

TITLE 675 FIRE PREVENTION AND BUILDING SAFETY COMMISSION**Final Rule**

LSA Document #07-483(F)

DIGEST

Amends [675 IAC 14-4.3](#), the 2005 Indiana Residential Code, to clarify, amend, and modify the code and to update various referenced standards by adopting by reference and amending Chapter 43 of the 2006 International Residential Code. Repeals [675 IAC 14-4.3-34](#), [675 IAC 14-4.3-97](#), [675 IAC 14-4.3-134](#), [675 IAC 14-4.3-138](#), and [675 IAC 14-4.3-236](#). Effective 30 days after filing with the Publisher.

[675 IAC 14-4.3-1](#); [675 IAC 14-4.3-3](#); [675 IAC 14-4.3-13.5](#); [675 IAC 14-4.3-21](#); [675 IAC 14-4.3-23.5](#); [675 IAC 14-4.3-26](#); [675 IAC 14-4.3-27](#); [675 IAC 14-4.3-28](#); [675 IAC 14-4.3-32](#); [675 IAC 14-4.3-34](#); [675 IAC 14-4.3-34.5](#); [675 IAC 14-4.3-36](#); [675 IAC 14-4.3-37](#); [675 IAC 14-4.3-38.5](#); [675 IAC 14-4.3-46](#); [675 IAC 14-4.3-50](#); [675 IAC 14-4.3-51](#); [675 IAC 14-4.3-62](#); [675 IAC 14-4.3-66](#); [675 IAC 14-4.3-68](#); [675 IAC 14-4.3-71](#); [675 IAC 14-4.3-78](#); [675 IAC 14-4.3-78.5](#); [675 IAC 14-4.3-79](#); [675 IAC 14-4.3-80](#); [675 IAC 14-4.3-86.5](#); [675 IAC 14-4.3-89.5](#); [675 IAC 14-4.3-93.5](#); [675 IAC 14-4.3-94.5](#); [675 IAC 14-4.3-94.6](#); [675 IAC 14-4.3-96](#); [675 IAC 14-4.3-96.5](#); [675 IAC 14-4.3-97](#); [675 IAC 14-4.3-100](#); [675 IAC 14-4.3-100.5](#); [675 IAC 14-4.3-108](#); [675 IAC 14-4.3-109](#); [675 IAC 14-4.3-110](#); [675 IAC 14-4.3-115](#); [675 IAC 14-4.3-115.5](#); [675 IAC 14-4.3-115.6](#); [675 IAC 14-4.3-116](#); [675 IAC 14-4.3-125.5](#); [675 IAC 14-4.3-126](#); [675 IAC 14-4.3-127](#); [675 IAC 14-4.3-132.5](#); [675 IAC 14-4.3-132.6](#); [675 IAC 14-4.3-132.7](#); [675 IAC 14-4.3-134](#); [675 IAC 14-4.3-138](#); [675 IAC 14-4.3-139](#); [675 IAC 14-4.3-143.5](#); [675 IAC 14-4.3-144](#); [675 IAC 14-4.3-144.5](#); [675 IAC 14-4.3-144.6](#); [675 IAC 14-4.3-144.7](#); [675 IAC 14-4.3-145](#); [675 IAC 14-4.3-145.5](#); [675 IAC 14-4.3-146.3](#); [675 IAC 14-4.3-146.5](#); [675 IAC 14-4.3-148](#); [675 IAC 14-4.3-148.5](#); [675 IAC 14-4.3-151](#); [675 IAC 14-4.3-153.5](#); [675 IAC 14-4.3-154.5](#); [675 IAC 14-4.3-155.5](#); [675 IAC 14-4.3-168.5](#); [675 IAC 14-4.3-178](#); [675 IAC 14-4.3-191.5](#); [675 IAC 14-4.3-206](#); [675 IAC 14-4.3-215](#); [675 IAC 14-4.3-220.1](#); [675 IAC 14-4.3-220.2](#); [675 IAC 14-4.3-227.1](#); [675 IAC 14-4.3-227.3](#); [675 IAC 14-4.3-233](#); [675 IAC 14-4.3-233.3](#); [675 IAC 14-4.3-234](#); [675 IAC 14-4.3-236](#); [675 IAC 14-4.3-242](#); [675 IAC 14-4.3-243](#); [675 IAC 14-4.3-251.1](#); [675 IAC 14-4.3-251.5](#); [675 IAC 14-4.3-251.6](#); [675 IAC 14-4.3-257](#)

SECTION 1. [675 IAC 14-4.3-1](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-1](#) Adoption by reference; title; purpose

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 1. (a) ~~That~~ **Those** certain ~~document documents~~ being titled the 2003 International Residential Code for One and Two Family Dwellings, fifth printing, **and Chapter 43 of the 2006 International Residential Code for One and Two Family Dwellings, first printing**, published by the International Code Council, 5203 Leesburg Pike, Suite 708, Falls Church, Virginia 22041-3401, **is are** hereby adopted by reference as if fully set out in this rule save and except those revisions made in this rule.

(b) This rule shall be:

(1) known as the Indiana Residential Code, 2005 edition; and ~~shall be~~

(2) published, except incorporated documents, by the ~~fire and building services~~ department **of homeland security** for general distribution and use under that title.

Wherever the term "this code" is used throughout this rule, it shall mean the Indiana Residential Code, 2005 edition.

(c) This rule is available for reference and review at the Department of ~~Fire and Building Services~~, **Homeland Security**, Indiana Government Center-South, 402 West Washington Street, Room W246, Indianapolis, Indiana 46204.

(d) The purpose of this code is to provide minimum requirements for safety and to safeguard property, public safety, and general welfare through affordability, by regulating and controlling the design, construction, installation, and quality of materials of residential structures as regulated by this code.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-1](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3256, eff

SECTION 2. [675 IAC 14-4.3-3](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-3](#) Section R202; definitions

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 25-4](#); [IC 25-31](#); [IC 36-7](#)

Sec. 3. Change Section R202, Definitions, as follows:

~~(a)~~ **(1)** Change the definition of ACCESSORY STRUCTURE to read as follows: In one and two family dwellings and for the purpose of APPENDIX E, structures not more than 3 stories high with separate means of egress, and the use of which is incidental to that of the main building and which is located on the same lot.

~~(b)~~ **(2)** Change the definition of ALTERATION by deleting "other than repair".

~~(c)~~ **(3)** Change APPROVED to read as follows: APPROVED means, as to materials, equipment, appliances, methods of design, and types of construction, acceptance by the building official by one (1) of the following methods:

- (1) investigation or tests conducted by recognized authorities;
- (2) investigation or tests conducted by technical or scientific organizations; or
- (3) accepted principles.

The investigation, tests, or principles shall establish that the materials, equipment, appliances, methods of design, and types of construction are safe for their intended purpose.

~~(d)~~ **(4)** Change the definition of BUILDING, EXISTING to read as follows: BUILDING, EXISTING. Existing building is a building or structure erected prior to the adoption of this code.

~~(e)~~ **(5)** Change the definition of BUILDING OFFICIAL to read as follows: BUILDING OFFICIAL, as used in this code, shall be the local official or officials as designated in local ordinance, except it shall be the state building commissioner for Industrialized Building Systems under [675 IAC 15](#) and [IC 22-15](#) and for plan review for townhouses under [675 IAC 12](#) and [IC 22-15](#).

~~(f)~~ **(6)** Delete the definition of CONSTRUCTION DOCUMENTS and substitute to read as follows: CONSTRUCTION DOCUMENTS. For construction documents, see the General Administrative Rules ([675 IAC 12](#)) for Class 1 structures and local ordinance for Class 2 structures.

~~(g)~~ **(7)** Delete, from the definition of ESSENTIALLY NONTOXIC TRANSFER FLUIDS, the following: "; and FDA-approved boiler water additions for steam boilers".

~~(h)~~ **(8)** Change the definition of EXISTING INSTALLATIONS to read as follows: Any system regulated by this code that was legally installed prior to the effective date of this code.

~~(i)~~ **(9)** Add the a definition of FAMILY after the definition of FACTORY-BUILT CHIMNEY to read as follows: FAMILY means an individual or 2 or more persons related by blood or marriage and/or a group of not more than 10 persons (excluding servants) who need not be related by blood or marriage living together in a dwelling unit.

(10) Change the definition of FIREBLOCKING to read as follows: **Building materials, or materials labeled for use as fireblocking, installed to resist the free passage of flame to other areas of the building through concealed spaces.**

~~(j)~~ **(11)** Add, in the definition of FOAM PLASTIC INSULATION, "of" between the words "consisting" and "open".

~~(k)~~ **(12)** Add the a definition of FOUNDATION WALL after FOAM PLASTIC INSULATION to read as follows: FOUNDATION WALL means the supporting element(s) that extend from the top of the footing to the bottom of the sill plate.

~~(l)~~ **(13)** Delete, in the definition of HEATING DEGREE DAY (HDD), "acceptable to the code" and substitute "approved by the building".

~~(m)~~ **(14)** Add the following definitions after INSULATING SHEATHING:

INTERNATIONAL BUILDING CODE means the Indiana Building Code ([675 IAC 13](#)).

ICC ELECTRICAL CODE means the Indiana Electrical Code ([675 IAC 17](#)).

INTERNATIONAL FIRE CODE means the Indiana Fire Code ([675 IAC 22](#)).

INTERNATIONAL FUEL GAS CODE means the Indiana Fuel Gas Code ([675 IAC 25](#)).

INTERNATIONAL MECHANICAL CODE means the Indiana Mechanical Code ([675 IAC 18](#)).

INTERNATIONAL PLUMBING CODE means the Indiana Plumbing Code ([675 IAC 16](#)).

~~(n)~~ **(15)** Delete the definition of LABELED and substitute to read as follows: LABELED. Equipment or materials to which has been attached a label, symbol, or other identifying mark of an organization engaged in product evaluation that maintains periodic inspection or production of labeled equipment or materials and by whose

labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner.

~~(e)~~ **(16)** Delete the definition of LISTED AND LISTING and substitute to read as follows: LISTED AND LISTING. Equipment or materials included in a list published by an organization engaged in product evaluation that maintains periodic inspection of production of listed equipment or materials and whose listing states either that the equipment or material meets appropriate standards or has been tested and found suitable for use in a specified manner.

(17) Add a definition of MONO-PITCH TRUSS after MODIFIED BITUMEN ROOF COVERING to read as follows: MONO-PITCH TRUSS means a truss with a top chord having a single uninterrupted slope of more than 1.5/12.

~~(p)~~ **(18)** Add the a definition of NATIONAL ELECTRICAL CODE after MULTIPLE STATION SMOKE ALARM to read as follows: NATIONAL ELECTRICAL CODE means the Indiana Electrical Code ([675 IAC 17](#)).

~~(q)~~ **(19)** Add the a definition of NFPA 70 after NATURAL DRAFT SYSTEM to read as follows: NFPA 70 means the Indiana Electrical Code ([675 IAC 17](#)).

~~(r)~~ **(20)** Delete the definition of PERMIT.

~~(s)~~ **(21)** Delete, in the definition of PLUMBING, ", repairs, maintenance".

~~(t)~~ **(22)** Delete, in the definition of PLUMBING APPURTENANCE, ", maintenance, servicing, economy".

~~(u)~~ **(23)** Delete the definition of POTABLE WATER and substitute to read as follows: POTABLE WATER. Water that at the point of use is acceptable for human consumption under drinking water standards adopted by the Water Pollution Control Board at [327 IAC 8](#).

~~(v)~~ Delete the definition of REGISTERED DESIGN PROFESSIONAL.

~~(w)~~ Add **(24)** Change the definition of RECESSED LIGHT after RECEPTOR to read as follows: **RECESSED LUMINAIRE. For purposes of Chapter 11, RECESSED LIGHT LUMINAIRE** means a light fixture luminaire that by design penetrates the thermal boundary of the building.

(25) Add a definition for REGISTERED DESIGN PROFESSIONAL to read as follows: REGISTERED DESIGN PROFESSIONAL means an architect who is registered under [IC 25-4](#) or a professional engineer who is registered under [IC 25-31](#).

~~(x)~~ **(26)** Delete the definition of ROOF REPAIR.

(27) Add a definition of SILL PLATE after the definition of SIDE VENT to read as follows: SILL PLATE means in frame construction the bottom rough structural member that rests on the foundation.

~~(y)~~ **(28)** Add the a definition of SLAB-ON-GRADE FLOOR INSULATION after SKYLIGHT AND SLOPED GLAZING to read as follows: SLAB-ON-GRADE FLOOR INSULATION means insulation around the perimeter of the floor slab or its supporting foundation.

(29) Add a definition of SOLE PLATE after the definition of SOLAR HEAT GAIN COEFFICIENT (SHGC) to read as follows: SOLE PLATE means in frame construction the horizontal member of a frame wall or partition that rests on any type floor.

~~(z)~~ **(30)** Add the a definition of SMOKE ALARM after SLOPE to read as follows: SMOKE ALARM an alarm device that is responsive to smoke.

~~(aa)~~ **(31)** Add the a definition of TACTILE NOTIFICATION APPLIANCE after SWEEP to read as follows: TACTILE NOTIFICATION APPLIANCE a notification appliance that alerts by sense of touch or vibration.

~~(bb)~~ **(32)** Add to the definition of TOWNHOUSE, between "units" and "in", "separated by property lines".

(33) Change, in the definition for UNUSUALLY TIGHT CONSTRUCTION, 3, to read as follows: 3. Caulking or sealants are applied to joints and openings in the thermal envelope of the building such as: joints around window and door frames; between supporting structure and sill and sole plates; wall-ceiling joints; and at penetrations for plumbing, electrical and gas lines.

