

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (Posted: 06-06-2012)
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Effective use of the International Residential Code

Chapter 11 [RE] Energy Efficiency. The purpose of Chapter 11 [RE] is to provide minimum design requirements That will promote efficient utilization of energy in buildings. The requirements are directed toward the design of building envelopes with adequate thermal resistance and low air leakage, and toward the design and selection of mechanical, water heating, electrical and illumination systems that promote effective use of depletable energy resources. The provisions of Chapter 11 [RE] are duplicated from the International Energy Conservation Code – Residential Provisions, as applicable for buildings which fall under the scope of the IRC.
(Rest of the information remains the same)

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (Posted: 06-06-2012)
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CHAPTER 11[RE] ENERGY EFFICIENCY463

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(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (Posted: 06-06-2012)
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CHAPTER 1 SCOPE AND ADMINISTRATION

R102.4.1 ~~Differences~~ Conflicts. Where ~~differences~~ conflicts occur between provisions of this code and referenced codes and standards, the provisions of this code shall apply.

2012 International Residential Code and Commentary Errata

(Only errata to Commentary are shown-see International Residential Code Errata for Code Errata)

(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (Posted: 9-26-13)

CHAPTER 2 DEFINITIONS

R202, ATTIC.

The unfinished space.....of the top story and the roof assembly. ~~Such a space would be the top story, rather than the attic, if it is finished and occupiable.~~

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (March 27, 2012)
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CHAPTER 2 DEFINITIONS

WIND-BORNE DEBRIS REGION. Areas within hurricane-prone regions as designated in accordance with Figure
~~R302.1(4)C~~ R301.2(4)C.

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st through 5th PRINTING (04-15-2014)

CHAPTER 3 BUILDING PLANNING

Figure R301.2(5) GROUND SNOW LOADS, P_g , FOR THE UNITED STATES (lb/ft^2)

NOTES ADDED



For SI: 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa, 1 mile = 1.61 km.

- a. In CS areas, site-specific Case Studies are required to establish ground snow loads. Extreme local variations in ground snow loads in these areas preclude mapping at this scale.
- b. Numbers in parentheses represent the upper elevation limits in feet for the ground snow load values presented below. Site-specific case studies are required to establish ground snow loads at elevations not covered.

2012 International Residential Code and Commentary Errata

(Only errata to Commentary are shown-see International Residential Code Errata for Code Errata)

(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (Posted: 9-26-13)

CHAPTER 3 BUILDING PLANNING

R302.2 Townhouses. 2nd paragraph and beginning of the 3rd:

Because of the difficulties involved in construction and the potential for unnecessary duplication, the exception offers an alternative to the two separate 1-hour walls by permitting the construction of a shared or “common” **21**-hour-rated wall between the townhouses.

See Commentary Figure R302.2 for an illustration of the two separate 1-hour walls and the common **21**-hour wall. This

....

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(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (Posted: October 8, 2012)

TABLE R301.5 MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (In pounds per square foot)

e. See Section ~~R502.2.2~~ R507.1 for decks attached to exterior walls.

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (September 26, 2012)

CHAPTER 3 BUILDING PLANNING

R301.2.2.2.5, Item 7

7. When stories above grade plane partially or completely braced by wood wall framing in accordance with Section R603 or steel wall framing in accordance with Section R603 include masonry or concrete construction. When this irregularity applies, the entire story shall be designed in accordance with accepted engineering practice

Exception: Fireplaces, chimneys and masonry veneer as permitted by this code. ~~When this irregularity applies, the entire story shall be designed in accordance with accepted engineering practice~~

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1st and 2nd PRINTING (Posted: 06-06-2012)

TABLE R301.2.2.1.1

TABLE R301.2.2.1.1
SEISMIC DESIGN CATEGORY DETERMINATION

CALCULATED S_{DS}	SEISMIC DESIGN CATEGORY
$S_{DS} \leq 0.17g$	A
$0.17g < S_{DS} \leq 0.33g$	B
$0.33g < S_{DS} \leq 0.50g$	C
$0.50g < S_{DS} \leq 0.67g$	D ₀
$0.67g < S_{DS} \leq 0.83g$	D ₁
$0.83g < S_{DS} \leq 1.17g$ 1.25g	D ₂
1.17g 1.25g $< S_{DS}$	E

