

Residential Optional Calculation

9/25/1997

FONDREN 212 Spring Flowers Dr CAMERON

by: John Sokolik

Version 2011 L

STEP 1 Article 220.82 (B) (1),(2)

sq. ft	1894	General Lighting load	5,682 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
		Gen.Lgt, Sm App.& Laun. Load	10,182 VA

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 7/30/2024 16:25

STEP 2 Article 220.82 (C)

General lighting, Sm. Appl. & Laundry **10,182 VA**

A/C Condenser & Fixed Electric Space Heating

	QTY		
3 ton	1	AHU 1	9.6 kW
		AHU 2	Select
		AHU 3	Select
		AHU 4	Select
		AHU 5	Select

Total	1	Heating Load	7,229 VA
		CU Load	6,049 VA

Electric Space Heat @ 65% <4, 40% >3, vs. A/C @ 100% **7,229 VA**

STEP 3 Article 220.82 (B) (3)

Appliance Demand Load **9,048 VA**

4,500 VA	1	Water Heater	4,500 VA
828 VA	1	Refrigerator	828 VA
	0	Freezer	VA
1,200 VA	1	Dishwasher	1,200 VA
	0	Disposal	VA
	0		VA
1,800 VA	1	Microwave	1,800 VA
	0		VA
720 VA	1	Door Opener	720 VA
	0		VA
	0		VA
	0		VA
		select	VA
		select	VA
		select	VA
		select	VA
		select	VA
		select	VA
		Pool Equip. Panel	VA Apply Demand
		Existing EVSE	VA No Demand

Dryer Demand Load **6,240 VA**

Range Demand Load **14,000 VA**

Service Demand **29,017 VA**

Demand Load **121 A**

Neutral Demand **81 A**

Min.Service Req. **125 A**

Min. Feeder size **1/0**

Min. Neutral size **2**

Eq. Grding Cond. **4**

Aluminium

Total Appliance Load **9,048 VA**

STEP 4 Article 220.82 (B) (3)

Electric Clothes Dryers **6,240 VA**

STEP 5 Article 220.82 (B) (3)

Electric Ranges **14,000 W** Col C demand **8800**

or Number of appliances

<input type="checkbox"/> Check Box for Gas Range	Cooktop	Col B demand
	Cooktop	Col B demand
	Oven(s)	Col B demand
	Oven(s)	Col B demand
Number of appliances	0 Dem. Factor	
	Cooktop & Oven Demand Load	

Original 200Amp Service

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Pool Panel Feeder Calculation (See Note)

	A	B	N
Continuous Motors	0	0	0
Non-continuous	0	0	0
Spa heater 11 kVA			
Pool heater 3.5 ton			
Pool heater 5 ton			
Pool Light	0	0	0
Blower	0	0	0
other load	0	0	0
other load	0	0	0
<input type="checkbox"/> Min. Copper Pool Feeder	AWG	A	A
Minimum Panel Rating	A	Phase Amperes	Neut. load

Continuous Motors

select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v

Non-continuous Motors

select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v
select	<input type="checkbox"/> 240v

0.0 Motor Neutral Load

Max.Unbalanced Neutral Load