

## 2006 INTERNATIONAL RESIDENTIAL CODE

<b>Number</b>	<b>Section</b>	<b>New / Continued</b>
IRC 2006 01	R202	Continued (IRC 2003 01)
IRC 2006 02	Figure R301.2(2)	Continued (IRC 2003 02)
IRC 2006 03	R301, R403, R404, R602, R606, R611, R703 & R1003	Continued (IRC 2003 03)
IRC 2006 04	R301.2.2	Continued (IRC 2003 04)
IRC 2006 05	R305.1(4)	New
IRC 2006 06	R307.2	Continued (IRC 2003 05)
IRC 2006 07	R308.4(5)	New
IRC 2006 08	R311.5.3.1 & R311.5.3.2	Continued (IRC 2003 07)
IRC 2006 09	R311.5.6.1	Continued (IRC 2003 08)
IRC 2006 10	R318	New
IRC 2006 11	R319.1.1	New
IRC 2006 12	R319.3	New
IRC 2006 13	R402.2	Continued (IRC 2003 09)
IRC 2006 14	R403.1.7, R403.1.7.1, R403.1.7.2, R403.1.7.3, R403.1.7.4 & Figure R403.1.7.1	Continued (IRC 2003 12)
IRC 2006 15	R403.1.8	Continued (IRC 2003 13)
IRC 2006 16	R404.1	New
IRC 2006 17	Figure 404.1.5(1)	Continued (IRC 2003 14)
IRC 2006 18	R408.2	New
IRC 2006 19	R408.4 (R408.3 IRC 2003)	Continued (IRC 2003 15)
IRC 2006 20	Table R502.5(1)	Continued (IRC 2003 16)
IRC 2006 21	R502.11.4	Continued (IRC 2003 17)
IRC 2006 22	R602.10.5	New
IRC 2006 23	R602.10.5	Continued (IRC 2003 18)
IRC 2006 24	R613.2	New
IRC 2006 25	R703.7.2, R703.7.2.1 & R703.7.2.2	Continued (IRC 2003 19)
IRC 2006 26	R802.10.1	Continued (IRC 2003 20)
IRC 2006 27	Chapter 11	Continued (IRC 2003 21)
IRC 2006 28	M1411.5 (M1411.4 IRC 2003)	Continued (IRC 2003 22)
IRC 2006 29	M1502.2	New
IRC 2006 30	M1502.6	New
IRC 2006 31	E3801.11 HVAC	New
IRC 2006 32	E3802.12	New

**SOUTH CAROLINA MODIFICATIONS  
TO THE 2006 EDITION OF THE  
INTERNATIONAL RESIDENTIAL CODE**

As authorized by Section 6-9-40 of the South Carolina Code of Laws, 1976 as amended, the South Carolina Building Codes Council has approved the following modifications to the 2006 edition of the International Residential Code (IRC). Approved modifications under Section 6-9-40 are mandatory for all local jurisdictions and must be incorporated into the International Residential Code.

The modifications are arranged by the affected IRC section numbers in ascending order. Modifications continued from a prior building code cycle were renumbered to coincide with the 2006 building code cycle numbering, and are distinguished by a note and reference to their prior modification numbers.

**Modification Number:** IRC 2006 01.

**Section:** R202 Definitions.

**Modification:** The definition of the word "Story" was expanded to include language, to allow single and two family residences to be built in accordance with the International Residential Code when there are three habitable stories above a usable story, which is not habitable but exists for the purpose of raising the house above the flood plain.

The definition now reads: "Story - That portion of a building included between the upper surface of a floor and the upper surface of the floor or roof next above. For the purpose of determining the appropriate code to be used, when the first story is built in the flood plain, a 'Story' must be 'Habitable Space. "

**Reason:** To allow single and two family dwellings to be built to the residential code when there are three habitable stories above a usable story, which is not habitable, but exists for the purpose of raising the house above the flood plain.

**Note:** Continued modification IRC 2003 01.

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

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 02.

**Figure:** R301.2(2) Seismic Design Categories – Site Class D.

**Modification:** The seismic design map was replaced with a later version of the same map. The later version of the map includes a new seismic zone designated as D<sub>0</sub> (D sub zero).

**Reason:** The Building Codes Council determined that since the latest map is conclusive and available now, it should be used.

