

Residential Optional Calculation

9/25/1997

STATZER 51 Valley Brook Ln SPRING LAKE

by: John Sokolik

Version 2011 L

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

sq. ft	3160	General Lighting load	9,480 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
		Gen.Lgt, Sm App.& Laun. Load	13,980 VA

WIRETECH COMPANY

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STEP 2 Article 220.82 (C)

A/C Condenser & Fixed Electric Space Heating

				QTY	
2.5 ton	3,933 VA	AHU 1	8. kW	1	8,644 VA
2.5 ton	3,933 VA	AHU 2	9.6 kW	1	10,589 VA
	VA	AHU 3	Select		VA
	VA	AHU 4	Select		VA
	VA	AHU 5	Select		VA

General lighting, Sm. Appl. & Laundry **13,980 VA**

Total	2
Heating Load	13,073 VA
CU Load	9,499 VA

Electric Space Heat @ 65% <4, 40% >3, vs. A/C @ 100% **13,073 VA**

STEP 3 Article 220.82 (B) (3)

4,500 VA	1	Water Heater	4,500 VA
828 VA	1	Refrigerator	828 VA
	0	Freezer	VA
972 VA	1	Dishwasher	972 VA
756 VA	1	Disposal	756 VA
	0		0 VA
1,500 VA	1	Microwave	1,500 VA
	0		0 VA
600 VA	1	Door Opener	600 VA
480 VA	1	Hood Fan	480 VA
	0		0 VA
	0		0 VA
<input type="checkbox"/> select			VA
<input type="checkbox"/> select			VA
<input type="checkbox"/> select			VA
select			VA
select			VA
<input type="checkbox"/>		Pool Equip. Panel	VA Apply Demand
<input type="checkbox"/>			VA No Demand
<input type="checkbox"/>			VA No Demand

Appliance Demand Load **9,636 VA**

Dryer Demand Load **5,600 VA**

Range Demand Load **14,600 VA**

Service Demand **36,599 VA**

Demand Load **152 A**

Neutral Demand **89 A**

Min.Service Req. **175 A**

Min. Feeder size **3/0**

Min. Neutral size **2**

Eq. Grding Cond. **4**

Aluminium

Total Appliance Load **9,636 VA**

STEP 4 Article 220.82 (B) (3)

Electric Clothes Dryers **5,600 VA**

STEP 5 Article 220.82 (B) (3)

Electric Ranges Col C demand **0**

or Number of appliances

Check Box for Gas Range

Cooktop		Col B demand
Cooktop	8,300 W	Col B demand
Oven(s)	6,300 W	Col B demand
Oven(s)		Col B demand
Number of appliances	2	Dem. Factor
Cooktop & Oven Demand Load		

Existing 200Amp Service

jmp1jds@comcast.net

Pool Panel Feeder Calculation (See Note)

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