Schedule of BASIX commitments				(iii) Thermal Comfort	
The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any develop development certificate issued, for the proposed development, that BASIX commitments be complied with.	ment conser	nt granted, or complyir	ng	(d) The applicant must sho which the Thermal Cor the Accredited Assess	mfort Prot
1. Commitments for Residential flat buildings - 23-25 Charles				(e) The applicant must sho certificate, if applicable	ow on the e), all theri
(a) Dwellings				development which we (f) The applicant must con	struct the
(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check	Certificate, and in acco certificate which were ((g) Where there is an in-sla	used to ca
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling				(aa) Install insulatio	
 in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table). (c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that 	~	· ·		(bb) On a suspende edges of the p	
 (c) If a rating is specified in the table below for a fixture of appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it. (d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, 		 	~	(h) The applicant must cor below.	
 (a) The applicant must install all of domains net water residuation system where indicated for a dwelling in the "HW recirculation or diversion" column of the table below. (e) The applicant must install: 		~	~	(i) The applicant must sho ceiling fans set out in th	he Asses
(aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and		~	~	(j) The applicant must show certificate, if applicable	w on the e), the loca
(bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		v	~		
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	~	~		Dwelling no.	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).(g) The pool or spa must be located as specified in the table.		~		2	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in	~	`		3 4	
the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified. Fixtures Appliances Individual pool	~	Individual	sna	5	
Dwelling no. All toilet All kitchen All bathroom HW recirculation All clothes Volume washers Pool (max Pool cover	Pool	Volume Spa	Spa shaded	7	
All 4 star (> 4 star 5 star 5 star no - 4 star - - -	-	volume)	-	Dwelling no.	
dwellings 6 but <= 7.5 L/min)				8 9	
				10 11	
Alternative water source	Lour	deu Dool	She tan un	12 13	
Dwelling no. Alternative water supply systems Size Configuration Landscape connection Toilet connection	ction conne	dry Pool ection top-up	Spa top-up	14	
None	-	-	-	15 - 16	
(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check	- 17 18	
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is				19 20	
supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	~	~	~	21	
 (c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table. 		 	~	All other dwellings (b) Common areas and c	ontral s
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in		 	~		
any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.				(i) Water (a) If, in carrying out the de	evelopme
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is		~	~	(b) The applicant must inst	ecification tall (or en
specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.	04		Quatifian	"Central systems" colu specified in the table.	
(ii) Energy (f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of	Show on DA plans	Show on CC/CDC plans & specs	Certifier check	(c) A swimming pool or spatiable.(d) A pool or spa listed in t	
the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	`	×	~	(e) The applicant must inst	
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install				(f) The applicant must ens	ure that th
 any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump. 		L Č			
 (h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the 		T			heads rat
(a) the kitchen cook-top and over specified for that dwelling in the "Appliances & other efficiency measures" column of the (bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of		~		All common no comm areas	non facility
the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.			~	(ii) Energy	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		Ĵ		(a) If, in carrying out the de below, then that ventila	
				specified.(b) In carrying out the development	elopment,
Hot water Bathroom ventilation system Kitchen ventilation system		aundry ventilation sys		specified in the table b The applicant must als where specified.	
Dwelling no.Hot water systemEach bathroomOperation controlEach kitchenOperation controlAllgas instantaneous 5.5individual fan, ductedinterlocked to lightindividual fan, ductedmanual switch on/off	Each laun		n control witch on/off	(c) The applicant must inst case, the system or fix	
dwellings star to façade or roof Cooling Heating	to façade o	or roof	ral lighting	Common area	Venti
Dwelling living areas bedroom living areas bedroom No. of No. of Each All no. areas bedrooms areas bedrooms bedrooms living &/or kitchen bathrooms	Each aundry		Main Main kitcher	r Car park area	no me
1, 3, 4,1-phase-1-phase-21yesyes	Nes	&/or toilets		Lift car (No.1)	-
5, 7, 8,airconditioningairconditioning9, 11,1 star1 star	yes	yes 0	no	Service room Pump Room	ventil exha
12, 22, 23(average zone)(average zone)(average zone)(average zone)All1-phase-11yesyes	yes	yes 0	no	WC (G/F)	ventil
other airconditioning airconditioning dwellings 1 star 1 star (average (average) (average)	,			WC (Roof) Ground floor lobby	ventil no me
zone) zone)				Hallway/Lobby (L1-L7)	no me
Individual pool Individual spa Appliances & other efficier	ncy measures	6		Stairs	no me
no. system system cooktop/oven ventilated v	Clothes Clo washer dry	yer sheltered	Private outdoor or		_
fridge space		drying line	unsheltered clothes drying line	Central energy systems Lift (No. 1)	
All dwellings electric cooktop & - no 2.5 star -	. 1.5		no		
electric oven					
(iii) Thermal Comfort	Show on	Show on CC/CDC	Certifier]	
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if	DA plans	plans & specs	check	-	
the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.				_	
 (b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol. (c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX 				-	
Certificate, including the details shown in the "Thermal Loads" table below.					