(34) Add a definition of WORKMANSHIP after the definition of WOOD STRUCTURAL PANEL to read as follows: WORKMANSHIP means the installation, application, or construction of materials, equipment, or fixtures as they are intended to be incorporated into a one-or-two-family dwelling as mandated by this code, the manufacturer, or industry standards. Items that are aesthetic in nature and that do not affect the livability, intended use, or the safety of a structure are excluded.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-3](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3257, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 3. [675 IAC 14-4.3-13.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-13.5](#) Section R301.2.2.2.1; weight of materials

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 13.5. Make the following changes to Section R301.2.2.2.1:

(1) Change the first sentence to read as follows: Average dead loads shall not exceed 15 psf (0.72 kN/m²) for the combined roof and ceiling assemblies (on a horizontal projection) or 10 psf (0.48 kN/m²) for floor assemblies, except as further limited by Section R301.2.2.

(2) Change the exception to read as follows: Exceptions: 1. Roof and ceiling dead loads not exceeding 25 psf (1.19 kN/m²) shall be permitted provided the wall bracing amounts in Chapter 6 are increased in accordance with Table R301.2.2.2.1.

(3) Add two (2) exceptions to read as follows:

2. Light-frame walls with stone or masonry veneer shall be permitted in accordance with the provisions of Sections R702.1 and R703.

3. Fireplaces and chimneys shall be permitted in accordance with Chapter 10.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-13.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 4. [675 IAC 14-4.3-21](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-21](#) Section R303.1; habitable rooms

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 21. Delete the third sentence of Section R303.1 and substitute to read as follows: Ventilation openings shall be readily accessible and operable.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-21](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3265, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 5. [675 IAC 14-4.3-23.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-23.5](#) Section R304.3; minimum dimensions

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 23.5. Delete the first sentence of Section R304.3 and substitute to read as follows: Habitable rooms shall not be less than 7 feet (2,134 mm) in either horizontal dimension for the purpose of Section R304.2.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-23.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 6. [675 IAC 14-4.3-26](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-26](#) Section R309; garages and carports

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 26. Change the title and text of Section R309 as follows:

~~(a)~~ (1) Change the title of Section R309 to read as follows: GARAGES, CARPORTS, OR ACCESSORY STRUCTURES.

~~(b)~~ (2) Change the text of Section R309.2 to read as follows: The garage shall be separated from the residence and its attic area by a smoke separation of not less than 1/2 inch (13 mm) gypsum board applied to the garage side of the framing.

Exception: Pull down stairs may be installed in garage/attic separations when installed in a manner that

resists the passage of smoke.

(e) **(3)** Change the second paragraph of Sections R309.3 and R309.4 to read as follows: The area of floor used for parking of automobiles or other vehicles shall be sloped to facilitate the movement of liquids to an approved drain or toward the main vehicle entry doorway.

(d) **(4)** Delete the title and text of Section R309.5, Flood hazard areas, and substitute to read as follows: R309.5 Detached garages, carports, or accessory structures.

R309.5.1 Separation. Detached garages, carports, ~~or~~ **and** accessory structures shall ~~provide~~ **be separated from dwellings by** not less than 6 feet **(1,829 mm)** of open space, ~~between same and the residence,~~ except that such space may be roofed in ~~compliance~~ **accordance** with Chapters 8 and 9 of this code. Detached garages, carports, ~~or~~ **and** accessory structures separated from ~~the residence~~ **dwellings** by less than 6 feet **(1,829 mm)** of open space shall be considered the same as attached ~~and shall comply with this code:~~

garages, carports, and accessory structures. In no case shall garages, carports, or accessory structures be attached to the dwelling when the footings of the structure to be attached are above the frost line and the adjacent footings of the dwelling are at or below the frost line unless approved by the building official.

R309.5.2 Requirements. Detached garages, detached carports, or accessory structures shall be constructed to applicable sections of this code unless otherwise noted in TABLE R309. Any habitable ~~rooms~~ **area(s)** located within a detached garage ~~detached carport,~~ or accessory structure shall meet all applicable sections of this code and shall be provided with an exit door as specified in Section ~~R311.1.~~ **R311.**

(e) **(5)** Add TABLE R309 at the end of Section R309 to read as follows:

TABLE R309
DETACHED GARAGES, DETACHED CARPORTS, OR ACCESSORY STRUCTURES

CONSTRUCTION REQUIREMENTS	Portable 200 Square Feet Maximum	Monolithic ¹ Footings 721 Square Feet Maximum	Structures with Conventional Foundation
Footings and Foundations	No Requirements	8" W x 18" D ² or 12" W x 12" D ²	Indiana Residential Code
Floors	No Requirements	Indiana Residential Code	
Exterior Walls	No Requirements		
Girders and Headers	No Requirements		
Roof Systems	No Requirements		
Electrical Power Limits	One 20 Amp. Circuit		
Water Supply/Sanitation	Not Allowed	1	
Permanent Heat	Not Allowed	1	
Maximum Number of Stories	1	1 ³	3

NOTES:

¹In structures utilizing monolithic floor systems, the water and sanitation systems and permanent heating facilities may be installed when approved flexible connections are provided.

²6 x 6 - W2.9 x W2.9 welded wire fabric or equivalent is required when monolithic slab footing system is used.

³One story unless otherwise approved by the building official.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-26](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3265, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 7. [675 IAC 14-4.3-27](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-27](#) Section R310; emergency escape and rescue openings

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 27. Change Section R310 as follows:

(a) **(1)** Change the first sentence of Section R310.1 to read as follows: Every sleeping room shall have at least one openable emergency escape and rescue opening **that opens directly to the exterior.**

(b) **(2)** Delete the second sentence of Section R310.1 without substitution.

(e) **(3)** In Section R310.1.2, change "24 inches (610 mm)" to "22 inches (559 mm)".

(e) **(4)** Add Section R310.1.5 to read as follows: R310.1.5 Sleeping room replacement window alterations. When replacing existing sleeping room windows, at least one of the replacement windows within that sleeping room shall comply with Section R310.5. Replacement windows that do not meet the current emergency escape requirements of Section R310, without structural alterations to the dwelling, may be installed as long as they meet the following requirements.

1. Replacement window installation shall not reduce the existing net clear opening by more than 6 inches horizontally and 6 inches vertically, except that awning replacement windows shall not reduce the existing net clear opening by more than 3 inches vertically.
2. In no case shall the replacement window net clear opening height be less than 22 inches (559 mm) and the net clear opening width be less than 20 inches (508 mm).
3. Double hung or sliding replacement windows shall have both sashes removable without the use of a key or tool. Single hung installations are not allowed by this section.
4. Casement and awning replacement windows may obtain the required net clear opening with the use of egress hardware.
5. If the replacement window cannot meet the minimum requirements listed in subdivisions 1, 2, 3, and 4, the existing window shall be replaced with a like window without reducing the existing net clear opening.

(5) Add Section R310.3.1 to read as follows: R 310.3.1 Door swing. In areas subject to snow or ice accumulation, doors installed at the bottom of bulkhead enclosures to basements that serve as escape and rescue openings shall swing into the structure.

(6) Add Section R310.5 to read as follows: R310.5 Emergency escape windows under decks and porches. Emergency escape windows are allowed to be installed under decks and porches provided the location of the deck or porch allows an unobstructed passageway, not less than 30 inches (762 mm) high, 30 inches (762 mm) wide and not more than 20 feet (6.1 m) in length, to a yard or court.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-27](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3266, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 8. [675 IAC 14-4.3-28](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-28](#) Section R311.4.3; landings at doors

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 28. Make ~~Delete~~ the following change to **title and text of** Section R311.4.3 ~~In the exception to the second paragraph of SECTION R311.4.3, delete "7¾ inches (196 mm)" and substitute "8¾ inches (210 mm)".~~ and substitute to read as follows:

R311.4.3 Landings at exterior doors. There shall be a landing on each side of each exterior door. The width of each landing shall not be less than the width of the door served. Every landing shall have a minimum dimension of 36 inches (914 mm) measured in the direction of travel. Exterior landings shall be permitted to have a slope not to exceed .25 units vertical in 12 units horizontal.

R311.4.3.1 Landings at the required exit door. Landings on the interior side of the required exit door shall not be more than 1.5 inches (38 mm) lower than the top of the threshold. Landings on the exterior side of the required exit door shall not be more than 8.25 inches (209 mm) below the top of the threshold. Where exterior landings serving the required exit door are not at grade level, they shall be provided with access to grade by steps, a stairway in accordance with Section R311.5 or a ramp in accordance with Section R311.6.

R311.4.3.2 Landings at the non-required exterior door. Doors, other than the required exit door, shall have landings installed not lower than 8.25 inches (209 mm) below the top of the threshold.

Exceptions:

1. Where the distance in height, measured between the top of the threshold and a floor below, is 16.5 inches (418 mm) or less, a single step with tread depth of at least 11 inches (279 mm) is permitted to be installed instead of a landing.
2. When a stairway of three or fewer risers is located at a non-required exterior door, a landing is not required for the exterior side of the non-required exterior door, provided the door, other than the screen or storm door, does not swing over the stairway.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-28](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3266, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 9. [675 IAC 14-4.3-32](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-32](#) Section R311.5.6.2; continuity

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 32. (a) **Change the first sentence of Section R311.5.6.2 to read as follows: Handrails for stairways shall serve each tread for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight.**

(b) Change Exception 1 by adding the words "or by a landing" after "turn" and before the ".".

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-32](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3267, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 10. [675 IAC 14-4.3-34.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-34.5](#) Section R311.6.1; maximum slope

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 34.5. **Change Section R311.6.1 to read as follows: Ramps shall have a maximum slope of one unit vertical in twelve units horizontal (8.3 percent slope).**

Exception: Where it is technically infeasible to comply because of site constraints, ramps may have a maximum slope of one unit vertical in eight units horizontal (12.5 percent slope).

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-34.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 11. [675 IAC 14-4.3-36](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-36](#) Section R312.2; guard opening limitations

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 36. Add, in the first sentence of Section ~~R316.2~~ **R312.2**, ", decks" between "balconies" and "and".

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-36](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3267, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 12. [675 IAC 14-4.3-37](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-37](#) Section R313; smoke alarms

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 37. Delete the text of Section R313 and substitute to read as follows: R313.1 Labeling. Each smoke alarm shall be listed:

R313.2 Required smoke alarm locations. At least one smoke alarm shall be installed in each of the following locations:

(a) In the living area remote from the kitchen and cooking appliances. Smoke alarms located within 20 feet

(6.1 m) horizontally of a cooking appliance must incorporate a temporary silencing feature or be photoelectric type.

(b) In each room designed for sleeping.

(c) On the ceiling of the upper level near the top or above each stairway, other than a basement stairway, in any multistory dwelling. The alarm shall be located so that smoke rising in the stairway cannot be prevented from reaching the alarm by an intervening door or obstruction.

(d) On the basement ceiling near the stairway.

R313.2.1 Alterations and additions. When interior alterations or additions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the individual dwelling unit shall be provided with smoke alarms located as required for new dwellings; the smoke alarms shall be interconnected and hard wired.

Exceptions:

1. Smoke alarms in existing areas shall not be required to meet the requirements of ~~R317.5~~ **R313.5** where the alterations do not result in the removal of the interior wall or ceiling finishes exposing the structure unless there is an attic, crawlspace, or basement available that could provide access for hard wiring and interconnection without the removal of interior finishes.

2. Repairs are exempt from the requirements of this section.

R313.3 Prohibited smoke alarm locations. A smoke alarm required under this section shall not be placed:

1. within 3 feet (914 mm) horizontally from any grille moving conditioned air within the living space; or

2. in any location or environment that is prohibited by the terms of the listing.

R313.4 Mounting requirements. Smoke alarms required by Section R313.2 shall be mounted in accordance with their listing, installation instructions, and the requirements of this section.

R313.4.1 Flat Ceilings. In rooms with flat, peaked sloping or single slope ceilings with a slope of less than 1.5/12, smoke alarms shall be mounted either:

1. on the ceiling at least 4 inches (102 mm) from each wall; or

2. on a wall with the top of the alarm not less than 4 inches (102 mm) below the ceiling and not farther from the ceiling than 12 inches (305 mm) or the distance from the ceiling specified in the smoke alarm manufacturer's listing and installation instructions, whichever is less.

R313.4.2 Peaked Sloping Ceilings. In rooms with peaked sloping ceilings with a slope of 1.5/12 or greater, smoke alarms shall be:

1. mounted on the ceiling or wall within 3 feet (914 mm) measured horizontally, from the peak of the ceiling;

2. at least 4 inches (102 mm), measured vertically, below the peak of the ceiling; and

3. at least 4 inches (102 mm) from any projecting structural element.

R313.4.3 Single Slope Ceilings. In rooms with single slope ceilings with a slope of 1.5/12 or greater, smoke alarms shall be:

1. mounted on the ceiling or wall within 3 feet (914 mm), measured horizontally, of the high point of the ceiling; and

2. not closer than 4 inches (102 mm) from any adjoining wall surfaces or any projecting structural element.

R313.4.4 Visible ~~and tactile~~ notification appliances. In addition to the smoke alarms required pursuant to this section, listed visible ~~and tactile~~ notification appliances, when installed, shall meet the following:

R313.4.4.1 Candela Rating-Sleeping Room. A visible notification appliance, when installed in a room designed for sleeping, shall have a minimum rating of 177 candela, except that when the visible notification appliance is wall-mounted or suspended more than 24 inches (610 mm) below the ceiling, a minimum rating of 110 candela is permitted.

R313.4.4.2 Candela Rating-Nonsleeping Room. A visible notification appliance, when installed in an area other than a room designed for sleeping, shall have a minimum rating of 15 candela.

R313.5 Connection to Power Source. Each smoke alarm shall be powered from:

1. the electrical system of the home as the primary power source and a battery as a secondary power source; or

2. a battery rated for a 10 year life, provided the smoke alarm is listed for use with a 10 year battery.

Exception: Visible ~~and tactile~~ notification appliances are required to operate from the primary power source but are not required to operate from a secondary power source.

R313.5.1 Circuitry. Each smoke alarm whose primary power source is the home electrical system shall be mounted on an electrical outlet box and be connected by a permanent wiring method to a general branch circuit. The same branch circuit may serve more than one smoke alarm. The branch circuit for the alarm shall not include any switches between the branch circuit overcurrent protective device and the alarm and shall not be protected by a ground-fault circuit-interrupter.

