

REQUEST FOR TECHNICAL CHANGE

AGENCY: Building Code Council

RULE CITATION: 2012 NC Building Code 1008.1.10

**DEADLINE FOR RECEIPT: Thursday, February 11, 2016**

***NOTE WELL: This request when viewed on computer extends several pages. Please be sure you have reached the end of the document.***

The Rules Review Commission staff has completed its review of this rule prior to the Commission's next meeting. The Commission has not yet reviewed this rule and therefore there has not been a determination as to whether the rule will be approved. You may call this office to inquire concerning the staff recommendation.

In reviewing these rules, the staff determined that the following technical changes need to be made. Approval of any rule is contingent upon making technical changes as set forth in G.S. 150B-21.10.

*It appears that italicized terms are defined in the Code. Are the terms "panic hardware" and "overcurrent devices" defined in the Code? If not, do these terms have a specific meaning to your regulated public?*

*In the second line of the paragraph that begins "Electrical rooms," insert a comma after the term "switching devices"*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Jason S. Thomas  
Commission Counsel  
Date submitted to agency: Thursday, January 28, 2016

2012 NC Building Code

1008.1.10 Panic and fire exit hardware. (150310 Item B-18)

**1008.1.10 Panic and fire exit hardware.** Doors serving a Group H occupancy and doors serving rooms or spaces with an *occupant load* of 50 or more in a Group A or E occupancy shall not be provided with a latch or lock unless it is panic hardware or *fire exit hardware*.

**Exception:** A main *exit* of a Group A occupancy in compliance with Section 1008.1.9.3, Item 2.

Electrical rooms with equipment rated ~~4,200~~ 800 amperes or more and over 6 feet (1829 mm) wide that contain overcurrent devices, switching devices or control devices with *exit* or *exit access* doors shall be equipped with panic hardware or *fire exit hardware*. The doors shall swing in the direction of egress travel.

The delayed effective date of this Rule is **April 1, 2016**.

The Statutory authority for Rule-making is G. S. 143-136; 143-138.

**[Note: This Rule will also be printed in the 2012 NC Fire Code, Section 1008.1.10, Panic and fire exit hardware.]**

REQUEST FOR TECHNICAL CHANGE

AGENCY: Building Code Council

RULE CITATION: 2012 NC Building Code 1018.1

**DEADLINE FOR RECEIPT: Thursday, February 11, 2016**

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In reviewing these rules, the staff determined that the following technical changes need to be made. Approval of any rule is contingent upon making technical changes as set forth in G.S. 150B-21.10.

*Table 1018.1, footnote f., line 1 – delete the comma after “space”*

*Table 1018.1, footnote f., line 2 – replace “when” with “if”*

*Table 1018.1, footnote g., line 1 – replace “where” with “if”*

*712.4, line 1 – insert a comma after “penetrations”*

*712.4, line 2 – replace “Section” with “Sections”*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Jason S. Thomas  
Commission Counsel  
Date submitted to agency: Thursday, January 28, 2016

**1018.1 Construction.** *Corridors* shall be fire-resistance rated in accordance with Table 1018.1. The *corridor* walls required to be fire-resistance rated shall comply with Section 709 for *fire partitions*.

**Exceptions:**

- ~~1. A fire-resistance rating is not required for corridors in a Group E occupancy where each room that is used for instruction has at least one door opening directly to the exterior and rooms for assembly purposes have at least one-half of the required means of egress doors opening directly to the exterior. Exterior doors specified in this exception are required to be at ground level.~~
- ~~2. A fire-resistance rating is not required for corridors contained within a Group R dwelling or sleeping unit.~~
- ~~3. A fire-resistance rating is not required for corridors in open parking garages.~~
- ~~4. A fire-resistance rating is not required for corridors in an occupancy in Group B which is a space requiring only a single means of egress complying with Section 1015.1.~~

**TABLE 1018.1 CORRIDOR FIRE-RESISTANCE RATING** (footnotes a through e remain unchanged)

~~f. Exit access corridors are not required to be rated on any single tenant floor or in any single tenant space, when 1-hour fire-resistance-rated tenant demising walls are provided between all tenants spaces and 1-hour fire-resistance-rated floor/ceiling assemblies are provided in multistory buildings and fire partitions are provided between other tenant spaces on the same floor. The structure supporting such floor/ceiling assemblies and fire partitions is not required to be rated in Types IIB, IIIB and VB construction.~~