**Note:** Continued modification IRC 2003 02.

**Proponent:** Home Builders Association of Greater Columbia.

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 03.

**Sections:** R301 Design criteria, R403 Footings, R404 Foundation walls, R602 Wood wall framing, R606 General masonry construction, R611 Insulating concrete form wall construction, R703 Exterior covering and R1003 Masonry fireplaces.

**Modification:** All affected sections were revised to incorporate the design provisions for the new Seismic Design Category D<sub>0</sub> (D sub zero).

**Reason:** To establish the design criteria for the new D<sub>0</sub> seismic zone created by modification IRC 2003 02.

**Note:** Continued modification IRC 2003 03.

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

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 04.

**Section:** R301.2.2 Seismic provisions.

**Modification:** A moratorium was placed on enforcement of the  $D_0$  (D sub zero) seismic design requirements for those areas in South Carolina designated as  $D_0$ , until adoption of the 2006 International Residential Code. The requirements for the Seismic Design Category C will be in effect for those areas in South Carolina designated as  $D_0$ .

**Reason:** To delay enforcement pending final approval of the seismic design requirements for the area designated as  $D_0$ .

**Note:** Continued modification IRC 2003 04.

**Proponent:** Home Builders Association of Greater Columbia.

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 05.

**Section:** R305.1(4) Minimum height.

**Modification:** Additional language was added to the section.

The modified section now reads: "Bathrooms shall have a minimum ceiling height of 6 feet 8 inches (2036 mm) measured from the front of the fixture and at the front clearance area for fixtures as shown in Figure R307.1."

**Reason:** The original code language would prevent a half bath or powder room from being installed under a stairway, which is common practice in South Carolina.

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

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 06.

**Figure:** R307.2 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.

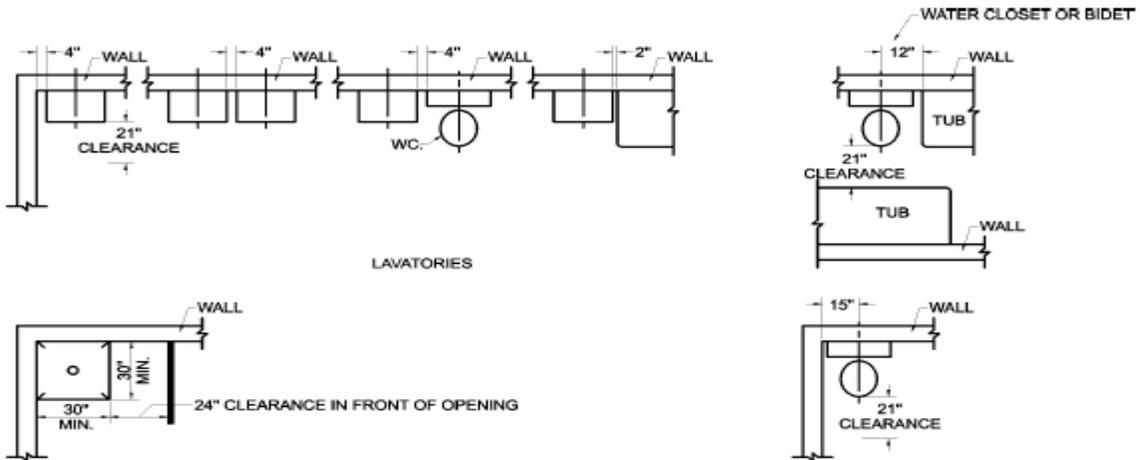


FIGURE 307.2  
MINIMUM FIXTURE CLEARANCES

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

**Note:** Continued modification IRC 2003 05.

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

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 07.

**Section:** R308.4(5) Hazardous locations.

**Modification:** Language was deleted from the second sentence to eliminate the application of the section to “any part of a building wall.”

The modified section now reads: “Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface.”

**Reason:** To clarify that the section only applies to those portions of a bathroom wall that is in direct contact with the compartment or fixture.

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

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 08.

