



# South Carolina Building Codes Council 2021 Proposed Modifications

## 7/27/21 Study Committee Meeting

\*The code sections below are hyperlinked to the corresponding pages. The LLR Logo at the top of each page will take you back to the index.

IRC CODE SECTION	NEW/CONTINUATION	COMMITTEE RECOMMENDATION
R202 Definitions	Continuation	Support Approval
R301.2.1.1	Continuation	Support Approval, see notes on page.
R301.2.2.1.1	Continuation	Support Approved, see notes on page.
R302.1 Exterior Walls	Continuation	Support Approval with clerical correction
R302.5.1 Opening protection	Continuation	Support Approval
R302.13 Fire Protection of floors	Continuation	Support Approval
R303.4 Mechanical ventilation	Continuation	Support Approval
Figure R307.1 Minimum Fixture Clearances	Continuation	Support Approval with use of updated chart
R311.7.5.1 Risers	Continuation	Support Approval with minor change
R312.1.1 Where required	Continuation	Tabled for August 19 meeting
R312.2 Window fall protection	Continuation	Support Approval
R313	Continuation	Support Approval
315.2.2 Alterations, Repairs and Additions	Continuation	Drop Modification
R317.1.1 Field treatment	Continuation	Support Approval
318.1 Protection against Subterranean Termites	Continuation	Support Approval
R318.4 Foam Plastic Protection	Continuation	Support Approval with Figure Update
R319.1 Address identification	Continuation	Support Approval
R322.1 General	Continuation	Support Approval
R404.1.9.2 Masonry Piers Supporting floor girders	Continuation	Support Approval with clerical correction
R408.3 Unvented Crawl Space	Continuation	Support Approval with minor change
R408.4 Access	Continuation	Support Approval with minor change
R502.11.4 Truss design drawings	Continuation	Support Approval with minor change
R506.2.3 Vapor retarder	Continuation	Support Approval
R606.7 Piers	Continuation	Support Approval with reference change
R802.10.1 Truss design drawings	Continuation	Support Approval with minor change
R905.2.8.5 Drip Edge	Continuation	Support Approval
Chapter 11 Energy Efficiency	Continuation	Support Approval
M1411.6 Insulation of refrigerant piping	Continuation	Support Approval with clerical correction
M1411.9 Locking access port caps	Continuation	Support Approval with section change
M1502.3 Duct termination	Continuation	Support Approval



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M1502.4.2 Duct Installation	<b>Continuation</b>	Support Approval
M1502.4.6 Duct length	Continuation	Support Approval
M1503.6 Makeup air	Continuation	Support Approval, code section changed from 18
M1504.3 Exhaust Openings	Continuation	Support Approval
M1601.4.1 Joints, Seams and Connections	Continuation	Support Approval with minor changes
G2418.2 Design and installation	Continuation	Support Approval
P2503.6 Shower liner test	Continuation	Support Approval
P2603.5 Freezing	Continuation	Support Approval with clerical correction
P2903.10 Hose bibb	Continuation	Support Approval
P2904.1 General	Continuation	<b>Drop Modification</b>
E3802.4 In unfinished basements	Continuation	Support Approval
E3901.4.2 Island and peninsular countertops and work spaces	Continuation	<b>Drop Modificaiton</b>
E3902.17 Arc Fault Circuit Interrupted Protection	Continuation	<b>Tabled for August 19 meeting</b>
Appendix AH Patio Covers	Continuation	Support Approval with minor change
Appendix AJ Existing Buildings and Structures	Continuation	Support Approval with minor change
Appendix AQ Tiny Houses	Continuation	Support Approval with minor change

IBC CODE SECTION	NEW/CONTINUATION	COMMITTEE RECOMMENDATION
202 Chapter 2 Definitions	Continuation	Support Approval with clerical correction
303.4 Assembly Group A-3	Continuation	Support Approval
312.1 General	Continuation	Support Approval
706.1 General	Continuation	Support Approval
903.2.9 Group S-1	Continuation	<b>Drop Modification</b>
1009.4 Elevators	Continuation	<b>Drop Modification</b>
1016.2 Egress through intervening spaces	Continuation	Support Approval with added language and clerical corrections
1803.2 Investigation required	Continuation	Support Approval with clerical corrections
1907.1 Minimum Slab Provisions	Continuation	Support Approval
2303.2.2 Other means during manufacture	Continuation	Support Approval
Appendix H Signs	Continuation	Support Approval



# South Carolina Building Codes Council 2021 Proposed Modifications

IFC CODE SECTION	NEW/CONTINUATION	COMMITTEE RECOMMENDATION
202 General definitions	Continuation	Support Approval with clerical correction
202 General definitions	Continuation	Support Approval
202 General definitions A-3 occupancies	Continuation	Support Approval with clerical correction
Table 315.7.6(1) Pile Separation Distances	Continuation	Drop Modificaiton
503.2.1 Dimensions	Continuation	Support Approval
507.1 Required water supply	Continuation	Support Approval with clerical correction
507.5.1	Continuation	Support Approval with clerical correction
901.6.3 Records	Continuation	Support Approval
903.2.9 Group S-1	Continuation	Drop Modificaiton
1016.2 Egress through intervening spaces	Continuation	Support Approval with added language and clerical corrections
2307.4 Location of dispensing operations and equipment	Continuation	Support Approval
2307.7 Public fueling of motor vehicles	Continuation	Support Approval with clerical correction
6101.1 Scope	Continuation	Support Approval with clerical correction
6103.2.1.1 Use in basement, pit or similar location	Continuation	Drop Modification
6103.2.1.6 Use with self-contained torch assemblies	Continuation	Drop Modification
6106.1 Attendants	Continuation	Support Approval
6107.4 Protecting containers from vehicles	Continuation	Support Approval
6109.13 Protection of containers	Continuation	Support Approval with clerical correction
6110.1 Temporarily out of service	Continuation	Tabled for August 19 meeting
6111.2.1 Near residential, educational and institutional occupancies and other high-risk areas.	Continuation	Support Approval



# South Carolina Building Codes Council 2021 Proposed Modifications

IFGC CODE SECTION	NEW/CONTINUATION	COMMITTEE RECOMMENDATION
401.9 Identification	Continuation	Support Approval
401.10 Third-party testing and certification	Continuation	Support Approval
412.4 Listed equipment	Continuation	Support Approval
412.6 Location	Continuation	Support Approval with clerical corrections
412.8.3 Vehicle impact protection	Continuation	Support Approval
412.10 Private fueling of motor vehicles	Continuation	Support Approval
505.1.1 Commercial cooking appliances vented by exhaust hoods	Continuation	Support Approval

NEC CODE SECTION	NEW/CONTINUATION	COMMITTEE RECOMMENDATION
90.2(B)(5)b Not Covered	Continuation	Drop Modification
210.12(B)(c)	Continuation	No Action, previously repealed.

IMC CODE SECTION	NEW/CONTINUATION	COMMITTEE RECOMMENDATION
504.8.2.Duct Installation	Continuation	Support Approval with section change



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

### **2021 Code Section:** R202 Definitions

**Modification:** A definition of “Accepted Engineering Practice” was added

The new definition states:

**Accepted Engineering Practice** – The performance design of structures and/or structural elements that vary from prescriptive design methods of this code. Such design shall be made with accepted design standards by a South Carolina licensed Architect or Engineer as permitted by existing state law.

**Reason:** To provide a clear definition and uniform interpretation of the phrase

**Proponent:** Coastal Code Enforcement Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 01	R202 Definitions
IRC 2015	IRC 2015 01	R202 Definitions
IRC 2012	IRC 2012 01	R202 Definitions

**Comments:** No changes in 2021 IRC.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

### 2021 Code Section: R301.2.1.1

**Modification:** Additional language was added to the section and below language was removed.

~~Buildings shall be assigned a wind design category in accordance with figure R301.2(4)(B) Until probabilistic hazard maps, funded by the SC General Assembly can be presented by its author, Dr. Timothy Mayes and the findings reviewed, addressed and, if justified, adopted as a modification by the SC Building Code Council.~~

**Reason:** To determine if IRC tables reflect actual conditions in South Carolina

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 02	R301.2.1.1
IRC 2015	IRC 2015 02	R301.2(4)(B)

**Comments:** The above language above was removed in 2018, but the change of *International Residential Code to South Carolina Residential Code* was continued. In the 2021 IRC, there are a few changes to the language in this section that may need to be reviewed.

Notes after 7/27 Meeting: No regulation for this is needed. Remove from list.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** R301.2.2.1.1 *This should also include 301.2.2*

**Modification:** Additional language was added to the section and language below was deleted.

~~Buildings shall be assigned a seismic design category in accordance with figure R301.2(2) Until probabilistic hazard maps, funded by the SC General Assembly can be presented by its author, Dr. Timothy Mayes and the findings reviewed, addressed and, if justified, adopted as a modification by the SC Building Code Council.~~

**Reason:** To determine if IRC tables reflect actual conditions in South Carolina

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 03	R301.2.2.1.1
IRC 2015	IRC 2015 03	R301.2.2.1

**Comments:** *The above language above was removed in 2018, but the change of International Residential Code to South Carolina Residential Code was continued.*

Notes after 7/27 Meeting: No regulation for this is needed. Remove from list.



# 2021 International Residential Code

## South Carolina Building Codes Council

### Modification Continuations from 2018

**2021 Code Section:** R302.1 Exterior Walls

**Modification:** An additional exception was added to the section.

Exception 6 **Fire Separation Distance**

a. The minimum fire separation distance for improvement constructed on a lot shown on:[i ] a recorded bonded or final subdivision plat, or [ ii ] a sketch plan, site plan, plan of phased development or preliminary plat approved by the local governing authority which was recorded or approved prior to the implementation of IRC 2012 which shows or describes lesser setbacks than the fire separation distances provided in Table R302.1(1) shall be equal to the lesser setbacks, but in no event less than 3 feet.

b. The minimum fire separation distance for improvements constructed on a lot where the local governing authority has prior to the implementation of IRC 2012: [ i ] accepted exactions or issued conditions, [ ii ] granted a special exception, [ iii ] entered into a development agreement, [ iv ] approved a variance, [ v ] approved a planned development district, or [ vi ] otherwise approved a specific development plan which contemplated or provided for setbacks less than the fire separation distances provided in Table R302.1(1) shall be equal to the lesser setback, but in no event less than 3 feet.

**Reason:** To provide a clear definition and uniform interpretation of the phrase

**Proponent:** Coastal Code Enforcement Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 04	R302.1
IRC 2015	IRC 2015 01	R302.1
IRC 2012	IRC 2012 02	R302.1

**Comments:** Wording above should be added as a clerical fix, but no changes in 2021 section.

7/27: Approved with clerical change above.





## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** R 302.5.1 Opening protection

**2018 Modification:** The existing text was modified to remove the self-closing device.

The section now states:

Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

**Reason:** Lack of supporting documentation proving that self-closing devices contribute to fire or carbon monoxide safety

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 05	R302.5.1
IRC 2015	IRC 2015 05	R302.5.1

**Comments:** Wording changes some in the 2021 code. If modification is carried over, we will need to just delete the last sentence.

**2021 IRC**

**R302.5.1 Opening protection.** Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb-core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors. Doors shall be self-latching and equipped with a self-closing or automatic-closing device.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** R302.13 Fire Protection of floors

**Modification:** The existing text was modified to not require floor protection over a crawl space.

Exception 2 now reads:

2. Floor assemblies located directly over a crawl space.

**Reason:** Requirements are unwarranted and unnecessary

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 06	R302.13
IRC 2015	IRC 2015 06	R302.13

**Comments:** No changes in 2021 IRC.



## 2021 International Residential Code

### South Carolina Building Codes Council

### Modification Continuations from 2018

**2021 Code Section:** R303.4 Mechanical ventilation

**Modification:** The section was deleted without substitution

**Reason:** The blower door test is not required with the current State Energy Standard (2009 International Energy Conservation Code) and is not applicable.

**Proponent:** Coastal Code Enforcement Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 07	R303.4
IRC 2015	IRC 2015 07	R303.4
IRC 2012	IRC 2012 05	R303.4

**Comments:** language changed in 2021 code.

#### 2021 IRC

**R303.4 Mechanical ventilation.** Buildings and *dwelling units* complying with Section N1102.4.1 shall be provided with mechanical ventilation in accordance with Section M1505, or with other *approved* means of ventilation.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** Figure R307.1 Minimum Fixture Clearances

**Modification:** Change the minimum dimension for the side clearance between bathtubs and water closets and bidets from 15 inches to 12 inches.

