

Date: 23rd February 2021

We have completed our Development Application stage Passive House certification assessment of the proposed dwelling to be constructed at:

34 Lumeah Avenue, Elanora Heights

I hereby attest that I have performed a preliminary assessment of the above project based upon the document list below. If constructed as documented and if an air tightness result of 0.6ACH50 is achieved, then the building can meet the Passive House standard.

Please note that certification will only be granted if the building is realised according to the design parameters given in the documents and PHPP calculation including achieving an air tightness result of 0.6ACH50 or less.

Changes to proposed insulation levels, glazing and window frame performance may compromise the energy balance / results of the project.

The following key documents were reviewed as part of the assessment:

Drawing number	Drawing name	Date	Revision
A3 11.03	PROPOSED SITE PLAN	23-02-2021	Α
A3 21.01	GARAGE PLAN	23-02-2021	Α
A3 21.02	GROUND FLOOR PLAN	23-02-2021	Α
A3 21.03	ROOF PLAN	23-02-2021	A
A3 70.01	WINDOW SCHEUDLE	23-02-2021	A





The performance specifications are summarised here:

Building assembly overview	Average U- value [W/(m²K)]
North windows	1.358
East windows	1.301
South windows	1.315
West windows	1.439
Horizontal windows	
Exterior door	
External wall - Ambient	0.272
External wall - Ground	
Roof/Ceiling - Ambient	0.209
Floor slab / Basement ceiling	6.774

The expected final Passive House results of the completed building are outlined below:

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					Building:	35		-ll-		
					Postcode/City:					
						<u> </u>				
					ud01-AU0011a-Sydney					
				Climate zone:		~~~~~~~~~	Altitude of location:	78 m		
				Home owner / Client:	Antie & Markus					
					Street:					
				Postcode/City:						
					Province/Country:		L			
Anabitantuna	Envirotecture				Machanian andress.					
	48 Kalang Road			Mechanical engineer: Street:						
Postcode/City:				Postcode/City:	<u> </u>					
Province/Country:					Province/Country:					
·				-						
Energy consultancy:				Certification:						
	48 Kalang Road			Street:						
Postcode/City:		Elanora Heights	•		Postcode/City:		L	T		
Province/Country:	NOW				Province/Country:			-		
Year of construction:	2021				erior temperature winter [°C]:	20.0		. summer [°C]:	25.0	
No. of dwelling units:	1				s (IHG) heating case [W/m²]:	2.3	IHG cooling case [W/m²]:		3.8	
No. of occupants:	3.1			Specific	capacity [Wh/K per m² TFA]:	60	Mech	anical cooling:	X	
pecific building characteristic	s with reference to	the treated floor a	rea							
	Treated floor area m²						Alternative			
			m²	202.5		Criteria	criteria		Fullfilled?2	
Space heating		Heating demand	kWh/(m²a)	14	≤	15	-			
		Heating load	W/m²	13	≤	-	10		yes	
Space cooling	Cooling &	dehum. demand	kWh/(m²a)	7	<b>S</b>	17	17			
Space cooling		Cooling load	. ,	16	<u> </u>		10		yes	
Space cooling							10			
		Frequency of overheating (> 25 °C) %		-	≤	-		ļ	•	
Fre		- , ,							yes	
		- , ,	%	0	≤	10		<u> </u>		
Fre	essively high hun	- , ,		0.6	<u>s</u>	0.6			yes	
Frequency of exce	Pressurization	midity (> 12 g/kg)	1/h						yes -	
Frequency of exce Airtightness Non-renewable Primary E	Pressurization	midity (> 12 g/kg) on test result n <sub>50</sub>	1/h kWh/(m²a)	0.6	<b>S</b>	0.6	_		yes -	
Frequency of exce	Pressurization  Pressurization  Pressurization  Pressurization  Pressurization  Pressurization  Pressurization  Pressurization  In relation of n	on test result n <sub>50</sub> PE demand	1/h kWh/(m²a) kWh/(m²a)	0.6	<b>S</b>	0.6	-		yes - yes	

Best regards,

Andy Marlow Certified Passive House Designer

Halflala