~~g. A fire-resistance rating is not required for corridors in a Group E occupancy where each room that is used for instruction has at least one door opening directly to the exterior and rooms for assembly purposes have at least one-half of the required means of egress doors opening directly to the exterior. Exterior doors specified in this exception are required to be at ground level.~~

~~h. A fire-resistance rating is not required for corridors contained within a Group R dwelling or sleeping unit.~~

~~i. A fire-resistance rating is not required for corridors in open parking garages.~~

~~j. A fire-resistance rating is not required for corridors in an occupancy in Group B which is a space requiring only a single means of egress complying with Section 1015.1.~~

(Insert footnote references as required in the table. Footnote f for Group B, g for Group E, h for Group R, i for Group S, j for Group B)

**712.4 Continuity.** Assemblies shall be continuous without openings, penetrations or joints except as permitted by this section and Section 708.2, 713.4, 714 and 1022.1. Skylights and other penetrations through a fire-resistant-rated roof deck or slab are permitted to be unprotected, provided that the structural integrity of the fire-resistant-rated roof assembly is maintained. Unprotected skylights shall not be permitted in roof assemblies required to be fire-resistance rated in accordance with Section 705.8.6. The supporting construction shall be protected to afford the required *fire-resistance rating* of the *horizontal assembly* supported.

**Exceptions:**

~~1. In buildings of Type IIB, IIIB, or VB construction, the construction supporting the *horizontal assembly* is not required to be fire-resistance-rated at the following:~~

~~1-1.1. Horizontal assemblies at the separations of incidental uses as specified by Table 508.2.5, provided the required *fire-resistance rating* does not exceed 1 hour.~~

~~2-1.2. Horizontal assemblies at the separation of *dwelling units* and *sleeping units* as required by Section 420.3.~~

~~3-1.3. Horizontal assemblies as *smoke barriers* constructed in accordance with Section 710.~~

2. Horizontal assemblies constructed solely for the purpose of satisfying the requirements of footnote f of Table 1018.1.

The delayed effective date of this Rule is January 1, 2017.

The Statutory authority for Rule-making is G. S. 143-136; 143-138.

**TABLE 502.1.2  
 BUILDING ENVELOPE REQUIREMENTS OPAQUE ELEMENT, MAXIMUM U-FACTORS**

Climate Zone	3		4		5	
	All Other	Group R	All Other	Group R	All Other	Group R
<b>Roofs</b>						
X Insulation entirely above deck	U-0.039	U-0.039	U-0.032	U-0.032	U-0.032	U-0.032
Metal buildings	U-0.041	U-0.041	U-0.037	U-0.037	U-0.037	U-0.037
Attic and other-wood framing	U-0.027	<del>U-0.041</del> U-0.027	<del>U-0.021</del> U-0.024	<del>U-0.021</del> U-0.024	<del>U-0.021</del> U-0.024	<del>U-0.021</del> U-0.024
Attic and other – steel framing	<u>U-0.035</u>	<u>U-0.035</u>	<u>U-0.029</u>	<u>U-0.029</u>	<u>U-0.029</u>	<u>U-0.029</u>
<b>Walls, Above Grade</b>						
Mass	U-0.123	U-0.104	U-0.104	U-0.090	U-0.090	<del>U-0.060</del> U-0.071
Metal building	U-0.094	U-0.072	U-0.060	U-0.050	U-0.050	U-0.050
Metal framed	U-0.064	U-0.064	U-0.064	U-0.064	U-0.064	U-0.055
Wood framed and other	U-0.064	U-0.064	U-0.064	U-0.064	U-0.064	U-0.051
<b>Walls, Below Grade</b>						
Below-grade wall <sup>a</sup>	C-0.119	C-0.119	C-0.119	C-0.092	C-0.119	C-0.092
<b>Floors</b>						
Mass	U-0.064	U-0.064	U-0.057	U-0.051	U-0.057	U-0.051
Joist / Framing-wood	U-0.033	U-0.033	<del>U-0.027</del> U-0.026	<del>U-0.027</del> U-0.026	<del>U-0.027</del> U-0.026	<del>U-0.027</del> U-0.026
Joist / Framing-steel	<u>U-0.032</u>	<u>U-0.032</u>	<u>U-0.032</u>	<u>U-0.032</u>	<u>U-0.032</u>	<u>U-0.032</u>
<b>Slab-on-Grade Floors</b>						
Unheated slabs	F-0.730	F-0.540	F-0.520	F-0.520	F-0.520	F-0.510
Heated slabs	F-0.860	F-0.860	<del>F-0.688</del> F-0.843	F-0.688	F-0.688	F-0.688

