

SUP Table S1. Statistical analysis of temperature, relative humidity and absolute humidity for the control, gold and Passivhaus homes. Source: Authors.

House	Parameter		Winter			Spring			Summer			All		
		Statistical analysis	Bedroom	Kitchen	Living room	Bedroom	Kitchen	Living room	Bedroom	Kitchen	Living room	Bedroom	Kitchen	Living room
Control	Temp (°C)	Min	16.0	16.1	16.2	13.2	16.8	15.6	18.0	18.4	18.3	13.2	16.1	15.6
		Max	23.2	26.0	33.4	26.8	26.5	33.5	26.2	27.1	32.7	26.8	27.1	33.5
		Mean	20.3	21.6	24.7	21.4	21.8	24.7	22.4	22.5	26.3	21.7	22.0	25.3
		SD	1.4	1.9	2.5	1.4	1.6	2.8	1.3	1.3	2.2	1.5	1.6	2.6
	Relative humidity (%RH)	Min	42.7	33.0	27.3	37.6	33.0	24.7	44.5	40.1	32.1	37.6	33.0	24.7
		Max	60.5	61.1	55.2	64.3	65.1	63.8	71.0	73.1	60.0	71.0	73.1	63.8
		Mean	51.8	46.5	43.0	49.9	46.5	42.8	55.2	54.1	47.0	52.3	49.4	44.5
		SD	2.8	3.9	3.7	3.5	4.3	6.5	3.5	3.9	4.4	4.2	5.5	5.8
	Absolute Humidity (g/kg)	Min	6.6	5.7	6.2	5.9	5.6	6.3	8.5	8.0	8.4	5.9	5.6	6.2
		Max	11.6	13.2	13.9	13.9	14.2	14.8	15.4	17.1	16.4	15.4	17.1	16.4
		Mean	9.2	8.9	9.8	9.4	9.0	9.7	11.0	10.8	11.7	10.0	9.7	10.5
		SD	1.0	1.3	1.3	1.2	1.4	1.3	1.2	1.1	1.2	1.4	1.6	1.6
Gold	Temp (°C)	Min	17.4	9.3	15.8	16.0	11.4	16.0	18.8	14.3	18.4	16.0	9.3	15.8
		Max	22.8	24.4	19.8	24.8	27.1	21.9	24.6	27.4	22.2	24.8	27.4	22.2
		Mean	21.3	19.9	18.1	21.3	20.3	18.9	21.8	21.4	20.1	21.5	20.7	19.3
		SD	0.8	2.4	0.7	1.1	2.4	0.9	0.8	2.4	0.6	1.0	2.5	1.0
	Relative humidity (%RH)	Min	38.0	34.3	41.6	35.4	27.7	37.0	40.9	37.3	44.9	35.4	27.7	37.0
		Max	52.5	58.9	61.1	61.1	69.8	67.0	64.8	70.7	68.3	64.8	70.7	68.3
		Mean	45.0	45.7	51.5	45.5	46.9	50.8	53.4	54.4	57.7	48.5	49.7	53.6
		SD	2.5	2.9	3.3	4.4	5.7	4.7	3.2	5.6	3.4	5.4	6.6	5.2
	Absolute Humidity (g/kg)	Min	6.3	4.3	6.1	5.9	4.2	5.9	7.0	6.8	7.4	5.9	4.2	5.9
		Max	10.5	11.9	10.2	13.0	13.5	12.5	13.0	14.1	12.5	13.0	14.1	12.5
		Mean	8.4	7.9	8.0	8.5	8.3	8.3	10.3	10.2	10.0	9.2	9.0	8.9
		SD	0.7	1.2	0.7	1.1	1.5	1.1	0.9	1.2	0.8	1.3	1.6	1.3
Passivhaus	Temp (°C)	Min	18.1	19.8	17.9	18.2	19.3	17.6	17.7	22.6	19.3	17.7	19.3	17.6
		Max	25.8	28.3	25.0	28.6	29.1	27.5	26.7	28.3	26.1	28.6	29.1	27.5
		Mean	22.1	23.2	21.0	22.4	23.5	21.5	22.1	25.2	22.7	22.2	24.1	21.9
		SD	1.1	1.3	1.2	1.5	1.5	1.4	1.4	1.0	1.3	1.4	1.6	1.5
	Relative humidity (%RH)	Min	33.4	33.7	36.4	30.7	28.9	33.0	38.8	38.0	43.4	30.7	28.9	33.0
		Max	54.6	58.7	62.6	63.6	62.8	65.7	68.8	63.6	67.4	68.8	63.6	67.4
		Mean	41.9	40.5	43.6	42.9	41.3	44.6	52.9	46.1	52.9	46.7	43.1	47.7
		SD	3.2	3.4	3.8	5.1	3.9	4.8	4.0	3.2	3.3	6.7	4.4	5.9
	Absolute Humidity (g/kg)	Min	6.6	6.4	6.1	6.1	5.3	5.7	7.3	8.3	8.3	6.1	5.3	5.7
		Max	9.9	14.9	12.1	14.4	16.4	16.1	14.1	16.4	15.7	14.4	16.4	16.1
		Mean	8.2	8.4	8.0	8.6	8.8	8.5	10.3	10.8	10.7	9.2	9.5	9.3
		SD	0.7	1.1	0.9	1.2	1.4	1.4	1.1	1.2	1.1	1.4	1.6	1.7

