	W/m ² .K	Provided	Email confirmation Livio Venturi, dated 26/10/18 & 15/1/19 Email confirmation from Livio Venturi, dated 04/1/18 & U-Value calculation
Terrace & Bay Roof	12.5mm platerboard, 40mm timber joist cavity, 60mm Kingspan Thermapitch TP10, 18mm vapour control layer, 100mm Kingspan thermarroof TR26, 18mm plywood decking	0.16	W/m ² .K	Provided	Email confirmation Livio Venturi, dated 26/10/18 Kingspan U-Value calculation
Flat Roof	12.5mm platerboard, 135mm timber joist cavity, 60mm Kingspan Thermapitch TP10, 18mm vapour control layer, 100mm Kingspan thermarroof TR26, 18mm plywood decking	0.15	W/m ² .K	Provided	Email confirmation Livio Venturi, dated 26/10/18 Kingspan U-Value calculation

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Category	Description	Performance	Units	Evidence	Applicable Plots/Notes
Openings					
Window U-Value	Softwood Windows - 1	1.40	W/m ² .K	Provided	
	Inward Opening Windows - 2	0.91			
	Sliding Windows - 3	0.71/0.69			
	Outward Opening Windows - 4	1.27			
Window G-Value	Softwood Windows - 1	0.47			
	Inward Opening Windows - 2	0.46			
	Sliding Windows - 3	0.50			
	Outward Opening Windows - 4	0.48			
Window Frame Factor	Frame Factor Softwood Windows -1	0.70			
	Frame Factor Remaining Windows -2,3 & 4	1.00			
Glazed Door U-Value	Softwood Windows - 1	1.40	W/m ² .K	Provided	
	Inward Opening Windows - 2	0.91			
	Sliding Windows - 3	0.71/0.69			
	Outward Opening Windows - 4	1.27			
Glazed Door G-Value	Softwood Windows - 1	0.47			
	Inward Opening Windows - 2	0.46			
	Sliding Windows - 3	0.50			
	Outward Opening Windows - 4	0.48			
Glazed Door Frame Factor	Frame Factor Softwood Windows -1	0.70		Provided	
	Frame Factor Remaining Windows -2,3 & 4	1.00			
Thermal Bridging		Default	W/m ² .K	Provided	Default
Thermal Mass	Medium			Provided	Hodkinson Calculation

HEATING - Individual - Mains Gas Regular Boiler

Model Name	Worcester Greenstar 24i System			Provided	Email confirmation Livio Venturi, dated 26/10/18 Email confirmation from Livio Venturi, dated 02/11/17. Email confirmation Livio Venturi, dated 26/10/18 Email confirmation from Livio Venturi, dated 21/11/17.
SEDBUK 2009 Annual Efficiency		82.5 %			
Controls	Time and Temperature Zone Control				
Emitter	Underfloor heating (screed)				
System					

HOT WATER - Cylinder

Volume	Gledhill Plus Ind 300	300 Litres		Provided	Email confirmation Livio Venturi, dated 26/10/18 & Email confirmation from Neil Heed, Gledhill, dated 26/10/18
Declared Loss Factor		2.08 kWh/day			

COOLING

System Type	PEFY-P25VMS1-E / P112VKM3 outdoor			Provided	Email confirmation Livio Venturi, dated 26/10/18 Email confirmation from Livio Venturi, dated 02/11/17 & Mitsubshi datasheets
Energy Efficiency Ratio		4.48			
Controls					

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Category		Description		Performance	Units	Evidence		Applicable Plots/Notes
VENTILATION								
Ventilation Type		Natural ventilation				Provided	Email confirmation Livio Venturi, dated 26/10/18 Email confirmation from Livio Venturi, dated 02/11/17	House 10a: 10.30m³/hr.m² House 12: 7.10m3/hr.m²
Design Air Permeability				5.00	m³/hr.m²	Provided	Air pressure test certificates	
Air Pressure Testing Schedule		Both plots to be tested.						
LIGHTING								
Low Energy Proportion				100	%	Provided	Email confirmation Livio Venturi, dated 26/10/18 Email confirmation from Livio Venturi, dated 16/11/17.	