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1st and 2nd PRINTING (Posted: 06-06-2012)

CHAPTER 3 BUILDING PLANNING

TABLE R301.2.2.1.1

TABLE R303.2.2.1.1
SEISMIC DESIGN CATEGORY DETERMINATION

CALCULATED S_{DS}	SEISMIC DESIGN CATEGORY
$0.83g < S_{DS} \leq 1.25g$	D ₂
$1.25g < S_{DS}$	E

Portions of the table not shown remain unchanged

(Portions of text and tables not shown are unaffected by the errata)

CHAPTER 3

BUILDING PLANNING

Explanation

%g

125	E
83	D ₂
67	D ₁
50	D ₃
33	C
17	B
0	A

REFERENCES

Building Seismic Safety Council (BSSC). 2009. NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures. FEMA/P395/2009 Edition. Federal Emergency Management Agency, Washington, DC.

Huang, Yin-Nay, Whittaker, A.S., and Lantz, Nicolas. 1988. Maximum spectral demands for the near fault region. *Earthquake Spectra*, Vol. 4, No. 1, pp. 101-118.

Lane, Nicholas, Rengaswami, R.K., Rinaldis, D.C., Jorgensen, J.G., Krawinkel, H.K., and Glickson, C.A. 2007. Risk Targeted versus Current Seismic Design Maps for the Conterminous United States. Structural Engineering Association of California. 2007 Conference Proceedings, pp. 153-175.

Wernicke, Robert L., Shultz, Oliver S., Mueller, Charles L., Bode, Charles G., Puchelt, Arthur D., Dismore, Mark D. 2007. Revision of time independent probability seismic hazard maps for Alaska. U.S. Geological Survey Open-File Report 2007-144.

Map prepared by U.S. Geological Survey in collaboration with the Federal Emergency Management Agency (FEMA) National Building Science Safety Council and USGS/CRS Research Support Committee (CRSC).

FIGURE R301.2(2)
SEISMIC DESIGN CATEGORIES—SITE CLASS D
(continued)

Map prepared by U.S. Geological Survey in collaboration with the Federal Emergency Management Agency (FEMA) Insured Building Seismic Safety Council's (IBSSC) Code Resource Support Committee (CRSC).

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(Portions of text and tables not shown are unaffected by the errata)

FIGURE R301.2(2)

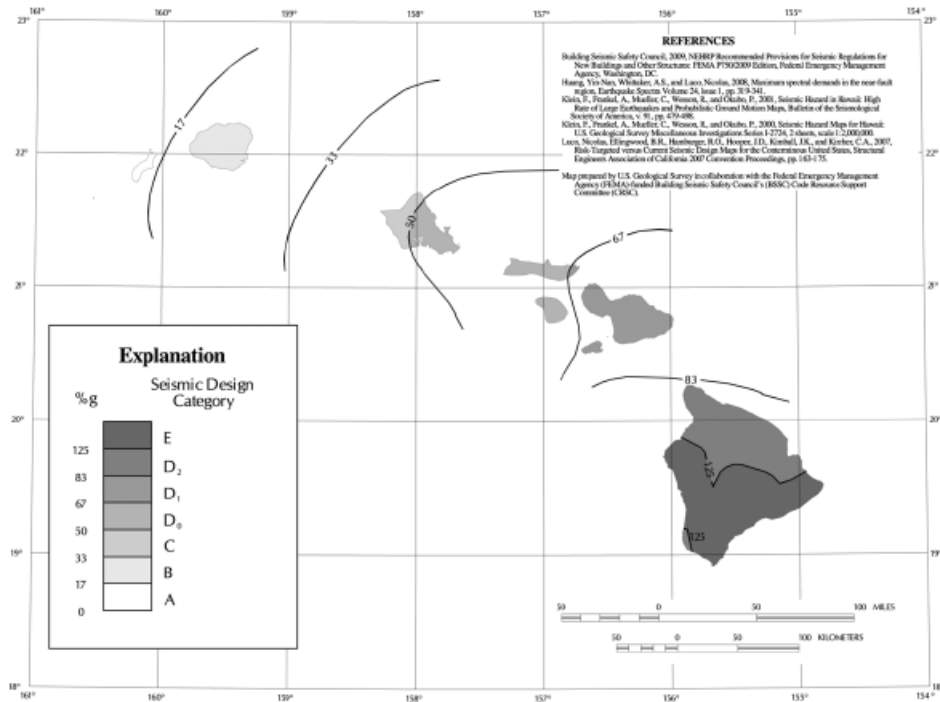


FIGURE R301.2(2)—continued
SEISMIC DESIGN CATEGORIES—SITE CLASS D

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FIGURE R301.2(2)

