Howe Park PassivHaus

Alan Budden RIBA
Director

eco design consultants

www.ecodesignconsultants.co.uk

Air changes per hour N_{50}(ACH)=**0.6**h^{-1} @50Pa

Our Results: **0.07**

Best in UK previously 0.12

Best in Germany 0.05

Effective leakage area 0.002m2
44mm x 44mm

Certificate of Air Test

Issued By Stroma Technology Ltd

2731

Details of Test

Dwelling tested:	Howe Park Wood, Hengistbury Lane, Tattenhoe, Milton Keynes, MK4 3OB	Nett Floor Area, A_F: Envelope Area, A_E: Volume, V:	72.70 m^2 400.34 m^2 497.33 m^3
On behalf of:	Parkway Construction	Geometry Prepared by:	Jonathon Teale of Stroma
Test Date:	23rd May 2012	Geometry Verified by:	Barry White of Parkway Construction
Certificate Date:	24th May 2012	Certificate No.:	PW 05-12-28691 T1

Test Conditions and Temporary Sealing at the Time of Both Tests

	Response
All external doors and windows closed?	Yes
All internal doors open?	Yes
All extracts sealed? Inc. kitchen and bathroom(s) extracts and the oven hood.	Yes
Temporary seals to drains, plugs, or overflows?	No
Combustion appliances turned off, and sealed? If located in the conditioned space of the dwelling and it is not a balanced?	Yes
Trickle vents and/or passive ventilation temporary sealed?	No
Fireplace temporary sealed?	N/A
All building works completed to the air boundary envelope?	Yes

Deviation(s) from ATTMA TS1

None

Test Result and Performance Characteristics

This is to certify that the above named building has been tested for air permeability in accordance with ATTMA TS1 undertaken with the conditions stated above.

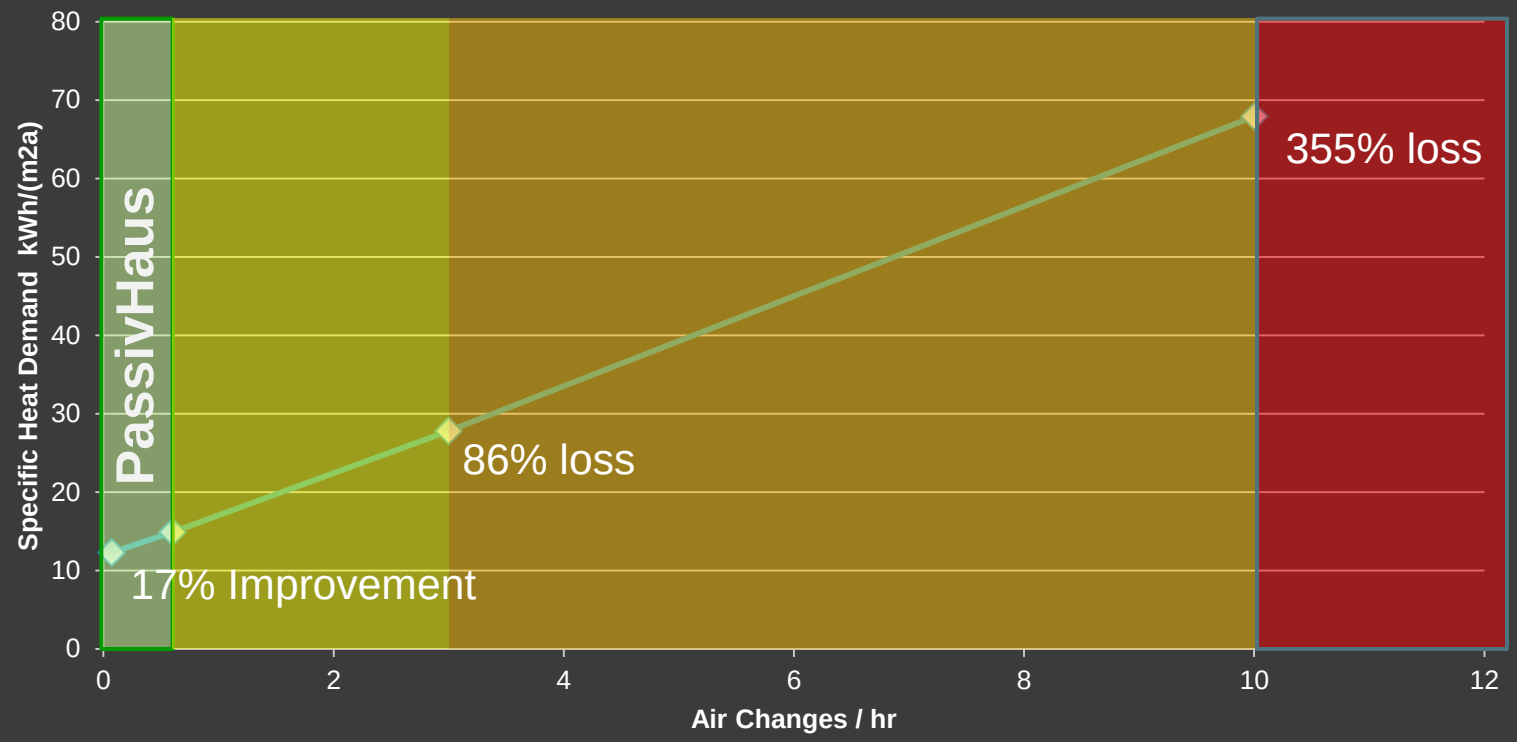
The Key Leakage Characteristics of the dwelling are:

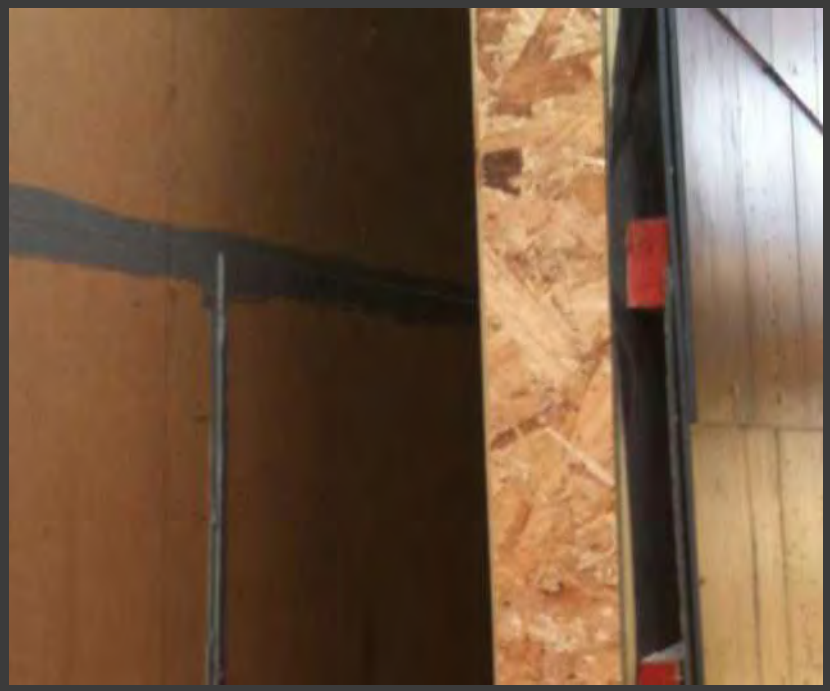
	Depressurisation	*Pressurisation*
Air Change Rate, n_{50}:	**0.07 h^{-1} @ 50 Pa**	**0.06 h^{-1} @ 50 Pa**
Air Permeability, AP_{50}:	*0.09 $m^3.h^{-1}.m^{-2}$ @ 50 Pa*	*0.09 $m^3.h^{-1}.m^{-2}$ @ 50 Pa*
Effective Leakage Area:	0.002 m^2 @ 50 Pa	0.002 m^2 @ 50 Pa
Correlation of results, r^2:	0.9974	0.9865
Slope, n:	0.60	0.67
Air Flow Coefficient, C_{env}:	3.50 $m^3.h^{-1}.Pa^{-n}$	2.29 $m^3.h^{-1}.Pa^{-n}$
Intercept, C_L:	3.49 $m^3.h^{-1}.Pa^{-n}$	2.28 $m^3.h^{-1}.Pa^{-n}$

Signed: _____ Name: Peter Williams Position: Engineer

On Behalf of Stroma Technology Ltd.

Airtightness accounts significantly to heat losses



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Howe Park PassivHaus

eco design consultants
Architects & Environmental Consultants

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Director

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Passivhaus Trust MEMBER

DESIGNER
CERTIFIED PASSIVEHOUSE DESIGNER