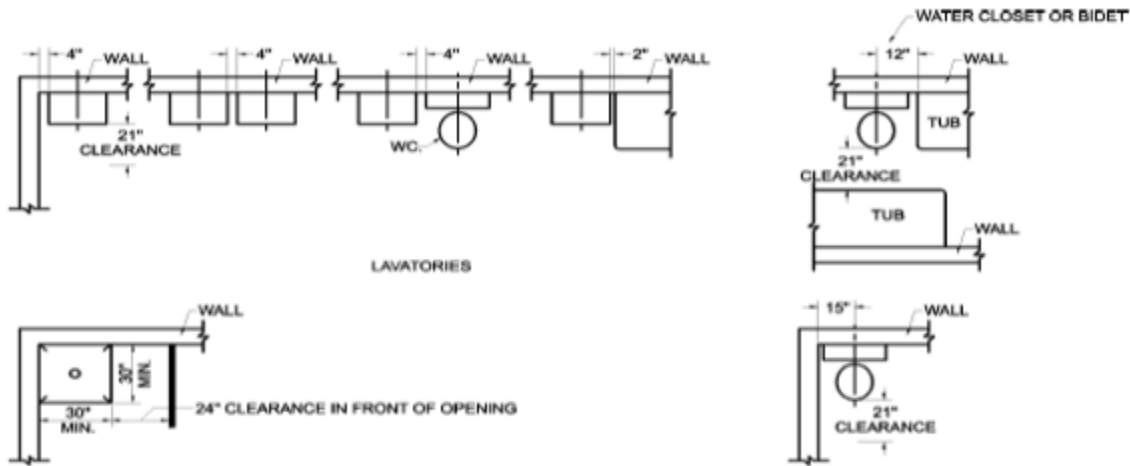


FIGURE 307.2  
 MINIMUM FIXTURE CLEARANCES

**Reason:** No valid reason exists to justify a minimum clearance of 15 inches

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 08	R307.1
IRC 2015	IRC 2015 08	R307.1
IRC 2012	IRC 2012 06	R307.2
IRC 2006	IRC 2006 09	R307.2
IRC 2003	IRC 2003 05	R307.2

**Comments:** See clerical correction above. Also, this is a very old chart. Newer chart should be easier to use and just change 15 inches to 12 inches. Figure is also 307.1, not 307.2

7/27: Approved with use of updated drawing (next page) with adding part in red to 12 inches. Clerical error noted above about "Figure" also approved.



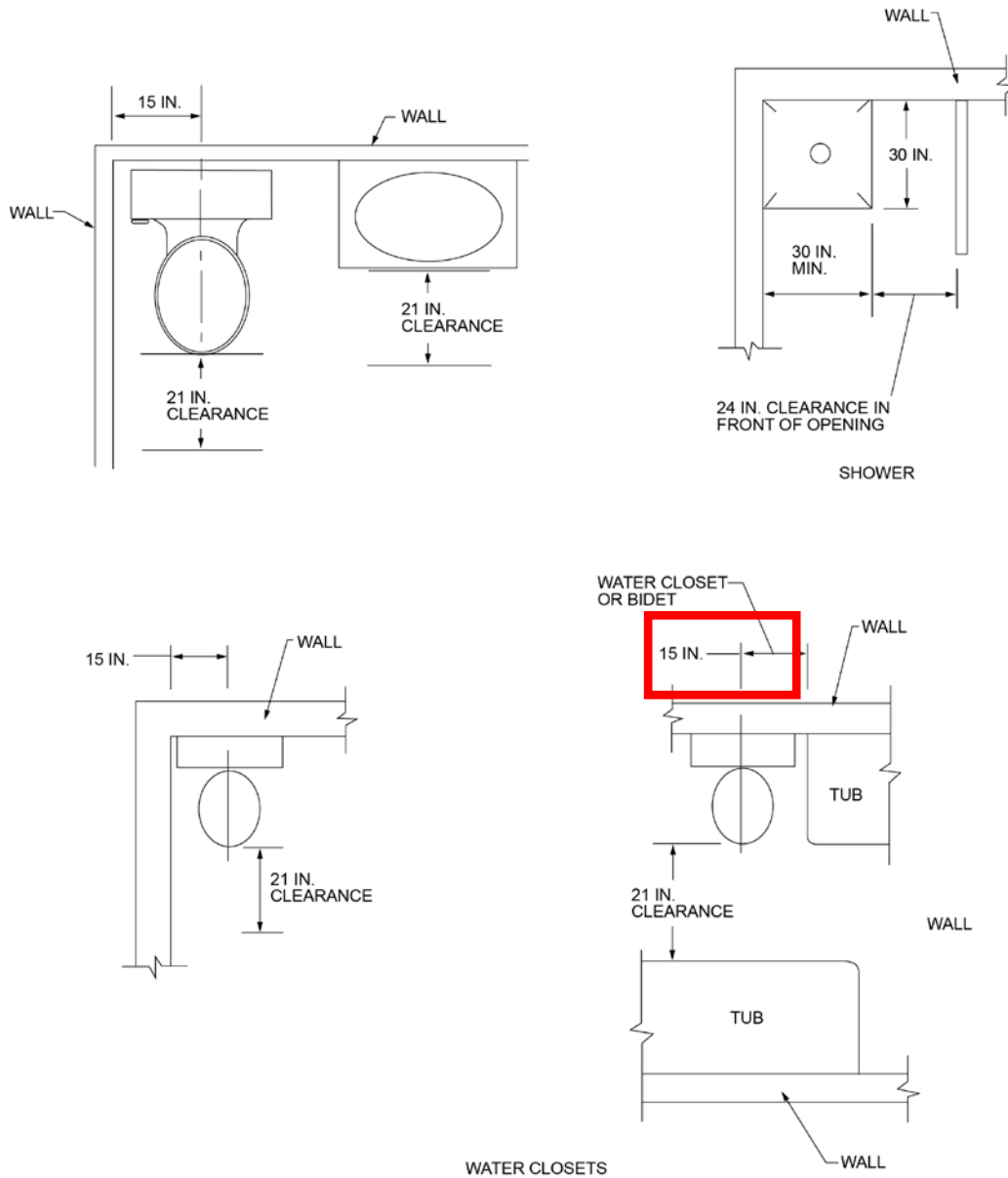
# 2021 International Residential Code

## South Carolina Building Codes Council

### Modification Continuations from 2018

R307.1 Continued (2021 IRC Chart is below)

**FIGURE R307.1**  
**MINIMUM FIXTURE CLEARANCES**





## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

### 2021 Code Section: R311.7.5.1 Risers

**Modification:** The existing text was modified to add riser height for masonry stairs.

The section now states:

The maximum riser height shall be 7¾ inches (196 mm). *The maximum riser height for masonry stairs shall be 8 inches (203 mm).* The riser **height** shall be measured vertically between leading edges of the adjacent treads. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Risers shall be vertical or sloped from the underside of the nosing of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open risers are permitted provided that the opening between treads does not permit the passage of a 4- inch-diameter (102 mm) sphere.

Exception: The opening between adjacent treads is not limited on stairs with a total rise of 30 inches (762 mm) or less.

**Reason:** To establish a maximum height for masonry risers

**Proponent:** Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 09	R311.7.5.1
IRC 2015	IRC 2015 09	R311.7.5.1
IRC 2012	IRC 2012 07	R311.7.5.1

**Comments:** Word "height" added to first sentence of 2021 code. Also, language in last sentence is written different since 2015 – change to updated language? Are exceptions about spiral stairways supposed to still be in code or removed?

#### 2021 IRC

**R311.7.5.1 Risers.** The *riser* height shall be not more than 7¾ inches (196 mm). The *riser* height shall be measured vertically between leading edges of the adjacent treads. The greatest *riser* height within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). *Risers* shall be vertical or sloped from the underside of the *nosing* of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. At open *risers*, openings located more than 30 inches (762 mm), as measured vertically, to the floor or *grade* below shall not permit the passage of a 4- inch-diameter (102 mm) sphere.

#### Exceptions:

1. The opening between adjacent treads is not limited on *spiral stairways*.
2. The *riser* height of *spiral stairways* shall be in accordance with Section R311.7.10.1

7/27: Approved with "height" from 2021 code and exceptions added back (clerical error from 2018).



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### 2021 Code Section: R312.1.1 Where required

**Modification:** The existing text was modified to create a downward slope ratio.

The section now states:

Guards shall be located along open-sided walking surfaces of all decks, porches, balconies, stairs, ramps and landings that are located more than 30 inches measured vertically to the floor or grade below and at any point where a downward slope exceeds 3V:12H within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

**Reason:** No technical justification to substantiate a 36 inch measurement away from the leading edge of the walking surface or tread to determine when a guard should be required

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 10	R312.1.1
IRC 2015	IRC 2015 10	R312.1.1
IRC 2012	IRC 2012 08	R312.1.1

**Comments:** Word "floors" added in the 2021 code to first sentence.

#### 2021 IRC

**R312.1.1 Where required.** *Guards* shall be provided for those portions of open-sided walking surfaces, including **floors**, stairs, *ramps* and landings that are located more than 30 inches (762 mm) measured vertically to the floor or *grade* below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a *guard*.

7/27: Tabled to fully review 2021 change.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### 2021 Code Section: R312.2 Window fall protection

**Modification:** The existing text for window fall protection was deleted. The section is deleted without substitution

**Reason:** Unusually restrictive

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 11	R312.2
IRC 2015	IRC 2015 11	R312.2
IRC 2012	IRC 2012 09	R312.2

**Comments:** 2021 IRC has several changes in language to 312.2.1 and 312.2.2. Still remove?

#### 2021 IRC

**R312.2 Window fall protection.** Window fall protection shall be provided in accordance with Sections R312.2.1 and R312.2.2.

**R312.2.1 Window opening height.** In *dwelling units*, where the bottom of the clear opening of an operable window opening is located less than 24 inches (610 mm) above the finished floor and greater than 72 inches (1829 mm) above the finished *grade* or other surface below on the exterior of the building, the operable window shall comply with one of the following:

1. Operable window openings will not allow a 4-inch-diameter (102 mm) sphere to pass through where the openings are in their largest opened position.
2. Operable windows are provided with window opening control devices or fall prevention devices that comply with ASTM F2090.

**R312.2.2 Emergency escape and rescue openings.**

Where an operable window serves as an *emergency escape and rescue opening*, a window opening control device or fall prevention device, after operation to release the control device or fall prevention device allowing the window to fully open, shall not reduce the net clear opening area of the window unit to less than the area required by Sections R310.2.1 and R310.2.2.





## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### 2021 Code Section: R313

**Modification:** Delete and substitute.

Section R313 now reads:

**R313.1 Townhouse automatic fire sprinkler systems.** An automatic residential fire sprinkler system shall not be required to be installed in townhouses when constructed in accordance with R302.2.

**Exception:** An automatic residential fire sprinkler system shall not be required where additions or alterations are made to existing townhouses that do not have an automatic residential fire sprinkler system installed.

**R313.1.1 Design and installation.** Automatic residential fire sprinkler systems for townhouses when installed shall be designed and installed in accordance with Section P2904 or NFPA 13D.

**R313.2 One- and two- family dwellings automatic fire systems.** An automatic residential fire sprinkler system shall not be required to be installed in one- and two-family dwellings.

**Exception:** An automatic residential fire sprinkler system shall not be required for additions or alterations to existing buildings that are not already provided with an automatic residential fire sprinkler system.

**R313.2.1 Design and installation.** Automatic residential fire sprinkler systems when installed shall be designed and installed in accordance with Section P2904 or NFPA 13D.

**Reason:** Unusually restrictive

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 12	R313
IRC 2015	IRC 2015 12	R313
IRC 2012	IRC 2012 10	R313.1
IRC 2012	IRC 2012 11	R313.2

**Comments:** No changes in 2021 IRC code section.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** 315.2.2 Alterations, Repairs and Additions

**Modification:** Add Language to Exception Number 2.

**Exception 2.** Installation, alteration or repairs of plumbing or mechanical systems other than installation or alteration of fuel fired systems and appliances are exempt from the requirements of this section.

**Reason:** N/A

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 13	315.2.2

**Comments:** 2021 IRC added exception 3 below. No need to continue modification.

### 2021 IRC

**R315.2.2 Alterations, repairs and additions.** Where *alterations, repairs* or *additions* requiring a *permit* occur, the individual *dwelling unit* shall be equipped with carbon monoxide alarms located as required for new *dwellings*.