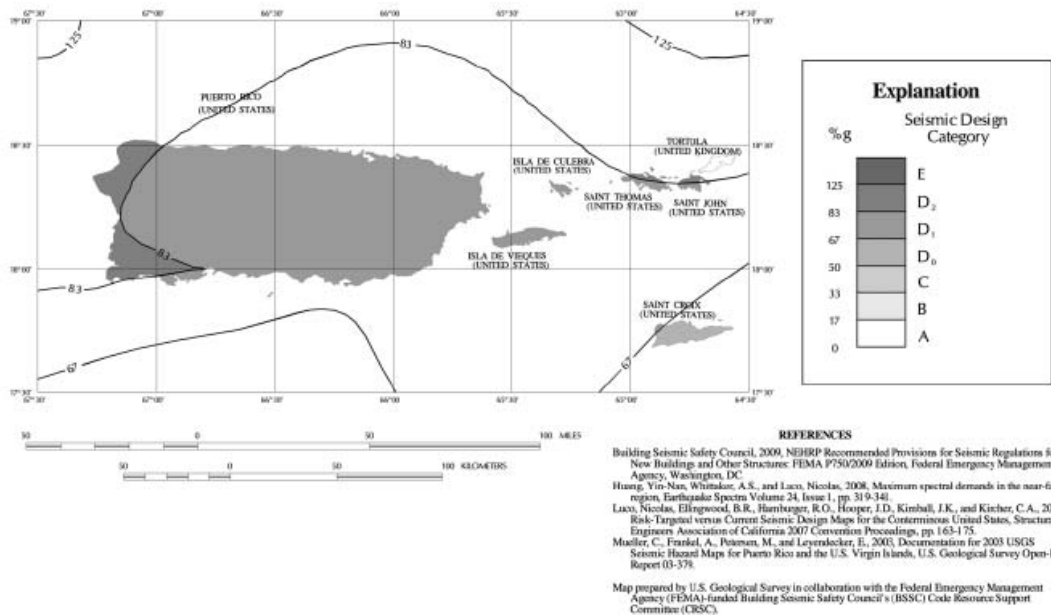


FIGURE R301.2(2)—continued
SEISMIC DESIGN CATEGORIES—SITE CLASS D

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FIGURE R301.2(2)