		Show on DA plans	Show on CC/CDC plans & specs	Certifier check	4. Commitme	ents for common are	as and central system	s/facilities for the development (non-bui	Iding speci	ific)	
n the plans accompanying the development application for the p Protocol requires to be shown on those plans. Those plans mu certify that this is the case.	proposed development, all matters ust bear a stamp of endorsement from	~				eas and central systems	/facilities				
the plans accompanying the application for a construction cer thermal performance specifications set out in the Assessor Ce	tificate (or complying development		~		(i) Water				Show on DA plans	Show on CC/CDC plans & specs	Certifie check
sed to calculate those specifications.						g out the development, the a neet the specifications listed		toilet, tap or clothes washer into a common area, then tha	.t		
t the development in accordance with all thermal performance ce with those aspects of the development application or applica- to calculate those specifications.	specifications set out in the Assessor ation for a complying development		~	~	(b) The applica	nt must install (or ensure tha stems" column of the table be	t the development is serviced by	 the alternative water supply system(s) specified in the nust be sized, be configured, and be connected, as 	~	~	
eating or cooling system, the applicant must:		~	 	~			e must not have a volume (in kL	s) greater than that specified for the pool or spa in the		~	
th an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or por, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical eter of the slab.					(d) A pool or sp	a listed in the table must hav	e a cover or shading if specified	I for the pool or spa in the table.		~	
ct the floors and walls of the development in accordance with the	ne specifications listed in the table		_		(e) The applica	nt must install each fire sprir	kler system listed in the table so	that the system is configured as specified in the table.		~	~
the plans accompanying the development application for the p ssessor Certificate.	proposed development, the locations of	· ·			(f) The applicar	it must ensure that the centr	al cooling system for a cooling to	ower is configured as specified in the table.		v	~
the plans accompanying the application for a construction cert e locations of ceiling fans set out in the Assessor Certificate.	ificate (or complying development		~								
rocations of centing rans set out in the Assessor Centincate.					Common area	Showerheads rating	Toilets rating	Taps rating C	Clothes washer	rs rating	
	Thermal loads				All common areas	no common facility	4 star	5 star 4	1 star		
Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooli	ing load (in m.	l/m²/vr)								
61.4	35.8				(ii) Energy				Show on DA plans	Show on CC/CDC plans & specs	Certifie check
62.3	16.4				(a) If, in carryin	g out the development, the a	pplicant installs a ventilation sys	stem to service a common area specified in the table			
42.7 36.7	16.7 28.1				specified.	that ventilation system must	be of the type specified for that	common area, and must meet the efficiency measure		•	•
50.4	27.2							ry type of artificial lighting" for each common area			
53.4	21.5							This lighting must meet the efficiency measure specified. uilding Management System (BMS) for the common area,		· · ·	
29.0	17.4				where spec						
	Thermal loads						nd fixtures specified in the "Cen e type, and meet the specification	tral energy systems" column of the table below. In each	_	U U	- U
Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooli	ing load (in m	1/m²/yr)							· · ·	
		ng load (in ins			Central energy	systems	Туре	Specification			