**Sections:** R311.5.3.1 Riser height and R311.5.3.2 Tread depth.

**Modification:** Deleted and replaced with substitute language.

The section now reads: "When risers are closed, all treads may have a uniform projection not to exceed 1 ½ inches. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch. The greatest tread run within any flight of stairs shall not exceed the smallest by more than 3/8 inch. Stairways shall not be less than 3 feet in clear width, and the headroom, rise and run shall conform to Figure R-213.1. Handrails may project from each side of a stairway a distance of 3 ½ inches into the required width."

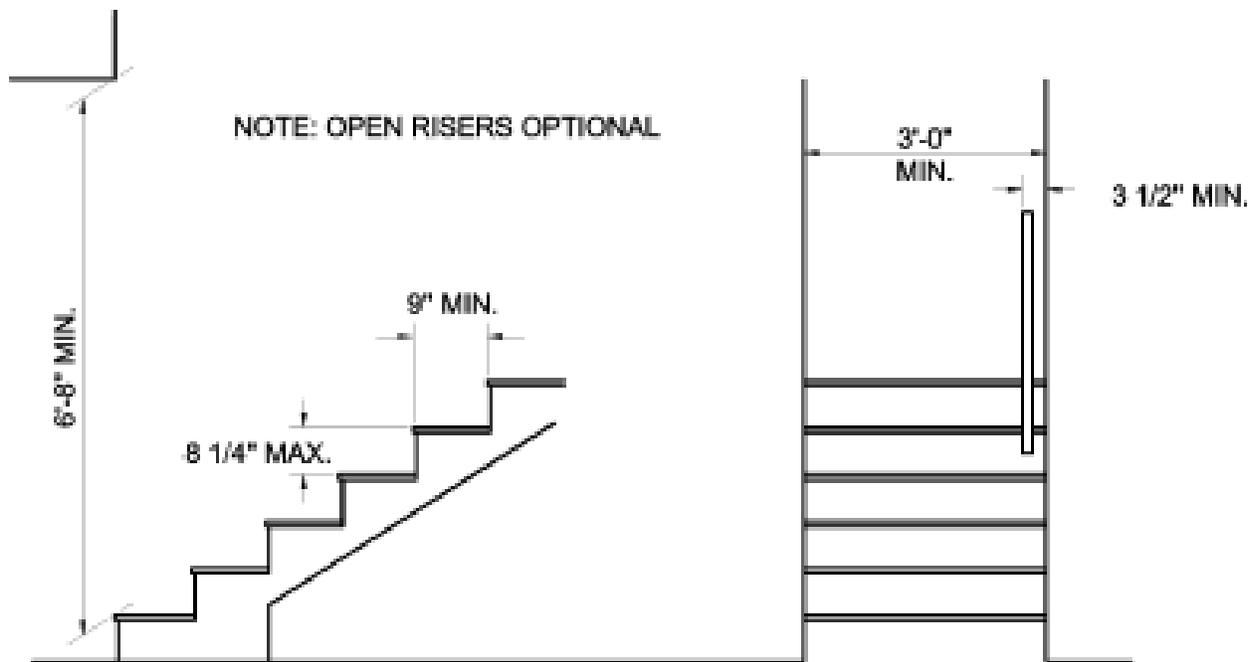


FIGURE NO. R-213.1  
STAIRWAYS

**Reason:** To allow more logical and flexible design criteria for the stairways.

**Note:** Continued modification IRC 2003 07.

**Proponent:** Home Builders Association of Greater Columbia.

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 09.

**Section:** R311.5.6.1 Height.

**Modification:** The minimum height for handrails for stairs and ramps was reduced from 34 inches to 30 inches.

The modified section now reads: "Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finished surface of ramp slope, shall be not less than 30 inches and not more than 38 inches (965 mm)."

**Reason:** To be consistent with prior editions of the code and prior construction practices in South Carolina.

**Note:** Continued modification IRC 2003 08.

**Proponent:** Home Builders Association of Greater Spartanburg.

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 10.

**Section:** R318 Moisture Vapor Retarders.

**Modification:** Deleted without substitution.

**Reason:** Since Chapter 11 of the IRC is not currently adopted in South Carolina, where it is indicated as not requiring moisture vapor retarders, deletion of the section will clarify the intent of the code.

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

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 11.

**Section:** R319.1.1 Field treatment.

**Modification:** Deleted without substitution.

**Reason:** Applying preservative chemicals in the field could be a safety hazard; not all producers of pressure treated lumber require bored holes and cut ends of lumber to be field treated; bores and cuts are difficult to inspect.