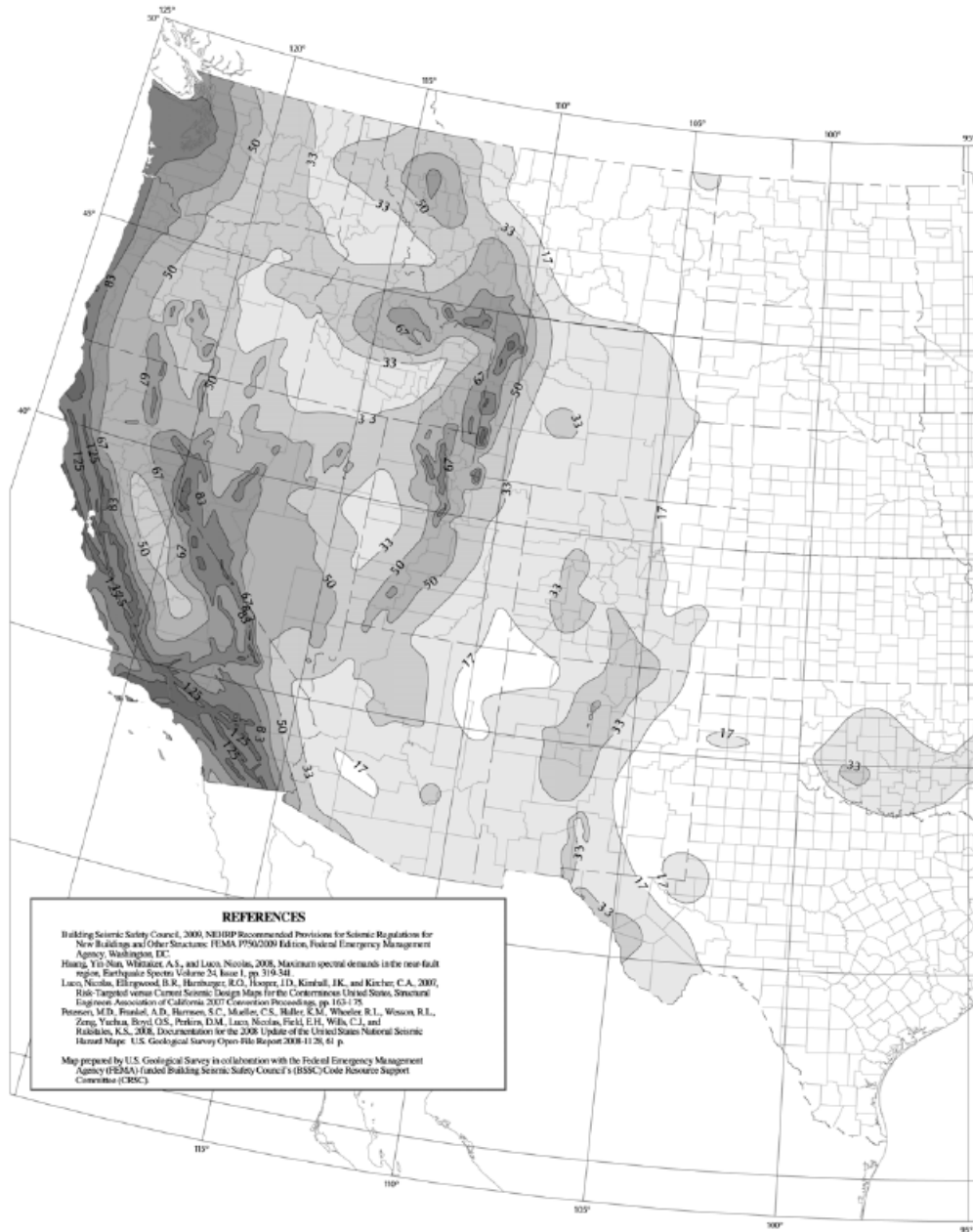


FIGURE R301.2(2)—continued
SEISMIC DESIGN CATEGORIES—SITE CLASS D

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FIGURE R301.2(2)