a. When heated slabs are placed below-grade, below grade walls must meet the *F*-factor requirements for perimeter insulation according to the heated slab-on-grade construction.

The delayed effective date of this Rule is January 1, 2017.  
 The Statutory authority for Rule-making is G. S. 143-136; 143-138.

REQUEST FOR TECHNICAL CHANGE

AGENCY: Building Code Council

RULE CITATION: 2012 NC Fire Code 505.1.1

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In reviewing these rules, the staff determined that the following technical changes need to be made. Approval of any rule is contingent upon making technical changes as set forth in G.S. 150B-21.10.

*Line 2 – replace “numbering scheme” with “number”*

*Lines 2-3 – replace “numerical identification” with “number”*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Jason S. Thomas  
Commission Counsel  
Date submitted to agency: Thursday, January 28, 2016

2012 NC Fire Code

505.1.1 Suite/Room identification. (150609 Item B-3)

**505.1.1 Suite/Room identification.** Where numerical addresses are posted to identify suites or rooms within buildings, the first digit of the suite or room numbering scheme shall match the floor numerical identification signage.

The delayed effective date of this Rule is January 1, 2017.

The Statutory authority for Rule-making is G. S. 143-136; 143-138.

REQUEST FOR TECHNICAL CHANGE

AGENCY: Building Code Council

RULE CITATION: 2012 NC Fire Code 902

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In reviewing these rules, the staff determined that the following technical changes need to be made. Approval of any rule is contingent upon making technical changes as set forth in G.S. 150B-21.10.

*Is the term "area of concentrated use" defined in the Code? If not, does it have a specific meaning to your regulated public?*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Jason S. Thomas  
Commission Counsel  
Date submitted to agency: Thursday, January 28, 2016



### Section 902 Definitions

**Night Club.** ~~An establishment meeting all of the following–~~ An A-2 occupancy meeting all of the following conditions:

1. ~~Has a posted capacity or occupant load that exceeds one occupant per 15 square foot (1.39m<sup>2</sup>) net~~ The aggregate floor area of concentrated use and standing space that is used for dancing or viewing of performers exceeds 10 percent of the Group A-2 fire area, excluding adjacent lobby areas ; and
2. Provides live or recorded entertainment by performing artist; and
3. ~~Serves~~ Allows alcoholic ~~beverages~~ beverage consumption.

The delayed effective date of this Rule is January 1, 2017.  
The Statutory authority for Rule-making is G. S. 143-136; 143-138.

[Note: This Rule will also be printed in the 2012 NC Building Code, Section 902 Definitions.]

REQUEST FOR TECHNICAL CHANGE

AGENCY: Building Code Council

RULE CITATION: 2012 NC Mechanical Code 312.1

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*Reference is made to five external standards, manuals or codes (ASHRAE/ACCA Standard 183, Chapter 3 of the International Energy Conservation Code, ACCA Manual S, ACCA Manual J, and ACCA Manual D). How is your regulated public to get access to these external sources?*

*What does "or other approved heating and cooling calculation methodologies" refer to? How is your regulated public to know whether another heating and cooling calculation methodology is approved?*

*The underlined sentence beginning "For permitting..." is very difficult to understand. Do you mean this:*

Neither submittal nor review of ACCA Manual D, ACCA Manual J, or ACCA Manual S calculations shall be required to verify calculations for HVAC systems for the purposes of permitting, inspections, certificate of compliance, or certificate of occupancy.