R313.5.2 Interconnection. When more than one smoke alarm is required to be installed within an individual dwelling unit, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-37](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3267, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 13. [675 IAC 14-4.3-38.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-38.5](#) Section R317.1; two-family dwellings

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 38.5. Change "Exception", in R317.1, to "Exceptions", number the exception as 1, and add a second exception to read as follows: 2. Wall assemblies need not extend through attic spaces of two-family dwelling structures under single ownership when the ceiling is protected by not less than 5/8-inch Type X gypsum board and an attic draft stop constructed as specified in R502.12.1 is provided above and along the wall assembly separating the dwellings. The structural wall framing supporting the ceiling shall also be protected by not less than 1/2-inch gypsum board or equivalent on the interior surface.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-38.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 14. [675 IAC 14-4.3-46](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-46](#) Section R319.3; fasteners

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 46. Delete the text **first sentence** of Section R319.3 and substitute to read as follows: Fasteners for pressure preservative treated wood shall be of G185 hot-dipped galvanized steel, stainless steel, silicon bronze, copper, or **meet** the requirements of the chemical manufacturer of the chemicals used in the treated wood. Except for borate treated wood, aluminum fasteners, hardware, or flashing shall not be in direct contact with pressure preservative treated wood. Fasteners for fire-retardant **treated** wood shall be of hot-dipped galvanized steel, stainless steel, silicon bronze, copper, or **meet** the requirements of the chemical manufacturer of the chemicals used in the treated wood.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-46](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3270, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 15. [675 IAC 14-4.3-50](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-50](#) Section R323; flood-resistant construction

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 50. Delete Section ~~323~~ **R323 FLOOD-RESISTANT CONSTRUCTION** and substitute to read as follows: See local ordinance.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-50](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3270, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 16. [675 IAC 14-4.3-51](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-51](#) Section R401.1; application

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 51. Delete the exceptions in Section 404.4. **R401.1.**

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-51](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3270, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 17. [675 IAC 14-4.3-62](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-62](#) Section R403.1.6; foundation anchorage

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 62. Make **Delete** the following changes to **first paragraph of Section R403.1.6 (a) Change and the fourth sentence first six (6) sentences of the second paragraph and substitute** to read as follows: **Bolts shall be at least ½ inch (13 mm) in diameter and shall extend a minimum 7 inches (178 mm) into the core, cell, or joint of the masonry unit and 7 inches (178 mm) into concrete.**

(b) Change the fifth sentence to read as follows: Interior bearing wall Sill plates and wall-panel sole plates supported directly on monolithic slab concrete or masonry foundations shall be positively anchored with anchor bolts or approved fasteners to the foundation in accordance with the manufacturer's instructions. this section.

Exterior wall wood sole and sill plates supported directly on masonry or concrete foundations shall be anchored to the foundation with bolts spaced a maximum of 6 feet on center. There shall be a minimum of two bolts for each plate section with one bolt located not more than 12 inches (305 mm) or less than seven bolt diameters from each end of the plate section. Sill plates supporting floor systems, on walls having less than 7 feet (2,135 mm) of unbalanced fill, shall be anchored to the foundation with bolts spaced not more than 12 inches (305 mm) from corners and a maximum of 6 feet (1,828 mm) on center. Sill plates supporting floor systems, on walls having 7 feet (2,135 mm) or more of unbalanced fill, shall be anchored to the foundation with bolts spaced not more than 12 inches (305 mm) from corners and a maximum of 4 feet (1,219 mm) on center. Bolts shall be at least 1/2 inch in diameter and shall extend a minimum 7 inches (178 mm) into masonry or concrete and shall have at least 1 1/2 inches of grout or concrete surrounding the bolt shaft. Interior bearing wall sole plates on concrete slab foundations shall be positively anchored with approved fasteners. A washer, sized to cover the hole in the plate, shall be installed on each bolt and a nut shall be used to tighten the washer to the plate.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-62](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3271, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 18. [675 IAC 14-4.3-66](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-66](#) Table R403.2; size of footings supporting piers and columns

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 66. Add TABLE R403.2 to read as follows:

TABLE R403.2
SIZE OF FOOTINGS SUPPORTING PIERS AND COLUMNS

Spacing of Girder "S" ¹	Type of Loading ²			Column Size Required ³		Size of Plain Concrete Footing Required ³
	A	B	C	Steel	Wood	
10'	5'-6"	-	-			

15'	4'-0"	-	-	3" Steel Pipe ⁴	4" x 4"	2' x 2' x 8" ⁵
20'	-	-	-			
10'	8'-6"	5'-0"	-			
15'	6'-0"	4'-0"	-			
20'	4'-6"	-	-			
10'	12'-0"	9'-0"	8'-0"		6" x 6"	4' x 4' x 16" ⁵
15'	10'-0"	8'-0"	7'-0"			
20'	8'-0"	7'-0"	6'-0"			
10'	16'-0"	12'-6"	11'-0"	8" x 8"	4'3" x 4'3" x 17" ⁵	
15'	13'-6"	10'-6"	10'-0"			
20'	12'-0"	9'-6"	8'-0"			
10'	20'-0"	16'-0"	13'-6"			
15'	17'-0"	13'-6"	11'-6"			
20'	15'-0"	12'-0"	10'-0"			

¹The spacing "S" is the tributary load in the girder. It is found by adding the unsupported spans of the floor joists on each side that are supported by the girder and dividing by 2.

²Figures under type of loading columns are the allowable girder span.

Type A loading is for a girder supporting 1 floor and a roof.

Type B loading is for a girder supporting 2 floors and a roof.

Type C loading is for a girder supporting 3 floors and a roof.

³Required size of column is based on girder support from 2 sides. Size of footing is based on allowable soil pressure of 2,000 pounds per square foot.

⁴Schedule 40.

⁵Footing thickness is based on the use of plain concrete with an ultimate compressive strength of not less than 2,000 pounds per square inch at 28 days. If approved, the footing thickness may be reduced based on an engineered design utilizing higher strength concrete and/or reinforcement.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-66](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3272, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 19. [675 IAC 14-4.3-68](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-68](#) Section R404.1; concrete and masonry foundation walls

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 68. (a) In the first sentence of Section R404.1, add "ACI 332" after "ACI 318" and before "NCMA TR68-A".

(b) Delete the last sentence of Section R404.1.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-68](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3272, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 20. [675 IAC 14-4.3-71](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-71](#) Section R404.1.5; foundation wall thickness based on walls supported

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 71. Delete the text of Section R404.1.5 and substitute to read ~~The thickness of~~ **as follows:** Concrete and masonry **foundation** walls shall not be less than the thickness of the wall supported.

~~EXCEPTION: A foundation wall~~ **Exceptions: Foundation walls** of at least 8 inches ~~(203 mm)~~ **nominal** thickness shall be permitted:

1. Under ~~brick veneered~~ frame walls, **with brick or masonry veneer, that are wider than the foundation as permitted in paragraph R606.3, or stud walls that are wider than required by Table R602.3.1 and are supported by a floor system.**
2. Under 10 inch ~~(254 mm)~~ wide, **multiple wythe masonry** cavity walls, where the total height of the walls supported, including gables, is not more than 20 feet, ~~(6,096 mm)~~ provided the requirements of Sections R404.1.1 and R404.1.2 are met.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-71](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3273, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 21. [675 IAC 14-4.3-78](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-78](#) Section R407.3; structural requirement

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 78. ~~In~~ **At the end of** the first sentence of Section R407.3, add "top and" after "the" and before "bottom". **"and attached at the top to the structural framing"**.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-78](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3274, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 22. [675 IAC 14-4.3-78.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-78.5](#) Section R408.1; ventilation

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 78.5. Change the last sentence of Section R408.1 to read as follows: One such ventilation opening shall be within 4 feet (1,219 mm) of each corner of said building.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-78.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 23. [675 IAC 14-4.3-79](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-79](#) Section R408.2; openings for under-floor ventilation

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 79. Make the following changes to Section R408.2: ~~(a)~~

(1) Delete the first two (2) sentences of R408.2 without substitution.

(2) Change Exception 1 to read as follows: Ventilation openings to the outdoors are not required if ventilation openings to the interior are provided.

~~(b)~~ **(3) Amend Exception 5 as follows: Delete "Section N1102.1.7" and substitute "Chapter 11 of this code".**

(4) Add Exception 6 to read as follows: 6. Ventilation openings are not required when the under-floor space is insulated in accordance with Chapter 11 of this code, the insulation materials comply with Sections R314 and R316 of this code and the ground surface is covered with an approved vapor retarder that extends to the exterior walls and all penetrations. The vapor retarder shall have a

minimum thickness of 0.006 inch and shall be installed so that any joints are lapped at least 6 inches (152 mm). Mechanical ductwork shall be uninsulated and shall have no openings into the under-floor space. A hard surface pad with dimensions of at least 16 inches (407 mm) by 16 inches (407 mm), and an electrical receptacle shall be installed to allow for the installation of dehumidification equipment in the event of high humidity conditions in the under-floor spaces. Openings into conditioned space shall be permitted.

(5) Add Exception 7 to read as follows: 7. Ventilation openings are not required when the under-floor space is insulated in accordance with Chapter 11 of this code, the insulation materials comply with Sections R314 and R316 of this code and there is a concrete floor at least 2 inches (51 mm) thick installed on the ground surface of the under-floor space. A vapor retarder, at least 0.006 inch (.152 mm) thick and extending to the exterior walls and penetrations, shall be installed under the concrete floor. Conditioned air shall be circulated through the under-floor space at a rate of at least 1 cfm (10 m²) for each 50 square feet (1.02 L/s) of under-floor space.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-79](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3274, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 24. [675 IAC 14-4.3-80](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-80](#) Section R408.3; access

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 80. Change Section R408.3 to read as follows: An access opening 24 inches by 18 inches (610 mm by 457 mm) shall be provided to the under-floor space. When the under-floor space access opening is through a wall, the opening shall be a minimum of 24 inches (609 mm) wide by 16 inches (406 mm) high with an areaway provided for access to the under-floor opening. The areaway shall be not less than 24 inches (609 mm) long parallel to the wall at the access opening by 16 inches (406 mm) wide perpendicular to the wall at the center of the access opening. The bottom of the areaway shall be below the threshold of the access opening. The under-floor access opening shall not be under a door.

Exception: Access may be placed under a doorway provided the step or steps that cover the opening to the crawlspace are attached to the structure at the top with a fixed pin-type hinge, so that, when the step or steps are in the raised position, passage by way of the doorway is restricted.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-80](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3274, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 25. [675 IAC 14-4.3-86.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-86.5](#) Table R502.5(1); girder spans and header spans for exterior bearing walls

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 86.5. Delete Table R502.5(1) and substitute to read as follows:

TABLE R502.5(1)
GIRDER SPANS^a AND HEADER SPANS^a FOR EXTERIOR BEARING WALLS
(Maximum spans for Douglas fir-larch, hem-fir, southern pine and spruce-pine-fir^b and regulated number of jack studs)

Girders and Headers Supporting	Size	Ground Snow Load (psf) ^e																	
		30						50						70					
		Building width ^c (feet)																	
		20		28		36		20		28		36		20		28		36	
		Span	NJ ^d	Span	NJ ^d	Span	NJ ^d	Span	NJ ^d	Span	NJ ^d	Span	NJ ^d	Span	NJ ^d	Span	NJ ^d	Span	NJ ^d

