Retrofit for the Future Final Phase Report ZA521E Appendix 4 PHPP Verification

Passive House Verification

Photo or Drawing									
Filolo di Diawing									
Building:	TSB retrofit for the future property existing property								
Location and Climate:	London GB - Manchester								
Street:	3 Passfield Drive								
Postcode/City:	E14 6QJ London								
Country:	United Kingdom								
Building Type:	Terraced house								
Home Owner(s) / Client(s):	Southern Housing								
Street:	P0 Box 643								
Postcode/City:	West Sussex RH12 1XJ								
Architect:	bere:architects								
Street:	73 Poets Road								
Postcode/City:	N5 2SH London								
Mechanical System:	Chris Twinn - Arup								
Street:	13 Fitzroy Street								
Postcode/City:	W1T 4BQ London								
·									
Year of Construction:	1960's				_				
Number of Dwelling Units:	1		Interior Temperature:	21.0	°C				
Enclosed Volume V _e :	336.5	m ³	Internal Heat Gains:	2.1	W/m²				
Number of Occupants:	3.1	""	monarroa cano.						
Number of Occupants.	3.1								
Specific Demands with Reference to the Treated Floor Area									
Treated Floor Area:	100.6	m ²							
	Applied:	Monthly Method		PH Certificate: Fulfille					
Specific Space Heat Demand:	315	kWh/(m²a)	15	kWh/(m ² a)	No				
Pressurization Test Result:	5.6	h ⁻¹	0.6	h ⁻¹	No				
Specific Primary Energy Demand	E7E	1.3411.11.2.3	400	13411 // 2 5					
(DHW, Heating, Cooling, Auxiliary and Household Electricity):	575	kWh/(m ² a)	120	kWh/(m ² a)	No				
Specific Primary Energy Demand		3							
(DHW, Heating and Auxiliary Electricity):	509	kWh/(m ² a)							
Specific Primary Energy Demand		kWh/(m²a)							
Energy Conservation by Solar Electricity:									
Heating Load:	91	W/m²	_	1					
Frequency of Overheating:	0	%	over 25]°C					
Specific Useful Cooling Energy Demand:		kWh/(m ² a)	15	kWh/(m ² a)					
Cooling Load:	9	W/m ²							
<u> </u>	11		II.						
We confirm that the values given herein have	been			Issued	d on:				
determined following the PHPP methodology a									
on the characteristic values of the building. The	e calculations			sig	ined:				
with PHPP are attached to this application.									

Passive House Verification

	Photo or Drawin	g						
Building:	TSB retrofit for the future property proposed work							
Location and Climate:	London GB-London							
Street:	3 Passfield Drive							
Postcode/City:	E14 6QJ London							
Country:	United Kingdom							
Building Type:	Terraced house							
Home Owner(s) / Client(s):	Southern Housing							
Street:	P0 Box 643							
Postcode/City:	West Sussex RH12 1XJ							
Architect:	bere:architects							
Street:	73 Poets Road							
Postcode/City:	N5 2SH London							
	NO ZON HOMOUN							
Mechanical System:								
Street:								
Postcode/City:								
Year of Construction:	1960's							
Number of Dwelling Units:	1	Ir	nterior Temperature:	20.0	°C			
Enclosed Volume V _e :	352.9 m ³	ı	Internal Heat Gains:	2.1	W/m²			
Number of Occupants:	4.0							
Specific Demands with Reference to the Treated Floor Area								
Treated Floor Area:	82.2 m ²							
	Applied: Annual Me	thod	PH Certificate: Fulfilled			Fulfilled?		
			1					
Specific Space Heat Demand:	25 kWh/(m	⁴ a)	15 kWh/(m²a)			No		
Pressurization Test Result:	1.9 h ⁻¹		0.6 h ⁻¹			No		
Specific Primary Energy Demand (DHW, Heating, Cooling, Auxiliary and Household Electricity):	119 kWh/(m	² a)	120 kWh/(m ² a)			Yes		
Specific Primary Energy Demand (DHW, Heating and Auxiliary Electricity):	58 kWh/(m	² a)						
Specific Primary Energy Demand Energy Conservation by Solar Electricity:	kWh/(m	² a)	1					
Energy Conservation by Solar Electricity: Heating Load:	W/m²		1					
Frequency of Overheating:	0 %		over 25	°C				
		2_\	1 -	1				
Specific Useful Cooling Energy Demand:	kWh/(m	a)	15	kWh/(m ² a)				
Cooling Load:	W/m ²							
We confirm that the values given herein have				Issued	on:			
on the characteristic values of the building. The calculations				sig	ned:			
determined following the PHPP methodology and based				signed:				