Assessor Certificate

Multiple Dwellings

Assessed and issued in accordance with the BASIX
Thermal Comfort Protocol for the Simulation Method

Date:	15/3/18	Assessment Number: 0000051121	
Assessor:	**Michael Young**	**Certificate IV NatHERS**	

Declaration of interest in the project design:	Design advice provided to achieve compliance		
Project			
Address:	Lot 3008 Lord Sheffield Circuit, Penrith		
Assessment		**Climate Zone:**	28
Software:	Bers Pro v4.3.0.2b		
Documentation			

All details, upon which this assessment has been based, are included in the project documentation that has been stamped and signed by the assessor issuing this declaration, as identified below:

Class 2 Building

Assessment	0000051121
Date	8/03/18
Assessor	Michael Young
Qualification	Certificate IV NatHERS
Signature	

Average - HEATING:	46.0 MJ/m2 pa
Average - COOLING:	43.1 MJ/m2 pa
Averaged Rating:	89.1 MJ/m2 pa

Project Average

6.0★

Drawings used for the preliminary assessment:

DKO, Project 11749, Rev A

Thermal Performance Specifications

Thermal performance specifications	Assessment#	0000051121			
Unit No.	Floor Areas		Predict. Loads (MJ/M2/y)		Star Rating	Comments:
	Cond	Uncond	Heat	Cool		
301	71.5	4.6	38.5	58.1	5.6	
302	73.2	4.9	56.8	40.8	5.6	Double Glazed
303	44.4	4.4	62.4	53.0	4.9	
304	49.3	4.5	50.6	41.8	5.8	
305	70.7	5.1	45.0	31.8	6.5	
306	75.3	4.7	26.5	46.1	6.7	
307	75.7	4.9	29.0	45.9	6.6	
308	74.5	5.3	26.0	57.8	6.2	
401	71.5	4.6	41.3	47.1	5.9	
402	73.2	4.9	63.1	32.1	5.7	Double Glazed
403	44.4	4.4	54.6	48.8	5.4	Double Glazed
404	49.3	4.5	53.8	37.3	5.9	
405	70.7	5.1	48.2	30.0	6.4	
406	75.3	4.7	36.2	49.3	6.1	
407	75.7	4.9	31.7	42.1	6.7	
408	74.5	5.3	28.0	37.8	7.0	
501	71.5	4.6	57.1	33.4	5.9	

502	73.2	4.9	62.6	32.1	5.7	Double Glazed
503	44.4	4.4	58.9	50.7	5.1	Double Glazed
504	49.3	4.5	54.3	37.0	5.9	
505	70.7	5.1	43.2	41.3	6.2	
506	75.3	4.7	36.7	48.7	6.1	
507	75.7	4.9	32.2	41.8	6.7	
508	74.5	5.3	37.6	32.5	6.9	
601	71.5	4.6	57.5	34.7	5.8	
602	73.2	4.9	61.8	37.9	5.4	Double Glazed
603	44.4	4.4	59.3	50.3	5.1	Double Glazed
604	49.3	4.5	38.3	61.4	5.4	
605	70.7	5.1	43.6	40.7	6.2	
606	75.3	4.7	36.9	47.9	6.2	
607	75.7	4.9	32.5	41.6	6.7	
608	74.5	5.3	42.6	24.3	6.9	
701	71.5	4.6	44.3	42.9	5.9	
702	73.2	4.9	62.1	36.5	5.5	Double Glazed
703	44.4	4.4	54.7	56.7	5.0	Double Glazed
704	49.3	4.5	49.9	37.8	5.9	
705	70.7	5.1	44.0	40.6	6.2	
706	75.3	4.7	29.3	42.1	6.8	
707	75.7	4.9	26.8	45.3	6.8	
708	74.5	5.3	28.2	40.7	6.9	
801	71.5	4.6	60.6	48.3	5.2	
802	73.2	4.9	61.6	25.9	5.9	Fiberglass Argon Double Glazed
803	44.4	4.4	59.3	52.0	5.1	Low-e Argon Double Glazed
804	49.3	4.5	50.2	60.1	5.1	Low-e Double Glazed
805	70.7	5.1	58.6	36.9	5.7	Double Glazed
806	75.3	4.7	46.4	47.4	5.8	
807	75.7	4.9	42.4	50.7	5.8	
808	74.5	5.3	41.0	49.9	5.9	

15/3/2018 **File Ref: 0000051121**

Important Note for Development Applicants

The following specification was used to achieve the thermal performance values indicated on the assessor declaration form. If they vary from the drawings or other specifications this Specification shall take precedence. If only one specification option is detailed for a building element, that specification must apply to all instances of that element for the whole project. If alternate specifications are detailed, the location and extent of the alternate specification must be detailed below and/or clearly indicated on reference documentation.

Once the development is approved by the consent authority, these specifications will become a condition of consent and must be included in the built works.

This assessment has assumed that the NCC provisions for building sealing will be complied with at construction. No loss of insulation arising from ceiling penetrations has been simulated.

Class 2 Building

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6.0★

Thermal performance specifications

External wall Construction	Insulation	Colour
Brick veneer	R1.5	Medium

Internal wall Construction	Insulation
Plasterboard / Shafliner to fire walls	R1.5 to fire walls

Ceiling Construction	Insulation
Plasterboard	R3.0 to level 8 units

Roof Construction	Insulation	Colour
Suspended slab	Nil	Light

Floor Construction	Insulation
Suspended slab	Nil

Windows	Glass & frame type	Max total U-Value	SHGC
Generic	Low-e, Aluminium	5.4	0.49
Unit 302, 402, 403, 502, 503, 602, 603, 702, 703, 805	Double glazed, Aluminium	4.8	0.59
Unit 804	Low-e double glazed, Aluminium	4.9	0.53
Unit 803	Low-e argon double glazed, aluminum	4.1	0.52
Unit 802	Argon double glazed, fibreglass	2.6	0.53

External window cover

As drawn

Fixed shading- Eaves **Width includes guttering, offset is distance above windows**

Width: as drawn Offset: as drawn

Fixed shading- Other **Verandahs, Pergolas (type & description)**

Shaded areas & devices as drawn

For construction in NSW the NCC Vol 1 & 2 must be complied with regarding class 2 building, in particular the following:

- Thermal construction in accordance with Vol 1 section J1.2 or Vol 2 part 3.12.1.1
- Thermal breaks in accordance with section J1.3(d) & 1.5(c) or part 3.12.1.2(c) & 3.12.1.4(b)
- Compensation for loss of ceiling insulation in accordance with section J1.3(C) or Part 3.12.1.2(e)
- Floor insulation in accordance with Section J1.6(c) &(d) or Part 3.12.1.5(a)(ii) or (c) & (d)
- Building sealing in accordance with Section J3 or Part 3.12.3.1 to 3.12.3.6