#### Exceptions:

1. Work involving the exterior surfaces of *dwellings*, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck.
2. Installation, *alteration* or repairs of plumbing systems.
3. Installation, alteration or repairs of mechanical systems that are not fuel fired.

7/27 Modification dropped, 2021 code addresses issue.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** R317.1.1 Field treatment

**Modification:** Add text to the end of the existing section.

The section now reads:

Field-cut ends, notches and drilled holes of preservative-treated wood shall be treated in the field in accordance with AWWA M4 *or in accordance with the preservative-treated wood product manufacturer's recommendations.*

**Reason:** To add the preservative-treated wood product manufacturer's field treatment recommendations as a method of compliance.

**Proponent:** Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 14	R317.1.1
IRC 2015	IRC 2015 13	R317.1.1
IRC 2012	IRC 2012 12	R317.1.1

**Comments:** No changes in 2021 IRC.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** 318.1 Protection against Subterranean Termites

**Modification:** Add Language.

7. Treatments may be conducted as outlined in Section 27-1085 of the Rules and Regulations for the Enforcement of the SC Pesticide Control Act and enforced by the Clemson University Department of Pesticide Regulation.

**Reason:** N/A

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 15	318.1

**Comments:** No changes in 2021 IRC.



## 2021 International Residential Code

### South Carolina Building Codes Council

### Modification Continuations from 2018

**2021 Code Section:** R318.4 Foam Plastic Protection

**Modification:** Deleted number 2 and renumber and Add Language.

In areas where the probability of termite infestation is “very heavy” as indicated in Figure ~~R301.2(7)~~ **R318.4**, extruded and expanded polystyrene, polyisocyanurate and other foam plastics shall not be installed on the exterior face or under interior or exterior foundation walls or slab foundations located below grade. The clearance between foam plastics installed above grade and exposed earth shall be not less than 6 inches (152 mm). For crawl space applications, foam plastic shall be installed so as to provide a termite inspection gap of no less than 6 inches along the top of the foundation wall and foundation sill plate.

Exceptions:

1. Buildings where the structural members of walls, floors, ceilings and roofs are entirely of noncombustible materials or pressure preservative treated wood.
2. On the interior side of basement walls

**Reason:** N/A

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 16	R318.4

**Comments:** Figure is now R318.4 in 2021 IRC. See change above.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### 2021 Code Section: R319.1 Address identification

**Modification:** Delete language.

The section now reads:

Buildings shall be provided with approved address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be not less than 4 inches (102 mm) in height with a stroke width of not less than 0.5 inch (12.7 mm). Where access is by means of a private road and the building address cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure. Address identification shall be maintained.

**Reason:** Impractical

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 17	R319.1
IRC 2015	IRC 2015 14	R319.1

**Comments:** No changes to this section in 2021 IRC.

**R319.1 Address identification.** Buildings shall be provided with *approved* address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. ~~Numbers shall not be spelled out. Each character shall be not less than 4 inches (102 mm) in height with a stroke width of not less than 0.5 inch (12.7 mm).~~ Where required by the fire code official, address identification shall be provided in additional *approved* locations to facilitate emergency response. Where access is by means of a private road and the building address cannot be viewed from the *public way*, a monument, pole or other sign or means shall be used to identify the structure. Address identification shall be maintained.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** R322.1 General

**Modification:** Add Language below as last sentence.

Where there is a conflict with this code section and a locally adopted flood ordinance, the more restrictive provision shall apply.

**Reason:** N/A

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 18	R322.1

**Comments:** No changes to this section in 2021 IRC.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** R404.1.9.2 Masonry Piers Supporting floor girders

**Modification:** Modify language.

Section now reads:

**R404.1.9.2 Masonry piers supporting floor girders.** Masonry piers supporting wood girders sized in accordance with Tables R602.7(1) and R602.7(2) shall be permitted in accordance with this section. Piers supporting girders for interior bearing walls shall be filled solidly with grout or type M or S mortar and shall have a minimum nominal dimension of 8 inches (203 mm) and a maximum height not exceeding 10 times the nominal thickness from top of footing to bottom of sill plate or girder. Piers supporting beams and girders for exterior bearing walls shall be filled solidly with grout or type M or S mortar, shall contain a minimum of one #4 (13 mm) dowel mid-depth, and shall have a minimum nominal dimension of 8 inches (203 mm) and a maximum height of 4 times the nominal thickness from top of footing to bottom of sill plate or girder unless it can be shown by accepted engineering practice that there is sufficient foundation wall along the foundation line to resist the imposed lateral loads, in which case the maximum height shall not exceed 10 times the nominal thickness. Girders and sill plates shall be anchored to the pier or footing in accordance with Section R403.1.6 or Figure ~~R404.1.5(1)~~ **R404.1.5.3**. Floor girder bearing shall be in accordance with Section R502.6.

**Reason:** Unusually restrictive

**Proponent:** Home Builders Association of South Carolina and South Carolina Structural Engineers Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 20	R404.1.9.2
IRC 2015	IRC 2015 16	R404.1.9.2
IRC 2012	IRC 2012 13	R404.1.9.2

**Comments:** See reference error above in red.





## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### 2021 Code Section: R408.3 Unvented Crawl Space

**Modification:** Delete "Class 1" and Add Language.

Ventilation openings in under-floor spaces specified in Sections R408.1 and R408.2 shall not be required where the following items are provided:

1. Exposed earth ~~shall be~~ is covered with a continuous vapor retarder meeting ASTM E1745 Class A. Joints of the vapor retarder shall overlap by 6 inches (152 mm) and shall be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (152 mm) up the stem wall and shall be attached and sealed to the stem wall or insulation.

**Reason:** N/A

**Proponent:** Structural Engineers Association of SC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 21	R408.3

**Comments:** 2021 IRC says "shall be," see above. Language changed in 2021 IRC. No longer references R408.1 and R408.2 in first sentence. Underlined modification can still be applied.

#### 2021 IRC

**R408.3 Unvented crawl space.** For unvented under-floor spaces, the following items shall be provided:

1. Exposed earth shall be covered with a continuous Class I vapor retarder. Joints of the vapor retarder shall overlap by 6 inches (152 mm) and shall be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (152 mm) up the stem wall and shall be attached and sealed to the stem wall or insulation.

(Additional text in code section after this...)

7/27: Minor correction of "shall be" was approved as part of continuation.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** R408.4 Access

**Modification:** Text was removed.

The section now reads:

Access shall be provided to all under-floor spaces. Access openings through the floor shall be a **minimum of** 18 inches by 24 inches (457 mm by 610 mm). Openings through a perimeter wall shall be not less than 16 inches by 24 inches (407 mm by 610 mm). Where any portion of the through-wall access is below grade, an areaway not less than 16 inches by 24 inches (407 mm by 610 mm) shall be provided. The bottom of the areaway shall be below the threshold of the access opening. See Section M1305.1.4 for access requirements where mechanical equipment is located under floors

**Reason:** To allow access openings under a doorway

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 22	R408.4
IRC 2015	IRC 2015 17	R408.4

**Comments:** Above text says "shall be a minimum of." IRC language changed in 2018 code to "shall be not smaller than." Make change?

7/27: Minor correction of "shall not be smaller than" was approved as part of continuation.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

### 2021 Code Section: R502.11.4 Truss design drawings

**Modification:** The section was modified to eliminate the requirement for truss design approval prior to installation.

The section now states:

Truss design drawings, prepared in compliance with Section R502.11.1, shall be provided to the building official at the time of their inspection. Truss design drawings shall be provided with the shipment of trusses delivered to the job site. Truss design drawings shall include at a minimum the information specified ~~below~~ **as follows**:

**Reason:** The section was modified to allow the approval of truss design drawings by local building officials to occur at the time of the framing inspection, rather than at an undefined time prior to installation.

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 23	R502.11.4
IRC 2015	IRC 2015 18	R502.11.4
IRC 2012	IRC 2012 14	R502.11.4
IRC 2006	IRC 2006 21	R502.11.4
IRC 2003	IRC 2003 17	R502.11.4

**Comments:** No change in 2021 IRC to code section. Make change above to match code?

7/27: Minor correction of "as follows" was approved as part of continuation.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** R506.2.3 Vapor retarder

**Modification:** Delete “Garages” from Exception 1.

Exception 1 now reads: Utility buildings and other unheated accessory structures

**Reason:** It is a fairly common practice for garages to be transformed into conditioned space at which time having a vapor retarder becomes necessary, or to be converted to storage space (over 70 sq. ft.) at which time a vapor barrier is required.

**Proponent:** Structural Engineers’ Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 24	R506.2.3
IRC 2015	IRC 2015 19	R506.2.3

**Comments:** First sentence changed in 2021 IRC. Does not change modification.

#### 2021 IRC

**R506.2.3 Vapor retarder.** A minimum 10-mil (0.010 inch; 0.254 mm) vapor retarder conforming to ASTM E1745 Class A requirements with joints lapped not less than 6 inches (152 mm) shall be placed between the concrete floor slab and the base course or the prepared subgrade where a base course does not exist.

**Exception:** The vapor retarder is not required for the following:

1. Garages, utility buildings and other unheated *accessory structures*.
2. For unheated storage rooms having an area of less than 70 square feet (6.5 m<sup>2</sup>) and carports.
3. Driveways, walks, patios and other flatwork not likely to be enclosed and heated at a later date.
4. Where *approved* by the *building official*, based on local site conditions.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

### 2021 Code Section: R606.7 Piers

**Modification:** Remove type N mortar from section.

**Reason:** To allow the use of only type M or S mortar to comply with ACI 530 which disallows the use of type N mortar in foundation walls.

**Proponent:** Structural Engineers' Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 25	R606.7
IRC 2015	IRC 2015 20	R606.7

**Comments:** No changes to section in 2021 IRC.

7/27: Modification continued with reference change. Have Jesse double check, but he said it should be TMS402 and not ACI 530.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

### 2021 Code Section: R802.10.1 Truss design drawings

**Modification:** The section was modified to eliminate the requirement for truss design approval prior to installation.

The section now states:

Truss design drawings, prepared in compliance with Section R802.10, shall be provided to the building official at the time of their inspection. Truss design drawings shall be provided with the shipment of trusses delivered to the job site. Truss design drawings shall include at a minimum the ~~information specified below~~ **following information:**

**Reason:** The section was modified to allow the approval of truss design drawings by local building officials to occur at the time of the framing inspection, rather than at an undefined time prior to installation.

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 26	R802.10.1
IRC 2015	IRC 2015 21	R802.10.1

**Comments:** Continued modification IRC 2003 17, IRC 2006 21 and 2012 14 with minor language change to include all trusses.

See change above to match code.

7/27: Minor correction of "following information" was approved as part of continuation.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** R905.2.8.5 Drip Edge**Modification:** Language change.

This section now reads:

A drip edge shall be provided at eaves and rake edges of asphalt shingle roofs where required by the manufacturer.

**Reason:** Impractical**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 27	R905.2.8.5
IRC 2015	IRC 2015 22	R905.2.8.5

**Comments:** No changes in 2021 IRC.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** Chapter 11 Energy Efficiency

**Modification:** Deleted without substitution

**Reason:** The State of South Carolina has specific energy standards in statutory form (Re: Title 6, Chapter 9, Building Codes and Title 6, Chapter 10, Building Energy Efficiency Standard Act.). To eliminate any possible conflicts concerning the insulation requirements for single and two family residential buildings between the International Residential Code and state law, Chapter 11 was deleted.

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 28	Chapter 11
IRC 2015	IRC 2015 22	Chapter 11
IRC 2012	IRC 2012 16	Chapter 11
IRC 2006	IRC 2006 27	Chapter 11
IRC 2003	IRC 2003 21	Chapter 11

**Comments:** No changes in 2021 IRC





## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

### 2021 Code Section: M1411.6 Insulation of refrigerant piping

**Modification:** The thermal resistivity of the insulation around refrigerant vapor lines was reduced from R 4.0 to R 2.5.

The section now states:

Piping and fittings for refrigerant vapor (suction) lines shall be insulated with insulation ~~have~~ **having** a thermal resistivity of at least R 2.5 hr. ft<sup>2</sup> F/Btu and having external surface permeance not exceeding 0.05 perm [2.87 ng/(s·m<sup>2</sup>·Pa)] when tested in accordance with ASTM E 96.

**Reason:** Section M1411.4 requires insulation of refrigerant lines to R 4. Further research is needed to determine if this insulating product is commercially available. To qualify for R 4 additional insulation may be required, which could limit the spaces in which refrigerant lines could be installed.