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

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 12.

**Section:** R319.3 Fasteners.

**Modification:** Language was modified in the first and second sentences and a new Table was included.

The modified language now reads: "Fasteners for pressure preservative and fire-retardant-treated wood shall be in accordance with Table R319.3. The coating weights for zinc coated fasteners shall be in accordance with the minimum requirements of ASTM A 153."

**\*Table R319.3 – Acceptable Fasteners per Chemicals used in Pressure-Preservatively Treated Wood**

<b>**Chemical</b>	<b>Fasteners</b>
Borate (disodium octaborate tetrahydrate "DOT")	Carbon steel, galvanized steel, stainless steel copper and silicon bronze
ACQ (copper combined with a quaternary ammonium compound "QUAT")	hot-dipped galvanized, stainless steel, and triple coated zinc polymer
Wolman E (copper combined with the organic fungicide tebuconazole)	hot-dipped galvanized, stainless steel, and triple coated zinc polymer

\* All data is based on research conducted by ICC Evaluation Services, Inc. and National Evaluation Services, Inc.

\*\* If the chemical is not listed above, the fastener used in pressure-preservatively treated wood is subject to approval from the building official

**Reason:** The current list of fasteners in the code does not recognize all of the fasteners that can be used with borate-treated lumber.

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

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2003 13.

**Table:** R402.2 Minimum specified compressive strength of concrete.

**Modification:** Language was deleted from the last line of the first column to eliminate the requirement for air-entrained concrete for garage floor slabs.

The modified table now reads: "Porches, carport slabs and steps exposed to the weather"

**Reason:** Air-entrained concrete is required for exterior surfaces that are exposed to water and have the potential for freezing. The requirement for air-entrained concrete for garage floors was determined to be unnecessary in all areas in South Carolina.

**Note:** Continued modification IRC 2003 09.

**Proponent:** Home Builders Association of Greater Columbia.

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 14.

**Sections:** R403.1.7 Footings on or adjacent to slopes, R402.1.7.1 Building clearances from ascending slopes, R403.1.7.2 Footing setback from descending slope surfaces, R403.1.7.3 Foundation elevation, R403.1.7.4 Alternate setback and clearances and Figure R403.1.7.1 Foundation clearance from slopes.

**Modification:** Deleted without substitution.

**Reason:** The sections referenced establish limitations for sites with varying topography that may be more appropriate in local zoning ordinances.

**Note:** Continued modification IRC 2003 12.

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

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 15.

**Section:** R403.1.8 Foundations on expansive soils.

**Modification:** Deleted without substitution.

**Reason:** The section would increase seismic standards in areas of the state where lower standards would be adequate.

**Note:** Continued modification IRC 2000 09 and IRC 2003 13.

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

**Effective Date:** July 1, 2002.

**Modification Number:** IRC 2006 16.

**Section:** R404.1 Concrete and masonry foundation walls.

**Modification:** Deleted Tables R404.1(1), R404.1(2) and R404.1(3) and the second paragraph, starting with the words "Foundation walls that meet all of the following," and including all five subsections without substitution.

**Reason:** Past IRC requirements have a proven track record of safe and durable construction with no history of failure. The language added to the section in the 2006 edition was based on theoretical assumption and is not necessary.

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

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 17.

**Figure:** 404.1.5(1).

**Modification:** Deleted without substitution.

**Reason:** The text of Section 404.1.5 does not make reference to Figure 404.1.5(1) and the construction methods between the two are not consistent. The result will be inconsistent enforcement at the local level.

**Note:** Continued modification IRC 2000 03 and IRC 2003 14.

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

**Effective Date:** July 1, 2002.

**Modification Number:** IRC 2006 18.

**Section:** R408.2 Openings for under-floor ventilation.

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

The exception reads “Exception: The total area of ventilation openings may be reduced to 1/1500 of the under-floor area where the ground surface is treated with an approved vapor retarder material and the required openings are placed so as to provide cross-ventilation of the space. The installation of operable louvers shall not be prohibited.”

**Reason:** To allow a reasonable alternative for under-floor ventilation.

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

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 19.

