Residential Optional Calculation

9/25/1997

PAFFORD 731 Juno Drive, Broadway

by: John Sokolik

Version 2011 L

Wiretech Company
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Raleigh NC 27604
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STEP 1 Article 220.82 (B) (1),(2)

sq. ft	1826	General Lighting load	5,478 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
	Gen.Lgt, Sm App.& Laun. Load		9,978 VA

STEP 2 Article 220.82 (C) ☑

General lighting, Sm. Appl. & Laundry **9,978 VA**

A/C Condenser & Fixed Electric Space Heating

						QTY
3 ton	5,060 VA	AHU 1	9.6 kW	10,589 VA	1	
1.5 ton	3,450 VA	AHU 2	Select	VA	1	
	VA	AHU 3	Select	VA	Qty	
	VA	AHU 4	Select	VA	Qty	
	VA	AHU 5	Select	VA	Qty	

Total	**2**	
Heating Load	7,229 VA	
CU Load	9,499 VA	

Electric Space Heat @ 65% <4, 40% >3, vs. A/C @ 100% **9,499 VA**

STEP 3 Article 220.82 (B) (3)

4,500 VA	1	Water Heater		4,500 VA
650 VA	1	Refrigerator		650 VA
	0			VA
1,200 VA	1	Dishwasher		1,200 VA
1,140 VA	1	Disposal		1,140 VA
720 VA	1	Garage Door Opener		720 VA
1,800 VA	1	Microwave		1,800 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
☐				VA Apply Demand
☐				VA No Demand
☐				VA No Demand

Appliance Demand Load	**10,010 VA**
Dryer Demand Load	**6,240 VA**
Range Demand Load	**14,100 VA**
Service Demand	**31,630 VA**
Demand Load	**132 A**
Neutral Demand	**84 A**
Min.Service Req.	**150 A**
Min. Feeder size	**2/0**
Min. Neutral size	**2**
Eq. Grding Cond.	**4**
☑	**Aluminium**
Total Appliance Load	**10,010 VA**

STEP 4 Article 220.82 (B) (3)

Electric Clothes Dryers **6,240 VA**

STEP 5 Article 220.82 (B) (3)

Electric Ranges **14,100 W** Col C demand **8800**

or Number of appliances **0**

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 200 Amp Service

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