Legend

Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)						
		Central energy systems	Туре	Spec			
27.2	28.1	Alternative energy supply	Photovoltaic system	Rate			
58.7	33.9			rate			
59.5	24.1	Notes					
45.2	18.6						
30.1	25.0	1. In these commitments, "applicant	" means the person carrying out the	developme			
34.0	21.0	2. The applicant must identify each					
22.5	27.0		e application for a construction certifi elling, building or common area in thi				
22.0	38.9	3. This note applies if the proposed					
31.5	21.6	residential and non-residential p	urposes). Commitments in this certif				
21.5	27.9	the building or development to b					
22.2	39.1	 4. If this certificate lists a central sys system need only be installed or 	stem as a commitment for a dwelling				
30.4	21.7	5. If a star or other rating is specified	d in a commitment, this is a minimun	n rating.			
20.7	28.6	6. All alternative water systems to b					
23.3	39.0	NSW Health does not recommen human consumption in areas wit	nd that stormwater, recycled water o th potable water supply.	r private da			
61.9	27.0						

37.3 systems/facilities

	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
oment, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that tions listed for it in the table.		~	v
r ensure that the development is serviced by) the alternative water supply system(s) specified in the the table below. In each case, the system must be sized, be configured, and be connected, as	~	~	~
d in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the	~	~	
ble must have a cover or shading if specified for the pool or spa in the table.		~	
ch fire sprinkler system listed in the table so that the system is configured as specified in the table.		~	v
at the central cooling system for a cooling tower is configured as specified in the table.		~	v

34.6

				_		_	
-	oilets rating	Taps rating	othes washers rating				
ility 4	star	5 star	4 s	tar			
				Show on DA plans	Show on CC/CDC plans & specs	Certifier check	
	Ills a ventilation system to service a e specified for that common area, a				~	~	
he lighting specified for	nstall, as the "primary type of artifici that common area. This lighting mu control system or Building Manager	st meet the efficiency measure	specified.		~	~	
	ecified in the "Central energy syste neet the specifications, listed for it in		In each	~	~	~	
Common are	a ventilation system		Comm	on area lighti	ing		
ntilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting measure	efficiency	Lighting con system/BMS	trol	
mechanical ventilation	-	compact fluorescent	daylight s sensor	ensor and mo	tion No		
	-	light-emitting diode	connecte	d to lift call but	tton No		
mechanical ventilation	-	compact fluorescent	manual o	n / manual off	No		
ntilation (supply + haust)	thermostatically controlled	compact fluorescent	manual o	n / manual off	No		
ntilation exhaust only	time clock or BMS controlled	light-emitting diode	motion se	ensors	No		
ntilation exhaust only	time clock or BMS controlled	light-emitting diode	motion se	ensors	No		
mechanical ventilation	-	light-emitting diode	daylight s sensor	ensor and mo	tion No		
mechanical ventilation	-	light-emitting diode	daylight s sensor	ensor and mo	tion No		
mechanical ventilation	-	compact fluorescent	motion se	ensors	No		

1. Commitments identified with a " 🥑 " in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development). 2. Commitments identified with a " y " in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction

- certificate / complying development certificate for the proposed development.
- it is required to monitor in relation to the building or part, has been fulfilled).

