## **Assessor Certificate**

## **Multiple Dwellings**

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

Date:	21 September 202	BSA File ref:	12691
Assessor			
Name:	Gavin Chambers	Company: Building Sustainability Assessments Assessor #: [	DMN/13/1491
Address:	7 William Street, ⊦	IAMILTON NSW 2303	
Phone:	(02) 4962 3439	Email: enquiries@buildingsustaina	ability.net.au
Declaration	of interest in the p	roject design: None	
Project			
Address:	118 Cary Street		
	TORONTO NSW	2283 Climate Zor	<b>15</b>
Assessmer	nt		
Software:	BERS Pro 4.4	Ceiling fans used in the modelling: Living areas: None, Bedrooms: None	
Documenta	tion		

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 certificate, as identified below:

## Drawings used for this assessment:

(Title, Ref.#, Revision, Issue date, etc)

Mark Lawler Architects dwg no. 1588 DD 07.09.2021 L

Thermal Performance Specification (copy on page 2)

Attached to the drawings and is on page: 1-06

Thermal performance specifications					tificate #	0005808700	Page 1 of 5
Unit No.	Floor Areas		Predict. loads (MJ/M²/y)		Star		Basix Floor Type and Area m <sup>2</sup>
	Cond.	Uncond.	Heat	Cool	Rating		
A001	89	0	47	33	5.3		
A002	62	0	60	20	5.4		
A003	64	0	54	25	5.4		
A004	96	0	28	32	6.4		
A005	70	0	40	29	5.9		
A006	82	0	24	36	6.4		
A007	82	0	42	35	5.4		
A008	78	0	22	34	6.7		
A009	59	0	61	33	4.7		
A010	83	0	45	22	5.9		
A011	83	0	23	26	7.1		
A012	77	0	52	22	5.6		
A101	108	0	44	33	5.4		
A102	62	0	52	20	5.8		
A103	64	0	44	25	5.9		

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NSW, 2283

hstar.com.au





September 202	1		BSA Refe	erence: 12691
<b>Building Susta</b>	ainability Assessments		Ph: (02	2) 4962 3439
enquiries@bui	ildingsustainability.net.au	www. bu	uildingsustaina	bility.net.au
the Assessor Ce	Important Not ecification was used to achieve the rtificate and takes precedence ove ruction elements are applied then t	thermal pe r any other	specification.	
	rmal Performance Specifications	does no	ot apply to garage	e)
External Wall C			Ac	lded Insulation
AAC 75mm Ver	neer			R2.0
Internal Wall Co	onstruction		Ac	ded Insulation
Plasterboard or	studs (internal to units)			None
Plasterboard+st	tuds+shaft liner+studs+Plasterboa	rd (party & o	common walls)	R2.0 + R2.0
Concrete + plas	sterboard (walls adjacent to lift & st	air wells)		R1.0
Ceiling Constru	ction		Aa	lded Insulation
Plasterboard	R3.5 to ceiling	gs adjacent	to roof space and	d decks above
Roof Construct	i <b>on</b> Colour		Ad	ded Insulation
Concrete	Any			None
Floor Construct	0			Ided Insulation
Concrete	As drawn R1.0 to units A1	09, C106, C	C107 & C108 only	(open below)
Windows	Glass and frame type	U Value	SHGC Range	Area sq m
ALM-001-01 A	Aluminium Type A Single clear	6.70	0.51 - 0.63	As drawn
ALM-002-01 A	Aluminium Type B Single clear	6.70	0.63 - 0.77	As drawn
Type A windows a	re awning windows, bifolds, casements	, tilt 'n 'turn' w	vindows, entry doors	s, french doors
Type B windows a	re double hung windows, sliding windov	vs & doors, fi	ixed windows, stack	er doors, louvres
Skylights	Glass and frame type	U Val	ue SHGC	Area sq m
	lues are according to AFRC. Altern SHGC is within the range specifie		ts may be used if	the U value
External Window	w Shading (eaves, vera	andahs, per	golas, awnings et	c)
	nts modelled as drawn	× 1		,
Ceiling Penetrat	tions (downlights,	exhaust fa	ns, flues etc)	
	as been made for losses to insulat			rations.

