Retrofit for the Future Final Phase Report ZA522P Appendix 4 PHPP Verification

Passive House Verification

Photo or Drawing									
					_				
Building:	TSB retrofit for the future property existing property								
Location and Climate: Street:	Hounslow, London GB-London 78 Grove Road								
Postcode/City:	78 Grove Road TW3 3PT London								
Country:	United Kingdom								
Building Type:	Detached house								
Building Type.									
Home Owner(s) / Client(s):	Hounslow Council								
Street:	Lampton Road								
Postcode/City:	TW3 4DN Hounslow								
Architect:	bere:architects								
Street:	73 Poets Road								
Postcode/City:	N5 2SH								
Mechanical System:	Alan Clarke								
Street:	The Woodlands, Woodland Close, Whitecroft								
Postcode/City:	GL15 4PL Lydney								
·		7							
Year of Construction:	1950's								
Number of Dwelling Units:	1		Interior Temperature:	20.0	°C				
Enclosed Volume V _e :	277.9	m ³	Internal Heat Gains:	2.1	W/m²				
Number of Occupants:	2.5		mondi rical Gano.						
Number of Occupants.	2.5	_							
Specific Demands with Reference to the Treated Floor Area	l								
Treated Floor Area:	76.5	m ²							
	Applied:	Monthly Method		PH Certificate: Fulfil					
Specific Space Heat Demand:	442	kWh/(m²a)	15	kWh/(m ² a)	No				
Pressurization Test Result:	6.3	h ⁻¹	0.6 h ⁻¹		No				
Specific Primary Energy Demand	770	LAMIL 11 2 \	400	LAMI- //2->	Na				
(DHW, Heating, Cooling, Auxiliary and Household Electricity):	772	kWh/(m ² a)	120	kWh/(m ² a)	No				
Specific Primary Energy Demand		•	i						
(DHW, Heating and Auxiliary Electricity):	702	kWh/(m ² a)							
Specific Primary Energy Demand		k\Mb//m²a\	1						
Energy Conservation by Solar Electricity:		kWh/(m²a)	4						
Heating Load:		W/m ²		1					
Frequency of Overheating:	0	%	over 25	°C					
Specific Useful Cooling Energy Demand:		kWh/(m²a)	15	kWh/(m ² a)					
Cooling Load:		W/m²							
	1								
We confirm that the values given herein have	been			Issued	d on:				
determined following the PHPP methodology									
on the characteristic values of the building. The				sig	ined:				
with PHPP are attached to this application.									

Passive House Verification

Photo or Drawing										
Building:	TSB retrofit for the future property proposed work									
Location and Climate: Street:	Hounslow, London GB-London 78 Grove Road									
Postcode/City:	78 Grove Road TW3 3PT London									
Country:	United Kingdom									
Building Type:	Detached house									
Home Owner(s) / Client(s):	Hounslow Council									
Street:	Lampton Road									
Postcode/City:	TW3 4DN Hounslow									
Architect:	bere:architects									
Street:	73 Poets Road									
Postcode/City:	N5 2SH									
Mechanical System:	Alan Clarke									
Street:	The Woodlands, Woodland Close, Whitecroft									
Postcode/City:	GL15 4PL Lydney									
Year of Construction:	1950's			Г						
Number of Dwelling Units:	1		Interior Temperature:	20.0	°C					
Enclosed Volume V _e :	353.1	m ³	Internal Heat Gains:	2.1	W/m²					
Number of Occupants:	2.4									
Specific Demands with Reference to the Treated Floor Area										
Treated Floor Area:	76.0	m ²								
	Applied:	Monthly Method		PH Certificate: Fulf						
Specific Space Heat Demand:	28	kWh/(m²a)	15	15 kWh/(m²a)						
Pressurization Test Result:	1.7	h ⁻¹	0.6	0.6 h ⁻¹						
Specific Primary Energy Demand	97	kWh/(m²a)	120	120 kWh/(m²a) Yes						
(DHW, Heating, Cooling, Auxiliary and Household Electricity):	<u> </u>		120	(iii a)		. 30				
Specific Primary Energy Demand (DHW, Heating and Auxiliary Electricity):	56	kWh/(m²a)								
Specific Primary Energy Demand										
Energy Conservation by Solar Electricity:		kWh/(m²a)								
Heating Load:	45	W/m²	over 25	l.c						
Frequency of Overheating:	15	%		°C	F					
Specific Useful Cooling Energy Demand:		kWh/(m²a)	15	kWh/(m ² a)	L					
Cooling Load:		W/m²								
We confirm that the values given herein have	hoon			loour	nd on:					
We confirm that the values given herein have been Issued on: determined following the PHPP methodology and based										
on the characteristic values of the building. The				si	igned:					