	Multiple Dw	ertificat	e		tay smi				
	Non-Regulatory I	Document		ENERGY RATING SCHEME	consulti				
Assessor									
	Raymond Sleiman	Company: Ta	aylor Smith Consul	tina D	MN #: 12/1472				
	PO Box 5044 Kingsden								
	02 9890 8002		Email: rsleima	n@taylorsmith.co	m.au				
Client									
	Michael Trinh		Company	: iDraft Group Pty	v Ltd				
Address:	Unit 43, 2 Slough Aven	ue, Silverwater NSV			,				
	02 9648 8848			el@idraft.com.au					
Project									
-	23-25 Charles St, Liver	Dool NSW 2170							
	Hume Community Hous		LGA: Liverpo	l					
Assessment	,	0							
	2/2020 File ref: 2020	0410 Software:	AccuRate Ve	rsion: 2.4.3.21	Climate Zone:				
Documentatio									
Assessor Ce		essor # 12/1472		005484000	ssued: 09/12/20				
_		Thermal performance specifications Page 1 of 2							
				•					
Unit number		area (M ²)	Predict. Ic	ads (MJ/M ² /y)	Star Rating				
Unit numbe		area (M²) Uncond.	Predict. Id Heat	oads (MJ/M²/y) Cool (Sens & Lat)	Star Rating				
Unit number	r(s)	1		Cool	Star Rating				
	r(s) Cond.	Uncond.	Heat	Cool (Sens & Lat)	Star Rating				
1	r(s) Cond. 69.2	Uncond. 0.0	Heat 61.4	Cool (Sens & Lat) 35.8	5.6				
1 2	r(s) Cond. 69.2 48.6	Uncond. 0.0 0.0	Heat 61.4 62.3	Cool (Sens & Lat) 35.8 16.4	5.6				
1 2 3 4	r(s) Cond. 69.2 48.6 68.9 68.3	Uncond. 0.0 0.0 0.0 0.0 0.0	Heat 61.4 62.3 42.7 36.7	Cool (Sens & Lat) 35.8 16.4 16.7 28.1	5.6 6.4 7.3 7.1				
1 2 3	r(s) Cond. 69.2 48.6 68.9 68.3 69.2	Uncond. 0.0 0.0 0.0 0.0 0.0	Heat 61.4 62.3 42.7 36.7 50.4	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2	5.6 6.4 7.3 7.1 5.9				
1 2 3 4 5 6	r(s) Cond. 69.2 48.6 68.9 68.3 69.2 48.6	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Heat 61.4 62.3 42.7 36.7 50.4 53.4	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5	5.6 6.4 7.3 7.1 5.9 6.6				
1 2 3 4 5	r(s) Cond. 69.2 48.6 68.9 68.3 69.2 48.6 68.9	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Heat 61.4 62.3 42.7 36.7 50.4 53.4 29.0	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5 17.4	5.6 6.4 7.3 7.1 5.9 6.6 7.9				
1 2 3 4 5 6 7 8	r(s) Cond. 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.9 68.3	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Heat 61.4 62.3 42.7 36.7 50.4 53.4 29.0 27.2	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5 17.4 28.1	5.6 6.4 7.3 7.1 5.9 6.6 7.9 7.4				
1 2 3 4 5 6 7 8 9	r(s) Cond. 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.9 68.3 68.9 68.3 68.3	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Heat 61.4 62.3 42.7 36.7 50.4 53.4 29.0 27.2 63.2	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5 17.4 28.1 43.8	5.6 6.4 7.3 7.1 5.9 6.6 7.9 7.4 5.2				
