

APT

AIR PRESSURE TESTING LTD



4340

Accredited to ISO/IEC 17025:2005

Head Office: Sayells Farm, 7 Harlington Road, Upper Sundon,
Bedfordshire, LU3 3PE

Tel: 07967 233836 / 07775 623464

Email: Info@airpressuretesting.net

www.airpressuretesting.net

13th June 2023

Mr Joe Atkinson
Charlesgate Homes
120 All Saints Avenue
Maidenhead
SL6 6LT

ENERGY RATING at 27 Gravel Hill, Emmer Green, Reading, RG4 8QN

Dear Joe

I am pleased to confirm that Energy Ratings have been carried out for the above.

The Assessments are based on the information provided (as shown in the tables overleaf), please let us know if there are any changes.

Please do not hesitate to contact me if you have any queries.

Yours Faithfully

Malcolm Fish
Air Pressure Testing Ltd
Direct Dial 07967 233836
E-mail malcolm@airpressuretesting.net

Our Full Range Of Services	Air Tightness Testing	Sound Testing For Part E
Acoustic Surveys for Planning – PPG24	Acoustic Surveys for Mechanical Plant	Fire Enclosure Testing
Infra-red Thermography Surveys	Energy - SAP, EPC, DEC & SBEM	BREEAM & Code for Sustainable Homes

Please note: The scope of our UKAS Accreditation is limited to Air Tightness Testing and Sound Insulation Testing and the full scope can be found at: <http://www.ukas.org/testing/schedules/Actual/4340Testing%20Multiple.pdf>

CONSTRUCTION SUMMARY

AMENDED THERMAL CALCULATIONS AND SPECIFICATIONS SHOULD BE SUBMITTED TO BUILDING CONTROL IN CONJUNCTION WITH LATEST DRAWINGS

WALL CONSTRUCTION

ITEM	TYPE	THICKNESS mm
New Wall	To achieve u-value of 0.18 – spec tbc	
Brick		103
Cavity		50
Insulation	PIR	100
Block	7n Block – conductivity of 0.60 or below	100
Dot/dab		
Plasterboard	Insulated PIR Board	37.5
Dormer		
Insulation between timbers	PIR	120
Insulation Inside Timbers	Insulated PIR Board	32.5
Internal Walls	TBC	

FLOOR CONSTRUCTION

Floor	To achieve u-value of 0.10 – spec tbc	
Insulation	PIR	150

ROOF CONSTRUCTION

Insulated Ceiling		
Insulation	Mineral Wool	400
Flat Roof		
Insulation	PIR	150
Slope		
Insulation Between Rafters	PIR	150
Insulation under Rafters	Insulated PIR Board	47.5

DOORS & WINDOW “U” VALUES

MATERIAL	UPVC	“U” VALUE	1.20 Transmission factor g – 0.63 Frame factor – 0.70
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ALL CONSTRUCTION SHOULD BE CARRIED OUT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS

THERMAL BRIDGING – JUNCTIONS TO BE JUSTIFIED & PHOTOGRAPHED AND SENT TO OURSELVES ON COMPLETION – ONE PICTURE PER JUNCTION. JUNCTION REFERENCES USED ALSO NEED TO BE ADVISED.

GENERAL ITEMS					
ITEM		CALCULATION FIGURE			
Pressure Testing Figure		5			
COMMENTS					
PLEASE PROVIDE CERTIFICATE ON COMPLETION					
VENTILATION					
ITEM		NUMBER			
Chimneys		0			
Flues		1			
Fans		6			
Flueless Gas Heaters		0			
PRIMARY HEATING SYSTEM					
APPLIANCE/FUEL TYPE		MANUFACTURER		EFFICIENCY	
AIR SOURCE		FOR SAP INFORMATION PURPOSES WE INPUTTED A SAMSUNG HEATPUMP		170%	
COMMENTS					
UNDERFLOOR - ZONED PLEASE NOTE THE HEATING SYSTEM SPECIFIED IS FOR CALCULATION PURPOSES ONLY PLEASE CHECK SUITABILITY WITH YOUR INSTALLER PLEASE PROVIDE MCS OR COMMISIONING CERTIFICATE ON COMPLETION					
SECONDARY HEATING SYSTEM					
HEAT SOURCE		SYSTEM TYPE		FUEL	
WOOD BURNER					
COMMENTS					
DOMESTIC HOT WATER					
SOURCE		DHW STORAGE		INSULATION (mm)	Heat Loss figure
CYLINER		MANF – TBC		50	1.69
COMMENTS					
LIGHTS					
AMOUNT		WATTS		LUMENS	
20		75		75	
SHOWERS & BATHS					
BATHS		1			
SHOWER		1		UNVENTED	
WWHR – Waste Water Heat Recovery					
Make & Model		n/a			
PLEASE PROVIDE COMMISIONING CERTIFICATE ON COMPLETION					
FGHRS – Flueless Gas Heat Recovery					
Make & Model		n/a			
PLEASE PROVIDE CERTIFICATE ON COMPLETION					
SOLAR PV / BATTERY					
KWP Tilt of collector Orientation Overshading	4	Diverter Present	YES	Battery Storage (Kwh)	NO
SOLAR THERMAL					

M2 Tilt of collector Orientation Overshading Dedicated storage store volume Is the solar store seperate	NO	
PLEASE PROVIDE MCS CERTIFICATE OR COMMISSIONING CERTIFICATE ON COMPLETION		
DELETE AS APPLICABLE		
Meter Capable of Exporting Electricity to Grid		YES
Electric Smart Meter Present		YES
Gas Smart Meter Present		YES
COMMENTS		
PLEASE INFORM ME IF ANY AMENDMENTS ARE REQUIRED TO BE UNDERTAKEN OR IF ANY CHANGES ARE MADE DURING CONSTRUCTION AS THIS MAY RESULT IN THE SCHEME FAILING		