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 29	M1411.6
IRC 2015	IRC 2015 24	M1411.6
IRC 2012	IRC 2012 18	M1411.6
IRC 2006	IRC 2006 28	M1411.5
IRC 2003	IRC 2003 22	M1411.4

**Comments:** Note typo above. 2021 IRC changed R-4 to "not less than R-3." Keep modification?

#### 2021 IRC

**M1411.6 Insulation of refrigerant piping.** Piping and fittings for refrigerant vapor (suction) lines shall be insulated with insulation having a thermal resistivity of not less than R-3 and having external surface permeance not exceeding 0.05 perm [2.87 ng/(s × m<sup>2</sup> × Pa)] when tested in accordance with ASTM E96.

7/27: Approved with clerical correction of "having."



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** ~~M1411.8~~ **M1411.9** Locking access port caps

**Modification:** Deleted without substitution

**Reason:** The section appears to solve a non-issue at an added cost to the consumer.

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 30	M1411.8
IRC 2015	IRC 2015 25	M1411.6
IRC 2012	IRC 2012 18	M1411.6

**Comments:** Existing mod is now M1411.9

### 2021 IRC

**M1411.9 Locking access port caps.** Refrigerant circuit access ports located outdoors shall be fitted with lockingtype tamper-resistant caps or shall be otherwise secured to prevent unauthorized access.

7/27 Modification approved with change in code section noted above.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### **2021 Code Section:** M1502.3 Duct termination

**Modification:** Deleted the third sentence without substitution.

The section now states:

Exhaust ducts shall terminate on the outside of the building. Exhaust duct terminations shall be in accordance with the dryer manufacturer's installation instructions. Exhaust duct terminations shall be equipped with a backdraft damper. Screens shall not be installed at the duct termination.

**Reason:** The three feet dimension is arbitrary and restrictive; the dimension is not a requirement of the dryer manufacturers.

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 31	M1502.3
IRC 2015	IRC 2015 26	M1502.3
IRC 2012	IRC 2012 19	M1502.3
IRC 2006	IRC 2006 29	M1502.2

**Comments:** Language was added in 2021 IRC to the sentence that is deleted with modification, see below.

**M1502.3 Duct termination.** Exhaust ducts shall terminate on the outside of the building. Exhaust duct terminations shall be in accordance with the dryer manufacturer's installation instructions. If the manufacturer's instructions do not specify a termination location, the exhaust duct shall terminate not less than 3 feet (914 mm) in any direction from openings into buildings, including openings in ventilated soffits. Exhaust duct terminations shall be equipped with a backdraft damper. Screens shall not be installed at the duct termination.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### **2021 Code Section:** M1502.4.2 Duct Installation

**Modification:** Deleted “more than 1/8” and Add Language.

Exhaust ducts shall be supported at intervals not to exceed 8 feet and within 16 inches of each side of a joint that is not installed in a vertical orientation, secured in place, making rigid contact with the duct at not less than 4 equally spaced points or 2/3rds contact if strap is used. All brackets or strapping must be noncombustible. The insert end of the duct shall extend into the adjoining duct or fitting in the direction of airflow. The overlap shall comply with Section M1601.4.2. Ducts shall not be joined with screws or similar devices that protrude into the inside of the duct. Exhaust ducts shall be sealed in accordance with Section M1601.4.1. Where dryer ducts are enclosed in wall or ceiling cavities, such cavities shall allow the installation without deformation. The duct work may be ovalized as long as it terminates in an approved duct box. Minor imperfections located on the duct, in areas other than along the seam, do not constitute a violation.

**Reason:** N/A

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 32	M1502.4.2

**Comments:** No changes in 2021 IRC.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### 2021 Code Section: ~~M1502.4.5~~ M1502.4.6 Duct length

**Modification:** Language was modified in the first sentence to increase the maximum dryer duct length to 35 feet.

The section now states:

The maximum length of a clothes dryer exhaust duct shall not exceed 35 feet (10668 mm) from the dryer location to the wall or roof termination.

**Reason:** To coincide with the maximum duct length specified by most clothes dryer manufacturers

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 33	M1502.4.5
IRC 2015	IRC 2015 27	M1502.4.4
IRC 2012	IRC 2012 20	M1502.4.4
IRC 2006	IRC 2006 30	M1502.6

**Comments:** Section moved to M1502.4.6, no changes to section other than move.

#### 2021 IRC

**M1502.4.6 Duct length.** The maximum allowable exhaust duct length shall be determined by one of the methods specified in Sections M1502.4.6.1 through M1502.4.6.3.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** M1503.6 Makeup air

**Modification:** Language was modified to require make up air in the amount of excess over 400 cfm.

**The section and exception were deleted.** Section now states:

Exhaust hood systems capable of exhausting more than 400 cubic feet per minute (0.19m<sup>3</sup>/s) shall be mechanically or naturally provided with makeup air at a rate approximately equal to the exhaust air rate more than 400 cubic feet per minute. Such makeup air systems shall be equipped with not less than one damper. Each damper shall be a gravity damper or an electrically operated damper that automatically opens when the exhaust system operates. Dampers shall be accessible for inspection, service, repair and replacement without removing permanent construction or any other ducts not connected to the damper being inspected, serviced, repaired or replaced.

**Reason:** Makeup air is not required for installations less than 400 cfm.

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 34	M1503.6
IRC 2015	IRC 2015 28	M1503.4

**Comments:** No changes in 2021 IRC.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### **2021 Code Section:** M1504.3 Exhaust Openings

**Modification:** Add Language.

Air exhaust openings shall terminate as follows:

1. Not less than 3 feet (914 mm) from property lines.
2. Not less than 3 feet (914 mm) from gravity air intake openings, operable windows and doors.
3. Not less than 10 feet (3048mm) from mechanical air intake openings except where the exhaust opening is located not less than 3 feet (914mm) above the air intake opening. Openings shall comply with Section R303.5.2 and R303.6.

**Exception:** Bathrooms, water closets and shower spaces.

**Reason:** N/A

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 35	M1504.3

**Comments:** No change in 2021 IRC.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

### 2021 Code Section: M1601.4.1 Joints, Seams and Connections

**Modification:** Language was modified to not require additional closure system for seams of other than snap lock and button lock types.

Exceptions:

1. Spray polyurethane foam shall be permitted to be applied without additional joint seals.
2. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.
3. For ducts having a static pressure classification of less than 2 inches of water column (500 Pa), additional closure systems shall not be required for continuously welded joints and seams and locking-type joints.

**Reason:**

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 36	M1601.4.1
IRC 2015	IRC 2015 29	M1601.4.1

**Comments:** Make change below to match code? No changes in 2021 IRC.

**Exceptions:**

1. Spray polyurethane foam shall be permitted to be applied without additional joint seals.
2. Where a duct connection is made that is partially **without access**, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.
3. For ducts having a static pressure classification of less than 2 inches of water column (500 Pa), additional closure systems shall not be required for continuously welded joints and seams and locking-type joints **and seams**. ~~This exception shall not apply to snap lock and button lock type joints and seams that are located outside of conditioned spaces.~~

7/27: Approved with changes in red to match 2021 code.





## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** G2418.2 Design and installation

**Modification:** The word “metal” was removed from the first sentence of the section.

The sentence now states:

Piping shall be supported with pipe hooks, pipe straps, bands, brackets, hangers, or building structural components suitable for the size of piping, of adequate strength and quality, and located at intervals so as to prevent or damp out excessive vibration.

**Reason:** To allow other support materials that have been used successfully for years.

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 37	G2418.2
IRC 2015	IRC 2015 30	G2418.2
IRC 2012	IRC 2012 21	G2418.2

**Comments:** No changes in 2021 IRC.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** P2503.6 Shower liner test

**Modification:** The requirement for a dam for the shower liner test was eliminated.

The sentence now states:

Where shower floors and receptors are made watertight by the application of materials required by section P2709.2, the completed liner installation shall be tested. Shower liner shall be tested to the lesser of the depth of threshold or 2" and shall be operated at normal pressure for a test period of not less than 15 minutes, and there shall be no evidence of leakage.

**Reason:** To allow a simple test performed under typical conditions

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 38	P2503.6
IRC 2015	IRC 2015 31	P2503.6
IRC 2012	IRC 2012 22	P2503.6

**Comments:** No changes in 2021 IRC.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### 2021 Code Section: P2603.5 Freezing

**Modification:** Modify language to allow a soil or waste pipe to be installed outside of a building.

The section now reads:

In localities having a winter design temperature of 32 degrees (0 degrees C) or lower as shown in Table R301.2(1) of this code, a water pipe shall not be installed outside of a building, in exterior walls, in attic or crawl spaces, or any other place subjected to freezing temperatures unless adequate provision is made to protect it from freezing by insulation or heat or both. Water service pipe shall be installed not less than 12 inches (305 mm) deep and not less than 6 inches (152 mm) below the frost line.

**Reason:** Unusually restrictive

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 39	P2603.5
IRC 2015	IRC 2015 32	P2603.5

**Comments:** No changes in 2021 IRC. **Note correction above.**

7/27: Minor correction was approved as part of continuation.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** P2903.10 Hose bibb

**Modification:** Delete section without substitution.

Entire section deleted

**Reason:** Unusually restrictive

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 40	P2903.10
IRC 2015	IRC 2015 33	P2903.10

**Comments:** No changes in 2021 IRC.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### 2021 Code Section: P2904.1 General

**Modification:** Text was added to the end of the existing section.

The sentence now states:

The design and installation of residential fire sprinkler systems shall be in accordance with NFPA 13D or Section P2904 which shall be considered equivalent to NFPA 13D. Partial residential sprinkler systems shall be permitted to be installed only in buildings not required to be equipped with a residential sprinkler system. Section P2904 shall apply to stand-alone and multipurpose wet-pipe sprinkler systems that do not include the use of antifreeze. A multipurpose fire sprinkler system shall provide domestic water to both fire sprinklers and plumbing fixtures. A stand-alone sprinkler system shall be separate and independent from the water distribution system. A backflow preventer shall not be required to separate a stand-alone sprinkler system from the water distribution system. **Any individual offering to contract for the design, installation, testing, and/or maintenance of a residential multipurpose fire sprinkler systems, as referred in section P2904, must be certified and licensed through the South Carolina Contractors Licensing Board.**

**Reason:** To protect the homeowner and contractor from liability due to faulty design or installation.

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 41	P2904.1
IRC 2015	IRC 2015 34	P2904.1
IRC 2012	IRC 2012 23	P2904.1

**Comments:** Delete modification. SC Contractor's licensing Board determined that this type of system does not require a Fire Sprinkler Contractor license.

SECTION 40-10-20. Definitions.(8) "Fire sprinkler system" means a system of overhead or underground piping, or both, to protect the interior or exterior of a building or structure from fire where the primary extinguishing agent is water and designed in accordance with fire protection engineering standards. The system includes the overhead and underground fire water mains, fire hydrants and hydrant mains, standpipes, and hose connection to sprinkler systems, supplied from a reliable, constant, and sufficient water supply, such as a gravity tank, fire pump, reservoir, or pressure tank, or connection by underground piping to a city main but does not include dual or multi-purpose water lines supplying fire systems or equipment, potable water, or process water, or both. The system is a network of specially sized or hydraulically designed piping installed in a building, structure, or area, generally overhead, and to which sprinklers are connected in a systematic pattern. The system includes a controlling valve and a device for actuating an alarm when the system is in operation. The system is usually activated by heat from a fire and discharges water over the fire area. Fire protection sprinkler systems include the following types: water based or wet-pipe systems, water foam systems, dry-pipe systems, preaction systems, residential systems, deluge systems, combined dry-pipe and preaction systems, non-freeze systems, and circulating closed loop systems.