Roof and Ceiling	2-2x4	3-6	1	3-2	1	2-10	1	3-2	1	2-9	1	2-6	1	2-10	1	2-6	1	2-3	1
	2-2x6	5-5	1	4-8	1	4-2	1	4-8	1	4-1	1	3-8	2	4-2	1	3-8	2	3-3	2
	2-2x8	6-10	1	5-11	2	5-4	2	5-11	2	5-2	2	4-7	2	5-4	2	4-7	2	4-1	2
	2-2x10	8-5	2	7-3	2	6-6	2	7-3	2	6-3	2	5-7	2	6-6	2	5-7	2	5-0	2
	2-2x12	9-9	2	8-5	2	7-6	2	8-5	2	7-3	2	6-6	2	7-6	2	6-6	2	5-10	3
	3-2x8	8-4	1	7-5	1	6-8	1	7-5	1	6-5	2	5-9	2	6-8	1	5-9	2	5-2	2
	3-2x10	10-6	1	9-1	2	8-2	2	9-1	2	7-10	2	7-0	2	8-2	2	7-0	2	6-4	2
	3-2x12	12-2	2	10-7	2	9-5	2	10-7	2	9-2	2	8-2	2	9-5	2	8-2	2	7-4	2
	4-2x8	9-2	1	8-4	1	7-8	1	8-4	1	7-5	1	6-8	1	7-8	1	6-8	1	5-11	2
	4-2x10	11-8	1	10-6	1	9-5	2	10-6	1	9-1	2	8-2	2	9-5	2	8-2	2	7-3	2
4-2x12	14-1	1	12-2	2	10-11	2	12-2	2	10-7	2	9-5	2	10-11	2	9-5	2	8-5	2	
Roof, Ceiling, and One Center-Bearing Floor	2-2x4	3-1	1	2-9	1	2-5	1	2-9	1	2-5	1	2-2	1	2-7	1	2-3	1	2-0	1
	2-2x6	4-6	1	4-0	1	3-7	2	4-1	1	3-7	2	3-3	2	3-9	2	3-3	2	2-11	2
	2-2x8	5-9	2	5-0	2	4-6	2	5-2	2	4-6	2	4-1	2	4-9	2	4-2	2	3-9	2
	2-2x10	7-0	2	6-2	2	5-6	2	6-4	2	5-6	2	5-0	2	5-9	2	5-1	2	4-7	3
	2-2x12	8-1	2	7-1	2	6-5	2	7-4	2	6-5	2	5-9	3	6-8	2	5-10	3	5-3	3
	3-2x8	7-2	1	6-3	2	5-8	2	6-5	2	5-8	2	5-1	2	5-11	2	5-2	2	4-8	2
	3-2x10	8-9	2	7-8	2	6-11	2	7-11	2	6-11	2	6-3	2	7-3	2	6-4	2	5-8	2
	3-2x12	10-2	2	8-11	2	8-0	2	9-2	2	8-0	2	7-3	2	8-5	2	7-4	2	6-7	2
	4-2x8	8-1	1	7-3	1	6-7	1	7-5	1	6-6	1	5-11	2	6-10	1	6-0	2	5-5	2
	4-2x10	10-1	1	8-10	2	8-0	2	9-1	2	8-0	2	7-2	2	8-4	2	7-4	2	6-7	2
4-2x12	11-9	2	10-3	2	9-3	2	10-7	2	9-3	2	8-4	2	9-8	2	8-6	2	7-7	2	
Roof, Ceiling, and One Clear Span Floor	2-2x4	2-8	1	2-4	1	2-1	1	2-7	1	2-3	1	2-0	1	2-5	1	2-1	1	1-10	1
	2-2x6	3-11	1	3-5	2	3-0	2	3-10	2	3-4	2	3-0	2	3-6	2	3-1	2	2-9	2
	2-2x8	5-0	2	4-4	2	3-10	2	4-10	2	4-2	2	3-9	2	4-6	2	3-11	2	3-6	2
	2-2x10	6-1	2	5-3	2	4-8	2	5-11	2	5-1	2	4-7	3	5-6	2	4-9	2	4-3	3
	2-2x12	7-1	2	6-1	3	5-5	3	6-10	2	5-11	3	5-4	3	6-4	2	5-6	3	5-0	3
	3-2x8	6-3	2	5-5	2	4-10	2	6-1	2	5-3	2	4-8	2	5-7	2	4-11	2	4-5	2
	3-2x10	7-7	2	6-7	2	5-11	2	7-5	2	6-5	2	5-9	2	6-10	2	6-0	2	5-4	2
	3-2x12	8-10	2	7-8	2	6-10	2	8-7	2	7-5	2	6-8	2	7-11	2	6-11	2	6-3	2
	4-2x8	7-2	1	6-3	2	5-7	2	7-0	1	6-1	2	5-5	2	6-6	1	5-8	2	5-1	2
	4-2x10	8-9	2	7-7	2	6-10	2	8-7	2	7-5	2	6-7	2	7-11	2	6-11	2	6-2	2
4-2x12	10-2	2	8-10	2	7-11	2	9-11	2	8-7	2	7-8	2	9-2	2	8-0	2	7-2	2	
Roof, Ceiling, and Two Center-Bearing Floors	2-2x4	2-7	1	2-3	1	2-0	1	2-6	1	2-2	1	1-11	1	2-4	1	2-0	1	1-9	1
	2-2x6	3-9	2	3-3	2	2-11	2	3-8	2	3-2	2	2-10	2	3-5	2	3-0	2	2-8	2
	2-2x8	4-9	2	4-2	2	3-9	2	4-7	2	4-0	2	3-8	2	4-4	2	3-9	2	3-5	2
	2-2x10	5-9	2	5-1	2	4-7	3	5-8	2	4-11	2	4-5	3	5-3	2	4-7	3	4-2	3
	2-2x12	6-8	2	5-10	3	5-3	3	6-6	2	5-9	3	5-2	3	6-1	3	5-4	3	4-10	3
	3-2x8	5-11	2	5-2	2	4-8	2	5-9	2	5-1	2	4-7	2	5-5	2	4-9	2	4-3	2
	3-2x10	7-3	2	6-4	2	5-8	2	7-1	2	6-2	2	5-7	2	6-7	2	5-9	2	5-3	2
	3-2x12	8-5	2	7-4	2	6-7	2	8-2	2	7-2	2	6-5	3	7-8	2	6-9	2	6-1	3
	4-2x8	6-10	1	6-0	2	5-5	2	6-8	1	5-10	2	5-3	2	6-3	2	5-6	2	4-11	2
	4-2x10	8-4	2	7-4	2	6-7	2	8-2	2	7-2	2	6-5	2	7-7	2	6-8	2	6-0	2
4-2x12	9-8	2	8-6	2	7-8	2	9-5	2	8-3	2	7-5	2	8-10	2	7-9	2	7-0	2	
Roof, Ceiling, and Two Clear Span Floors	2-2x4	2-1	1	1-8	1	1-6	2	2-0	1	1-8	1	1-5	2	2-0	1	1-8	1	1-5	2
	2-2x6	3-1	2	2-8	2	2-4	2	3-0	2	2-7	2	2-3	2	2-11	2	2-7	2	2-3	2
	2-2x8	3-10	2	3-4	2	3-0	3	3-10	2	3-4	2	2-11	3	3-9	2	3-3	2	2-11	3
	2-2x10	4-9	2	4-1	3	3-8	3	4-8	2	4-0	3	3-7	3	4-7	3	4-0	3	3-6	3
	2-2x12	5-6	3	4-9	3	4-3	3	5-5	3	4-8	3	4-2	3	5-4	3	4-7	3	4-1	4
	3-2x8	4-10	2	4-2	2	3-9	2	4-9	2	4-1	2	3-8	2	4-8	2	4-1	2	3-8	2
	3-2x10	5-11	2	5-1	2	4-7	3	5-10	2	5-0	2	4-6	3	5-9	2	4-11	2	4-5	3
	3-2x12	6-10	2	5-11	3	5-4	3	6-9	2	5-10	3	5-3	3	6-8	2	5-9	3	5-2	3
	4-2x8	5-7	2	4-10	2	4-4	2	5-6	2	4-9	2	4-3	2	5-5	2	4-8	2	4-2	2
	4-2x10	6-10	2	5-11	2	5-3	2	6-9	2	5-10	2	5-2	2	6-7	2	5-9	2	5-1	2
4-2x12	7-11	2	6-10	2	6-2	3	7-9	2	6-9	2	6-0	3	7-8	2	6-8	2	5-11	3	

^a Spans are given in feet and inches.

^b Tabulated values assume #2 grade lumber.

^c Building width is measured perpendicular to the ridge. For widths between those shown, spans are permitted to be interpolated.

^d NJ-Number of jack studs required to support each end. Where the number of required jack studs equals one, the header is permitted to be supported by an approved framing anchor attached to the full-height wall stud and to the header.

^e Use 30 psf ground snow load for cases in which ground snow load is less than 30 psf and the roof live load is equal to or less than 20 psf.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-86.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 26. [675 IAC 14-4.3-89.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-89.5](#) Section R502.11.2; bracing

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 89.5. Change the last sentence of Section R502.11.2 to read as follows: In the absence of specific bracing requirements, trusses shall be braced in accordance with standard industry lateral restraint and diagonal bracing details.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-89.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 27. [675 IAC 14-4.3-93.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-93.5](#) Section R602.3.2; top plate

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 93.5. Add a sentence in Section R602.3.2, as the third sentence, to read as follows: Joints in plates need not occur over studs.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-93.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 28. [675 IAC 14-4.3-94.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-94.5](#) Table R602.3.1; maximum allowable length of wood wall studs exposed to wind speeds of 100 mph or less in seismic design categories A, B, C, and D₁

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 94.5. Add a sentence to footnote b to read: In areas where snow load is 20 psf (.96 kN/m²) or less and wind speed is 90 mph or less, f_b is to be not less than 1,310 psi and E not less than 1,400,000 psi.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-94.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 29. [675 IAC 14-4.3-94.6](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-94.6](#) Section R602.6.1; drilling and notching of top plate

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 94.6. Change Section R602.6.1 to read as follows: When piping or ductwork is placed in or partly in an exterior wall or interior load-bearing wall, necessitating cutting, drilling, or notching of the top plate by more than 50 percent of its width, a galvanized metal tie of not less than 0.054 inches thick (1.37mm)(16ga) and 1 1/2 inches (38 mm) wide shall be fastened across and to each side of the opening with not less than eight 16d nails at each side or equivalent. See Figure R602.6.1.

Exception: When the entire side of the wall with the notch or cut is covered by wood structural panel sheathing.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-94.6](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 30. [675 IAC 14-4.3-96](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-96](#) Section R602.7; headers

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 96. Amend Section R602.7, Headers, by adding a section to read as follows: Section R602.7.3, Location. Headers less than 2 inches (51 mm) in width **or built up of members less than 2 inches (51 mm) in width** that span more than 8 feet (2,438 mm) or headers less than 4 inches (102 mm) in width **or built up of members less than 4 inches (102 mm) in width** that span more than 16 feet (4,877 mm) shall be located at the top of the wall immediately below the top plate.

Exception: When a minimum of 3/8 inch (10 mm) structural wood sheathing is applied from the bottom of the header to the top of the wall and all joints on structural members are fastened in accordance with TABLE R602.3(1) or TABLE R602.3(2).

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-96](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3276, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 31. [675 IAC 14-4.3-96.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-96.5](#) Section R602.8; fireblocking required

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 96.5. Change item 4 in Section R602.8 to read as follows: 4. At openings around vents, pipes, ducts, cables, and wires at ceiling and floor level, with an approved material to resist the passage of flame and products of combustion. Approved materials shall have demonstrated that they comply with materials listed in R602.8.1 or any of the following:

- a. Materials tested for noncombustibility in accordance with ASTM E136.
- b. Materials tested under the fire conditions of ASTM E814 or UL 1479.
- c. Materials tested for use as fireblocking material under the fire conditions of ASTM E 119 and installed in accordance with the specifications under which the material was tested.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-96.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 32. [675 IAC 14-4.3-100](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-100](#) Section R602.10.5; continuous structural panel sheathing

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 100. Make the following changes to Section ~~602.10.5~~: **R602.10.5:**

- ~~(a)~~ **(1)** In the first sentence, delete "all walls and interior braced wall lines," and insert "an exterior wall line," and, after "braced wall panel lengths", insert "for such a wall line".
- ~~(b)~~ **(2)** In the second sentence, after "R602.10.5", insert "for such a wall line".
- ~~(c)~~ **(3)** Add an exception to read as follows: Exception: Vertical wall segments in the first of one or first of two story buildings next to garage openings shall be permitted to have 6:1 height-to-width ratio (with height being measured from top of header to sill plate) when constructed in accordance with the following provisions. Each panel shall have a length of not less than 16 inches (406 mm) and a height of not more than 10 feet (3,048 mm). Each panel shall be sheathed on one face with a single layer of 3/8 inch minimum thickness (9.5 mm)

wood structural panel sheathing nailed with 8d common or galvanized box nails in accordance with Figure R602.10.5(2). The wood structural panel sheathing shall extend up over the solid ~~swan~~ **sawn** or glued-laminated header and shall be nailed in accordance with Figure R602.10.5(2). The header shall extend between the inside faces of the first full-length outer studs of each panel. The clear span of the header between the inner studs of each panel shall be not less than 6 feet (1,829 mm) and not more than 18 feet (5,486 mm) in length. A strap with an uplift capacity of not less than 1,000 pounds (454 kg) shall fasten the header to the side of the inner studs opposite the sheathing. Two anchor bolts shall be installed in accordance with Section ~~403.1.6~~, **R403.1.6**, and plate washers shall be a minimum of 2 inches by 2 inches by 3/16 inch (51 mm by 51 mm by 4.8 mm) thick and shall be used on each bolt. This exception is only permitted in Seismic Design Categories A-C.

(e) **(4)** Add FIGURE R602.10.5(2) to read as follows:

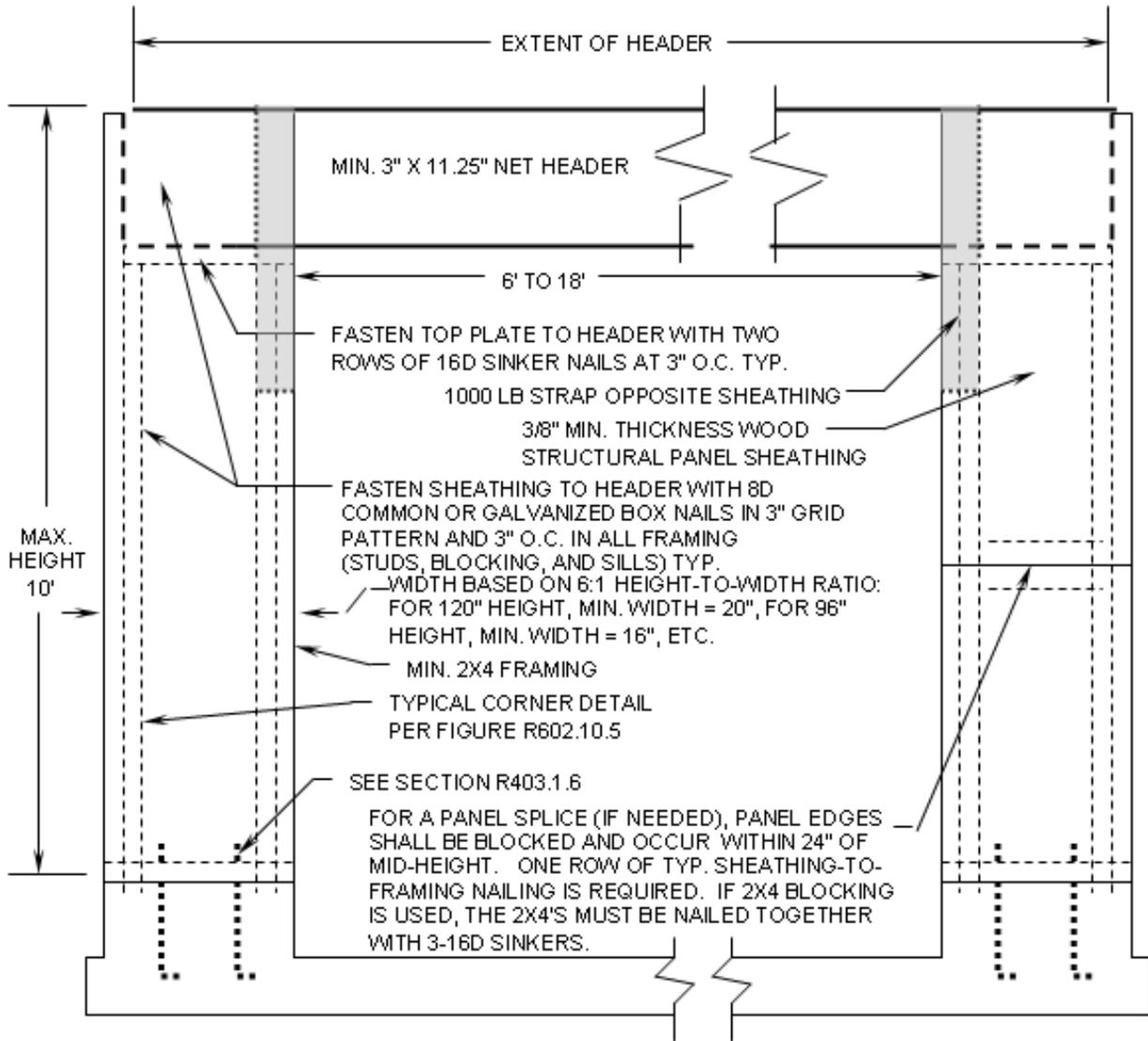


FIGURE R602.10.5(2)
GARAGE DOOR BRACED WALL PANEL FOR USE WITH CONTINUOUSLY SHEATHED WALLS

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-100](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3277, eff 90 days after filing with the Secretary of State; filed Oct 18, 2006, 2:39 p.m.: [20061115-IR-675050348FRA](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 33. [675 IAC 14-4.3-100.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-100.5](#) Section R602.10.8; connections

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 100.5. In the second sentence of Section R602.10.8, after "sills", add "or soles."

