Residential Optional Calculation

9/25/1997

COVINGTON 45 Cade Ln SANFORD

by: John Sokolik

Version 2011 L

WIRETECH COMPANY
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9/15/2024 9:24

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

sq. ft	2542	General Lighting load	7,626 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
	Gen.Lgt, Sm App.& Laun. Load		12,126 VA

STEP 2 Article 220.82 (C) ☑

A/C Condenser & Fixed Electric Space Heating

						QTY
2 ton	3,381 VA	AHU 1	9.6 kW	10,589 VA		1
2 ton	3,381 VA	AHU 2	9.6 kW	10,589 VA		1
	VA	AHU 3	Select	VA		Qty
	VA	AHU 4	Select	VA		Qty
	VA	AHU 5	Select	VA		Qty

Total 2

Heating Load	14,458 VA
CU Load	8,740 VA

General lighting, Sm. Appl. & Laundry **12,126 VA**

Electric Space Heat @ 65% <4, 40% >3, vs. A/C @ 100% **14,458 VA**

STEP 3 Article 220.82 (B) (3)

4,500 VA	1	Water Heater		4,500 VA
828 VA	1	Refrigerator		828 VA
575 VA	1	Freezer		575 VA
972 VA	1	Dishwasher		972 VA
	0	Disposal		VA
	0		0	VA
1,500 VA	1	Microwave		1,500 VA
☐	0		0	VA
	0		0	VA
☐	0		0	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 **8,375 VA**

Dryer Demand Load **5,500 VA**

Range Demand Load **12,700 VA**

Service Demand **35,938 VA**

Demand Load **150 A**

Neutral Demand **78 A**

Min.Service Req. **150 A**

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

Total Appliance Load **8,375 VA**

STEP 4 Article 220.82 (B) (3)

Electric Clothes Dryers **5,500 VA**

STEP 5 Article 220.82 (B) (3)

Electric Ranges **12,700 W** Col C demand **8400**

or Number of appliances

Cooktop Col B demand

☐ Check Box for Gas Range Cooktop Col B demand

Oven(s) Col B demand

Oven(s) Col B demand

Number of appliances **0** Dem. Factor

Cooktop & Oven Demand Load

Existing 200Amp Service

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