**7/27:Modification dropped for reasons above.**



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### **2021 Code Section:** E3802.4 In unfinished basements

**Modification:** Remove requirement for smaller cables to be ran through joists or on running boards in a crawl space.

**E3802.4 In unfinished basements.** Where type NM or SE cable is run at angles with joists in unfinished basements, cable assemblies containing two or more conductors of sizes 6 AWG and larger and assemblies containing three or more conductors of sizes 8 AWG and larger shall not require additional protection where attached directly to the bottom of the joists. Smaller cables shall be run either through bored holes in joists or on running boards. Type NM or SE cable installed on the wall of an unfinished basement shall be permitted to be installed in a listed conduit or tubing or shall be protected in accordance with Table E3802.1. Conduit or tubing shall be provided with a suitable insulating bushing or adapter at the point where the cable enters the raceway. The sheath of the Type NM or SE cable shall extend through the conduit or tubing and into the outlet or device box not less than 1/4 inch (6.4 mm). The cable shall be secured within 12 inches (305 mm) of the point where the cable enters the conduit or tubing. Metal conduit, tubing, and metal outlet boxes shall be connected to an equipment grounding conductor complying with Section E3908.13. [334.15(C)]

**Reason:** Unusually restrictive

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 42	E3802.4
IRC 2015	IRC 2015 35	E3802.4

**Comments:** No changes to section in 2021 IRC.

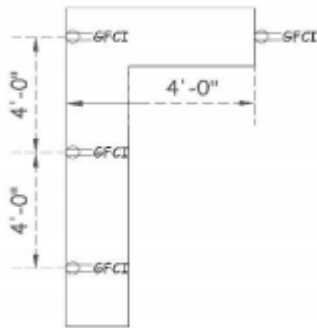


**2021 International Residential Code**  
**South Carolina Building Codes Council**  
**Modification Continuations from 2018**

**2021 Code Section:** ~~R3901.4.3 Peninsular countertop space~~ **E3901.4.2 Island and peninsular countertops and work spaces.**

**Modification:** Delete and Add Language.

Not less than one receptacle outlet shall be installed at each peninsular countertop long dimension space having a long dimension of 48 inches (1220 mm) or greater and a short dimension of 12 inches (305 mm) or greater. A peninsular countertop is measured from the connected perpendicular wall. [210.52(C)(3)].



**Reason:** N/A

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 43	R3901.4.3

**Comments:** Section redone in 2021 IRC to combine island and peninsular countertops. Does this require a new modification request?

**E3901.4.2 Island and peninsular countertops and work spaces.** Receptacle outlets shall be installed in accordance with the following: [210.52(C)(2)]

1. At least one receptacle outlet shall be provided for the first 9 square feet (0.84 m<sup>2</sup>), or fraction thereof, of the countertop or work surface. A receptacle outlet shall be provided for every additional 18 square feet (1.7 m<sup>2</sup>), or fraction thereof, of the countertop or work surface.

[210.52(C)(2)(a)]

2. At least one receptacle outlet shall be located within 2 feet (600 mm) of the outer end of a peninsular countertop or work surface. Additional receptacle outlets shall be permitted to be located as determined by the installer, designer or building owner. The location of the receptacle outlets shall be in accordance with Section E3901.4.3.

[210.52(C)(2)(b)]

7/27: Modification dropped, 2021 code changes cover modification.



## 2021 International Residential Code

### South Carolina Building Codes Council Modification Continuations from 2018

#### **2021 Code Section:** ~~E3902.16~~ **E3902.17** Arc Fault Circuit Interrupted Protection

**Modification:** Deleted “kitchen & laundry rooms” and Add Language.

In areas other than kitchen and laundry areas, branch circuits that supply 120-volt single-phase, 15- and 20-ampere outlets installed in family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreations rooms, closets, hallways, and similar rooms or areas shall be protected by any of the following: [210.12(A)]

1. A listed combination-type arc-fault circuit-interrupter, installed to provide protection of the entire branch circuit. [210.12(A)(1)]
2. A listed branch/feeder-type AFCI installed at the origin of the branch-circuit in combination with a listed outlet branch-circuit-type arc-fault circuit-interrupter installed at the first outlet box on the branch circuit. The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit. [210.12(A)(2)]
3. A listed supplemental arc-protection circuit breaker installed at the origin of the branch circuit in combination with a listed outlet branch-circuit-type arc-fault circuit interrupter installed at the first outlet box on the branch circuit where all of the following conditions are met:
  - 3.1 The branch-circuit wiring shall be continuous from the branch-circuit overcurrent device to the outlet branch-circuit arc-fault circuit-interrupter.
  - 3.2 The maximum length of the branch-circuit wiring from the branch-circuit overcurrent device to the first outlet shall not exceed 50 feet (15.2 m) for 14 AWG conductors and 70 feet (21.3 m) for 12 AWG conductors.
  - 3.3 The first outlet box on the branch circuit shall be marked to indicate that it is the first outlet on the circuit. [210.12(A)(3)].
4. A listed outlet branch-circuit type arc-fault circuit interrupter installed at the first outlet on the branch circuit in combination with a listed branch-circuit overcurrent protective device where all of the following conditions are met:
  - 4.1 The branch-circuit wiring shall be continuous from the branch-circuit overcurrent device to the outlet branch-circuit arc-fault circuit-interrupter.
  - 4.2 The maximum length of the branch-circuit wiring from the branch-circuit overcurrent device to the first outlet shall not exceed 50 feet (15.2 m) for 14 AWG conductors and 70 feet (21.3m) for 12 AWG conductors.
  - 4.3 The first outlet box on the branch circuit shall be marked to indicate that it is the first outlet on the circuit.
  - 4.4 The combination of the branch-circuit overcurrent device and outlet branch-circuit AFCI shall be identified as meeting the requirements for a system combination-type AFCI and shall be listed as such. [210.12(A)(4)]

**Reason:** N/A

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 44	3902.16

**Comments:** 2021 IRC Section changed to 3902.17, no language change.

7/27: Tabled for 8/19 meeting.





## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** Appendix H AH Patio Covers

**Modification:** Appendix H was adopted for use statewide.

**Reason:** To provide minimum requirements for patio covers for the protection of people and property

**Proponent:** Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 45	Appendix H
IRC 2015	IRC 2015 36	Appendix H
IRC 2012	IRC 2012 25	Appendix H

**Comments:** Section is "AH" in 2021 IRC.

7/27: Approved with section title change.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** Appendix J **AJ Existing Buildings and Structures**

**Modification:** Appendix J was adopted for use statewide.

**Reason:** To provide guidance for renovating, modifying or updating residential structures in applying the IRC and to help with uniform enforcement of the IRC on renovation projects across the state.

**Proponent:** Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 46	Appendix J
IRC 2015	IRC 2015 37	Appendix J

**Comments:** Section is "AJ" in 2021 IRC.

7/27: Approved with section title change.



## 2021 International Residential Code South Carolina Building Codes Council Modification Continuations from 2018

**2021 Code Section:** Appendix Q **AQ Tiny Houses**

**Modification:** New

**Reason:** Adopted for use statewide.

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IRC 2018	IRC 2018 47	Appendix Q

**Comments:** Section is "AQ" in 2021 IRC.

7/27: Approved with section title change.



2021 International Building Code  
South Carolina Building Codes Council  
Proposed Modification Continuations from 2018

2021 Code Section: 202 ~~Chapter-2~~ Definitions

Modification: New

**Vapor Retarder, Ground Contact:** Ground contact vapor retarder class shall be defined using the requirements of ASTM E1745, Class A, B, or C-Standard specification for water vapor retarders used in contact with soil or granular fill under concrete slabs.

**Primitive Camp Structure:** Shall include any structure permanent or temporary in nature, used for outdoor camping (transient), open on at least one side with no fully enclosed habitable spaces, less than 400 square feet under roof, and not classified as a residential occupancy due to lack of electrical, plumbing, mechanical and sprinkler systems.

Reason: N/A

Proponent: BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 01	202

Comments: See clerical correction above.

7/27: Approved with clerical correction above.



**2021 International Building Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2018**

**2021 Code Section:** 303.4 Assembly Group A-3

**Modification:** New

Add to the listing of A-3 occupancies the following use: Structures, without a commercial kitchen, used in agritourism activity as defined by S.C. Code Ann. 46-53-10(1).

**Reason:** N/A

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 02	303.4

**Comments:** No changes in 2021 IBC.



## 2021 International Building Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 312.1 General

**Modification:** Added Language

The term “Primitive Camp Structure” is added to the list of examples in this section for Group U.

**Reason:** N/A

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 03	312.1

**Comments:** No changes in 2021 IBC.



# 2021 International Building Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 706.1 General

**Modification:** Add Language.

Fire walls shall be constructed in accordance with Sections 706.2 through 706.11. Each portion of a building separated by one or more firewalls may be considered a separate building. The extent and location of such fire walls shall provide a complete separation. Where a fire wall separates occupancies that are required to be separated by a fire barrier wall, the most restrictive requirements of each separation shall apply.

**Reason:** N/A

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 05	706.1

**Comments:** No changes in 2021 IBC.



## 2021 International Building Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 903.2.9 Group S-1

**Modification:** Added Language to Number 5 only.

An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy where one of the following conditions exists:

1. A Group S-1 fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. A Group S-1 fire area is located more than three stories above grade plane.
3. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).
4. A Group S-1 fire area used for the storage of commercial motor vehicles where the fire area exceeds 5,000 square feet (464 m<sup>2</sup>).
5. A Group S-1 occupancy used for the storage of upholstered furniture or mattresses where the fire area exceeds 2,500 square feet (232 m<sup>2</sup>). This section, when acceptable to the Authority Having Jurisdiction, does not apply to self-storage facilities that are single-story, fire area(s) less than 12,000 square feet (1115 m<sup>2</sup>), and the building is only accessible from exterior entry points and is not provided with interior hallways, spaces or corridors.

**Reason:** N/A

**Proponent:** Charleston Fire Department

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 08	903.2.9

*Continued*





## 2021 International Building Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code:** 903.2.9 Group S-1

**Comments:** Number 5 is deleted in the 2021 code. Modification no longer necessary.

**2018 Code:** 903.2.9 Group S-1

An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy where one of the following conditions exist:

1. A Group S-1 fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. A Group S-1 fire area is located more than three stories above grade plane.
3. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).
4. A Group S-1 fire area used for the storage of commercial motor vehicles where the fire area exceeds 5,000 square feet (464 m<sup>2</sup>).
5. A Group S-1 occupancy used for the storage of upholstered furniture or mattresses exceeds 2,500 square feet (232 m<sup>2</sup>).

An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy where one of the following conditions exist:

1. A Group S-1 fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. A Group S-1 fire area is located more than three stories above grade plane.
3. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).
4. A Group S-1 fire area used for the storage of commercial motor vehicles where the fire area exceeds 5,000 square feet (464 m<sup>2</sup>).

7/27: Drop modification, see reasons above.



## 2021 International Building Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

### 2021 Code Section: 1009.4 Elevators

**Modification:** To add Section 3008 to be included in this section.

1009.4 Now reads:

In order to be considered part of an accessible means of egress, an elevator shall comply with the emergency operation and signaling device requirements of Section 2.27 of ASME A17.1/CSA B44. Standby power shall be provided in accordance with Chapter 27 and Section 3003. The elevators shall be accessed from an area of refuge complying with Section 1009.6. ~~Elevators shall also comply with 3008 Occupant Evacuation Elevators.~~

Exceptions:

1. Areas of refuge are not required at the elevator in open parking garages.
2. Areas of refuge are not required in buildings and facilities equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2
3. Areas of refuge are not required at elevators not required to be located in a shaft in accordance with Section 712.
4. Areas of refuge are not required at elevators serving smoke-protected **or open-air** assembly seating areas complying with Section ~~1029.6.2~~ **1030.6.2 and 1030.6.3.**
5. Areas of refuge are not required for elevators accessed from a refuge area in conjunction with a horizontal exit.

**Reason:** To allow for elevator use in a fire as a means of egress

**Proponent:** England Training LLC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 09	1009.4
IBC 2015	IBC 2015 05	1009.4

**Comments:** A clerical correction was made to the spelling of “accessible”, and the following changes in red were made to the language in the 2018 IBC. The previous modification in 2018 deleted the last sentence of the first paragraph, negating the original modification request. Modification is no longer necessary.

7/27: Modification dropped, see above.



## 2021 International Building Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 1016.2 Egress through intervening spaces

**Modification:** Delete and Add Language. ~~New (Section number changed from 1014.2 to 1016.2 in 2015)~~

Egress through intervening spaces shall comply with this section.

1. Exit access through an enclosed elevator lobby is permitted. Access to not less than one of the required exits shall be provided without travel through the enclosed elevator lobbies required by Section 3006 of the International Building Code. Where the path of exit access travel passes through an enclosed elevator lobby, the level of protection required for the enclosed elevator lobby is not required to be extended to the exit unless direct access to an exit is required by other sections of this code.

2. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy and provide a discernible path of egress travel to an exit.

**Exception:** Means of egress are not prohibited through adjoining or intervening rooms or spaces in a Group H, S, or F occupancy where the adjoining or intervening rooms or spaces are the same or a lesser hazard occupancy group.

3. An exit access shall not pass through a room that can be locked to prevent egress.

4. Means of egress from dwelling units or sleeping areas shall not lead through other sleeping areas, toilet rooms or bathrooms.

