

CLIENT McCarthy & Stone
PROJECT Berneslai Close, Barnsley
DATE 17-Jul-19
STAGE As Designed



BUILDING REGULATIONS PART L 2013

Target Emission Rate	TER	34.70
Building Emission Rate	BER	34.20
Compliance		-1.44%

EXTERNAL ELEMENT	U VALUE (W/m2K)	G VALUE	FRAME FACTOR
External Windows (including glazed doors)	1.4	0.65	Various
Rooflight	1.4	0.65	
EXTERNAL ELEMENT	U VALUE (W/m2K)	THERMAL MASS (KJ/m2K)	
External Walls (Dense Block)	0.21	175.5	
External Walls (Medium Block)	0.21	113.4	
External Solid Doors	1.40	6.8	
Roof	0.11	8.6	
Ground Floor	0.11	36.3	
INTERNAL ELEMENT	U VALUE (W/m2K)	THERMAL MASS (KJ/m2K)	
Internal walls (Dense Block)	N/A	131	
Internal walls (Medium Block)	N/A	117	
Intermediate floors (Ceilings)	N/A	160	

Thermal Bridge	Junction not involving metal cladding	Junction involving metal cladding
Type of junction	Psi (W/(m·K))	Psi (W/(m·K))
Roof - wall	0.18 (as default)	0.42 (as default)
wall - ground floor	0.152	1.73 (as default)
wall- wall (corner)	0.06	0.38 (as default)
wall -floor (not ground)	0.04	0.04 (as default)
lintel above window/door	0.20	1.91 (as default)
sill below window	0.027	1.91 (as default)
jamb at window/door	0.024	1.91 (as default)

Air Permeability	m ³ /(h.m ²) @ 50pa	5.00
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BUILDING SERVICES GENERAL

Electric Power factor	<0.90
Lighting metering & 'Out of Range' Warning	Yes
Internal Blinds Required	No

BUILDING SERVICES - MAIN SYSTEM

Heating	Yes
Areas Served by System	All communal areas
Type	Electric Panel Heater
Fuel Source	Mains Electricity
Seasonal Efficiency	100%
CHP Generators	No
ECA Qualification	No

System Adjustment			
Has the ductwork been leakage tested?		No	
Does the AHU meet CEN leakage Standards		No	
Specific Fan power	W/(l/s)	N/A	
Pump Type		N/A	
Does the System have provision for metering?		Yes	
Does the metering warn "out of range" values		Yes	

System Controls			
Central Time Control		Yes	
Optimum Start Stop Control		No	
Local Time Control (room)		Yes	
Local Temperature Control (room)		Yes	
Weather Compensation Control		No	

BUILDING SERVICES - DOMESTIC HOT WATER SYSTEM 1

Type		Instantaneous hot water only	
Fuel Source		Grid Electricity	
Seasonal Efficiency		100%	
Hot Water Storage		NO	
Total Storage Volume	L	N/A	
Storage Losses	kwh/(l.day)	N/A	
Does the system have secondary circulation?		No	

BUILDING SERVICES - VENTILATION

Room	Fan Type	SFP (W/l/s)	Flow Rate l/s	Thermal Efficiency
Guest Bathroom	Local Extract	0.40	11	N/A
Refuse	Wall Extract	0.13	210.00	N/A
Tea	Local Extract	0.40	21	N/A
WC	Local Extract	0.40	8.00	N/A
Refuse Lobby	Local Supply	1.10	N/A	N/A

BUILDING SERVICES - LIGHTING AND CONTROLS

Room	Lumens/Circuit watt	Light Output Ratio	Controls	Parasitic power
Circulation(s)	109.70	1.00	N/A	0.05 W/m ²
Stair(s)	80.80	1.00	N/A	1 W
Guest Bathroom	70.00	1.00	N/A	N/A
Guest Suite	70.00	1.00	N/A	N/A
Refuse	102.30	1.00	N/A	N/A
Cleaners	102.30	1.00	N/A	N/A
Mobility Store	102.30	1.00	N/A	N/A
Refuse Lobby	102.30	1.00	N/A	N/A
Store	80.80	1.00	N/A	N/A
WC	109.70	1.00	N/A	N/A
Tea	109.70	1.00	N/A	N/A
Office	109.70	1.00	N/A	N/A
Homeowners Lounge	109.70	1.00	N/A	N/A

BUILDING SERVICES - RENEWABLES

Orientation	N/A	
Peak Power output (kWp)	N/A	
Inclination	N/A	
Overshading Risk	N/A	

Notes

- The M&E contractor is to confirm the suitability of the current space heating and DHW specification based on loads and demand.