**Section:** R408.4. Access.

**Modification:** Deleted and replaced with substitute language.

The section now reads: “Access. An Access crawl hole 18 inches by 24 inches (457 mm by 610 mm) shall be provided to the under-floor space.”

**Reason:** To remove the reference to Section M1305.1.4.

**Note:** Continued modification IRC 2000 16 and IRC 2003 15. In the 2006 edition the section number was changed from R408.3 to R408.4.

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

**Effective Date:** July 1, 2002.

**Modification Number:** IRC 2006 20.

**Table:** R502.5(1) Girder Spans and Header Spans for Exterior Bearing Walls.

**Modification:** An additional table identified as Table R502.5(1)(A) was included with the existing table.

**Reason:** To allow for the use of standard lumber as an alternative to engineered wood for the fabrication of headers over 6 feet in length.

**Note:** Continued modification IRC 2003 16. The Alternate Table was updated to coincide with the 2006 code.

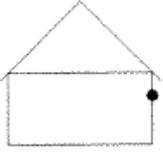
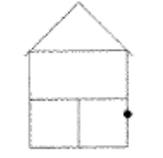
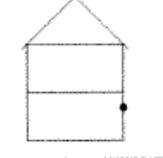
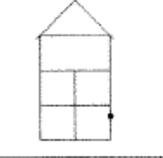
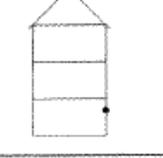
**Proponent:** Home Builders Association of Greater Spartanburg.

**Effective Date:** July 1, 2005.

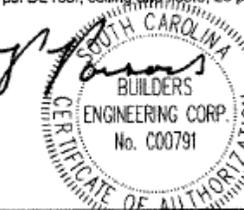
ALTERNATE TABLE R502.5(1)

**Alternative to IRC Table R502.5(1)**

**Number of Jack Studs and Maximum Spans for No. 2 SYP Girders and Headers in Exterior Bearing Walls with 10 psf Ground Snow Load**

Headers Supporting	Size	Building Width (feet)							
		12		20		28		36	
		Span	NJ	Span	NJ	Span	NJ	Span	NJ
 Roof and ceiling	2-2x4	5-2	1	4-2	1	3-7	1	3-2	1
	2-2x6	7-6	1	6-0	1	5-1	1	4-7	1
	2-2x8	9-8	1	7-8	1	6-7	1	5-10	1
	2-2x10	11-7	1	9-2	1	7-10	1	7-0	1
	2-2x12	13-7	1	10-9	1	9-3	1	8-2	1
	3-2x8	12-8	1	10-2	1	8-8	1	7-8	1
	3-2x10	15-2	1	12-1	1	10-4	1	9-2	2
	3-2x12	17-9	1	14-2	1	12-2	2	10-9	2
	4-2x8	14-8	1	11-8	1	10-0	1	8-10	2
	4-2x10	17-7	1	14-0	1	12-0	2	10-8	2
	4-2x12	20-6	1	16-4	2	14-0	2	12-6	2
	 Roof, ceiling and one center-bearing floor	2-2x4	---	---	3-3	1	2-9	1	2-6
2-2x6		---	---	4-9	1	4-1	1	3-7	1
2-2x8		---	---	6-2	1	5-3	1	4-8	1
2-2x10		---	---	7-4	1	6-3	1	5-7	1
2-2x12		---	---	8-7	1	7-4	2	6-6	2
3-2x8		---	---	8-1	1	6-10	1	6-1	2
3-2x10		---	---	9-8	1	8-4	2	7-3	2
3-2x12		---	---	11-3	2	9-8	2	8-7	2
4-2x8		---	---	9-4	1	8-0	2	7-1	2
4-2x10		---	---	11-2	2	9-6	2	8-4	2
4-2x12		---	---	13-1	2	11-2	2	9-10	2
 Roof, ceiling and one clear span floor		2-2x4	3-7	1	2-10	1	2-4	1	2-1
	2-2x6	5-2	1	4-1	1	3-6	1	3-1	1
	2-2x8	6-8	1	5-3	1	4-6	1	4-0	1
	2-2x10	8-0	1	6-3	1	5-4	2	4-8	2
	2-2x12	9-4	1	7-4	2	6-3	2	5-7	2
	3-2x8	8-9	1	6-10	1	5-10	2	5-2	2
	3-2x10	10-7	1	8-3	2	7-1	2	6-2	2
	3-2x12	12-4	2	9-8	2	8-3	2	7-3	2
	4-2x8	10-2	1	8-0	2	6-9	2	6-0	2
	4-2x10	12-2	2	9-7	2	8-1	2	7-2	2
	4-2x12	14-3	2	11-2	2	9-6	2	8-4	3
	 Roof, ceiling and two center-bearing floors	2-2x4	---	---	2-10	1	2-4	1	2-1
2-2x6		---	---	4-1	1	3-6	1	3-1	1
2-2x8		---	---	5-4	1	4-6	1	4-0	1
2-2x10		---	---	6-3	1	5-4	2	4-8	2
2-2x12		---	---	7-4	2	6-3	2	5-7	2
3-2x8		---	---	6-10	1	5-10	2	5-2	2
3-2x10		---	---	8-3	2	7-1	2	6-2	2
3-2x12		---	---	9-8	2	8-3	2	7-3	2
4-2x8		---	---	8-0	2	6-9	2	6-0	2
4-2x10		---	---	9-7	2	8-1	2	7-2	2
4-2x12		---	---	11-2	2	9-6	2	8-4	3
 Roof, ceiling and two clear span floors		2-2x4	2-10	1	2-3	1	2-0	1	1-8
	2-2x6	4-2	1	3-3	1	2-9	1	2-6	1
	2-2x8	5-6	1	4-3	1	3-7	2	3-2	2
	2-2x10	6-6	1	5-1	2	4-3	2	3-9	2
	2-2x12	7-7	1	6-0	2	5-1	2	4-6	2
	3-2x8	7-2	1	5-7	2	4-9	2	4-2	2
	3-2x10	8-7	2	6-8	2	5-8	2	5-0	2
	3-2x12	10-0	2	7-9	2	6-8	2	5-10	3
	4-2x8	8-3	2	6-6	2	5-6	2	4-10	2
	4-2x10	9-10	2	7-8	2	6-7	2	5-9	3
	4-2x12	11-7	2	9-1	2	7-8	3	6-9	3