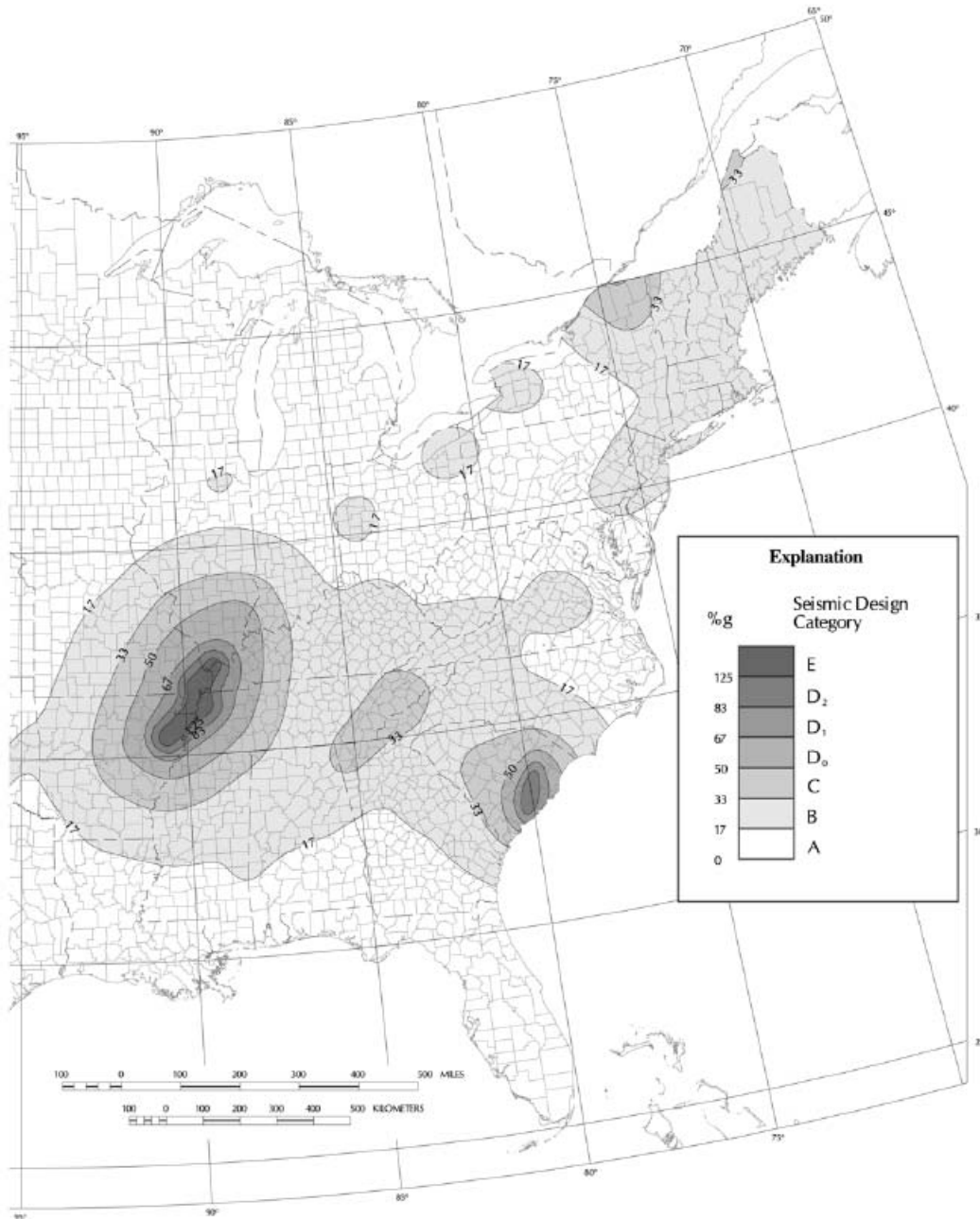
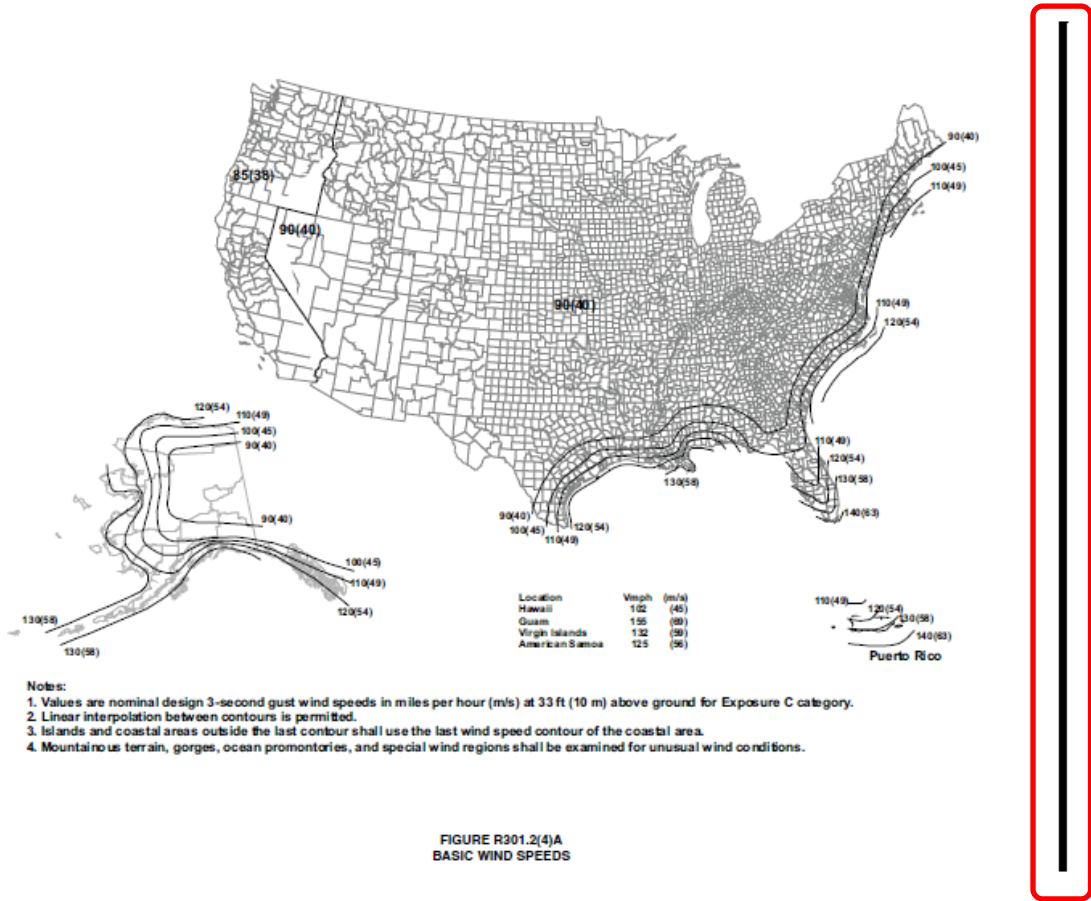