1 2 3 4 5 6 7 8 9 10	r(s) Cond. 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 68.9 68.3 69.2 48.6 68.9 68.3	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Heat 61.4 62.3 42.7 36.7 50.4 53.4 29.0 27.2 63.2 59.5	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5 17.4 28.1 43.8 24.1	5.6 6.4 7.3 7.1 5.9 6.6 7.9 7.4 5.2 6.2				
1 2 3 4 5 6 6 7 8 9 9 10 11	r(s) Cond. 69.2 48.6 68.3 69.2 48.6 68.3 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 69.2 48.6 68.9	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Heat 61.4 62.3 42.7 36.7 50.4 53.4 29.0 27.2 63.2 59.5 45.1	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5 17.4 28.1 43.8 24.1 18.6	5.6 6.4 7.3 7.1 5.9 6.6 7.9 7.4 5.2 6.2 7.1				
1 2 3 4 5 6 7 8 9 10 11 11 12	r(s) Cond. 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Heat 61.4 62.3 42.7 36.7 50.4 53.4 29.0 27.2 63.2 59.5 45.1 30.1	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5 17.4 28.1 43.8 24.1 18.6 25.0	5.6 6.4 7.3 7.1 5.9 6.6 7.9 7.4 5.2 6.2 7.1 7.4				
1 2 3 4 5 6 7 8 9 10 11 11 12 13	r(s) 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 68.9 68.3 52.4	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Heat 61.4 62.3 42.7 36.7 50.4 53.4 29.0 27.2 63.2 59.5 45.1 30.1 34.0	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5 17.4 28.1 43.8 24.1 18.6 25.0 21.0	5.6 6.4 7.3 7.1 5.9 6.6 7.9 7.4 5.2 6.2 7.1 7.4 7.5				
1 2 3 4 5 6 7 8 9 10 11 12 13 14	r(s) 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 69.2 48.6 68.3 68.2 68.3 68.2 48.6 68.9 68.3 52.4 51.6	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Heat 61.4 62.3 42.7 36.7 50.4 53.4 29.0 27.2 63.2 59.5 45.1 30.1 34.0 22.5	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5 17.4 28.1 43.8 24.1 18.6 25.0 21.0 27.0	5.6 6.4 7.3 7.1 5.9 6.6 7.9 7.4 5.2 6.2 7.1 7.4 7.5 7.7				
1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15	r(s) 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 69.2 48.6 52.4 51.6 48.2	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Heat 61.4 62.3 42.7 36.7 50.4 53.4 29.0 27.2 63.2 59.5 45.1 30.1 34.0 22.5 22.0	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5 17.4 28.1 34.1 18.6 25.0 21.0 27.0 38.9	5.6 6.4 7.3 7.1 5.9 6.6 7.9 7.4 5.2 6.2 7.1 7.5 7.7 7.2				
1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16	r(s) 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 69.2 48.6 68.9 68.3 69.2 48.6 52.4 51.6 48.2	Uncond. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Heat 61.4 62.3 42.7 36.7 50.4 53.4 29.0 27.2 63.2 59.5 45.1 30.1 34.0 22.5 22.0 31.5	Cool (Sens & Lat) 35.8 16.4 16.7 28.1 37.2 21.5 17.4 28.1 43.8 24.1 18.6 25.0 21.0 27.0 38.9 21.6	5.6 6.4 7.3 7.1 5.9 6.6 7.9 7.4 5.2 6.2 7.1 7.4 7.5 7.7 7.2 7.6				
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Specification Туре geared traction with V V A C Number of levels (including basement): 9 motor

