

Maximum Demand Calculation Table

Caravan Park

Load Group	Load	Remarks	Calculations	Load Distribution Nos. Circuits			Contribution / Phase - Amps		
				R	W	B	R	W	B
	Site Office								
A(i)	2 x twin 36W fluorescents	0.5A each	$0.5 \times 2 = 1 \text{ A}$	2			1A		
B(ii)	4 x double GPO's (8pts)	1A / point, Table C8,	Or $1000\text{W} + (7 \times 100\text{W}) = 1700\text{W} / 240\text{V} = 7.1\text{A}$		4 (8)			7.1A	
C	1 x reverse cycle Aircon.	12 A fixed load	$1 \times 12\text{A}$			1			12A
			<i>Max demand sub mains</i>				1	7.1	12
	Amenities Block	50% of CB rating AS/NZS 3001 – A2.1							
	8 x twin 36W fluorescents	0.5 A each	$0.5\text{A} \times 8 = 4\text{A}$ (1 x 10A CB x 50% = 5A)	8			5		
	10 x double GPO's (20pts)	2A / point, Table C8	Or $2 \times 1000\text{W} + (6 \times 750\text{W}) = 5500\text{W} / 240\text{V} = 50\text{A}$	10	10		12.5	12.5	10
			$1000\text{W} + (5 \times 750\text{W}) = 20\text{A}$						
	6 x 3.6kW clothes dryers, @ 2 per / Ø								
	2 x 3600W/240V = 15A (16A CB ea)	50% of CB rating	$16\text{A} \times 50\% = 8\text{A}$, $8\text{A} \times 2 = 16\text{A}$ / Red Phase	2			16		
	2 x 3600W/240V = 15A (16A CB ea)	50% of CB rating	$16\text{A} \times 50\% = 8\text{A}$, $8\text{A} \times 2 = 16\text{A}$ / White Phase		2			16	
	2 x 3600W/240V = 15A (16A CB ea)	50% of CB rating	$16\text{A} \times 50\% = 8\text{A}$, $8\text{A} \times 2 = 16\text{A}$ / Blue Phase			2			16
	6 x 15A 1Ø GPO's, @ 2 per / Ø								
	2 x 15A GPO's (16CB ea)	50% of CB rating	$16\text{A} \times 50\% = 8\text{A}$, $8\text{A} \times 2 = 16\text{A}$ / Red Phase	2			16		
	2 x 15A GPO's (16CB ea)	50% of CB rating	$16\text{A} \times 50\% = 8\text{A}$, $8\text{A} \times 2 = 16\text{A}$ / White Phase		2			16	
	2 x 15A GPO's (16CB ea)	50% of CB rating	$16\text{A} \times 50\% = 8\text{A}$, $8\text{A} \times 2 = 16\text{A}$ / Blue Phase			2			16
			<i>Max demand sub mains</i>				49.5	44.5	42
	Service Pillars- 2 per phase	AS/NZS 3001 A2.2(b)(ii)							
	8 GPO's per phase	$60\text{A} + 6\text{A}(7^{\text{th}}) + 6\text{A}(8^{\text{th}}) = 72\text{A}$	72A per phase				72	72	72
			<i>Max demand sub mains</i>				72	72	72
		Max Demand Consumer Mains - Amps					122.5	123.6	126

