Residential Optional Calculation

9/25/1997

JENNINGS 577 N.Micahs Way SPRING LAKE

by: John Sokolik

Version 2011 L

WIRETECH COMPANY
3101 Stony Brook Drive Suite148
Raleigh, NC 27604
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2/6/2024 15:51

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

sq. ft	3319	General Lighting load	9,957 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
	Gen.Lgt, Sm App.& Laun. Load		14,457 VA

STEP 2 Article 220.82 (C) ☑

General lighting, Sm. Appl. & Laundry **14,457 VA**

A/C Condenser & Fixed Electric Space Heating

					QTY
1.5 ton	2,714 VA	AHU 1	4.6 kW	5,244 VA	1
4 ton	5,980 VA	AHU 2	9.6 kW	11,164 VA	1
	VA	AHU 3	Select	VA	Qty
	VA	AHU 4	Select	VA	Qty
	VA	AHU 5	Select	VA	Qty

Total 2

Heating Load	11,438 VA
CU Load	10,902 VA

Electric Space Heat @ 65% <4, 40% >3, vs. A/C @ 100% **11,438 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
1,200 VA	1	Dishwasher		1,200 VA
1,140 VA	1	Disposal		1,140 VA
	0		0	VA
1,550 VA	1	Microwave		1,550 VA
☐	0		0	VA
720 VA	1	Door Opener		720 VA
☐ 636 VA	1	Dehumidifier		636 VA
☐	0		0	VA
	0		0	VA
☐	select			VA
☐	select			VA
☐	select			VA
	select			VA
	select			VA
		Pool Equip. Panel		VA Apply Demand
☐				VA No Demand
☐				VA No Demand

Appliance Demand Load **10,574 VA**

Dryer Demand Load **5,600 VA**

Range Demand Load **14,800 VA**

Service Demand **35,610 VA**

Demand Load **148 A**

Neutral Demand **91 A**

Min.Service Req. **150 A**

Min. Feeder size **2/0**
Min. Neutral size **1**
Eq. Grding Cond. **4**
☑ **Aluminium**

Total Appliance Load **10,574 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

	Cooktop		Col B demand
☐ Check Box for Gas Range	Cooktop	**7,400 W**	Col B demand
	Oven(s)	**7,400 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

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