*In any event this sentence must be revised to to assure that it is comprehensible.*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Jason S. Thomas  
Commission Counsel  
Date submitted to agency: Thursday, January 28, 2016

2012 NC Mechanical Code

312.1 Load calculations. (150609 Item B-5)

**312.1 Load calculations.** Heating and cooling system design loads for the purpose of sizing systems, appliances and *equipment* shall be determined in accordance with the procedures described in the ASHRAE/ACCA Standard 183. Alternatively, design loads shall be determined by an *approved* equivalent computation procedure, using the design parameters specified in Chapter 3 of the *International Energy Conservation Code*.

For one- and two-family dwellings and townhouses, heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J, or other approved heating and cooling calculation methodologies.

For permitting, inspections, certificate of compliance or certificate of occupancy, verification of Calculations for HVAC Systems - ACCA Manual D, ACCA Manual J nor ACCA Manual S calculation submittals and review shall not be required

The delayed effective date of this Rule is January 1, 2017.

The Statutory authority for Rule-making is G. S. 143-136; 143-138.

## REQUEST FOR TECHNICAL CHANGE

AGENCY: Building Code Council

RULE CITATION: 2012 NC Plumbing Code 605.4

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In reviewing these rules, the staff determined that the following technical changes need to be made. Approval of any rule is contingent upon making technical changes as set forth in G.S. 150B-21.10.

*Does all "Aquatherm green pipe with blue strip (SDR 11)" have a "minimum pressure rating of 160 psi (1100 kPa) at 73.4°F (23°C)"? Is all "cold water distribution pipe and tubing having a minimum pressure rating of 160 psi (1100 kPa) at 73.4°F (23°C)" is same as "Aquatherm green pipe with blue strip (SDR 11)"?*

*In other words, is the changed language practically identical to the language published in the Register? If not, what are the practical differences?*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Jason S. Thomas  
Commission Counsel  
Date submitted to agency: Thursday, January 28, 2016

2012 NC Plumbing Code

605.4 Water distribution pipe. (150609 Item B-1)

**605.4 Water distribution pipe.** Water distribution pipe shall conform to NSF 61 and shall conform to one of the standards listed in Table 605.4. ~~All Hot~~ water distribution pipe and tubing shall have a minimum pressure rating of 100 psi (690 kPa) at 180°F (82°C). Cold water distribution pipe and tubing shall have a minimum pressure rating of 160 psi (1100 kPa) at 73.4°F (23°C).

The delayed effective date of this Rule is January 1, 2017.

The Statutory authority for Rule-making is G. S. 143-136; 143-138.

**NC Register - August 17, 2015**

*(The proponent submitted the adopted modification to eliminate the proprietary "Aquatherm" language.)*

**605.4.1.** Aquatherm green pipe with blue strip (SDR 11) shall be allowed in the North Carolina Plumbing Code for cold water potable water system applications including inside the building.

## REQUEST FOR TECHNICAL CHANGE

AGENCY: Building Code Council

RULE CITATION: 2014 NEC with NC Amendments

**DEADLINE FOR RECEIPT: Thursday, February 11, 2016**

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In reviewing these rules, the staff determined that the following technical changes need to be made. Approval of any rule is contingent upon making technical changes as set forth in G.S. 150B-21.10.

*10.1, next-to-last line – delete “and” before “may be cited”*

*10.1, last line – replace the semicolon after “Code” with a comma*

*10.2, line 1 – insert commas after “80” and “Enforcement”*

*10.3, line 1 – delete “minimum” and insert a comma after “provisions”*

*10.3, line 2 – insert a comma after “construction”*

*10.3, line 3 – insert a comma after “uses” and replace “of” with “or” if this is what is intended.*

*10.3, line 4 – insert a comma after “use”*

*10.4, line 1 – insert a comma after “permits”*

*10.5, line 3 – insert a comma after “elevators” and insert “are” before “permanently”*

*10.7.1, line 2 – insert a comma after “fuel”*

*10.7.2, line 2 – insert a comma after “structure” and delete the comma after “codes”*