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-100.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 34. [675 IAC 14-4.3-108](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-108](#) Section R606.10; anchorage

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 108. Add an exception to **Delete** Section R606.10 and **substitute** to read as follows: **EXCEPTION: Above grade masonry foundation walls in Seismic Design Category C₁ are exempt from the requirements of Figure R606.10(3) and shall comply with the requirements of SECTION R404. be anchored to floor, roof, and foundation systems in accordance with details of Figure R606.10(1). In seismic zone C₁, above grade masonry walls shall be anchored to floor, roof, and foundation systems in accordance with details of Figure R606.10(1) and Figure R606.10(2). Below grade masonry foundation walls shall be designed and constructed to comply with Sections R403 and R404.**

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-108](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3278, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 35. [675 IAC 14-4.3-109](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-109](#) Section R606.11; seismic requirements

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 109. Make the following changes to SECTION R606.11: (a) Add, at the end of the first sentence, "C₄" between "C" and "D₄".

(b) Add an exception to read as follows: **EXCEPTION: The seismic requirements of this section shall apply to the design of above grade masonry foundation walls and the construction of above grade masonry elements located in seismic design category C and C₁. Structures located in seismic design category C and C₁ are exempt from shall also comply with the requirements of Figure R606.10(3) and in Section R606.11.2. These requirements shall not apply to glass units conforming to Section R610, masonry veneer conforming to Section R703.7, or below grade masonry foundation walls conforming to Section R404.**

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-109](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3278, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 36. [675 IAC 14-4.3-110](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-110](#) Section R606.11.2; seismic design category C

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 110. Make the following changes to Section R606.11.2:

(a) **(1)** Change the title and text of Section R606.11.2 to read as follows: Seismic Design Category C and C₁.

Above grade masonry walls in structures located in seismic design category C and C₁ shall comply with the requirements of this Section.

(b) Add an exception to read as follows: **EXCEPTION: (2) Below grade** masonry foundation walls in Seismic Design Category C and C₁ are exempt from the requirements of Figure R606.10(3) and shall **be designed and constructed** to comply with Section R404.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-110](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3278, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 37. [675 IAC 14-4.3-115](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-115](#) Section R611.1; general

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 115. Delete the last sentence of Section R611.1 and substitute to read as follows: In seismic design category C₁, for a townhouse having one or more insulating concrete form (ICF) exterior walls, ~~the noninsulating concrete form~~ **other exterior** walls and interior load bearing walls shall comply with the **applicable anchorage and seismic** provisions of ~~SECTION R611.1~~: **this code**.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-115](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3279, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 38. [675 IAC 14-4.3-115.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-115.5](#) Section R702.3.7; limitations

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 115.5. Add a title and the text of Section R702.3.7 to read as follows: R702.3.7 Limitations. Water-resistant gypsum backing board shall not be used where there will be direct exposure to water or in areas subject to continuous high humidity.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-115.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 39. [675 IAC 14-4.3-115.6](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-115.6](#) Section R702.4.4; cement, fiber-cement, and glass mat gypsum backers

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 115.6. Add a title and the text of Section R702.4.4 to read as follows: R702.4.4 Cement, fiber-cement, and glass mat gypsum backer. Cement, fiber-cement, and glass mat gypsum backers in compliance with ASTM C 1288, C 1325, or C 1178 and installed in accordance with manufacturers' recommendations shall be permitted as backers for wall tile in tub and shower areas and wall panels in shower areas.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-115.6](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 40. [675 IAC 14-4.3-116](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-116](#) Table 703.4; weather-resistant siding attachment and minimum thickness

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 116. Change TABLE R703.4 as follows:

(a) **(1)** Change footnote m to read as follows: For masonry veneer, a weather-resistant sheathing paper is not required over water-repellent sheathing materials applied according to manufacturer's instructions and a 3/4 inch (19 mm) air space is provided. When the 3/4 inch (19 mm) space is filled with mortar, a weather-resistant sheathing paper is required over the sheathing.

(b) **(2)** In the column titled "Sheathing paper required", add a footnote designation "s" "aa" at all three (3) places for Horizontal Aluminum and for Vinyl Siding.

(c) **(3)** Add a new footnote "s" "aa" to read as follows: Unless required by the siding manufacturer's installation instructions.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-116](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3279, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 41. [675 IAC 14-4.3-125.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-125.5](#) Section R802.10.3; bracing

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 125.5. Change the last sentence of Section R802.10.3 to read as follows: In the absence of specific bracing requirements, trusses shall be braced in accordance with standard industry lateral restraint and diagonal bracing details.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-125.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 42. [675 IAC 14-4.3-126](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-126](#) Section R802.10.4; alterations to trusses

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 25-4](#); [IC 25-31](#); [IC 36-7](#)

Sec. 126. Change the first sentence of Section R802.10.4 to read as follows: Truss members shall not be cut, notched, drilled, spliced, or otherwise altered in any way without the acceptance of an architect registered under [IC 25-4](#) or a professional engineer registered under [IC 25-31](#), the manufacturer of the truss members, or approved **approval** by the building official.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-126](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3281, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 43. [675 IAC 14-4.3-127](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-127](#) Section R802.10.5; truss to wall connection

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 127. Change **Add exceptions to** Section R802.10.5 as follows: (a) Delete "approved connector" and substitute "mechanical fasteners or connectors".

(b) Add an exception to read as follows: **EXCEPTION:** When the uplift shown on the truss drawing is less than

175 pounds the uplift on the drawing may be used. **Exceptions:**

1. In exposure category B, 24" o/c maximum mono-pitch trusses up to 10' in length that are not girders. Such trusses shall be fastened with three 0.131" diameter x 3" long toenails at each bearing. Truss length shall be the horizontal projection of the truss including all overhangs.
2. In exposure category B, 24" o/c maximum trusses that are not mono-pitch trusses up to 30' in length that are not girders. Such trusses shall be fastened with three 0.131" diameter x 3" long toenails at each bearing. Truss length shall be the horizontal projection of the truss including all overhangs.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-127](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3281, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 44. [675 IAC 14-4.3-132.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-132.5](#) Section R905.2.8.1; base and cap flashing

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 132.5. Change Section R905.2.8.1 to read as follows: Base flashings (valley linings or base flashing at roof penetrations) and cap flashing (step, dormer, and counter flashing) shall be installed in accordance with manufacturer's installation instructions. Base flashing shall be of either corrosion-resistant metal of minimum nominal 0.019-inch thickness, mineral surface minimum 77 pounds (34.96 kg) per 100 square foot (3.76 kg/m²) roll roofing, or any material approved for base flashing. Cap flashing shall be corrosion-resistant metal of minimum nominal 0.019-inch thickness.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-132.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 45. [675 IAC 14-4.3-132.6](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-132.6](#) Section R905.2.8.2; valleys

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 132.6. (a) In Section R905.2.8.2, item 2, delete "ASTM D 249" and substitute "ASTM D 3909 or ASTM D 6380 Class M".

(b) In Section R905.2.8.2, item 3, delete "ASTM D 224 Type II or Type III" and substitute "ASTM D 6380 Class S Type III, Class M Type II, or ASTM D 3909".

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-132.6](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 46. [675 IAC 14-4.3-132.7](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-132.7](#) Section R905.2.8.3; crickets and saddles

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 132.7. Change Section R905.2.8.3 to read as follows: A cricket or saddle shall be installed on the ridge side of any chimney more than 30 inches (762 mm) wide as measured perpendicular to the slope. Cricket or saddle coverings shall be sheet metal in accordance with Section R905.2.8.1 or of the same material as the roof covering. Base and cap flashing of the cricket or saddle shall also be in accordance with Section R905.2.8.1.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-132.7](#); filed Mar 6, 2008, 11:13 a.m.:

SECTION 47. [675 IAC 14-4.3-139](#) IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-139 Chapter 11; energy efficiency

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 139. Delete the text of Chapter 11 in its entirety and substitute the following: Section N1101; GENERAL N1101.1 Scope. This chapter sets forth energy-efficiency requirements for the design and construction of buildings regulated by this code.

Exception: Provided that they are separated by building envelope assemblies from the remainder of the building, portions of the building that do not enclose conditioned space shall be **exempt** from the building envelope provisions but shall comply with the provisions for building mechanical and service water systems. N1101.2 Compliance. Compliance with this chapter shall be demonstrated by meeting the requirements of the applicable sections and tables of Sections N1101, N1102, N1104, and N1105 of this chapter. Compliance with Section N1103 or N1106 is an alternative to compliance with Section N1102. Where applicable, provisions are based on the climate zone where the building is located as set forth in FIGURE 11-1 below.



**INDIANA CLIMATE ZONES
FIGURE 11-1**

N1101.2.1 Eligible buildings. Compliance for detached one and two family dwellings and for townhouses shall

be demonstrated by meeting the requirements of subsection N1101.2.

N1101.3 Materials and equipment. Materials and equipment shall be identified as complying with the provisions of this chapter. Materials and equipment shall be listed and labeled for their intended use and shall be installed in accordance with the manufacturer's installation instructions.

N1101.3.1 Insulation. The thermal resistance (R-value) shall be indicated on all insulation and the insulation installed such that the R-value can be verified during inspection, or evidence of compliance of the installed R-value shall be provided at the job site by the insulation installer.

N1101.3.2 Fenestration. The U-factor of fenestration shall be determined in accordance with NFRC 100 by an accredited, independent laboratory and labeled and certified by the manufacturer. The solar heat gain coefficient (SHGC) of fenestration shall be determined in accordance with NFRC 200 by an accredited, independent laboratory and labeled and certified by the manufacturer.

N1101.3.2.1 Default fenestration performance. When a manufacturer has not determined a fenestration product's U-factor in accordance with NFRC 100, compliance shall be determined by assigning such products a default U-factor from TABLES 11-1 and 11-2. When a manufacturer has not determined a fenestration product's SHGC in accordance with NFRC 200, compliance shall be determined by assigning such products a default SHGC from TABLE 11-3.

TABLE 11-1
U-FACTOR DEFAULT TABLE FOR WINDOWS, GLAZED DOORS, AND SKYLIGHTS

FRAME MATERIAL AND PRODUCT TYPE ^a	SINGLE GLAZED	DOUBLE GLAZED
Metal without thermal break		
Operable (including sliding and swinging glass doors)	1.27	0.87
Fixed	1.13	0.69
Garden window	2.60	1.81
Curtain wall	1.22	0.79
Skylight	1.98	1.31
Site-assembled sloped/overhead glazing	1.36	0.82
Metal with thermal break		
Operable (including sliding and swinging glass doors)	1.08	0.65
Fixed	1.07	0.63
Curtain wall	1.11	0.68
Skylight	1.89	1.11
Site-assembled sloped/overhead glazing	1.25	0.70
Reinforced vinyl/metal clad wood		
Operable (including sliding and swinging glass doors)	0.90	0.57
Fixed	0.98	0.56
Skylight	1.75	1.05
Wood/vinyl/fiberglass		
Operable (including sliding and swinging glass doors)	0.89	0.55
Fixed	0.98	0.56
Garden window	2.31	1.61
Skylight	1.47	0.84

TABLE 11-2
U-FACTOR DEFAULT TABLE FOR NONGLAZED DOORS

DOOR TYPE	WITH FOAM CORE 0.35 WITHOUT STORM DOOR	WITHOUT FOAM CORE 0.60 WITH STORM DOOR
Steel doors (1.75 inches thick)		
Wood doors (1.75 inches thick)		
Panel with 0.438 inch panels	0.54	0.36
Hollow core flush	0.46	0.32
Panel with 1.125 inch panels	0.39	0.28
Solid core flush	0.40	0.26

For SI: 1 inch = 25.4 mm.

TABLE 11-3

SHGC DEFAULT TABLE FOR FENESTRATION

PRODUCT DESCRIPTION	SINGLE GLAZED				DOUBLE GLAZED			
	Clear	Bronze	Green	Gray	Clear + Clear	Bronze + Clear	Green + Clear	Gray + Clear
Metal frames								
Operable	0.75	0.64	0.62	0.61	0.66	0.55	0.53	0.52
Fixed	0.78	0.67	0.65	0.64	0.68	0.57	0.55	0.54
Nonmetal frames								
Operable	0.63	0.54	0.53	0.52	0.55	0.46	0.45	0.44
Fixed	0.75	0.64	0.62	0.61	0.66	0.54	0.53	0.52

N1101.3.2.2 Air leakage. The air leakage of prefabricated fenestration shall be determined by the manufacturer. Alternatively, the fenestration shall be installed in accordance with the maximum allowable rates in TABLE 11-4.

