

City of York 101 S. George St York, PA 17405 (717) 849-2329



## **Residential Electrical Service Requirements**

The following criteria applies to Single Family Dwellings with a 100 amp or 200 amp service.

- 1. Show Load Sheet to Inspector.
- 2. The service disconnecting means shall be installed at a readily accessible location (230.70). If all panels are not located in the same area, provide a main disconnect/breaker before meter box or individual disconnects/breakers after the meter box.
- 3. Drip loop shall be minimum 10' above surface and 3' from openings and windows. (230.9, 230.24)

4.	Two driven ground rods inside or outside the house, or proof of 25 Ohms resistance (250.56).			Service Feeder	
5.	All metal piping (gas and water) bonded to ground.	To Water/Gas piping. Wire size same as			
6.	Bonding jumper across water meter.	grounding Electrode Conductor.	Pa	anel	Grounding
7.	Each breaker serves only one circuit.				Electrode
8.	No open holes in cover plates.				
9.	Only one wire in each main lug.	Floor			┨───
10.	Service entrance cable not deteriorated.				2 Ground Rods
11.	Service entrance cable properly secured to building.				
12.	Able to close meter box with no holes.				Ш

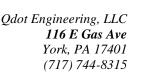
Electrical Inspections required:

- Electrical Final, include Load Sheet

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## Load Sheet

This worksheet can be used to determine the required size of an electrical panel for an existing dwelling with 120/240 volt, three wire, single phase services (based on the 2008 National Electrical Code). This worksheet is provided as a courtesy and is not intended to mandate how electrical calculations must be done. Any load sheet that complies with NEC requirements may be used. If this Load Sheet does not apply correctly to the building, an appropriate Load Sheet must be used.

1. 2. 3.	Lighting and Receptacles Two 20 amp small appliance circuits: 1500 watts each Laundry circuit, 1500 watts	$= \underline{6000} \text{ watts}$ $= \underline{3000} \text{ watts}$ $= \underline{1500} \text{ watts}$ Total Watts = \underline{10500} \text{ watts}
	First 3000 watts at 100% demand factor Remainder at 30%	$= \frac{7500}{X.3}$ watts
		= <u>2250</u> watts + 3000 watts
4.	Lighting and Receptacle load after demand factor	= <u>5250</u> watts
5.	Heating/Cooling: 5000 watts	= <u>5000</u> watts
6.	Electric stove if present: 5000 watts	= watts
7.	Electric clothes dryer if present: 5000 watts	= watts
8.	Other dedicated circuits: 1500 watts each	= watts
9.	Other Loads:	= watts
		= watts
		= watts

10.Total Load

Total items 4-9 = \_\_\_\_\_ watts

If the Total Load is less than 24,000 watts a 100 amp service is required. If the Total Load is greater than or equal to 24,000 watts a 200 amp service is required.

	100 Amp	200 Amp
Service Feeder Wire Size	#4 AWG copper #2 AWG aluminum	2/0 AWG copper 4/0 AWG aluminum
Grounding Electrode Conductor Size	#6 AWG copper #4 AWG aluminium	#6 AWG copper #4 AWG aluminum

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