FIGURE R301.2(2)—continued
SEISMIC DESIGN CATEGORIES—SITE CLASS D

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FIGURE R301.2(4)A



(Portions of text and tables not shown are unaffected by the errata)

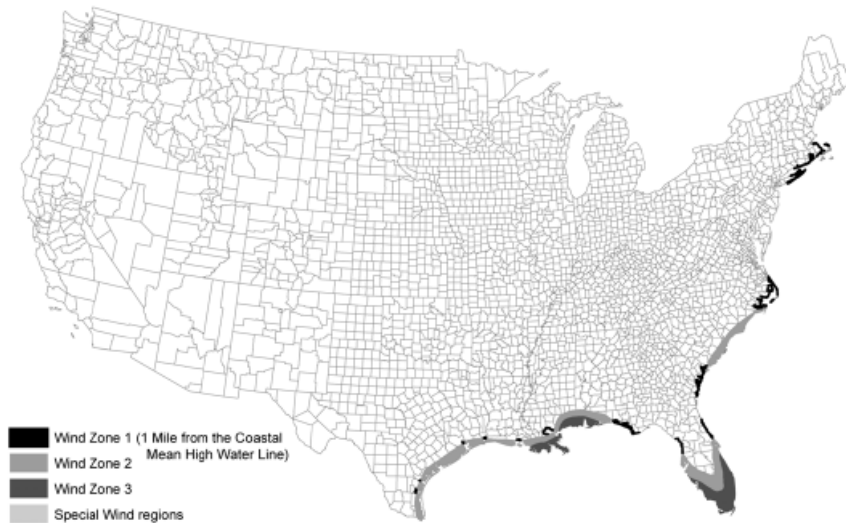
[illegible]

FIGURE R301.2(4)B
REGIONS WHERE WIND DESIGN IS REQUIRED

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(Portions of text and tables not shown are unaffected by the errata)

FIGURE R301.2(4)C



Note:

Wind Zone 3 applies for:

Guam

Virgin Islands

American Samoa

Puerto Rico

Note: Wind Zone 3 applies in Wind Zone 2 areas that are within a mile of the Coastal Mean High Water Line.

Note: Wind Zone 1 applies in Hawaii - Special Wind Regions.

FIGURE R301.2(4)C
WIND-BORNE DEBRIS REGIONS



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(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (Posted: 11-29-2011)

CHAPTER 3 BUILDING PLANNING

Figure R301.2(5) corrections as follows:

1. At the center of the State of North Dakota, the ground snow load shown as 36 should read 35.
2. At the State of Pennsylvania, the elevation shown as 700 (2 places) should read 1700.

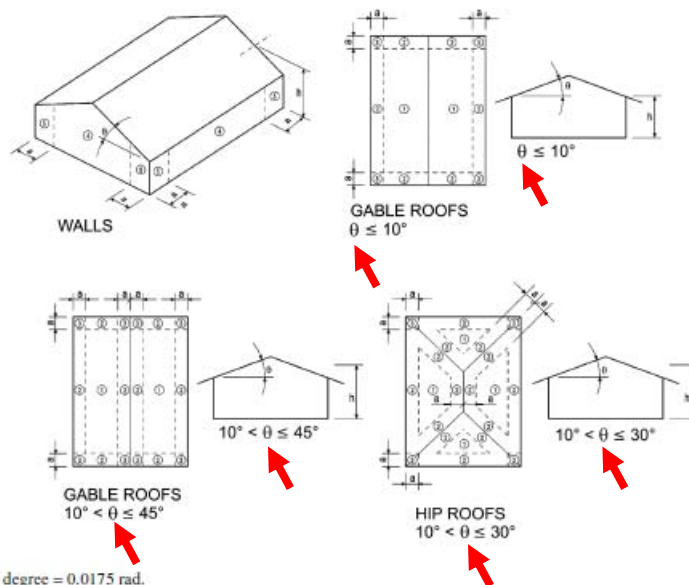
2012 International Residential Code Errata