**Exception:** Dwelling units or sleeping areas in R-1 and R-2 occupancies shall be permitted to egress through other sleeping areas serving adjoining rooms that are part of the same dwelling unit or guest room.

5. Egress shall not pass through kitchens, storage rooms, closets or spaces used for similar purposes.

**Exceptions:**

1. Means of egress are not prohibited through a kitchen area serving adjoining rooms constituting part of the same dwelling unit or sleeping unit.

2. Means of egress are not prohibited through stockrooms in Group M occupancies where all of the following are met:

2.1 The stock is of the same hazard classification as that found in the main retail area.

2.2 Not more than 50 percent of the exit access is through the stockroom.

2.3 The stockroom is not subject to locking from the egress side.

2.4 There is a demarcated, minimum 44-inch-wide (1118 mm) aisle defined by ~~full or partial height fixed walls~~ a wall not less than 42 inches high or similar construction that will maintain the required width and lead directly from the retail area to the exit without obstructions.

**Reason:** N/A

*Continued*



## 2021 International Building Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 10	1016.2

**Comments:** See clerical corrections above to show modification type and changes. Language was added to number 1 in the 2021 IBC. It is in red below.

**2021 Code:** 1016.2 Egress through intervening spaces.

Egress through intervening spaces shall comply with this section.

1. Exit access through an enclosed elevator lobby is permitted. **Where access to two or more exits or exit access doorways is required in Section 1006.2.1**, access to not less than one of the required exits shall be provided without travel through the enclosed elevator lobbies required by Section 3006. Where the path of exit access travel passes through an enclosed elevator lobby, the level of protection required for the enclosed elevator lobby is not required to be extended to the exit unless direct access to an exit is required by other sections of this code.
2. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy and provide a discernible path of egress travel to an exit.

Exception: Means of egress are not prohibited through adjoining or intervening rooms or spaces in a Group H, S or F occupancy where the adjoining or intervening rooms or spaces are the same or a lesser hazard occupancy group.

3. An exit access shall not pass through a room that can be locked to prevent egress.
4. Means of egress from dwelling units or sleeping areas shall not lead through other sleeping areas, toilet rooms or bathrooms.
5. Egress shall not pass through kitchens, storage rooms, closets or spaces used for similar purposes.
 

Exceptions:

  1. Means of egress are not prohibited through a kitchen area serving adjoining rooms constituting part of the same dwelling unit or sleeping unit.
  2. Means of egress are not prohibited through stockrooms in Group M occupancies where all of the following are met:
    - 2.1. The stock is of the same hazard classification as that found in the main retail area.
    - 2.2. Not more than 50 percent of the exit access is through the stockroom.
    - 2.3. The stockroom is not subject to locking from the egress side.
    - 2.4. There is a demarcated, minimum 44-inch-wide (1118 mm) aisle defined by full- or partial-height fixed walls or similar construction that will maintain the required width and lead directly from the retail area to the exit without obstructions.

**7/27: Approved with added language in red and clerical corrections.**



**2021 International Building Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2018**

**2021 Code Section:** 1803.2 Investigation required

**Modification:** Add Language.

Geotechnical investigations shall be conducted in accordance with Sections 1803.3 through 1803.5.

Exceptions:

1. The building official shall be permitted to waive the requirement for a geotechnical investigation where satisfactory data from adjacent areas is available that demonstrates an investigation is not necessary for any of the conditions in Sections 1803.5.1 through 1803.5.6 and Sections **1803.5.10 and 1803.5.11**.

2. For single story buildings not more than 5,000 sq ft and not more than 30ft in height, a site specification investigation report is not required if the seismic design category is determined by the design professional in accordance with Chapter 20 of ASCE 7.

**Reason:** N/A

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 11	1803.2

**Comments:** See clerical correction above.



## 2021 International Building Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 1907.1 ~~Minimum Slab Provisions General~~

**Modification:** Delete and Add Language.

The thickness of concrete floor slabs supported directly on the ground shall not be less than 3 ½ inches (89mm). A 10-mil (0.010 inch) polyethylene ground contact vapor retarder with joints lapped not less than 6 inches (152 mm) shall be placed between the base course or subgrade and the concrete floor slab, or other approved equivalent methods or materials shall be used to retard vapor transmission through the floor slab.

**Reason:** Bring into compliance with the American Concrete Institute standards.

**Proponent:** Structural Engineers' Association of SC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 12	1907.1

**Comments:** See clerical correction above.



## 2021 International Building Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 2303.2.2 Other means during manufacture

**Modification:** Delete last sentence of 2018 Code.

**Reason:** The language in the '18 code would prevent the use of methods for the treatment of fire retardant treated wood that have been in use since at least 2009. We're not aware of any issues with products that have been tested in accordance with code requirements.

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 13	2303.2.2

**Comments:** No changes in 2021 IBC. ~~The sentence to be removed by modification is struck through below.~~

**2021 Code:** 2303.2.2 Other means during manufacture

For wood products impregnated with chemicals by other means during manufacture, the treatment shall be an integral part of the manufacturing process of the wood product. The treatment shall provide permanent protection to all surfaces of the wood product. ~~The use of paints, coating, stains or other surface treatments is not an approved method of~~



## 2021 International Building Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** Appendix H Signs

**Modification:** Appendix H was adopted for use statewide

**Reason:** To provide minimum requirements for signs for the protection of people and property.

**Proponent:** Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IBC 2018	IBC 2018 14	Appendix H
IBC 2015	IBC 2015 07	Appendix H
IBC 2012	IBC 2012 05	Appendix H

**Comments:** No changes in 2021 IBC.





**2021 International Fire Code  
South Carolina Building Codes Council  
Proposed Modification Continuations from 2018**

**2021 Code Section:** 202 General definitions

**Modification:** Add ~~Language~~ sky lanterns to the definition.

**Recreational Fire:** An outdoor fire burning materials other than rubbish where the fuel being burned is not contained in an incinerator, outdoor fireplace, portable outdoor fireplace, barbeque grill or barbeque pit and has a total fuel area of 3 feet (914 mm) or less in diameter and 2 feet (610 mm) or less in height for pleasure, religious, ceremonial to include sky lanterns, cooking, warmth or similar purpose.

**Reason:** N/A

**Proponent:** South Carolina Fire Marshal’s Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 01	202
IFC 2015	IFC 2015 01	202
IFC 2012	IFC 2012 01	202

**Comments:** No change in 2021 IFC. See clerical corrections above, including underlining the language to be added.

7/27: Approved with clerical correction noted above.



# 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 202 General definitions

**Modification:** Add language.

**Primitive Camp Structure:** Shall include any structure permanent or temporary in nature, used for outdoor camping (transient), open on at least one side with no fully enclosed habitable spaces, less than 400 square feet under roof, and not classified as a residential occupancy due to lack of electrical, plumbing, mechanical, and sprinkler systems.

**Reason:** N/A

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 02	202

**Comments:** No change in 2021 IFC.



**2021 International Fire Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2018**

**2021 Code Section:** 202 General definitions ~~A-3 occupancies~~

**Modification:** Add language to the listing of A-3 occupancies in the General definitions ~~the following use:~~

Structures without a commercial kitchen, used in agritourism activity as defined by S.C. Code Ann. 46-53-10(1).

**Reason:** N/A

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 03	202

**Comments:** See clerical corrections above. No change in 2021 IFC.

+

7/27: Approved with clerical correction noted above.



**2021 International Fire Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2018**

**2021 Code Section:** Table 315.7.6(1) ~~Pile Separation Distances~~ Separation Distance Between Wood Pallet Stacks and Buildings

**Modification:** Delete existing table and use the table below. ~~Add Language~~

~~\*Use this table instead of the table in the 2018 IFC.\*~~

WALL CONSTRUCTION	OPENING TYPE	WOOD PALLET SEPARATION DISTANCT (FEET)		
		Less Than or Equal to 50 Pallets	51 to 200 Pallets	Over 200 Pallets
Masonry	None	2	2	2
Masonry	Fire-rated glazing w/open sprinklers	2	5	20
Masonry	Fire-rated glazing	5	10	20
Masonry	Plain glass w/sprinklers	5	10	20
Noncombustible	None	5	10	20
Wood w/open sprinklers		5	10	20
Wood	None	15	30	90
Any	Plain glazing	15	30	90

**Reason:** N/A

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 04	315.7.6(1)

**Comments:** See clerical corrections above. Table 315.7.6(1) in the 2021 IFC now reflects the values above. Modification no longer needed.

*Continued*



## 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section: Table 315.7.6(1)**

**TABLE 315.7.6(1)  
 SEPARATION DISTANCE BETWEEN WOOD PALLET STACKS AND BUILDINGS**

WALL CONSTRUCTION	OPENING TYPE	WOOD PALLET SEPARATION DISTANCE (feet)		
		≤ 50 Pallets	51 to 200 Pallets	> 200 Pallets
Masonry	None	2	2	2
Masonry	Fire-rated glazing with open sprinklers	2	5	20
Masonry	Fire-rated glazing	5	10	20
Masonry	Plain glass with open sprinklers	5	10	20
Noncombustible	None	5	10	20
Wood with open sprinklers	—	5	10	20
Wood	None	15	30	90
Any	Plain glass	15	30	90

For SI: 1 foot = 304.8 mm.

7/27: Modification dropped, see reasons above.



## 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 503.2.1 Dimensions

**Modification:** Deleted the words “exclusive of shoulders” from text. The section now states: Fire apparatus access roads shall have an unobstructed width of not less than 20 feet (6096 mm), except for approved security gates in accordance with Section 503.6 and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm).

**Reason:** To retain the current means in which fire apparatus access and road dimensions are measured.

**Proponent:** Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 05	503.2.1
IFC 2015	IFC 2015 04	503.2.1
IFC 2012	IFC 2012 04	503.2.1

**Comments:** No changes in the 2021 IFC.



**2021 International Fire Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2018**

**2021 Code Section:** 507.1 Required water supply

**Modification:** ~~Deleted and~~ Added language.

An approved water supply capable of supplying the required fire flow for ~~the~~ fire protection shall be provided to premises ~~upon~~ on which facilities, buildings or portions of buildings are hereafter constructed or moved into ~~the~~ or within the jurisdiction to meet the necessary fire flow as determined by the fire code official. Where public water supply is inadequate or not available, an approved alternative water source meeting the fire flow requirements shall be provided. Fire flow performance tests shall be witnessed by the fire official, or representative, prior to final approval.

**Exception.** One- and two-family dwellings, including attached or detached accessory structures.

**Reason:** N/A

**Proponent:** Charleston Fire Department

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 06	507.1

**Comments:** See clerical corrections above. Removed the underline from the first portion as it's written in the 2018 to indicate added language. "Upon" was changed to "on" from the 2015 to the 2018 IFC with no indication of a modification in the 2018 IFC. No changes in 2021 IFC.

7/27: Approved with clerical corrections noted above.



## 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

### 2021 Code Section: 507.5.1 **Where Required**

**Modification:** Delete ~~(400 ft)~~ (122 m) and Add Language.

~~Where required.~~ Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 500 feet (152m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on site fire hydrants and mains shall be provided where required by the fire code official.

Location. The location and number of hydrants shall be designated by the fire official, but in no case, shall distance between installed fire hydrants exceed 1000 feet (305 m). Fire hydrants shall be located within 500 feet (152 m) of all fire fighter access points when measured along the normal routes of fire department vehicle access which conforms to the requirements of section 503. No point of the exterior of a building shall be located more than 500 feet (152 m) from a hydrant accessible to fire department vehicles as provided in section 503.

Exceptions:

1. For Group R-3 and Group U occupancies, the distance requirements shall be 600 feet (183m).
2. For buildings equipped **throughout** with an **approved** automatic sprinkler system installed in accordance with Section 903.~~13~~.1.1 or 903.3.1.2 the distance requirement shall be 600 feet (183m).

**Reason:** N/A

**Proponent:** Charleston Fire Department

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 07	507.5.1

**Comments:** See clerical corrections above. No changes in 2021 IFC.

7/27: Approved with clerical corrections noted above.





**2021 International Fire Code  
South Carolina Building Codes Council  
Proposed Modification Continuations from 2018**

**2021 Code Section:** 901.6.3 Records

**Modification:** Add Language.

Records of all system inspections, tests and maintenance required by the referenced standards shall be maintained. Copies of the inspection reports shall be sent to the local jurisdiction, by the servicing vendor, as prescribed by the fire code official.

