MASTERPLANNING MAXIMUM DEMAND CALCULATION

Project Name: Project No: Date:

Yarralumla Brickworks S4B20002400 11-02-2022



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Block	Units / Area De	emand per unit / area Total	(kVA)	Comments
DIOCK	Sints/ Alea De	omana por unit / area Tutal	(n v m)	Commonto
Precinct 1				
Apartments	114	3000	342	Allows for instantaneous electric hot water
Townhouses	20	5500		extra allowance for additional AC load.
Basement carparking	11500	15	173	
lifts	8 	14 3600	112	Allowance for 2 ClVM standard sharger for 500% of anothments @750% diversity
Electric vehicle charging common areas	57	3000		Allowance for 3.6kW standard charger for 50% of apartments @75% diversity factored into the 15W/m for the carparking
Common areas	L			
Draginat 2			890	KVA
Precinct 2 Terrace housing	21	5500	116	extra allowance for additional AC load.
carparking	45	15		from road hierarchy plan
lifts	0	14		walk ups
common areas				factored into the 15W/m for the carparking
			139	
Precinct 3				
Terrace housing	22	5500	121	extra allowance for additional AC load.
carparking	7200	15		from road hierarchy plan
lifts	0	14		walk ups
common areas				factored into the 15W/m for the carparking
			229	KVA
Precinct 4				
Apartments	44	3000	127	assumed instantaneous hot water
carparking		15		average 2 per apartment
lifts	7	14		assumed 2 cores
Electric vehicle charging	22	3600		Allowance for 3.6kW standard charger for 50% of apartments @75% diversity
common areas				factored into the 15W/m for the carparking
				kVA
Heritage Core				
				existing heritage precinct areas from DIS traffic study. Load increased to cater fool
Retail precinct	4020	180	724	food retail and swimming pool/spa facility
EV fast chargers	3	50000	150	
external lighting	2000	3		estimated area
Does die at F			880	kVA
Precinct 5 Apartments	80	3000	240	assumed instantaneous hot water
carparking	163			from road hierarchy plan
lifts	4	14		assumed two cores, one lift per core
Electric vehicle charging	40	3600		Allowance for 3.6kW standard charger for 50% of apartments @75% diversity
common areas				factored into the 15W/m for the carparking
			490	kVA
Precinct 6				
Townhouses	31	6000		extra allowance for additional AC load.
carparking	75	15		from road hierarchy plan
lifts	2	14		assumed two cores, one lift per core
common areas				factored into the 15W/m for the carparking
			253	
Precinct 7				
Townhouses	18	6000	108	extra allowance for additional AC load.
carparking	75	15		from road hierarchy plan
lifts	2	14		assumed two cores, one lift per core
Electric vehicle charging	9	3600		Allowance for 3.6kW standard charger for 50% of apartments @75% diversity
common areas				factored into the 15W/m for the carparking
			200	kVA
Precinct 8				
Townhouses	10	5500		extra allowance for additional AC load.
carparking	25	15		from road hierarchy plan
lifts	0	14		walk ups
Electric vehicle charging	5	3600		Allowance for 3.6kW standard charger for 50% of apartments @75% diversity
common areas				factored into the 15W/m for the carparking
			82	kVA
				Chand along have blade
	10	5500		Stand alone house blocks
12,3,4,5,6			55	kVA
12,3,4,5,6				
T2,3,4,5,6				Chand alama havean
	14[5500		Stand alone houses
T7-21	14	5500		Stand alone houses kVA
	14	5500 Site total	77	

Notes

Typical allowance of 3.0kVA per apartment to allow for electric instantaneous hot water
Typical allowance of 5.5kVA per townhouse/terrace house to allow for electric instantaneous hot water and increased AC loads

Basement carparks assumed to be 35m2/space