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Unit No.	Floor Areas			Predict. loads (MJ/M²/y)		Basix Floor Type and Area m <sup>2</sup>
	Cond.	Uncond.	Heat	Cool	Rating	
A104	96	0	21	33	6.8	
A105	78	0	35	32	6.0	
A106	82	0	17	36	6.8	
A107	82	0	36	35	5.8	
A108	78	0	18	36	6.8	
A109	65	0	43	30	5.7	
A110	78	0	16	35	6.9	
A111	83	0	35	30	6.2	
A112	83	0	18	33	6.9	
A113	77	0	43	27	5.9	
A201	108	0	46	34	5.4	
A202	62	0	54	20	5.7	
A203	64	0	47	24	5.9	
A204	96	0	22	32	6.8	
A205	78	0	36	31	5.9	
A206	82	0	27	33	6.4	005808700 118 CAR 1005
A207	82	0	38	36	5.6	0005808700 21 Sep 2021
A208	78	0	19	35	6.8	6.1 Assessor Gavin Chambers
A209	108	0	44	22	6.1	Accreditation No. DMV13/1491
A210	98	0	47	29	5.5	star rating 118 Cary Street, Toronto,
A211	78	0	17	34	6.9	NSW, 2283
A212	83	0	36	29	6.1	www.nathers.gov.au hstar.com.au
A213	83	0	19	32	6.9	005808700 118 CAR1005
A214	77	0	44	27	5.8	
A301	98	6	39	30	5.9	
A302	76	0	40	16	6.7	
A303	110	0	24	22	7.2	
A304	78	0	38	31	5.9	
A305	82	0	28	32	6.4	
A306	82	0	39	36	5.6	
A307	78	0	20	33	6.8	
A308	108	0	46	21	6.0	
A309	98	0	49	29	5.4	
A310	78	0	18	34	6.9	
A311	83	0	38	28	6.1	
A312	83	0	20	32	6.9	
A313	77	0	46	27	5.8	
A401	98	6	51	30	5.3	
A402	76	0	52	18	5.9	
A403	110	0	37	23	6.4	
A404	78	0	52	29	5.3	
A405	82	0	38	33	5.8	
A406	82	0	54	33	4.9	
A407	78	0	34	30	6.2	

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Unit No.	Floor Areas			Predict. loads (MJ/M²/y)		Basix Floor Type and Area m <sup>2</sup>
	Cond.	Uncond.	Heat	Cool	Rating	
A408	108	0	46	20	6.1	
A409	98	0	49	28	5.4	
A410	78	0	31	31	6.3	
A411	83	0	50	27	5.4	
A412	83	0	33	29	6.4	
A413	77	0	57	26	5.2	
C101	107	0	29	32	6.4	
C102	73	0	58	36	4.7	
C103	78	0	18	36	6.8	
C104	72	0	45	32	5.4	
C105	78	0	18	36	6.8	
C106	97	0	46	21	5.9	005808700 118 CAD 005
C107	77	0	43	18	6.4	0005808700 21 Sep 2021
C108	33	0	45	32	5.4	Assessor Gavin Chambers
C109	78	0	19	30	7.1	Accreditation No. DMN/13/1491 Average Address
C110	83	0	35	30	6.2	star rating 118 Cary Street, Toronto,
C111	83	0	18	33	6.9	NSW, 2283
C201	107	0	30	31	6.4	www.nathers.gov.au hstar.com.au
C202	73	0	59	36	4.7	
C203	78	0	19	36	6.8	T
C204	72	0	46	31	5.4	
C205	78	0	19	36	6.8	
C206	97	0	17	22	7.7	
C207	77	0	21	19	7.6	
C208	33	0	39	36	5.6	
C209	78	0	15	31	7.3	
C210	83	0	36	29	6.1	
C211	83	0	19	32	6.9	
C301	107	0	31	30	6.3	
C302	73	0	61	35	4.6	
C303	78	0	21	34	6.7	
C304	72	0	49	30	5.4	
C305	78	0	21	34	6.7	
C306	97	0	21	22	7.4	
C307	77	0	22	20	7.5	
C308	33	0	41	35	5.4	
C309	78	0	16	30	7.3	
C310	83	0	38	28	6.1	
C311	83	0	20	32	6.9	
C401	107	0	43	29	5.8	
C402	74	0	57	34	4.8	
C403	59	0	45	23	5.9	
C404	59	0	51	24	5.6	
C405	79	0	45	26	5.9	

<sup>7</sup> William Street HAMILTON NSW 2303 P 02 4962 3439 E enquiries@buildingsustainability.net.au W www. buildingsustainability.net.au House Energy Ratings & Thermal Performance Assessments, BASIX Certificates,

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Unit No.	Floor Areas			Predict. loads (MJ/M²/y)		Basix Floor Type and Area m <sup>2</sup>	and Area m <sup>2</sup>
	Cond.	Uncond.	Heat	Cool	Rating		
C406	101	0	35	22	6.6		
C407	102	0	24	18	7.4		
C408	78	0	28	29	6.6		
C409	83	0	50	27	5.4		
C410	83	0	33	29	6.4		
Ave start NATIO HEECYAN WWW.nath	As Ac Ad ating	005808700 sessor Gavin ccreditation No. Idress 8 Cary Street , SW , 2283	Chambers DMIV13/149 Toronto,				