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1st PRINTING (March 27, 2012)

CHAPTER 3 BUILDING PLANNING

FIGURE R301.2(7)



For SI: 1 foot = 304.8 mm, 1 degree = 0.0175 rad.
Note: a = 4 feet in all cases.

FIGURE R301.2(7)
COMPONENT AND CLADDING PRESSURE ZONES

R301.2.2.1.1 Alternate determination of seismic design category. The Seismic Design Categories and corresponding Short Period Design Spectral Response Accelerations, *SDS* shown in Figure R301.2(2) are based on soil Site Class D, as defined in Section 4613.5-2 1613.3.2 of the *International Building Code*. If soil conditions are other than Site Class D, the Short Period Design Spectral Response Accelerations, *SDS*, for a site can be determined according to Section 4613.5 1613.3 of the *International Building Code*. The value of *SDS* determined according to Section 4613.5 1613.3 of the *International Building Code* is permitted to be used to set the seismic design category according to Table R301.2.2.1.1, and to interpolate between values in Tables R602.10.1.2(2) R602.10.1.3(3) , R603.9.2(1) and other seismic design requirements of this code.

R310.3 Bulkhead enclosures. Bulkhead enclosures shall provide direct access to the *basement*. The bulkhead enclosure with the door panels in the fully open position shall provide the minimum net clear opening required by Section R310.1.1. Bulkhead enclosures shall also comply with Section R311.7.8-2 R311.7.10.2.

R311.7.1 Width. Stairways shall not be less than 36 inches (914 mm) in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than 4.5 inches (114 mm) on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than 31 1/2 inches (787 mm) where a handrail is installed on one side and 27 inches (698 mm) where handrails are provided on both sides.

Exception: The width of spiral stairways shall be in accordance with Section R311.7.9.4 R311.7.10.1 .

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(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (Posted: 12-05-2011)

CHAPTER 3

R322.2.3 Foundation design and construction. Foundation walls for all buildings and structures erected in flood hazard areas shall meet the requirements of Chapter 4.

Exception: Unless designed in accordance with Section R404:

1. The unsupported height of 6-inch (152 mm) plain masonry walls shall be no more than 3 feet (914 mm).
2. The unsupported height of 8-inch (203 mm) plain masonry walls shall be no more than 4 feet (1219 mm).
3. The unsupported height of 8-inch (203 mm) reinforced masonry walls shall be no more than 8 feet (2438 mm).

For the purpose of this exception, unsupported height is the distance from the finished *grade* of the under-floor space to the top of the wall.

R322.3.2 Elevation requirements.

1. All buildings and structures erected within coastal high-hazard areas shall be elevated so that the lowest portion of all structural members supporting the lowest floor, with the exception of piling, pile caps, columns, grade beams and bracing, is:



ALIGNMENT

1.1. Located at or above the design flood elevation, if the lowest horizontal structural member is oriented parallel to the direction of wave approach, where parallel shall mean less than or equal to 20 degrees (0.35 rad) from the direction of approach, or



ALIGNMENT

1.2. Located at the base flood elevation plus 1 foot (305 mm), or the design flood elevation, whichever is higher, if the lowest horizontal structural member is oriented perpendicular to the direction of wave approach, where perpendicular shall mean greater than 20 degrees (0.35 rad) from the direction of approach.

2. Basement floors that are below *grade* on all sides are prohibited.

3. The use of fill for structural support is prohibited.

4. Minor grading, and the placement of minor quantities of fill, shall be permitted for landscaping and for drainage purposes under and around buildings and for support of parking slabs, pool decks, patios and walkways.

Exception: Walls and partitions enclosing areas below the design flood elevation shall meet the requirements of Sections R322.3.4 and R322.3.5.