Building width is measured outside to outside and perpendicular to the ridge. For width between those shown, spans are permitted to be interpolated. Table assumes 1 1/2' roof overhang, 10 psf DL roof, ceiling and floors, 20 psf LL roof (construction load) and 40 psf LL floors.

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**Modification Number:** IRC 2006 21.

**Section:** R502.11.4 Truss design drawings.

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

The modified section now reads: "Truss design drawings, prepared in compliance with Section R502.11.1, shall be provided to the building official at the time of 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:"

**Reason:** The section was modified to allow the approval of roof 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. The truss design drawings will be required to be provided with the shipment of trusses and be available on the construction site for review by an inspector before installation.

**Note:** Continued modification IRC 2003 17.

**Proponent:** Home Builders Association of Greater Columbia.

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 22.

**Section:** R602.10.5 Continuous wood structural panel sheathing.

**Modification:** Language was modified in the first sentence.

The modified language now reads: “When continuous wood structural panel sheathing is provided in accordance with Method 3 of R602.10.3 on all sheathable areas of a braced wall line including areas above and below openings, braced wall panel lengths shall be in accordance with Table R602.10.5. Wood structural panel sheathing shall be installed at corners in accordance with Figure R602.10.5. The bracing amounts in Table R602.10.1 for Method 3 shall be permitted to be multiplied by a factor of 0.9 for walls with a maximum opening height that does not exceed 85 percent of the wall height or a factor of 0.8 for walls with a maximum opening height that does not exceed 67 percent of the wall height.

**Reason:** To clarify that not all walls of a building need to be fully sheathed when just one or more wall lines is fully sheathed with wood structural panels and to clarify that other bracing methods can be used on other braced wall lines; to allow the use of other approved bracing methods on other portions of a building.

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

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 23.