**Reason:** N/A

**Proponent:** Charleston Fire Department

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 08	901.6.3

**Comments:** No change in 2021 IFC.



**2021 International Fire Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2018**

**2021 Code Section:** 903.2.9 Group S-1

**Modification:** Added Language **applies** to Number 5 **only**.

An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy where one of the following conditions exists:

1. A Group S-1 fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. A Group S-1 fire area is located more than three stories above grade plane.
3. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).
4. A Group S-1 fire area used for the storage of commercial motor vehicles where the fire area exceeds 5,000 square feet (464m<sup>2</sup>).
5. A Group S-1 occupancy used for the storage of upholstered furniture or mattresses where the fire area exceeds 2,500 square feet (232 m<sup>2</sup>). This section, when acceptable to the Authority Having Jurisdiction, does not apply to self-storage type facilities that are single story fire areas less than 12,000 square feet, and the building is only accessible from exterior entry points and is not provided with interior hallways, spaces or corridors.

**Reason:** N/A

**Proponent:** City of Charleston

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 09	903.2.9

**Comments:** 2021 IFC removed number 5. No other change to language in 2021 IFC. Modification may not be required.

7/27: Modification dropped.



## 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 1016.2 Egress through intervening spaces

**Modification:** Delete and Add Language.

Egress through intervening spaces shall comply with this section.

1. Exit access through an enclosed elevator lobby is permitted. Access to not less than one of the required exits shall be provided without travel through the enclosed elevator lobbies required by Section 3006 of the International Building Code. Where the path of exit access travel passes through an enclosed elevator lobby, the level of protection required for the enclosed elevator lobby is not required to be extended to the exit unless direct access to an exit is required by other sections of this code.

2. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy and provide a discernible path of egress travel to an exit.

**Exception:** Means of egress are not prohibited through adjoining or intervening rooms or spaces in a Group H, S, or F occupancy where the adjoining or intervening rooms or spaces are the same or a lesser hazard occupancy group.

3. An exit access shall not pass through a room that can be locked to prevent egress.

4. Means of egress from dwelling units or sleeping areas shall not lead through other sleeping areas, toilet rooms or bathrooms.

**Exception:** Dwelling units or sleeping areas in R-1 and R-2 occupancies shall be permitted to egress through other sleeping areas serving adjoining rooms that are part of the same dwelling unit or guest room.

5. Egress shall not pass through kitchens, storage rooms, closets, or spaces used for similar purposes.

**Exceptions:**

1. Means of egress are not prohibited through a kitchen area serving adjoining rooms constituting part of the same dwelling unit or sleeping unit.

2. Means of egress are not prohibited through stockrooms in Group M occupancies where all of the following are met:

2.1 The stock is of the same hazard classification as that found in the main retail area.

2.2 Not more than 50 percent of the exit access is through the stockroom.

2.3 The stockroom is not subject to locking from the egress side.

2.4 There is a demarcated, minimum 44-inch-wide (1118 mm) aisle defined by full or partial-height fixed walls a wall not less than 42 inches high or similar construction that will maintain the required width and lead directly from the retail area to the exit without obstructions.

**Reason:** N/A

**Proponent:** Charleston Fire Department

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 11	1016.2

*Continued*



## 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**Comments:** See clerical corrections above to show modified language. Language was added to number 1 in the 2021 IFC. It is in red below.

**2021 Code:** 1016.2 Egress through intervening spaces.

Egress through intervening spaces shall comply with this section.

1. Exit access through an enclosed elevator lobby is permitted. **Where access to two or more exits or exit access doorways is required in Section 1006.2.1,** access to not less than one of the required exits shall be provided without travel through the enclosed elevator lobbies required by Section 3006. Where the path of exit access travel passes through an enclosed elevator lobby, the level of protection required for the enclosed elevator lobby is not required to be extended to the exit unless direct access to an exit is required by other sections of this code.
2. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy and provide a discernible path of egress travel to an exit.

Exception: Means of egress are not prohibited through adjoining or intervening rooms or spaces in a Group H, S or F occupancy where the adjoining or intervening rooms or spaces are the same or a lesser hazard occupancy group.

3. An exit access shall not pass through a room that can be locked to prevent egress.
4. Means of egress from dwelling units or sleeping areas shall not lead through other sleeping areas, toilet rooms or bathrooms.
5. Egress shall not pass through kitchens, storage rooms, closets or spaces used for similar purposes.
 

Exceptions:

  1. Means of egress are not prohibited through a kitchen area serving adjoining rooms constituting part of the same dwelling unit or sleeping unit.
  2. Means of egress are not prohibited through stockrooms in Group M occupancies where all of the following are met:
    - 2.1. The stock is of the same hazard classification as that found in the main retail area.
    - 2.2. Not more than 50 percent of the exit access is through the stockroom.
    - 2.3. The stockroom is not subject to locking from the egress side.
    - 2.4. There is a demarcated, minimum 44-inch-wide (1118 mm) aisle defined by full- or partial-height fixed walls or similar construction that will maintain the required width and lead directly from the retail area to the exit without obstructions.

7/27: Approved with clerical corrections noted above in red and added 2021 language.



**2021 International Fire Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2018**

**2021 Code Section:** 2307.4 Location of dispensing operations and equipment

**Modification:** Delete numbers 1-6 and Add Language.

The point of transfer for LP-gas dispensing operations shall be separated from buildings and other ~~structures~~ ~~exposures~~ in accordance with NFPA 58 Table 6.7.2.1 and IFC Section 2306.7.

Exception: The point of transfer for LP-gas dispensing operations need not be separated from canopies that are constructed in accordance with the International Building Code and that provide weather protection for the dispensing equipment.

LP-gas containers shall be located in accordance with Chapter 61. LP-gas storage and dispensing equipment shall be located outdoors and in accordance with Section 2306.7.

**Reason:** These changes are made to bring IFC Chapter 23 and NFPA 58 in harmony with respect to distance between point of transfer and exposures. The propane industry has used NFPA 58 as its standard for over 40 years in South Carolina. The modifications made above are in harmony with NFPA 58 Table 6.5.3

**Proponent:** South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 12	2307.4
IFC 2015	IFC 2015 09	2307.4
IFC 2012	IFC 2012 09	2307.4

**Comments:** See clerical corrections above. No change in 2021 IFC.



**2021 International Fire Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2018**

**2021 Code Section:** 2307.7 Public fueling of motor vehicles

**Modification:** ~~Text was Deleted from~~ the first sentence ~~below~~.

~~The first sentence~~, Self-Service LP-gas dispensing systems, including key, code and card lock dispensing systems, shall be limited to the filling of permanently mounted containers providing fuel to the LP-gas powered vehicle. ~~is eliminated~~

**Reason:** To allow portable propane cylinders to be refilled at self service refueling stations.

**Proponent:** South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 13	2307.7
IFC 2015	IFC 2015 11	2307.7
IFC 2012	IFC 2012 11	2307.6

**Comments:** See clerical corrections above. No changes in 2021 IFC.

7/27: Approved with clerical corrections noted above.



## 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 6101.1 Scope

**Modification:** Text was modified.

The section now states:

Storage, handling and transportation of liquefied petroleum gas (LP-gas) and the installation of LP-gas equipment pertinent to systems for such uses shall comply with this chapter and NFPA 58. Properties of LP-gases shall be determined in accordance with Annex B of NFPA 58.

**Reason:** NFPA uses the word annex not appendix. Note: Continued modification IFC 2012 12

**Proponent:** South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 14	6101.1
IFC 2015	IFC 2015 12	6101.1
IFC 2012	IFC 2012 12	6101.1

**Comments:** Modification changes the word "appendix" to "annex". No change in 2021 IFC.

7/27: Approved with clerical corrections noted above.



**2021 International Fire Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2018**

**2021 Code Section:** 6103.2.1.1 Use in basement, pit or similar location

**Modification:** Delete the section **and exception** and substitute with new text.

The section now states:

LP-gas containers complying 6103.2.2 shall be permitted to be used in basements and above grade underfloor spaces provided such location has adequate ventilation for equipment utilization. Equipment with attached cylinders shall not be left unattended or stored in such location after use. LP-gas container storage shall comply with Section 6109.7. Self-contained torch assemblies may be used in accordance with 6103.2.1.6.

**Reason:** To permit the use of LP-gas powered equipment in below grade or underfloor spaces with adequate ventilation.

**Proponent:** South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 15	6103.2.1.1
IFC 2015	IFC 2015 13	6103.2.1.1
IFC 2012	IFC 2012 13	6103.2.1.1

**Comments:** See clerical correction above. The language changed in the 2021 IFC.

**2021 IFC:** 6103.2.1.1 Use in basement, pit, or similar location.

LP-gas containers shall not be used in a basement, pit, above-grade underfloor space or similar location where heavier-than-air gas might collect unless such location is provided with an approved means of ventilation.

Exception: Use with self-contained torch assemblies in accordance with Section 6103.2.1.6.

7/27: Modification dropped.





## 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 6103.2.1.6 Use with self-contained torch assemblies

**Modification:** Increased the capacity of portable LP-gas containers.

The section now states:

Portable LP-gas containers are allowed to be used to supply approved self-contained torch assemblies or similar appliances. Such containers shall not exceed a water capacity of ~~(2.7)~~ pounds (1.2 kg).

**Reason:** To bring IFC Chapter 61 in harmony with NFPA 58

**Proponent:** South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 16	6103.2.1.6
IFC 2015	IFC 2015 14	6103.2.1.6
IFC 2012	IFC 2012 14	6103.2.1.6

**Comments:** See clerical corrections above. Language changed in 2018 IFC to match the modified language and there was no change in the 2021 IFC. Modification is no longer needed.

**2018 IFC:** 6103.2.1.6 Use with self-contained torch assemblies.

Portable LP-gas containers are allowed to be used to supply approved self-contained torch assemblies or similar appliances. Such containers shall not exceed a water capacity of 2.7 pounds (1.2 kg).

7/27: Modification dropped.



# 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 6106.1 Attendants

**Modification:** Added language to require an attendant dispensing LP-gas to be qualified in part by NFPA 58.

The section now states:

Dispensing of LP-gas shall be performed by a qualified attendant that meets the requirements of this section and NFPA 58 Section 4.4.

**Reason:** NFPA 58 Section 4.4 requires documented training every three years

**Proponent:** South Carolina Fire Marshal’s Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 17	6106.1
IFC 2015	IFC 2015 16	6106.1
IFC 2012	IFC 2012 16	6106.1

**Comments:** See clerical correction above. No change in 2021 IFC.



# 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 6107.4 Protecting containers from vehicles

**Modification:** Added an exception.

The new exception states:

**Exception:** An alternative method may be used that meets the intent of this section with the approval of the AHJ.

**Reason:** To allow the AHJ the ability to accept an alternate method of compliance through a variance.

**Proponent:** South Carolina Fire Marshal’s Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 18	6107.4
IFC 2015	IFC 2015 18	6107.4
IFC 2012	IFC 2012 18	6107.4

**Comments:** See clerical correction above. Compliance for protection changed from Section 312 to NFPA 58 from the 2012 IFC to the 2015 IFC. No change in the 2021 IFC.



## 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 6109.13 Protection of containers

**Modification:** Added text to the end of the section.

The section now states:

LP-gas containers shall be stored within a suitable enclosure or otherwise protected against tampering. Vehicle protections shall be required as required by the fire code official in accordance with ~~IFC Section~~ 312 or NFPA 58 8.4.2.2

**Reason:** To provide an alternate method of compliance

**Proponent:** South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 20	6109.13
IFC 2015	IFC 2015 22	6109.13
IFC 2012	IFC 2012 22	6109.13

**Comments:** See clerical correction above. Language changed from the 2012 IFC to the 2015 IFC to make vehicle impact protection compliant with Section 6107.4 instead of the fire code official, and added an exception. No change in language from 2015 to 2021 IFC.

7/27: Approved with clerical correction above.



## 2021 International Fire Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 6110.1 Temporarily out of service

**Modification:** Changed the section heading and modified text.

The section now states:

**Containers not connected for service at customer locations.** LP-gas containers at customers' locations that are not connected for service shall comply with both of the following:

1. Have LP-gas container outlets, except relief valves, closed and plugged or capped.
2. Be positioned with the relief valve in direct communication with the LP-gas container vapor space.

**Reason:** To reflect the original intent of the section.

**Proponent:** South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 21	6110.1
IFC 2015	IFC 2015 23	6110.1
IFC 2012	IFC 2012 23	6110.1

**Comments:** The 2021 IFC changed the header and removed the word "temporary" from the first sentence.

**2021 IFC:** 6110.1 Removed from service.

LP-gas containers whose use has been discontinued shall comply with all of the following:

1. Be disconnected from appliance piping.
2. Have LP-gas container outlets, except relief valves, closed or plugged.
3. Be positioned with the relief valve in direct communication with the LP-gas container vapor space.

