

Residential Requirements at a Glance (2008 NEC)

2008 NEC Requirements - Changes and Commonly Overlooked Items

- 1) **Arc-Fault Circuit Interrupters (AFCI) are required in all residential dwelling units.**
All 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit **family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas** shall be protected by a listed arc-fault circuit interrupter, combination-type, installed to provide protection of the branch circuit. (210.12 (B))
- 2) **Interior - Tamper Resistant Receptacles are required in all Residential Dwellings Units.**
In all areas of a Residential Dwelling Unit, all 125-volt, 15-and 20-ampere receptacles shall be listed tamper resistant receptacles. (406.11)
- 3) **Exterior – Damp and Wet Locations - Tamper Resistant & Weather Resistant Receptacles are required in all Residential Dwelling Units.** All 15-and 20-ampere, 125- and 250-volt nonlocking receptacles shall be a listed weather-resistant type. (406.8(A)&(B))
- 4) **Exposed Work In Unfinished Basements and Crawlspace** – Non-metallic (NM) sheathed cable installed on the walls of an unfinished basement must be protected with a listed conduit or tubing (334.15 (B)&(C))
- 5) **Required Receptacle Outlets** – In every kitchen, family room, dining room, living room, parlor, library, den, sunroom, bedroom, recreation room, or similar room or area of dwelling units, receptacle outlets shall be installed in accordance with the following: (210.52(A))
 - a. **Finished Living Areas** - Any wall space 2 feet or more in width within any finished living area, must have an electrical receptacle (outlet) no more than 6 feet from any obstruction or break in the wall (such as a doorway) and no more than 12 feet from the previous electrical receptacle (outlet). (210.52(A)(1)&(2))
 - b. **Kitchens** – A minimum of two (2) 20 amp Small-Appliance branch circuits are required. Also, any countertop peninsula extending 2 feet or more and permanently installed islands must have a receptacle. (210.11(C)(1))
 - c. **Bathrooms** – At least one 20-ampere branch circuit receptacle outlet shall be provided to supply the bathroom. Such circuits shall have no other outlets. *Exception: Where the 20-ampere circuit supplies a single bathroom, outlets for other equipment within the same bathroom shall be permitted to be supplied in accordance with the NEC.* (210.11(C)(3))
 - d. **Laundry Areas** - At least one 20-ampere branch circuit receptacle outlet shall be provided to supply the laundry area. Such circuits shall have no other outlets. (210.11(C)(2))

Are you ready for a Rough Electrical Inspection?

- 1) Building Permits are required. Secure a Building Permit from your municipality prior to beginning work
- 2) All new circuits are wired, grounding wires are in place, and the raceways and boxes are installed properly.
- 3) If needed, any necessary nail plates are installed.
- 4) The electrical work cannot be covered with insulation, drywall, fixtures, etc. until an inspector has approved it.
- 5) All grounding wires are connected at the outlets.
- 6) Wires do not need to be installed in the panel box for the rough inspection.

Are you ready for a Final Electrical Inspection?

- 1) All of the electric must be finished prior to scheduling the final electrical inspection.
- 2) All circuits must be clearly and properly labeled at the panelboard (circuit breaker box).
- 3) All electrical equipment, receptacles, fixtures, switches, and appliances are properly installed, grounded, and energized.

* Additional fees will be assessed if work is not completed on the final inspection and additional trips are needed

PLEASE CONTACT YOUR LOCAL INSPECTOR IF YOU HAVE ANY QUESTIONS

Fritz Gunther – Certified Electrical Inspector

2767 Dewey Avenue * Rochester, New York 14616 ~ (585) 436-4460 * www.InspectNY.com

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