**Section:** R602.10.5 Continuous wood structural panel sheathing.

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

The exception now reads: Exception: Vertical wall segments in the first of one or first of two story buildings next to garage openings shall be permitted to have a 6:1 height-to-width ratio (with height being measured from top of header to sill plate) when constructed in accordance with the following provisions. Each panel shall have a length of not less than 16 inches (406 mm) and a height of not more than 10 feet (3048 mm). Each panel shall be sheathed on one face with a single layer of 3/8-inch minimum-thickness (9.5 mm) wood structural panel sheathing nailed with 8d common or galvanized box nails in accordance with Figure R602.10.5(2). The wood structural panel sheathing shall extend up over the solid sawn or glued-laminated header and shall be nailed in accordance with Figure R602.10.5(2). The header shall extend between the inside faces of the first full-length outer studs of each panel. The clear span of the header between the inner studs of each panel shall be not less than six feet (1829 mm) and not more than 18 feet (5486 mm) in length. A strap with an uplift capacity of not less than 1000 pounds (454 kg) shall fasten the header to the side of the inner studs opposite the sheathing. Two anchor bolts shall be installed in accordance with Section R403.1.6, and flat washers shall be a minimum of 2 inches by 2 inches by 3/16 inch (51 mm by 51 mm by 4.8 mm) thick and shall be used on each bolt. This exception is only permitted in Seismic Design Categories A-C.”

**Reason:** To provide an alternative bracing method for use adjacent to garage door openings.

**Note:** Continued modification IRC 2003 18.

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

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 24.

**Section:** R613.2 Window sill height.

**Modification:** Deleted without substitution.

**Reason:** There is no sound technical information to substantiate a greater degree of protection from window falls for small children by raising the window sill height to 24 inches.

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

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 25.

**Sections:** R703.7.2, R703.7.2.1 and R703.7.2.2.

**Modification:** Deleted without substitution.

**Reason:** A basis could not be established for the maximum roof pitch of 7:12, when the roof supports veneer.

**Note:** Continued modification IRC 2000 10 and IRC 2003 19.

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

**Effective Date:** July 1, 2002.

**Modification Number:** IRC 2006 26.

**Section:** R802.10.1 Truss design drawings.

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

The modified section now reads: Truss design drawings, prepared in compliance with Section R802.10.1, shall be provided to the building official at the time of 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.

**Reason:** The section was modified to allow the approval of roof 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. The truss design drawings will be required to be provided with the shipment of trusses and be available on the construction site for review by an inspector before installation.

**Note:** Continued modification IRC 2003 20.

**Proponent:** Home Builders Association of Greater Columbia.

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 27.

**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.

**Note:** Continued modification IRC 2003 21.

**Proponent:** Home Builders Association of Greater Columbia.

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 28.

**Section:** M1411.5 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 modified section now reads: "Piping and fittings for refrigerant vapor (suction) lines shall be insulated with insulation have 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 perms [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.

**Note:** Continued modification IRC 2003 22. In the 2006 edition the section number was changed from M1411.4 to M1411.5.

**Proponent:** Home Builders Association of Greater Columbia.

**Effective Date:** July 1, 2005.

**Modification Number:** IRC 2006 29.

**Section:** M1502.2 Duct termination.

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

The modified section now reads: "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.

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 30.

**Section:** M1502.6 Duct length.

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

The modified section now reads: "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.

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 31.

**Section:** E3801.11 HVAC outlet.

**Modification:** Language was added in the first sentence to establish that the required convenience receptacle is to be installed when HVAC and refrigeration equipment is located in an attic or crawl space.

The modified section now reads: “A 125-volt, single-phase, 15 or 20 ampere-rated receptacle outlet shall be installed at an accessible location for the servicing of heating, air-conditioning and refrigeration equipment located in attics and crawl spaces. The receptacle shall be located on the same level and within 25 feet (7620 mm) of the heating, air-conditioning and refrigeration equipment. The receptacle outlet shall not be connected to the load side of the HVAC equipment disconnecting means.”

**Reason:** The purpose for the convenience receptacle is to provide a technician with power in an attic or crawl space where receptacles are not typically available.

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

**Effective Date:** July 1, 2008.

**Modification Number:** IRC 2006 32.

**Section:** E3802.12 Arc-fault protection

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

The exception reads “Exception: Arc-fault circuit interrupter protection is not required for outlets used solely for smoke and/or fire detection devices.”

**Reason:** The purpose for the convenience receptacle is to provide a technician with power in an attic or crawl space where receptacles are not typically available.

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

**Effective Date:** July 1, 2008.