*10.7.2, line 6 – delete the comma after “utility”*

*10.7.2, line 7 – insert a comma after “structure”*

*10.8.1, line 1 – replace “utilization” with “use”*

Jason S. Thomas  
Commission Counsel  
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*10.8.2(6) – replace “apply” with “shall govern the use of temporary power pursuant to the provisions of 10.8.”*

*10.8.3 – under what circumstances will “failure to comply with this section” result in “disconnection of power or revocation of permit”? What rules govern such disconnection?*

*10.8.4, line 2 – is “port” a misprint or error? If not, what does it mean?*

*10.8.4, line 3 – insert “and” before “its”*

*Amendment 110.26(E)(2), line 3 – delete “or” before “by vehicular”*

*Amendment 210.8(A)(3), line 3 – is “pipeline and vessel” or “pipeline or vessel” intended?*

*Amendment 250.53(A)(2), line 2 – delete the comma after “single” if this is what is intended*

*Amendment 250.53(A)(2), line 3 – insert “ground” after “supplemental” if this is what is intended*

*Amendment 250.53(A)(2), Exception No. 2, line 2 – insert “a” before “construction”*

*Amendment 310.15(B)(7) (text), line 5 – replace “equipment grounding” with “equipment-grounding” if this is what is intended*

*Amendment 310.15(B)(7) (text), line 7 – insert “of” after “part”*

*Amendment 406.4(D)(4)(1) – insert a semicolon after “circuit-interrupter receptacle”*

*Amendment 406.4(D)(4)(2) – insert a semicolon and “or” after “type receptacle”*

*Amendment 406.4(D)(4)(3) – insert a period after “breaker”*

*Amendments 406.4(D)(4)(1) and (2) – what is the difference between an “outlet branch-circuit type arc-fault circuit-interrupter type receptacle” and an “outlet branch-circuit type arc-fault circuit-interrupter receptacle”? Please use consistent terminology.*

*Amendment 422.5, lines 2 and 4 – what is the difference between “be accessible” and “be readily accessible”? Please use consistent terminology.*

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Jason S. Thomas  
Commission Counsel  
Date submitted to agency: Thursday, January 28, 2016

## **Article 10 - ADMINISTRATIVE SECTION**

### **10.1 TITLE**

These Administrative Regulations along with the requirements included in the 2014 Edition of the National Electrical Code (NFPA-70 - 2014) as adopted by the North Carolina Building Code Council on December 15, 2015, to be effective April 1, 2016, with the following amendments:

- (1) 110.26(E)(2)
- (2) 210.8(A)(3) (Exception No. 2)
- (3) 210.8(A)(7)
- (4) 210.8(D)
- (5) 210.12(A)
- (6) 210.52(I)
- (7) 250.50
- (8) 250.53(A)(2) (Exception No. 2)
- (9) 310.15(B)(7)
- (10) 334.15(C)
- (11) 404.2(C)(8)
- (12) 406.4(D)
- (13) 422.5

shall be known as the North Carolina Electrical Code, and may be cited as such or as the State Electrical Code; and will be referred to herein as “the code” or “this code”.

### **10.2 SCOPE**

Article 80 Administration and Enforcement of the code is hereby not adopted and does not apply for this code. For Scope and Exceptions to Applicability of Technical Codes, refer to the North Carolina Administrative Code and Policies.

### **10.3 PURPOSE**

The purpose of the code is to provide minimum standards, provisions and requirements of safe and stable design, methods of construction and uses of materials in buildings or structures hereafter erected, constructed, enlarged, altered, repaired, moved, converted to other uses of demolished and to regulate the electrical systems, equipment, maintenance, use and occupancy of all buildings or structures. All regulations contained in this code have a reasonable and substantial connection with the public health, safety, morals, or general welfare, and their provisions shall be construed liberally to those ends.

### **10.4 ADMINISTRATION**

For administrative regulations pertaining to inspection (rough-ins and finals), permits and Certificates of Electrical Compliance, see local ordinances and the North Carolina Administrative Code and Policies. When the provisions of other codes are determined to be contrary to the requirements of this code, this code shall prevail.