7/27: Tabled for meeting on 8/19. Molly will talk to association about possibly adding language with regards to a time frame for LPG Dealers to safely remove tanks that are out of service.



**2021 International Fire Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2018**

**2021 Code Section:** 6111.2.1 Near residential, educational and institutional occupancies and other high-risk areas.

**Modification:** Added a second paragraph to the existing section.

The additional text states:

Separation distance requirements may be reduced to not less than 50 feet as approved by the fire code official, based upon a completed fire safety analysis and consideration of special features such as topographical conditions, capacity of the LP-gas vehicle and the capabilities of the local fire department. The Office of the State Fire Marshal will provide an approved fire safety analysis to be utilized for this specific requirement.

**Reason:** To allow the fire code official to authorize a reduction of the 500 foot requirement.

Note: Continued modification IFC 2012 24.

**Proponent:** South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFC 2018	IFC 2018 22	6111.2.1
IFC 2015	IFC 2015 24	6111.2.1
IFC 2012	IFC 2012 24	6111.2.1

**Comments:** No change in the 2021 IFC.



## 2021 International Fuel Gas Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 401.9 Identification

**Modification:** Deleted the section without substitution.

**Reason:** The section does nothing to protect health, safety or welfare. Some products are not capable of being marked.

**Proponent:** South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFGC 2018	IFGC 2018 01	401.9
IFGC 2015	IFGC 2015 01	401.9
IFGC 2012	IFGC 2012 01	401.9

**Comments:** No changes in the 2021 IFGC.



## 2021 International Fuel Gas Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 401.10 Third-party testing and certification

**Modification:** Deleted and added text concerning third party testing of piping and fittings.

The modified section now states:

All piping, tubing and fittings shall comply with the applicable referenced standards, specifications and performance criteria of this code, including Section 403 of the *South Carolina Fuel Gas Code* and corresponding sections.

**Reason:** The requirement offers little or no protection of health, safety or welfare to the public.

**Proponent:** South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFGC 2018	IFGC 2018 02	401.10
IFGC 2015	IFGC 2015 02	401.10
IFGC 2012	IFGC 2012 02	401.10

**Comments:** No changes in the 2021 IFGC.





# 2021 International Fuel Gas Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 412.4 Listed equipment

**Modification:** Deleted the requirement for listed LP-gas equipment.

The modified section now states:

Hoses, hose connections, vehicle fuel connections, dispensers, LP-gas pumps and electrical equipment used for LP-gas shall comply with the requirements of NFPA 58.

**Reason:** No listed dispenser packages for LP-gas dispensers are available at this time.

**Proponent:** South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFGC 2018	IFGC 2018 03	412.4
IFGC 2015	IFGC 2015 03	412.4
IFGC 2012	IFGC 2012 03	412.4

**Comments:** No changes in the 2021 IFGC.



## 2021 International Fuel Gas Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 412.6 Location

**Modification:** Deleted and added text to the section.

The modified section now states:

In addition to the fuel dispensing requirements of the ~~International~~ **South Carolina** Fire Code, the point of transfer for dispensing operations shall be 25 feet (7620 mm) or more from buildings having combustible exterior wall surfaces, buildings having noncombustible exterior wall surfaces that are not part of a 1-hour fire-resistance-rated assembly or buildings having combustible overhangs, property which could be built on, and railroads; and at least 10 feet (3048 mm) from public streets or sidewalks and buildings having noncombustible exterior wall surfaces that are part of a fire-resistance-rated assembly having a rating of 1 hour or more; and 5 feet from driveways.

Exceptions:

1. The point of transfer for dispensing operations need not be separated from canopies providing weather protection for the dispensing equipment constructed in accordance with the International Building Code. Liquefied petroleum gas containers shall be located in accordance with the International Fire Code.
2. The separation from driveways is not required where the driveway serves the vehicle fuel dispenser.

Liquefied petroleum gas storage and dispensing equipment shall be located outdoors and in accordance with the ~~International~~ **South Carolina** Fire Code.

**Reason:** To bring the IFGC in harmony with NFPA 58 with respect to distance between the point of transfer and exposures.

**Proponent:** South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFGC 2018	IFGC 2018 04	412.6
IFGC 2015	IFGC 2015 04	412.6
IFGC 2012	IFGC 2012 04	412.6

**Comments:** See two typos above. Both were fixed before 2018 SCFGC books went to printing.

7/27: Approved with clerical errors above fixed.



## 2021 International Fuel Gas Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 412.8.3 Vehicle impact protection

**Modification:** Added an exception to the section.

The new exception now states:

**Exception:** An alternative method may be used that meets the intent of this section with the approval of the AHJ.

**Reason:** To allow the AHJ the ability to accept an alternate method of compliance through a variance.

**Proponent:** South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFGC 2018	IFGC 2018 06	412.8.3
IFGC 2015	IFGC 2015 05	412.8.3
IFGC 2012	IFGC 2012 05	412.7.3

**Comments:** No changes in the 2021 IFGC.



## 2021 International Fuel Gas Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 412.10 Private fueling of motor vehicles

**Modification:** Deleted the requirement for a permanently mounted fuel containers.

The modified section now states:

Self-service LP-gas dispensing systems, including key, code and card lock dispensing systems, shall not be open to the public. In addition to the requirements of the South Carolina Fire Code, self-service LP-gas dispensing systems shall be provided with an emergency shutoff switch located within 100 feet (30 480 mm) of, but not less than 20 feet (6096 mm) from, dispensers and the owner of the dispensing facility shall ensure the safe operation of the system and the training of users.

**Reason:** The requirement would prohibit vehicles with removable containers from being refilled at self-service refueling stations.

**Proponent:** South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFGC 2018	IFGC 2018 07	412.10
IFGC 2015	IFGC 2015 06	412.10
IFGC 2012	IFGC 2012 06	412.8

**Comments:** none



## 2021 International Fuel Gas Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** 505.1.1 Commercial cooking appliances vented by exhaust hoods

**Modification:** An exception was added to the section to allow an interlock between cooking appliances and exhaust hood systems as an option when the appliances are of the manually operated type and are factory equipped with standing pilot burner ignition systems.

The modified section states:

Where commercial cooking appliances are vented by means of the Type I or Type II kitchen exhaust hood system that serves such appliances, the exhaust system shall be fan powered and the appliances shall be interlocked with the exhaust hood system to prevent appliance operation when the exhaust hood system is not operating. Where a solenoid valve is installed in the gas piping as part of an interlock system, gas piping shall not be installed to bypass such valve. Dampers shall not be installed in the exhaust system.

**Exception:** An interlock between the cooking appliance and the exhaust hood system shall not be required for appliances that are of the manually operated type and are factory equipped with standing pilot burner ignition systems

**Reason:** Manually operated commercial cooking appliances are in operation only when kitchen staff is present. An inoperative exhaust system, therefore, is apparent to kitchen personnel.

**Proponent:** Piedmont Natural Gas

Previous Code Cycles	Previous Modification Number	Previous Code Section
IFGC 2018	IFGC 2018 08	505.1.1
IFGC 2015	IFGC 2015 07	505.1.1
IFGC 2012	IFGC 2012 07	505.1.1
IFGC 2006	IFGC 2006 01	505.1.1
IFGC 2003	IFGC 2003 02	505.1.1
IFGC 2000	IFGC 2000 02	505.1.1

**Comments:** No change in 2021 IFGC.



## 2020 National Electrical Code South Carolina Building Codes Council Proposed Modification Continuations from 2017

**2020 Code Section:** 90.2(B)(5)b Not Covered

**Modification:** Language was added to the sentence

b. Are located in legally established easements, ~~or~~ rights- of-way, or by other agreements either designated by or recognized by public service commissions, utility commissions, or other regulatory agencies having jurisdiction for such installations, or

**Reason:** To provide a more concise understanding of the additional agreements and rules that govern an electric utility's operations.

**Proponent:** Duke Energy

Previous Code Cycles	Previous Modification Number	Previous Code Section
NEC 2017	NEC 2017 01	90.2(B)(5)b
NEC 2014	NEC 2014 01	90.2(B)(5)b
NEC 2011	NEC 2011 01	90.2(B)(5)b
NEC 2008	NEC 2008 01	90.2(B)(5)b

**Comments:** See clerical correction above to show changes from original request. Language changed from 2008 to 2011 NEC. Letter "d" now contains the language in the modified section. Modification no longer necessary.

**Detailed Changes:**

- Letter "c" became letter "b" and added "energy storage".
- Letter "b" became letters "c" and "d" with modified language above included.

**2008 NEC:** 90.2(B)(5) Not Covered

This Code does not cover the following:

(5) Installations under the exclusive control of an electric utility where such installations

a. Consist of service drops or service laterals, and associated metering, or

b. Are located in legally established easements or rights-of-way designated by or recognized by public service commissions, utility commissions, or other regulatory agencies having jurisdiction for such installations, or

c. Are on property owned or leased by the electric utility for the purpose of communications, metering, generation, control, transformation, transmission, or distribution of electric energy.

*Continued*



**2020 National Electrical Code**  
**South Carolina Building Codes Council**  
**Proposed Modification Continuations from 2017**

**2020 NEC: 90.2(B)(5) Not Covered**

This Code does not cover the following:

(5) Installations under the exclusive control of an electric utility where such installations

- a. Consist of service drops or service laterals, and associated metering, or
- b. Are on property owned or leased by the electric utility for the purpose of communications, metering, generation, control, transformation, transmission, energy storage, or distribution of electric energy, or
- c. Are located in legally established easements or rights-of-way, or
- d. Are located by other written agreements either designated by or recognized by public service commissions, utility commissions, or other regulatory agencies having jurisdiction for such installations. These written agreements shall be limited to installations for the purpose of communications, metering, generation, control, transformation, transmission, energy storage, or distribution of electric energy where legally established easements or rights-of-way cannot be obtained. These installation shall be limited to federal lands, Native American reservations through the U.S. Department of the Interior Bureau of Indian Affairs, military bases, lands controlled by port authorities and state agencies and departments, and lands owned by railroads.

**7/27: Modification dropped, see reasons above.**



**2020 National Electrical Code  
South Carolina Building Codes Council  
Proposed Modification Continuations from 2017**

**2020 Code Section:** 210.12(B)~~(c)~~

**Modification:** (Repealed) Cleanup of SC Regulation Only

**Reason:** N/A

**Proponent:** N/A

Previous Code Cycles	Previous Modification Number	Previous Code Section
NEC 2017	NEC 2017 01	210.12(B) <del>(c)</del>
NEC 2014	NEC 2014 02	210.12(B)
NEC 2011	NEC 2011 02	210.12(B)
NEC 2008	NEC 2008 02	210.12(B)
NEC 2005	NEC 2005 01	210.12(B)

**Comments:** No subsection (c) under (B). Regulation has been fixed. Modification no longer needed.

**(B) Dormitory Units.** All 120-volt, single-phase, 15- and 20-ampere branch circuits supplying outlets and devices installed in dormitory unit bedrooms, living rooms, hallways, closets, bathrooms, and similar rooms shall be protected by any of the means described in 210.12(A)(1) through (6).

7/27: Committee took no action, modification was previously repealed. Remove from list.





## 2021 International Mechanical Code South Carolina Building Codes Council Proposed Modification Continuations from 2018

**2021 Code Section:** ~~504.8.2~~ **504.9.2** Duct Installation

**Modification:** Delete (4ft & 1/8') and Add Language.

Exhaust ducts shall be supported at intervals not to exceed 8 feet and within 16 inches of each side of a joint that is not installed in a vertical orientation, secured in place, making rigid contact with the duct at not less than 4 equally spaced points or 2/3rds contact if strap is used. All brackets and strapping must be noncombustible. The insert end of the duct shall extend into the adjoining duct or fitting in the direction of airflow. The overlap shall comply with Section 603.4.2. Ducts shall not be joined with screws or similar devices that protrude into the inside of the duct. Exhaust ducts shall be sealed in accordance with Section 603.9. Where dryer ducts are enclosed in wall or ceiling cavities, such cavities shall allow the installation without deformation. The duct work may be ovalized as long as it terminates in an approved duct box. Minor imperfections located on the duct, in areas other than along the seam, do not constitute a violation of this section.

**Reason:** N/A

**Proponent:** BOASC

Previous Code Cycles	Previous Modification Number	Previous Code Section
IMC 2018	IMC 2018 01	504.8.2

**Comments:** No language change, but code section changed in 2021.

7/27: Approved with section change.