	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
et, tap or clothes washer into a common area, then that		~	~
e alternative water supply system(s) specified in the t be sized, be configured, and be connected, as	~	~	~
reater than that specified for the pool or spa in the	~	~	
the pool or spa in the table.		~	
at the system is configured as specified in the table.		~	~
r is configured as specified in the table.		~	~

Rated electrical output (min): 20.0 peak kW

velopment. ted in this certificate, on the plans accompanying any development application, and on the plans and te / complying development certificate, for the proposed development, using the same identifying letter or certificate. building for both residential and non-residential purposes (or the change of use of a building for both te which are specified to apply to a "common area" of a building or the development, apply only to that part of building, and that system will also service any other dwelling or building within the development, then that commitment for that other dwelling or building).

f any), must be installed in accordance with the requirements of all applicable regulatory authorities. NOTE: rivate dam water be used to irrigate edible plants which are consumed raw, or that rainwater be used for

3. Commitments identified with a "💕" in the "Certifier check" column must be certified by a certifying authority as having been fulfilled. (Note: a certifying authority must not issue an occupation certificate (either interim or final) for a building listed in this certificate, or for any part of such a building, unless it is satisfied that each of the commitments whose fulfilment

2	essor # 1		Certificate # 00			Issued: 09/12/20
		Therm	al Performanc	e Specifica	tions	
drawings or writ element, that sp	ten specificati ecification mu	ons, these Specifications ist apply to all instances of	shall take precede of that element for i	nce. If only one he project. If al	e specification op ternate specificat	pecifications vary from othe tion is detailed for a building tions are detailed for a build ted on referenced documen
Windows P	Product ID	Glass	Frame	U vai	lue SHGC Ar	rea M² Detail
Unit 02		Double Low-E	Aluminium	3.1	0.39	Awning
		Double Low-E	Aluminium	3.1	0.49	Sliding, Fixed
Units 06, 10		Double Low-E	Aluminium	4.3	0.47	Awning
		Double Low-E	Aluminium	4.3	0.53	Sliding, Fixed
All Other Units		Single Low-E	Aluminium	5.4	0.49	Awning
		Single Low-E	Aluminium	5.4	0.58	Sliding, Fixed
Skylights	Product ID	Glass	Frame	U value	SHGC Area I	M ² Detail
		HGC values, if specified, value is less than 10% h				ifications may be used if the product specified above.
External walls	Construction	Insulation	Colour – sol	ar abs.	Detail	
Cavity Brick		None	Medium – S		Ground Floor Ca	arpark
Cavity Brick		10mm Foilboard			Level 1 - 3	
FC / Cavity Bric	<	10mm Foilboard	d Medium – S	A 0.475–0.7	Level 4 - 7	
Internal walls	Construction	Insulation	Detail			
Plasterboard on	Studs	None	As per plans			
Cavity Brick		10mm Foilboard	d Lobby Walls			
Cavity Brick		None	Party Walls			
Concrete Block	(FCF)	None	Lift / Stair W	alls		
Floors	Construction	Insulation	Covering		Detail	
Concrete		R3.0 EPS	Carpet / Ce	ramic Tiles	Unit 01 & 02 - C	arpark & Open Air Below
Concrete		R2.0 EPS	Carpet / Ce	ramic Tiles	Carpark & Open	Air Below
Concrete		None	Carpet / Ce	ramic Tiles	As per plans	
Ceilings	Construction	Insulation	Detail			
Concrete		None	As per plans			
Roof	Construction	Insulation	Colour – sol	ar abs.	Detail	
Concrete		R3.0 Bulk	Light – SA <	0.475	Roof / Balco	ny - Insulation in Ceiling Be
						,
Overshadowing	Oversl	nadowing structures		Overshadowing	trees	
Future West Ne	ghbour					
Orientation, Ex		ilation and Infiltration 275				
Terrain categor		Suburban				
Seals to windo		Yes		XXX	00054	84000 09 Dec 2020
Lighting plan p		No		+ 7	Assesso	
Recessed dow		No		× 1.	122	VV 217 R
Ceiling Fans:		YES		Avera		0000579100
				star ra		
				NATION		arles Street
				DATEGY BATOR	Liverpool	, NSW, 2170
				www.nather	and the second se	C1#4-1

	1							REV 2	ISSUE
ıt								REVISED CONCEPT BASED ON DRP AND PRE DA COMMENTS	DRAWING DESCRIPTION
-								21/07/20	DATE
3-25 Charles Street, Liv	ARH consection (8) section (8)	non kar ti nol stru stru stru sto elo unit HS ne unit HS ne unit HS ne unit HS in stru	itic repts E C g otil ie: C + d h e: S ie: 1. 2	Archonation on tic y I me ur P ol ol raww & SU	$\frac{1}{1} = \frac{1}{2} = \frac{1}{2}$	of esident contractions of the second contraction of the second contra	ei ity	gh ial ini	v2160 It Ing ts

All work to be carried out in accordance with BCA, AS & Council conditions. Copyright:The concepts & information contained in these drawings are the copyright of Idraft Group Pty Ltd. Use or duplication in part or in full without written permission of Idraft Group Pty Ltd constitutes an infringement of copyright. Do not scale off architectural drawings. These notes must be read in conjunction with colours selection for additional details on appliances, PC liters & shower screens to be fitted on inside of hob bulkheads may be required to accommodate drainage lines & stele beams position to be determined on site. Use figured dimensions ONLY, do not scale. Finished ground levels shown on plans are subject to site conditions, all caludated dimensions are subject to site conditions, all caludated dimensions are subject to site measure during construction & no allowance has been made for shrinkage or milling position of electrical meter to be determined on site in accordance to the turret position front garden tap on meter. Energy Smart Design: AAA rated water conservation devices include rainwater tanks shower heads, water tap flow regulators, dual flush toilets & cisterns & compliant hot water systems with miniumum green house score of 3.5 stars are to be used in this devicopment. All occupants are encouraged to use AAA rated dish washing machines with front loading where possible.

NOTES