### **10.5 DEFINITION**

Unless the context indicates otherwise, whenever the word “building” is used in this chapter, it shall be deemed to include the word “structure” and all installations such as plumbing systems, heating systems, cooling systems, electrical systems, elevators and other installations which are parts of, or permanently affixed to, the building or structure.

### **10.6 APPLICATION OF CODE TO EXISTING BUILDINGS**

For requirements of existing structures, refer to the North Carolina Administrative Code and Policies.



## **10.7 SERVICE UTILITIES**

**10.7.1 Connection of Service Utilities** – No person shall make connections from a utility, source of energy, fuel or power to any building or system which is regulated by the technical codes until approved by the Inspection Department and a Certificate of Compliance is issued (General Statute 143-143.2)

**10.7.2 Authority to disconnect Service Utilities** – The Inspection Department shall have the authority to require disconnecting a utility service to the building, structure or system regulated by the technical codes, in case of emergency or where necessary to eliminate an imminent hazard to life or property. The Inspection Department shall have the authority to disconnect a utility service when a building has been occupied prior to Certificate of Compliance or entry into the building for purposes of making inspections cannot be readily granted. The Inspection Department shall notify the serving utility, and whenever possible the owner or occupant of the building, structure or service system of the decision to disconnect prior to taking such action. If not notified prior to disconnecting, the owner or occupant shall be notified in writing within eight (8) working hours (General Statutes 143-143.2, 153A-365, 153A-366, 160A-425 and 160A-426).

## **10.8 TEMPORARY POWER**

**10.8.1 Scope.** The provisions of this section apply to the utilization of portions of the wiring system within a building to facilitate construction.

**10.8.2 Provisions for Temporary Power.** The Code enforcement official shall give permission and issue a permit to energize the electrical service when the provisions of 10.8 and the following requirements have been met:

- 1) The service wiring and equipment, including the meter socket enclosure, shall be installed, the service wiring terminated, and the service equipment covers installed.
- 2) The portions of the electrical system that are to be energized shall be complete and physically protected.
- 3) The grounding electrode system shall be complete.
- 4) The grounding and the grounded conductors shall be terminated in the service equipment.
- 5) At least one receptacle outlet with ground fault circuit interrupter protection for personnel shall be installed with the circuit wiring terminated.
- 6) The applicable requirements of the North Carolina Electrical Code apply.

**10.8.3 Uses Prohibited.** In no case shall any portion of the permanent wiring be energized until the portions have been inspected and approved by an electrical Code Enforcement Official. Failure to comply with this section may result in disconnection of power or revocation of permit.

**10.8.4 Application for Temporary Power.** Application for temporary power shall be made by and in the name of the applicant. The application shall explicitly state the port portions of the energized electrical system, mechanical system, or plumbing system for which application is made, its intended use and duration.

**10.8.5 Security and Notification.** The applicant shall maintain the energized electrical system or that portion of the building containing the energized electrical system in a secured and locked manner or under constant supervision to exclude unauthorized personnel. The applicant shall alert personnel working in the vicinity of the energized electrical system to its presence.

## **10.9 Requirements of Other State Agencies, Occupational Licensing Boards, or Commissions**

The North Carolina State Building Codes do not include all additional requirements for buildings and structures that may be imposed by other State agencies, occupational licensing boards, and commissions. It shall be the responsibility of a permit holder, design professional, contractor, or occupational license holder to determine whether any additional requirements exist.

### **AMENDMENT 110.26(E)(2)**

**(2) Outdoor.** Outdoor installations shall comply with 110.26(E)(2)(a) and (b).

~~(a) *Installation Requirements.* Outdoor electrical equipment shall be installed in suitable enclosures and shall be protected from accidental contact by unauthorized personnel, or by vehicular traffic, or by accidental spillage or leakage from piping systems. The working clearance space shall include the zone described in 110.26(A). No architectural appurtenance or other equipment shall be located in this zone.~~

~~(b) *Dedicated Equipment Space.* The space equal to the width and depth of the equipment, and extending from grade to a height of 1.8 m (6 ft) above the equipment, shall be dedicated to the electrical installation. No piping or other equipment foreign to the electrical installation shall be located in this zone.~~