SUP Table S2. Statistical analysis of IAQ perceptions for summer in the three homes. Source: Authors.

IAQ perceptions	House	Participant	Result	Mean	SD	Mean + SD	Mean -SD	Max	Min
Fresh (1) – Stuffy (7)	SC-CO	A	4	4.67	0.58	5.24	4.09	5	4
		B	5						
		C	5						
	SC-GD	A	1	2	1.41	3.41	0.59	3	1
		B	3						
		C	--						
	SC-PH	A	2	2	0	2	2	2	2
		B	2						
		C	2						
Dry (1) – humid (7)	SC-CO	A	4	4.67	0.58	5.24	4.09	5	4
		B	5						
		C	5						
	SC-GD	A	2	2	0	2	2	2	2
		B	2						
		C	--						
	SC-PH	A	6	5.33	0.58	5.91	4.76	6	5
		B	5						
		C	5						
Still (1) – draughty (7)	SC-CO	A	5	5.33	0.58	5.91	4.76	6	5
		B	5						
		C	6						
	SC-GD	A	2	2	0	2	2	2	2
		B	2						
		C	--						
	SC-PH	A	4	4	0	4	4	4	4
		B	4						
		C	4						
Odourless (1) – smelly (7)	SC-CO	A	4	4	0	4	4	4	4
		B	4						
		C	4						
	SC-GD	A	2	2.5	0.71	3.21	1.79	3	2
		B	3						
		C	--						
	SC-PH	A	1	1.67	0.58	2.24	1.09	2	1
		B	2						
		C	2						
Satisfactory (1) – unsatisfactory (7)	SC-CO	A	2	2.67	0.58	3.24	2.09	3	2
		B	3						
		C	3						
	SC-GD	A	2	2.5	0.71	3.21	1.79	3	2
		B	3						
		C	--						
	SC-PH	A	1	1	0	1	1	1	1
		B	1						
		C	1						

SUP Table S3. Statistical analysis of IAQ perceptions for winter in the three homes. Source: Authors.

IAQ perceptions	House	Participant	Result	Mean	SD	Mean + SD	Mean -SD	Max	Min
Fresh (1) – Stuffy (7)	SC-CO	A	4	5	1	6	4	6	4
		B	5						
		C	6						
	SC-GD	A	1	2	1.41	3.41	0.59	3	1
		B	3						
		C							
	SC-PH	A	2	1.67	0.58	2.24	1.09	2	1
		B	1						
		C	2						
Dry (1) – humid (7)	SC-CO	A	4	4.67	0.58	5.24	4.09	5	4
		B	5						
		C	5						
	SC-GD	A	2	2	0	2	2	2	2
		B	2						
		C	--						
	SC-PH	A	6	5.33	0.58	5.91	4.76	6	5
		B	5						
		C	5						
Still (1) – draughty (7)	SC-CO	A	5	5.33	0.58	5.91	4.76	6	5
		B	5						
		C	6						
	SC-GD	A	2	2	0	2	2	2	2
		B	2						
		C	--						
	SC-PH	A	4	4	0	4	4	4	4
		B	4						
		C	4						
Odourless (1) – smelly (7)	SC-CO	A	4	4	0	4	4	4	4
		B	4						
		C	4						
	SC-GD	A	2	2.5	0.71	3.21	1.79	3	2
		B	3						
		C	--						
	SC-PH	A	1	1.67	0.58	2.24	1.09	2	1
		B	2						
		C	2						
Satisfactory (1) – unsatisfactory (7)	SC-CO	A	2	3	1	4	2	4	2
		B	3						
		C	4						
	SC-GD	A	2	2.5	0.71	3.21	1.79	3	2
		B	3						
		C	--						
	SC-PH	A	1	1	0	1	1	1	1
		B	1						
		C	1						