MAXIMUM DEMAND COMPLETED BY
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MAXIMUM DEMAND CALCULATION

FILE: 25002 DATE: 02/05/2025

NUMBER OF LIVING UNITS	NUMBER OF LIVING UNITS PER PHASE	POWER FACTOR	TABLE	COLUMN	51 Lots Residential Development 123 Imaginary Way, PROJECT TEST, VIC 9999
51	17	0.8	C1	5	

LOAD GROUP		LOAD (Amps)	CALCULATION/COMMENTS
A	Lighting		
(i)	Genral lighting	8.5	: 17 * 0.5A
(ii)	Outdoor Lighting (greater than 1000W)	0	Not Applicable
B	General Power		
(i)	10A Outlets	82.3	: 50A + (17 * 1.9A)
(ii)	15A Outlets	0	Not Applicable
(iii)	20A Outlets	0	Not Applicable
C	Ranges, cooking appliances, laundary equipment or socket-outlets rate at more th 10A	47.6	: 17 * 2.8A
D	Heating, Cooling and Saunas	68	: 75% of (16A * 17) /3 [2.944kW per unit]
E	Instantaneous water heaters	0	Not Applicable
F	Storage water heaters	113.6	: 100A + (17 * 0.8A)
G	Spa and swimming pool heaters	0	Not Applicable
H	Communal lighting	10	100% of 10
I	Socket outlets not in J & M below not exceeding 10A	0	Not Applicable
J	Appliances rated more than 10A		
(i)	Clothes dryers, water heaters, self-heating washing machine, wash boiler	0	Not Applicable
(ii)	Fixed space heating, aircon equip, saunas	0	Not Applicable
(iii)	Spa and swimming pool heaters	0	Not Applicable
(iv)	Charging Equipment	120	:100% of 120A
K	Lifts	0	Not Applicable
L	Motors	0	Not Applicable
M	Special Appliances	0	Not Applicable
	Community Centre based on 150kVA	216	Amps per phase
	TOTAL MAXIMUM DEMAND:	666	Amps per phase

AS3000 calculations show a total of 666 Amps three phase. This equates to approximately 462 kVA @ 400VAC. In this case, AS3000 calculations is likely to be conservative.
We anticipate that a further 15% diversity is likely to reflect the realistic load. At 15% diversity factor, the likely load 393 kVA (This equates to approximately 7.8 kVA per lot and a 150kVA allowance for the Community Centre).
393 kVA is approximately 566 Amps per phase.