### **AMENDMENT 210.8(A)(3)**

**210.8 (A) (3) Outdoors**

*Exception No. 1 to (3): Receptacles that are not readily accessible and are supplied by a branch circuit dedicated to electric snow-melting, deicing, or pipeline and vessel heating equipment shall be permitted to be installed in accordance with 426.28 or 427.22, as applicable.*

*Exception No. 2 to (3): A single outlet receptacle supplied by a dedicated branch circuit which is located and identified for specific use by a sewage lift pump.*

### **AMENDMENT 210.8(A)(7)**

**210.8(A) (7) Sinks** — located in areas other than kitchens where receptacles are installed within 1.8 m (6 ft) of the outside edge of the sink.

### **AMENDMENT 210.8(D)**

~~**210.8 (D) Kitchen Dishwasher Branch Circuit.** GFCI protection shall be provided for outlets that supply dishwashers installed in dwelling unit locations.~~

### **AMENDMENT 210.12**

**210.12 Arc-Fault Circuit-Interrupter Protection.** Arc-fault circuit-interrupter protection shall be provided as required in 210.12(A) (B), and (C). The arc-fault circuit interrupter shall be installed in a readily an accessible location.

**(A) Dwelling Units.** All 120-volt, single-phase, 15- and 20-ampere branch circuits supplying outlets or devices installed in dwelling unit ~~kitchens~~, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, ~~laundry areas~~, or similar rooms or areas shall be protected by any of the means described in 210.12(A)(1) through (6):

### **AMENDMENT 210.52(I)**

**210.52 (I) Foyers.** Foyers that are not part of a hallway in accordance with 210.52(H) and that have an area that is greater than 5.6 m<sup>2</sup> (60 ft<sup>2</sup>) shall have at least one receptacle(s) ~~located in each wall space 900 mm~~ (3 ft) or more in width. Doorways, door-side windows that extend to the floor, and similar openings shall ~~not be considered wall space.~~

## **AMENDMENT 250.50**

**250.50 Grounding Electrode System.** All grounding electrodes as described in 250.52(A)(1) through (A)(7) that are ~~available present~~ at each building or structure served shall be bonded together to form the grounding electrode system. Where none of these grounding electrodes exist, one or more of the grounding electrodes specified in 250.52(A)(4) through (A)(8) shall be installed and used.

## **AMENDMENT 250.53(A)(2)**

250.53 (A) (2)

Exception No. 1: If a single, rod, pipe, or plate grounding electrode has a resistance to earth of 25 ohms or less, the supplemental electrode shall not be required.

Exception No. 2: The supplemental ground electrode shall not be required at temporary electrical service installation (saw service pole) at construction site for one and two-family residences, provided the temporary electrical service does not exceed 150 volts to ground or 100A.

## **AMENDMENT 310.15(B)(7)**

### **310.15 (B) (7) 120/240-Volt, Single-Phase Dwelling Services and Feeders.**

~~For one-family dwellings and the individual dwelling units of two-family and multifamily dwellings, service and feeder conductors supplied by a single-phase, 120/240-volt system shall be permitted be sized in accordance with 310.15(B)(7)(1) through (4).~~

~~(1) For a service rated 100 through 400 A, the service conductors supplying the entire load associated with a one-family dwelling, or the service conductors supplying the entire load associated with an individual dwelling unit in a two-family or multifamily dwelling, shall be permitted to have an ampacity not less than 83 percent of the service rating.~~

~~(2) For a feeder rated 100 through 400 A, the feeder conductors supplying the entire load associated with a one-family dwelling, or the feeder conductors supplying the entire load associated with an individual dwelling unit in a two-family or multifamily dwelling, shall be permitted to have an ampacity not less than 83 percent of the feeder rating.~~

~~(3) In no case shall a feeder for an individual dwelling unit be required to have an ampacity greater than that specified in 310.15(B)(7)(1) or (2).~~

~~(4) Grounded conductors shall be permitted to be sized smaller than the ungrounded conductors, provided that the requirements of 220.61 and 230.42 for service conductors or the requirements of 215.2 and 220.61 for feeder conductors are met.~~