Exception: Site-constructed windows and doors sealed in accordance with Section N1102.1.10.

TABLE 11-4
ALLOWABLE AIR FILTRATION RATES^a

WINDOWS (cfm per square foot of window area)	DOORS (cfm per square foot of door area)	
	Sliders	Swinging
0.3 ^b	0.3	0.5

For SI: 1 cfm/ft² = 0.00508 m³/ (s × m²).

^aWhen tested in accordance with NFRC 400.

^bSee AAMA/WDMA 101/I.S. 2.

N1101.3.3 Minimum Insulation R-Values. The minimum insulation R-values permitted using tradeoffs from Section N1103 or Section N1106 for all climate regions shall be R-13 for abovegrade walls, R-30 for ceilings, and R-19 for floors.

N1101.4 Alternate energy materials, methods, and design. The provisions of this code are not intended to prevent the use of any material, method of construction, design, or insulating system not specifically prescribed herein, provided that such construction, design, or insulating system has been approved as meeting the intent of the code.

Compliance with specific provisions and the intent of this code shall be determined through the use of approved computer software (such as REScheck or MECcheck provided by the Department of Energy), worksheets, compliance manuals (from ASTM, etc.), and other similar materials.

SECTION N1102. COMPLIANCE BY PRESCRIPTIVE SPECIFICATIONS ON INDIVIDUAL COMPONENTS

N1102.1 Thermal performance criteria. The minimum required insulation R-value or maximum required U-factor for each element in the building thermal envelope (fenestration, roof/ceiling, opaque wall, floor, slab edge, crawlspace wall, and basement wall) shall be in accordance with criteria in TABLE 11-5.

TABLE 11-5
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENTS^a
78% AFUE or 6.8 HSPF and 10 SEER

REGION See Figure 11-1	GLAZING U-VALUE	SKYLIGHT U-VALUE ^b	CEILING R-VALUE	WALL R-VALUE ^{ce}	FLOOR R-VALUE ^d	BASEMENT WALL R-VALUE ^e	SLAB PERIMETER R-VALUE/DEPTH ^f	CRAWLSPACE WALL R-VALUE ^e
North	.35	0.60	30	15 plus 1	25	13 / 7 ft.	10 / 4 ft.	7 / 3.2 ft.
Central	.45	0.60	30	13 plus 1	25	10 / 7 ft.	10 / 4 ft.	10 / 2.7 ft.
South	.45	0.60	30	13 plus 1	19	7 / 7 ft.	7 / 3 ft.	7 / 2.7 ft.
Ohio River	.45	0.60	30	13	19	7 / 4 ft.	3.5 / 2 ft.	3 / 2.2 ft.

^aR-values are minimums. U-factors and SHGC are maximums. R-19 insulation shall be permitted to be compressed except as noted. The glazing U-factors are for windows only. The default U-factors for doors are in TABLES 11-1 and 11-2. The maximum door U-values to be allowed with this table are as follows: main exit, 0.54; other exit doors, 0.34; sliding glass doors, French doors, and atrium doors, 0.55.

^bSkylights are glazed fenestration less than 60 degrees from horizontal.

^cCavity insulation plus sheathing (wood frame walls only). Steel frame walls require the installation of an exterior insulated sheathing in accordance with Section N1102.1.1.2: **N1102.1.1.2.**

^dOr insulation sufficient to fill the cavity, R-19 minimum.

^eBox or rim joist cavity spaces must be insulated **R-22 R 19** minimum, entire exterior perimeter.

^fThe insulation shall be installed from the top of the slab to the required depth, horizontally or vertically, or a combination of both, until the required depth is achieved.

N1102.1.1 Exterior walls. The minimum required R-value in TABLES 11-5 shall be met by the sum of the R-values of the insulation materials installed in framing cavities and/or sheathing applied and not by framing, dry wall, or exterior siding materials. Insulation separated from the conditioned space by a vented space shall not be counted towards the required R-value.

N1102.1.1.1 Mass walls. For purposes of this section, the following definitions apply: Mass walls with exterior insulation position are those that have the entire effective mass layer interior to an insulation layer. Mass walls with integral insulation position are those that have either insulation and mass materials well mixed as in wood (logs) or substantially equal amounts of mass material on the interior and exterior of insulation as in concrete masonry units with insulated cores or masonry cavity walls. Mass walls with interior insulation position are those that have the mass material located exterior to the insulating material.

Mass walls shall be permitted to meet the mass wall criteria in TABLE 11-6 based on the insulation position and the climate zone where the building is located. Other mass walls shall meet the frame wall criteria for the building type and the climate zone where the building is located based on the sum of interior and exterior insulation.

Mass walls not meeting either of the above descriptions for exterior or integral positions shall meet the requirements for other mass walls in TABLE 11-6. The R-value for a solid concrete wall with a thickness of 4 inches (102 mm) or greater is R-1.1. R-values for other assemblies are permitted to be based on hot box tests.

TABLE 11-6
MASS WALL PRESCRIPTIVE BUILDING ENVELOPE REQUIREMENTS

Building Location		Mass Wall Assembly R-Value (hr ft ² °F)/Btu	
Zone	HDD	Exterior or Integral Insulation	Other Mass Walls
Northern	6,300	R-13	R-15.2
Central	5,700	R-13	R-15.2
South	5,000	R-8	R-15.2
Ohio River	4,300	R-8	R-15.2

For SI: 1(hr ft²°F)/Btu = 0.176 m² K/W

N1102.1.1.2. Steel-frame walls. When steel framing construction is used, insulated sheathing with an R-5 value shall be installed in addition to the minimum required R-value for frame walls determined in accordance with TABLE 11-5.

N1102.1.2 Ceilings. The required "Ceiling R-value" in TABLE 11-5 assumes standard truss or rafter construction and shall apply to all roof/ceiling portions of the building thermal envelope including cathedral ceilings. R-30 shall be permitted to be compressed over the top plate to obtain the required rafter air spaces. R-30 shall be permitted to be used over the top plate where R-38 is required. R-38 shall be permitted over the top plate where R-49 is required.

N1102.1.3 Opaque doors. Opaque doors separating conditioned and unconditioned space shall have a maximum U-factor of 0.35. One opaque door shall be permitted to be exempt from this U-factor requirement.

N1102.1.4 Floors. The required R-value in TABLE 11-5 shall apply to all floors, except any individual floor assembly with over 25 percent of its conditioned floor area exposed directly to outside air shall meet the R-value requirement in TABLE 11-5 for ceilings.

N1102.1.5 Basement walls. When insulating basement walls, the required R-values shall be applied from the top of the basement wall to the depth required by TABLE 11-5.

N1102.1.6 Slab-on-grade floors. For slabs with a top edge 8 inches (203 mm) or less above or 12 inches (305 mm) or less below finished grade, the required R-value in TABLE 11-5 shall be applied to the outside of the foundation or the inside of the foundation wall. The insulation shall extend downward from the top of the slab, or downward to the bottom of the slab and then horizontally in either direction, for the minimum distance listed in TABLE 11-5.

When installed between the exterior wall and the edge of the interior slab, the top edge of the insulation shall be permitted to be cut at a 45 degree (0.79 radians) angle away from the exterior wall. Insulation extending

horizontally away from the building shall be protected as set forth by Section R403.3.1.

R-2 shall be added to the values in TABLE 11-5 where uninsulated hot water pipes, air distribution ducts, or electric heating cables are installed within or under the slab.

N1102.1.7 Crawlspace walls. Where the floor above the crawlspace is uninsulated, and the crawlspace is not vented to outside air, insulation shall be installed on crawlspace walls as required in TABLE 11-5. The **Crawlspace wall** insulation shall be applied inside of the crawlspace wall, downward from the sill plate to the distance required by TABLE 11-5, **permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm)**. The exposed earth in all crawlspace foundations shall be covered with a continuous 6 mil vapor retarder having a maximum permeance rating of 1.0 perm ($5.74525 \times 10^{-11} \text{ kg}/(\text{Pa} \times \text{s} \times \text{m}^2)$).

N1102.1.8 Masonry veneer. For exterior foundation insulation, that horizontal portion of the foundation that supports a masonry veneer shall not be required to be insulated.

N1102.1.9 Protection. ~~Exposed~~ Insulating materials applied to the exterior of foundation walls shall be protected from damage or deterioration. ~~The protection shall extend at least~~ **by a rigid, opaque, and weather-resistant covering extending 6 inches (152 mm) below finished grade level.**

N1102.1.10 Air leakage. Exterior joints, seams, or penetrations in the building envelope, **separating conditioned and unconditioned spaces**, that are sources of air leakage shall be sealed with caulking materials, closed with gasketing systems, taped, or covered with moisture vapor-permeable house-wrap. Sealing materials spanning joints between dissimilar construction materials shall allow for differential expansion and contraction of the construction materials. This includes sealing around tubs and showers, at the attic and crawlspace panels, at recessed lights, and around all plumbing and electrical penetrations. ~~These are openings located in the building envelope between conditioned space and unconditioned space or between the conditioned space and the outside.~~

EXCEPTION: Exceptions:

1. Vertical seams and joints with gaps of 1/8 inch (3 mm) or less that break over a stud.
2. **Unvented crawlspaces.**

N1102.1.11 Recessed lighting fixtures. **luminaires**. When installed in the building envelope, recessed lighting fixtures **luminaires** shall meet one of the following:

1. Type IC rated, manufactured with no penetrations between the inside of the recessed ~~fixture~~ **luminaire** and ceiling cavity and sealed or gasketed to prevent air leakage into the unconditioned space.
2. Type IC or non-IC rated, installed inside a sealed box constructed from a minimum 0.5 inch (12.7 mm) thick gypsum wallboard or constructed from a preformed polymeric vapor barrier, or other airtight assembly manufactured for this purpose, while maintaining required clearances of not less than 0.5 inch (12.7 mm) from combustible material and not less than 3 inches (76 mm) from insulation material.
3. Type IC rated admitting no more than 2.0 cubic feet per minute (cfm) (0.944L/s) of air movement from the conditioned space to the ceiling cavity. The ~~lighting fixture~~ **luminaire** shall be tested at 1.57 psi (75 Pa) pressure difference and shall be labeled.

~~N1102.2 Fenestration exemption. Up to 1 percent of the total glazing area shall be exempt from U-factor requirements.~~

SECTION N1103 COMPLIANCE BY TOTAL BUILDING ENVELOPE PERFORMANCE

N1103.1 Compliance with this section is an alternative to compliance with Section N1102.

N1103.2 Compliance by total building envelope performance. The building envelope design of a proposed building shall be permitted to deviate from the U_o-factors, U-factors, or R-values specified in TABLE 11-7, provided the total thermal transmission heat gain or loss for the proposed building envelope does not exceed the total heat gain or loss resulting from the proposed building's conformance to the values specified in TABLE 11-7. For basement and crawlspace walls that are part of the building envelope, the U-factor of the proposed foundation shall be adjusted by the R-value of the adjacent soil where the corresponding U-factor in TABLE 11-7 is similarly adjusted. Heat gain or loss calculations for slab edge and basement or crawlspace wall foundations shall be determined using approved methods.

TABLE 11-7^{a, b, c}
EQUIVALENT U-FACTORS

REGION	GLAZING	SKYLIGHT	CEILING	WALL	MASS WALL	FLOOR	BASEMENT	SLAB PERIMETER	CRAWLSPACE
North	0.35	0.60	0.035	0.064	0.077	0.037	0.055	0.684	0.076
Central	0.45	0.60	0.035	0.074	0.077	0.042	0.064	0.684	0.100
South	0.45	0.60	0.035	0.074	0.125	0.045	0.078	0.727	0.109
Ohio River	0.45	0.60	0.035	0.077	0.125	0.047	0.093	0.825	0.196

^aNonfenestration U-factors shall be obtained from this table, measurement, calculation, or an approved source.

^bFor 78 percent AFUE furnaces or 6.8 HSPF and 10 SEER except where otherwise noted.

^cThe maximum door U-values to be allowed with this table are as follows: main exit, 0.54; other exit doors, 0.34; sliding glass doors, French doors, and atrium doors, 0.55.

SECTION N1104 MECHANICAL SYSTEMS

N1104.1 Heating and air conditioning appliance and equipment performance. Performance of equipment listed in TABLE 11-8 is covered by preemptive federal law. Appliances and equipment not listed in TABLE 11-8 shall be approved. Data furnished by the equipment supplier, or certified under a nationally recognized certification procedure, shall be used to satisfy these requirements. All such equipment shall be installed in accordance with the manufacturer's instructions.

TABLE 11-8
MINIMUM EQUIPMENT PERFORMANCE

EQUIPMENT CATEGORY	SUBCATEGORY ^e	REFERENCED STANDARD	MINIMUM PERFORMANCE
Air-cooled heat pumps heating mode < 65,000 Btu/h cooling capacity	Split systems		6.8 HSPF ^{a, b}
		ARI 210/240	
	Single package		6.6 HSPF ^{a, b}
Gas-fired or oil-fired furnace < 225,000 Btu/h		DOE 10 CFR Part 430, Subpart B, APPENDIX N	AFUE 78% ^b , Et 80% ^c
Gas-fired or oil-fired steam and hot water boilers < 300,000 Btu/h		DOE 10 CFR Part 430, Subpart B, APPENDIX N	AFUE 78% ^{b, d}
Air-cooled air conditioners and heat pumps cooling mode < 65,000 Btu/h cooling capacity	Split systems		10.0 SEER ^b
		ARI 210/240	
	Single package		9.7 SEER ^b

For SI: 1 Btu/h = 0.2931 W.

^aFor multicapacity equipment, the minimum performance shall apply to each capacity step provided. Multicapacity refers to manufacturer-published ratings for more than one capacity mode allowed by the product's controls.

