Residential Optional Calculation

9/25/1997

DOYLE 319 Oak Haven Dr HOLLY SPRINGS

by: John Sokolik

Version 2011 L

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

sq. ft	3310	General Lighting load	9,930 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
	Gen.Lgt, Sm App.& Laun. Load		14,430 VA

WIRETECH COMPANY
3101 Stony Brook Drive Suite148
Raleigh, NC 27604
919-847-1617

8/19/2022 8:57

STEP 2 Article 220.82 (C) ☑

General lighting, Sm. Appl. & Laundry **14,430 VA**

A/C Condenser & Fixed Electric Space Heating

						QTY
3.5 ton	5,750 VA	AHU 1	9.6 kW	10,589 VA		1
	VA	AHU 2	Select	VA		Qty
	VA	AHU 3	Select	VA		Qty
	VA	AHU 4	Select	VA		Qty
	VA	AHU 5	Select	VA		Qty

Total **1**

Heating Load 7,229 VA

CU Load 6,739 VA

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

STEP 3 Article 220.82 (B) (3)

4,500 VA	1	Water Heater		4,500 VA
817 VA	1	Refrigerator		817 VA
690 VA	1	Freezer		690 VA
1,200 VA	1	Dishwasher		1,200 VA
	0	Disposal		VA
	0		0	VA
1,800 VA	1	Microwave		1,800 VA
☐	0		0	VA
720 VA	2	Door Opener		1,440 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 **10,447 VA**

Dryer Demand Load **6,240 VA**

Range Demand Load **15,400 VA**

Service Demand **31,836 VA**

Demand Load **133 A**

Neutral Demand **95 A**

Min.Service Req. **150 A**

Min. Feeder size **2/0**

Min. Neutral size **1**

Eq. Grding Cond. **4**

☑ **Aluminium**

Total Appliance Load **10,447 VA**

STEP 4 Article 220.82 (B) (3)

Electric Clothes Dryers **6,240 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	**7,700 W**	Col B demand
	Oven(s)	**7,700 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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