~~Informational Note No. 1: The conductor ampacity may require other correction or adjustment factors applicable to the conductor installation.~~

~~Informational Note No. 2: See Example D7 in Annex D.~~

**Replace with 2011 NEC text & table:**

**310.15 (B) (7) 120/240-Volt, 3-Wire, Single-Phase Dwelling Services and Feeders.** For individual dwelling units of one-family, two-family, and multifamily dwellings, conductors, as listed in Table 310.15(B)(7), shall be permitted as 120/240-volt, 3-wire, single-phase service-entrance conductors, service-lateral conductors, and feeder conductors that serve as the main power feeder to each dwelling unit and are installed in raceway or cable with or without an equipment grounding conductor. For application of this section, the main power feeder shall be the feeder between the main disconnect and the panelboard that supplies, either by branch circuits or by feeders, or both, all loads that are part or associated with the dwelling unit. The feeder conductors to a dwelling unit shall not be required to have an allowable ampacity rating greater than their service-entrance conductors. The grounded conductor shall be permitted to be smaller than the ungrounded conductors, provided the requirements of 215.2, 220.61, and 230.42 are met.

**Table 310.15(B)(7) Conductor Types and Sizes for 120/240-Volt, 3-Wire, Single-Phase Dwelling Services and Feeders. Conductor Types RHH, RHW, RHW-2, THHN, THHW, THW, THW-2, THWN, THWN-2, XHHW, XHHW-2, SE, USE, USE-2**

Service or Feeder Rating (Amperes)	Conductor (AWG or kcmil)	
	Copper	Aluminum or Copper-Clad Aluminum
100	4	2
110	3	1
125	2	1/0
150	1	2/0
175	1/0	3/0
200	2/0	4/0
225	3/0	250
250	4/0	300
300	250	350
350	350	500
400	400	600

**AMENDMENT 334.15(C)**

**334.15 (C) In Unfinished Basements and ~~Crawl Spaces~~.** Where cable is run at angles with joists in unfinished basements, ~~and crawl spaces~~, it shall be permissible to secure cables not smaller than two 6 AWG or three 8 AWG conductors directly to the lower edges of the joists. Smaller cables shall be run either through bored holes in joists or on running boards. Nonmetallic-sheathed cable installed on the wall of an unfinished basement shall be permitted to be installed in a listed conduit or tubing or shall be protected in accordance with 300.4. Conduit or tubing shall be provided with a suitable insulating bushing or adapter at the point the cable enters the raceway. The sheath of the nonmetallic-sheathed cable shall extend through the conduit or tubing and into the outlet or device box not less than 6 mm (1/4 in.). The cable shall be secured within 300 mm (12 in.) of the point where the cable enters the conduit or tubing. Metal conduit, tubing, and metal outlet boxes shall be connected to an equipment grounding conductor complying with the provisions of 250.86 and 250.148.

**AMENDMENT 404.2(C)(8)**

**Article 404.2(C)**

(8) Where installed in residential one- and two- family dwellings

**AMENDMENT 406.4(D)**

**406.4 (D) Replacements.** Replacement of receptacles shall comply with 406.4(D)(1) through (D)(6), as applicable. Arc-fault circuit-interrupter type and ground-fault circuit-interrupter type receptacles shall be installed in a ~~readily an~~ accessible location.

**(4) Arc-Fault Circuit-Interrupter Protection.** Where a receptacle outlet is supplied by a branch circuit that requires arc-fault circuit-interrupter protection as specified elsewhere in this *Code*, a replacement receptacle at this outlet shall be one of the following:

- (1) A listed outlet branch-circuit type arc-fault circuit-interrupter receptacle
  - (2) A receptacle protected by a listed outlet branch-circuit type arc-fault circuit-interrupter type receptacle
  - (3) A receptacle protected by a listed combination type arc-fault circuit-interrupter type circuit breaker
- Exception: Non-grounding type receptacles.

**AMENDMENT 422.5**

**422.5 Ground-Fault Circuit-Interrupter (GFCI) Protection.** The device providing GFCI protection required in this article shall be readily accessible.

Exception: For one- and two-family residences, the device providing the GFCI protection required in this article shall be accessible.