^bThis is used to be consistent with the National Appliance Energy Conservation Act (NAECA) of 1987 (Public Law 100-12).

^cThese requirements apply to combination units not covered by NAECA (three-phase power or cooling capacity 65,000 Btu/h).

^dExcept for gas-fired steam boilers, for which the minimum AFUE shall be 75 percent.

^eSeasonal rating.

N1104.2 Controls. At least one thermostat shall be provided for each separate heating, cooling, or combination heating and cooling system. Heat pumps shall have controls that prevent supplementary electric resistance heater operation when the heating load can be met by the heat pump alone. Supplementary heater operation shall be permitted during outdoor coil defrost cycles not exceeding 15 minutes.

N1104.3 Duct insulation. All portions of the air distribution system that serve the permanent heating, ventilating, and air conditioning systems shall be installed in accordance with Section M1601 and be insulated to an installed R-4.2 when system components are located within the building but outside of conditioned space and R-8 when located outside of the building. When located within a building envelope assembly, at least R-8 shall be applied between the duct and that portion of the assembly furthest from conditioned space.

Exception: Exhaust air ducts and portions of the air distribution system within appliances or equipment.

N1104.4 Duct sealing. All ducts shall be sealed in accordance with Section M1601.3.1.

N1104.5 Piping insulation. All mechanical system piping that serves the permanent heating, ventilating, and air conditioning systems shall be insulated in accordance with TABLE 11-9.

Exception: Piping installed within appliances and equipment or piping serving fluids between 55°F (13°C)

TABLE 11-9
MINIMUM HVAC PIPING INSULATION THICKNESSES^a

	FLUID TEMPERATURE RANGE (°F)	INSULATION THICKNESS (inches) ^b
HEATING SYSTEMS		
Low pressure/temperature	201–250	1.5
Low temperature	120–200	1.0
Steam condensate (for feed water)	Any	1.5
COOLING SYSTEMS		
Chilled water, refrigerant, or brine	40–55	0.75
	Below 40	1.25

For SI: 1 inch = 25.4 mm, °C = (°F - 32)/1.8.

^aThe pipe insulation thicknesses specified in this table are based on insulation R-values ranging from R-4 to R-4.6 per inch of thickness. For materials with an R-value greater than R-4.6, the insulation thickness specified in this table may be reduced as follows:

$$\text{New Minimum Thickness} = \frac{4.6 \times \text{Table Thickness}}{\text{Actual R-value}}$$

For materials with an R-value less than R-4, the minimum insulation thickness shall be increased as follows:

$$\text{New Minimum Thickness} = \frac{4.0 \times \text{Table Thickness}}{\text{Actual R-value}}$$

^bFor piping exposed to outdoor air, increase thickness by 0.5 inch.

SECTION N1105 SERVICE WATER HEATING

N1105.1 Water heating appliance and equipment performance. Performance of equipment listed in TABLE 11-10 is covered by preemptive federal law. Appliances and equipment not listed in TABLE 11-10 shall be approved.

TABLE 11-10
REQUIRED PERFORMANCE OF DOMESTIC HOT WATER HEATING EQUIPMENT SUBJECT TO MINIMUM FEDERAL STANDARDS

CATEGORY	MAXIMUM INPUT RATING	MINIMUM EFFICIENCY
Electric; storage or instantaneous	12 kW	0.93 - 0.00132 × V ^a
Gas; storage	75,000 Btu/h	0.62 - 0.0019 × V ^a
Gas; instantaneous	200,000 Btu/h	0.62 - 0.0019 × V ^a
Oil; storage	105,000 Btu/h	0.59 - 0.0019 × V ^a
Oil; instantaneous	210,000 Btu/h	0.59 - 0.0019 × V ^a

For SI: 1Btu/h = 0.2931 W, 1 gallon = 3.785 L.

^aV is the rated storage volume in gallons as specified by the manufacturer.

N1106 ALTERNATE DESIGN

N1106.1 Chapter 4, Residential Building Design by Systems Analysis and Design of Buildings Utilizing Renewable Energy Sources, of the International Energy Conservation Code 2000, except as amended in subsection N1106.2, is an alternative to compliance with Sections N1102 and N1103.

N1106.2 (a) Change subsection 402.1 to read as follows: Compliance with this chapter will require an analysis of the annual energy usage, completed during the building design phase, and hereinafter called the "annual energy analysis".

(b) Delete the exception from subsection 402.1 without substitution.

(c) Delete "Chapter 5" from subsection 402.1.1 and substitute "TABLE 11-5, TABLE 11-7, or TABLE 11-11". Delete all exceptions in subsection 402.1.1.

- (d) Delete TABLES 402.1.1(1) and 402.1.1(2) including their footnotes.
 (e) In subsection 402.1.3.1.4, delete "Table 102.5.2(3)" and substitute "TABLE 11-3".
 (f) In subsection 402.1.3.6, delete "Type A-1 Residential building" and substitute "1 or 2 family dwelling" and delete "Type A-2 Residential building" and substitute "townhouse".
 (g) Add the following to the last sentence of subsection 402.1.3.10: "See subsection R303.1 for ventilation requirements for one and two family dwellings or townhouses."
 (h) In subsection 402.1.3.11, delete "Table 502.2" and substitute "TABLE 11-5".
 (i) In subsection 402.4.1, delete "as required in Chapter 3" and substitute "as follows:" and the following table:

TABLE 11-11
 THERMAL DESIGN PARAMETERS EXTERNAL DESIGN CONDITIONS

	Northern	Central	South	Ohio River
WINTER Design Dry-Bulb °F	1°	2°	9°	9°
SUMMER Design Wet-Bulb °F	73°	74°	75°	75°
SUMMER Design Dry-Bulb °F	89°	90°	93°	93°
DEGREE DAYS HEATING	6,300	5,700	5,000	4,300

- (j) In subsection 402.5, delete "Chapter 4" and substitute "this chapter".
 (k) In subsection 403.1.1.1, delete "Section 502.1.4.1" and substitute "TABLE 11-4".

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-139](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3282, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 48. [675 IAC 14-4.3-143.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-143.5](#) Section M1305.1.3; appliances in attics

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 143.5. Change Section M1305.1.3 to read as follows:

(1) In Section M1305.1.3, add a second exception to read as follows: 2. Where the passageway is unobstructed and not less than 6 feet (1,829 mm) high and 22 inches (559 mm) wide for its entire length, the passageway shall not be more than 50 feet (15.25 m) long.

(2) Change Section M1305.1.3.1 to read as follows: A luminaire controlled by a switch located at the required passageway opening and a receptacle outlet shall be provided at or near the appliance location in accordance with Chapter 38.

(3) In Section M1305.1.4, add a second exception to read as follows: 2. Where the passageway is unobstructed and not less than 6 feet (1,829 mm) high and 22 inches (559 mm) wide for its entire length, the passageway shall not be limited in length.

(4) Change Section M1305.1.4.3 to read as follows: A luminaire controlled by a switch located at the required passageway opening and a receptacle outlet shall be provided at or near the appliance location in accordance with Chapter 38.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-143.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 49. [675 IAC 14-4.3-144](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-144](#) Section M1307.3.1; protection from impact

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 144. Delete **Change the title and text of Section M1307.3.1 to read as follows: M1307.3.1 Isolation from corrugated stainless steel tubing. Except where connected to gas supply piping, appliances shall be isolated from corrugated stainless steel tubing by a space separation of at least 2 inches (51 mm). See also Section G2411.1.**

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-144](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3289, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 50. [675 IAC 14-4.3-144.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-144.5](#) Section M1308.3; foundations and supports

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 144.5. Add a title and the text of Section M1308.3 to read as follows: M1308.3 Foundations and supports. Foundations and supports for outdoor mechanical systems shall be raised at least 1 1/2 inches (38.25 mm) above the finished grade and shall also conform to manufacturer's installation instructions.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-144.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 51. [675 IAC 14-4.3-144.6](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-144.6](#) Section M1406.2; clearances

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 144.6. Change Section M1406.2 to read as follows: Clearances for radiant heating panels or elements to any wiring, outlet boxes, and junction boxes used for installing electrical devices or mounting luminaires shall comply with Chapters 33 through 42 of this code.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-144.6](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 52. [675 IAC 14-4.3-144.7](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-144.7](#) Section M1410.1; general

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 144.7. Change Section M1410.1 to read as follows: Vented room heaters shall be tested in accordance with ASTM E 1509, UL 1482, or UL 896 and installed in accordance with their listing, the manufacturer's installation instructions, and the requirements of this code.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-144.7](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 53. [675 IAC 14-4.3-145](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-145](#) Section M1411.3.1; auxiliary and secondary drain systems

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 145. (a) In the first sentence of Section M1411.3.1, delete "damage to any building components will occur as a result of overflow from the equipment drain pan or stoppage in the condensate drain piping" and insert "installed over a finished ceiling".

(b) Add a sentence immediately after the next to last sentence of Section M1411.3.1 to read as follows: Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than 1/8 unit vertical in 12 units horizontal (1-percent slope).

(c) In the second sentence of Section M1411.3.1, item 3, add the phrase "conforming to UL 508" after "water level detection device."

(d) Add item 4 to Section M1411.3.1 to read as follows: 4. A water detection device conforming to UL 508 shall be provided that will shut off the equipment served in the event that the primary drain is blocked. The device shall be installed in the primary drain line, the overflow drain line or the equipment-supplied drain pan and shall be located at a point higher than the primary drain line connection and below the overflow rim of such pan.

(b) (e) Add an exception to the end of Section M1411.3.1 to read as follows: Exception: When installed on a water-resistant floor with a floor drain in the same room or space.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-145](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3289, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 54. [675 IAC 14-4.3-145.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-145.5](#) Section M1411.4; insulation of refrigerant piping

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 145.5. Change Section M1411.4 as follows:

(1) Change the number of Section M1411.4 to read as follows: Section M1411.5 insulation of refrigerant piping.

(2) Add Section M1411.4 to read as follows: M1411.4 auxiliary drain pan. Category IV condensing appliances shall have an auxiliary drain pan when installed over a finished ceiling. These pans shall be installed in accordance with the applicable provisions of Section M1411.3.

Exception: Fuel-fired appliances that automatically shut down operation in the event of a stoppage in the condensate drainage system.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-145.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 55. [675 IAC 14-4.3-146.3](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-146.3](#) Section M1601.3.6; duct separation

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 146.3. Add two (2) sentences to the end of Section M1601.3.6 to read as follows: Metal ducts and ducts containing metal shall be isolated from corrugated stainless steel tubing by a space separation of at least 2 inches (51 mm). See also Section G2411.1.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-146.3](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 56. [675 IAC 14-4.3-146.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-146.5](#) Section M1703.2.1; size of openings

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 146.5. Change the first sentence of M1703.2.1 to read as follows: Where directly communicating with the outdoors, or where communicating with the outdoors by means of vertical ducts, each opening shall have a free area of at least 1 square inch per 4,000 Btu/h of total input rating of all appliances in the space.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-146.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 57. [675 IAC 14-4.3-148](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-148](#) Section M2005.5; anchorage of water heaters

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 148. Add Section M2005.5 to the end of Section M2005 to read as follows: M2005.5 Anchorage of Water Heaters in Seismic Design Category C₁. In seismic design category C₁, all gas water heaters shall be anchored or fastened to resist horizontal displacement due to earthquake motion as provided in Section M1307.2.

EXCEPTION: Where approved excessive flow valves are implemented for the entire dwelling unit or for each gas appliance.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-148](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3290, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 58. [675 IAC 14-4.3-148.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-148.5](#) Section M2101.5; contact with building material

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 148.5. Add two (2) sentences to the end of Section M2101.5 to read as follows: Metal hydronic piping shall be isolated from corrugated stainless steel tubing by a space separation of at least 2 inches (51 mm). See also Section G2411.1.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-148.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 59. [675 IAC 14-4.3-151](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-151](#) Section G2401.1; application

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 151. (a) Delete the exception after the first paragraph of G2401.1 without substitution.

(b) Delete, in the second sentence of the second paragraph of Section G2401.1, ", inspection, operation, and maintenance" and add "and" before "testing" and delete the comma after "installation".

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-151](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3290, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 60. [675 IAC 14-4.3-153.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-153.5](#) Section G2404.10; auxiliary and secondary drain systems

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 153.5. Add Section G2404.10 to read as follows: G2404.10 Auxiliary and secondary drain systems. Category IV condensing appliances shall be provided with an auxiliary drain pan when installed over a finished ceiling. Such pans shall be installed in accordance with the applicable provisions of Section M1411.

Exception: An auxiliary drain pan shall not be required for appliances that automatically shut down operation in the event of a stoppage in the condensate drainage system.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-153.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 61. [675 IAC 14-4.3-154.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-154.5](#) Section G2405.3; engineered wood products

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 154.5. Add Section G2405.3 to read as follows: G2405.3 Engineered wood products. Cuts, notches, and holes bored in trusses, structural composite lumber, structural glued-laminated members, and I-joists are prohibited except where permitted by manufacturer's recommendations or except where the effects of such alterations are specifically considered in the design of the member by a registered design professional.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-154.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 62. [675 IAC 14-4.3-155.5](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-155.5](#) Section G2411.1; gas pipe bonding

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 155.5. Delete the text of Section G2411.1 and add text to read as follows: All metal gas piping upstream from the equipment shutoff valve(s) shall be electrically continuous and shall be bonded to an effective ground-fault current path in accordance with Section E3509.7. Except where connected to appliances and at bonding connections, ~~flexible metal gas~~ **corrugated stainless steel piping shall be isolated from **metal gas piping**, metal water piping, metal air ducts, **metal structural framing**, and all electrical wiring methods by a space separation of at least 2 inches. **Table E3503.1, or the piping system listing requirements, shall be used to size the bonding conductor used to bond corrugated stainless steel gas tubing (CSST) to the electrical system.****

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-155.5](#); filed Oct 21, 2005, 1:50 p.m.: 29 IR 806; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 63. [675 IAC 14-4.3-168.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-168.5](#) Section G2422.1; connecting appliances

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 168.5. Add item 5 to Section G2422.1 to read as follows: 5. Corrugated stainless steel tubing (CSST) where installed in accordance with the manufacturer's instructions. Where CSST enters into an appliance, it shall be protected from damage by a semi-rigid sleeve or conduit.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-168.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 64. [675 IAC 14-4.3-178](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-178](#) Section G2448.1; general

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13-2-9](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 178. **(a)** Add an exception to the end of Section G2448.1 to read as follows: Exception: Water heaters regulated by the Boiler and Pressure Vessel Rules Board ([680 IAC 2](#)) under [IC 22-13-2-9](#) are not regulated by this code.

