



Heath House Mill, Heath House Lane, Golcar, Huddersfield HD7 4JW
telephone 01484 461705
fax 01484 653765
email sales@greenbuildingstore.co.uk
web www.greenbuildingstore.co.uk

3 June 2009

Andy Simmonds
57 Portfield Street
Hereford
HR1 2SE

Dear Mr Simmonds,

I enclose the results of our commissioning of your ventilation system.

In co-operation with the German engineer set the ventilation levels such that it is compliant both with Part F of building regulations and Passiv Haus guide lines.

Yours truly,

A handwritten signature in black ink, appearing to read "Andrew Farr".

Andrew Farr



Air Flow Calculation

Project: Portfield Street

Building Volume Internal of Envelope	Floor Area (m ²)	Ceiling Height	Floor Volume
Basement	0	0	0
Ground Floor	53	2.4	127.2
1st Floor	53	2.4	127.2
2nd Floor	30	2.4	72
3rd Floor	0	0	0
4th Floor	0	0	0
5th Floor	0	0	0
Total Floor Area (m²)	136	Tot. Env.Vol. (m³)	326.4

Minimum ventilation level by floor area

28 l/s
100 m³/hr

Minimum ventilation level by bedrooms

Number of bedrooms 3

Min. vent. level by bedrms.

21 l/s
76 m³/hr

Minimum ventilation level by occupancy

Number of dwelling occupants 5

Min. vent. Level by occupancy

25 l/s
90 m³/hr

Whole building minimum low vent. rate	28 l/s 100 m³/hr
--	--

Number of kitchens 1

Number of bathrooms & utility rooms 2

Numbers of toilets 0

Whole building minimum high vent. rate	29 l/s 104 m³/hr
---	--

Project: Portfield Street												
Air distribution balance by rooms					Actual measured figures							
All figures in m3/hr	Before correction		Balanced		Fan Speed 1		Fan Speed 2		Fan Speed 3			
Room type	Supply	Extract	Supply	Extract	Supply	Extract	Supply	Extract	Supply	Extract	Supply	Extract
Level: Ground												
Living room	30				18		30		60			
Dinning room	20				11		20		50			
WC / Utility room		25				14		25		47		
Kitchen		50				32		50		97		
Drying cupboard		15				7		14		29		
Level: First floor												
Bedroom 1	20				11		22		40			
Bedroom 2	20				11		18		43			
Bedroom 3	20				11		20		40			
Bathroom		40				22		40		65		
Landing extract		20				14		20		36		
Level: Second floor												
Loft	40				22		40		65			
Totals:	150	150	0	0	84	89	150	149	298	274	0	0
Percentage balance discrepancy					-5.62		0.67		8.76			

Air Flow Calculation

Project: Portfield Street

Building Volume Internal of Envelope	Floor Area (m ²)	Ceiling Height	Floor Volume
Basement	0	0	0
Ground Floor	53	2.4	127.2
1st Floor	53	2.4	127.2
2nd Floor	30	2.4	72
3rd Floor	0	0	0
4th Floor	0	0	0
5th Floor	0	0	0
Total Floor Area (m²)	136	Tot. Env.Vol. (m³)	326.4

Minimum ventilation level by floor area

28 l/s
100 m³/hr

Minimum ventilation level by bedrooms

Number of bedrooms 3

Min. vent. level by bedrms.

21 l/s
76 m³/hr

Minimum ventilation level by occupancy

Number of dwelling occupants 5

Min. vent. Level by occupancy

25 l/s
90 m³/hr

Whole building minimum low vent. rate	28 l/s 100 m³/hr
--	--

Number of kitchens 1

Number of bathrooms & utility rooms 2

Numbers of toilets 0

Whole building minimum high vent. rate	29 l/s 104 m³/hr
---	--

Project: Portfield Street												
Air distribution balance by rooms					Actual measured figures							
All figures in m3/hr	Before correction		Balanced		Fan Speed 1		Fan Speed 2		Fan Speed 3			
Room type	Supply	Extract	Supply	Extract	Supply	Extract	Supply	Extract	Supply	Extract	Supply	Extract
Level: Ground												
Living room	30				18		30		60			
Dinning room	20				11		20		50			
WC / Utility room		25				14		25		47		
Kitchen		50				32		50		97		
Drying cupboard		15				7		14		29		
Level: First floor												
Bedroom 1	20				11		22		40			
Bedroom 2	20				11		18		43			
Bedroom 3	20				11		20		40			
Bathroom		40				22		40		65		
Landing extract		20				14		20		36		
Level: Second floor												
Loft	40				22		40		65			
Totals:	150	150	0	0	84	89	150	149	298	274	0	0
Percentage balance discrepancy					-5.62		0.67		8.76			