(b) Add Section G2448.1.2 to read as follows: G2448.1.2 Anchorage of water heaters in seismic design category C₁. In seismic design category C₁, water heaters shall be anchored or fastened to resist horizontal displacement due to earthquake motion as provided in Section M1307.2.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-178](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3293, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 65. [675 IAC 14-4.3-191.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-191.5](#) Section P2605.1; general

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 191.5. In Section P2605.1, add item 5 to read as follows: 5. Metal piping shall be isolated from corrugated stainless steel tubing by a space separation of at least 2 inches (51 mm). See also Section G2411.1.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-191.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 66. [675 IAC 14-4.3-206](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-206](#) Section P3105.1; maximum distance of fixture trap to vent

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 206. Add a note to TABLE P3105.1 to read as follows: NOTE: A trap arm serving only a bath tub, **tub/shower combination**, or shower may be increased to 9 feet with a slope of not less than 1/8 inch per foot.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-206](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3296, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 67. [675 IAC 14-4.3-215](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-215](#) Section E3401; general

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 215. Change Section E3401 as follows:

(a) **(1)** Delete the definition of APPROVED and substitute to read as follows: See the definition of APPROVED in Section R202.

(b) **(2)** Delete the definition of BRANCH CIRCUIT, GENERAL PURPOSE and substitute: A branch circuit that supplies two or more receptacles or outlets for lighting and appliances.

(c) **(3)** Change the definition of Grounding Conductor, Equipment to read as follows: The conductor used to connect the noncurrent-carrying metal parts of equipment, raceways, and other enclosures to the system grounded conductor or the grounding electrode conductor, or both, at the service equipment or at the source of a separately derived system.

(d) **(4)** Change the definition of Grounding Electrode Conductor to read as follows: The conductor used to connect the grounding electrode(s) to the equipment grounded **grounding** conductor or to the grounded conductor, or to both, at the service equipment, at each building or structure where supplied ~~from~~ **by a common service, feeder(s) or branch circuit(s)**, or at the source of a separately derived system.

(e) **(5)** Delete the definition of LABELED and substitute as follows: See the definition of LABELED in Section R202.

(f) **(6)** Delete the definition of LISTED and substitute to read as follows: See the definition of LISTED AND LISTING in Section R202.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-215](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3297, eff 90 days after filing with the Secretary of State; filed Oct 21, 2005, 1:50 p.m.: 29 IR 807; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 68. [675 IAC 14-4.3-220.1](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-220.1](#) Section E3507.3; two or more buildings or structures supplied from a common service

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 220.1. Delete the title and first sentence of Section E3507.3 and substitute to read as follows: E3507.3 Buildings supplied by feeder(s) or branch circuit(s). Buildings or structures supplied by feeders(s) or branch circuit(s) shall have a grounding electrode or grounding electrode system installed in accordance with Section E3508. The grounding electrode conductor(s) shall be connected in a manner specified in Section E3507.1 or E3507.2.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-220.1](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 69. [675 IAC 14-4.3-220.2](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-220.2](#) Section E3507.3.1; equipment grounding conductor

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 220.2. After the second sentence of Section E3507.3.1, add a sentence to read as follows: The equipment grounding conductor shall be sized in accordance with Section R3808.12.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-220.2](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 70. [675 IAC 14-4.3-227.1](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-227.1](#) Table E3701.4; allowable applications for wiring methods

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 227.1. In the third column, in the sixteenth line of TABLE E3701.4, the sixteenth line, labeled "Run exposed and subject to physical damage", of the third column, labeled "EMT", delete "--" and insert "A".

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-227.1](#); filed Oct 21, 2005, 1:50 p.m.: 29 IR 808; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 71. [675 IAC 14-4.3-227.3](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-227.3](#) Section E3701.5; isolation from gas piping

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 227.3. Add a title and the text to Section E3701.5 to read as follows: E3701.5 Isolation from corrugated stainless steel tubing. All wiring methods shall be isolated from corrugated stainless steel tubing by a space separation of at least 2 inches (51 mm). See also Section G2411.1.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-227.3](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 72. [675 IAC 14-4.3-233](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-233](#) Section E3801.11; HVAC outlet

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 233. ~~In~~ **Change** the last sentence of Section E3801.11 ~~delete~~ to read as follows: **The receptacle outlet shall not be connected to the load side of the HVAC equipment disconnecting means, and crawlspace receptacles** shall be protected in accordance with Section E3802.4. ~~without substitution.~~

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-233](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3299, eff 90 days after filing with the Secretary of State; filed Oct 21, 2005, 1:50 p.m.: 29 IR 809; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 73. [675 IAC 14-4.3-233.3](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-233.3](#) Section E3802.4; crawlspace receptacles

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 233.3. Add an exception to Section E3802.4 to read as follows: **Single receptacles that serve sump pumps.**

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-233.3](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 74. [675 IAC 14-4.3-234](#) IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-234 Section E3802.8; boathouse receptaclesAuthority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 234. Change Section 3802.8 to read as follows: All 125-volt, single phase, 15- or 20-ampere receptacles and outlets that supply boat hoists ~~installed in~~ **and** boathouses shall have ground-fault circuit-interrupter protection for personnel.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-234](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3299, eff 90 days after filing with the Secretary of State; filed Oct 21, 2005, 1:50 p.m.: 29 IR 810; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 75. [675 IAC 14-4.3-242](#) IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-242 Section E3807.7; cablesAuthority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 242. (a) At the end of Part **item** 6, in the exception, delete ", the applicable article".

(b) After Part **item** 6 of the exception, add Part **item** 7 and **Table E3807.8** to read as follows: Where installed as conduit or tubing, ~~the allowable cable fill does not exceed that permitted for complete conduit or tubing systems by SECTION E3804.6.~~ **The allowable cable fill shall not exceed that permitted by Table E3807.8. A multiconductor cable having two or more conductors shall be treated as a single conductor for calculating the percentage of conduit fill area. For cables that have elliptical cross sections, the cross-sectional area calculation shall be based on the major diameter of the ellipse as a circle diameter.**

NUMBER OF CONDUCTORS	
1	53
2	31
Over 2	40

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-242](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3300, eff 90 days after filing with the Secretary of State; filed Oct 21, 2005, 1:50 p.m.: 29 IR 810; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 76. [675 IAC 14-4.3-243](#) IS AMENDED TO READ AS FOLLOWS:

675 IAC 14-4.3-243 Section E3808.7; load side equipmentAuthority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 243. Add Exception 2 to Section E3808.7 to read as follows: Exception 2. It shall be permissible to ground meter enclosures by connection to the grounded circuit conductor on the load-side of the service if:

- (1) all meter enclosures are located near **immediately adjacent to** the service disconnecting means; and
- (2) the size of the grounded circuit conductor is not smaller than the size specified in TABLE E3808.12 for equipment grounding conductors.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-243](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3300, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 77. [675 IAC 14-4.3-251.1](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-251.1](#) Section E4104.1; bonded parts

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 251.1. In the last sentence of Section E4104.1, item 1, after "made", insert "in accordance with Section E4104.3, Item 1.3" and, in the same sentence, delete "eliminate" and substitute "reduce".

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-251.1](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 78. [675 IAC 14-4.3-251.5](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-251.5](#) Section E4104.3; methods of bonding

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 251.5. (a) In the first sentence of Section E4104.3, delete "eliminate" and substitute "reduce".

(b) Delete the title and text of Section E4104.3, item 1, and substitute to read as follows: 1. Equipotential Bonding Grid. The parts specified in Section E4104.1 above shall be connected to an equipotential bonding grid with a solid copper conductor, insulated, covered, or bare, not smaller than 8 AWG or rigid metal conduit of brass or other identified corrosion-resistant metal conduit. Connections shall be made by exothermic welding or by listed pressure connectors or clamps that are labeled as being suitable for the purpose and are of stainless steel, brass, copper, or copper alloy. The equipotential bonding grid shall conform to the contours of the pool and shall extend within concrete or under other conductive paved, or under unpaved walking surfaces for 3 feet (914 mm) horizontally beyond the inside walls of the pool and shall be permitted to be any of the following:

1.1 Structural Reinforcing Steel. The structural reinforcing within a concrete pool shell or deck. Where deck reinforcing steel is not an integral part of the pool and its reinforcing, the deck reinforcing steel shall be bonded to other parts of the bonding grid at a minimum of four points uniformly spaced around the pool perimeter using a minimum 8 AWG solid copper conductor. Reinforcing steel shall not extend into soil beyond the concrete envelope.

1.2 Bolted or Welded Metal Pools. The wall of a bolted or welded metal pool.

1.3 Alternate Means. This system shall be permitted to be constructed as specified in (i) through (iii):

(i) Materials and Connections. The grid shall be constructed of minimum 8 AWG bare solid copper conductors. Conductors shall be bonded to each other at all points of crossing. Connections shall be made in accordance with item 1 above.

(ii) Grid Structure. The grid shall be arranged in a perpendicular grid pattern with 12 inches (305 mm) between conductors with tolerance of 4 inches (102 mm).

(iii) Securing. The grid shall be secured within concrete pool and deck material or under other conductive pool and deck material.

Exception: The equipotential bonding grid shall not be required to be installed under the bottom of or vertically along the walls of vinyl lined polymer wall, fiberglass composite, or other pools constructed of nonconductive materials. The equipotential bonding grid shall not be required to be installed under pool decks of nonconductive materials. Any metal parts of the pool, including metal structural supports, shall be bonded in accordance with E4104.1. For the purposes of this section, poured concrete, pneumatically applied (sprayed) concrete, and concrete block, with painted or plastered coatings, shall be considered conductive material. Asphalt, flagstone, brick, tile, and concrete pavers are examples of conductive deck paving materials.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-251.5](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 79. [675 IAC 14-4.3-251.6](#) IS ADDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-251.6](#) Section E4104.4; pool water

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 251.6. Add title and text of Section E4104.4 to read as follows: E4104.4 Pool water. An intentional bond of a minimum conductive surface area of nine square inches shall be installed in contact with the pool water. This bond shall be permitted to consist of parts that are required to be bonded in Section E4104.1.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-251.6](#); filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 80. [675 IAC 14-4.3-257](#) IS AMENDED TO READ AS FOLLOWS:

[675 IAC 14-4.3-257](#) Chapter 43; referenced standards

Authority: [IC 22-13-2-2](#); [IC 22-13-2-13](#)

Affected: [IC 22-12](#); [IC 22-13](#); [IC 22-14](#); [IC 22-15](#); [IC 36-7](#)

Sec. 257. (a) Delete, in the first paragraph of Chapter 43, "Section 102.4" and substitute to read as follows: Section R402: R101.

(b) Delete the following ASTM standards, including their associated code section citations from Chapter 43 of the 2003 International Residential Code:

C 1178-01	Specification for Glass Mat Water-resistant Gypsum Backing Panel
E 119-00a	Test Methods for Fire Tests of Building Construction and Materials
E 136-99	Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 Degree C
E 814-00	Test Method for Fire Tests of Through-Penetration Firestops.

(c) Delete the following UL standard, including its associated code section citation from Chapter 43 of the 2003 International Residential Code:

1479-94	Fire Tests of Through-Penetration Firestops.
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(d) Delete all of Chapter 43 of the 2006 International Residential Code except for the following standards and their associated code citations:

ACI 332-05	Requirements for Residential Concrete Construction
ASTM C 1178-04	Specification for Glass Mat Water-Resistant Gypsum Backing Panel
ASTM C 1288-01	Standard Specification for Discrete Non-asbestos Fiber-Cement Interior Substrate Sheets
ASTM 1325-04	Standard Specification for Non-asbestos Fiber-Mat Reinforced Cement Interior Substrate Sheets
ASTM D 6380-01	Standard Specification for Asphalt Roll Roofing (Organic Felt)
ASTM E 119-00a	Test Methods for Fire Tests of Building Construction and Materials
ASTM E 136-99e01	Test Method for Behavior of Materials in a Vertical Tube Furnace At 750 Degree C
ASTM E 814-02	Test Method for Fire Tests of Through-Penetration Firestops
ASTM E 1509-04	Standard Specification for Room Heaters, Pellet Fuel-burning Type
UL 508-99	Industrial Control Equipment
UL 1479-03	Fire Tests of Through-Penetration Firestops.

(Fire Prevention and Building Safety Commission; [675 IAC 14-4.3-257](#); filed Jun 13, 2005, 3:00 p.m.: 28 IR 3302, eff 90 days after filing with the Secretary of State; filed Mar 6, 2008, 11:13 a.m.: [20080402-IR-675070483FRA](#))

SECTION 81. THE FOLLOWING ARE REPEALED: [675 IAC 14-4.3-34](#); [675 IAC 14-4.3-97](#); [675 IAC 14-4.3-134](#); [675 IAC 14-4.3-138](#); [675 IAC 14-4.3-236](#).

LSA Document #07-483(F)

Notice of Intent: [20070815-IR-675070483NIA](#)

Proposed Rule: [20071121-IR-675070483PRA](#)

Hearing Held: December 14, 2007

Approved by Attorney General: February 22, 2008

Approved by Governor: March 5, 2008

Filed with Publisher: March 6, 2008, 11:13 a.m.

Documents Incorporated by Reference: Chapter 43 of the 2006 International Residential Code for One and Two Family Dwellings

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Posted: 04/02/2008 by Legislative Services Agency

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