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st through 3rd PRINTING (Posted: 4-27-13)

CHAPTER 4 FOUNDATIONS

R408.3 Unvented crawl space. R408.3 Unvented crawl space. Ventilation openings in under-floor spaces specified in [Sections](#) R408.1 and R408.2 shall not be required where:

1. Exposed earth is 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 at least 6 inches (152 mm) up the stem wall and shall be attached and sealed to the stem wall or insulation; and
2. One of the following is provided for the under-floor space:
 - 2.1. Continuously operated mechanical exhaust ventilation at a rate equal to 1 cubic foot per minute (0.47 L/s) for each 50 square feet (4.7m²) of crawlspace floor area, including an air pathway to the common area (such as a duct or transfer grille), and perimeter walls insulated in accordance with Section ~~N1103.2.1~~ N1102.2.10 of this code;
 - 2.2. *Conditioned air* supply sized to deliver at a rate equal to 1 cubic foot per minute (0.47 L/s) for each 50 square feet (4.7 m²) of under-floor area, including a return air pathway to the common area (such as a duct or transfer grille), and perimeter walls insulated in accordance with Section ~~N1102.2~~ N1102.2.10 of this code;
 - 2.3. Plenum in existing structures complying with Section M1601.5, if under-floor space is used as a plenum.

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (12-04-2012)

CHAPTER 4 FOUNDATIONS

TABLE R403.4

		TABLE R403.4 MINIMUM DEPTH OF CRUSHED STONE FOOTINGS (D), (Inches)															
		LOAD BEARING VALUE OF SOIL (psf)															
		1500				2000				3000				4000			
		MH, CH, CL, ML				SC, GC, SM, GM, SP, SW				GP, GW							
		Wall width (inches)				Wall width (inches)				Wall width (inches)				Wall width (inches)			
		6	8	10	12	6	8	10	12	6	8	10	12	6	8	10	12
		Conventional light-frame construction															
1-story	1100 plf	6	4	4	4	6	4	4	4	6	4	4	4	6	4	4	4
2-story	1800 plf	8	6	4	4	6	4	4	4	6	4	4	4	6	4	4	4
3-story	2900 plf	16	14	12	10	10	8	6	6	6	4	4	4	6	4	4	4
		4-inch brick veneer over light-frame or 8-inch hollow concrete masonry															
1-story	1500 plf	6	4	4	4	6	4	4	4	6	4	4	4	6	4	4	4
2-story	2700 plf	14	12	10	8	10	8	6	4	6	4	4	4	6	4	4	4
3-story	4000 plf	22	22	20	18	16	14	12	10	10	8	6	4	6	4	4	4
		8-inch solid or fully grouted masonry															
1-story	2000 plf	10	8	6	4	6	4	4	4	6	4	4	4	6	4	4	4
2-story	3600 plf	20	18	16	16	14	12	10	8	8	6	4	4	6	4	4	4
3-story	5300 plf	32	30	28	26	22	22	20	18	14	12	10	8	10	8	6	4

For SI: 1 inch = 25.4 mm, 1 pound per square inch = 6.89 kPa.

1 plf = 14.6 N/m 1 pounds per square foot = 47.9 N/m²

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(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (Posted: 06-06-2012)

CHAPTER 4 FOUNDATIONS

Table R403.3(2)

TABLE R403.3(2)---continued
AIR-FREEZING INDEX FOR U.S. LOCATIONS BY COUNTY

STATE	AIR-FREEZING INDEX					
	1500 or less	2000	2500	3000	3500	4000
Virginia	All counties	--	--	--	--	--
Utah	All counties not listed	Box Elder, Morgan, Weber	Garfield, Salt Lake, Summit	Carbon, Daggett, Duchesne, Rich, Sanpete, Uintah, Wasatch	--	--
Washington	All counties not listed	Chelan, Douglas, Ferry, Okanogan	--	--	--	--
West Virginia	All counties	--	--	--	--	--

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (Posted: 06-06-2012)

CHAPTER 5 FLOORS

TABLE 507.2.1

TABLE 507.2.1
PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS

MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS				
	TOPE EDGE	BOTTOM EDGE	ENDS	ROW SPACING
Ledger ^a	2 inches ^d	1 1/4 3/4 inch	2 inches ^b	1 5/8 inches ^b
Band Joist ^c	3/4 inch	2 inches	2 inches ^b	1 5/8 inches ^b

Footnotes remain unchanged.

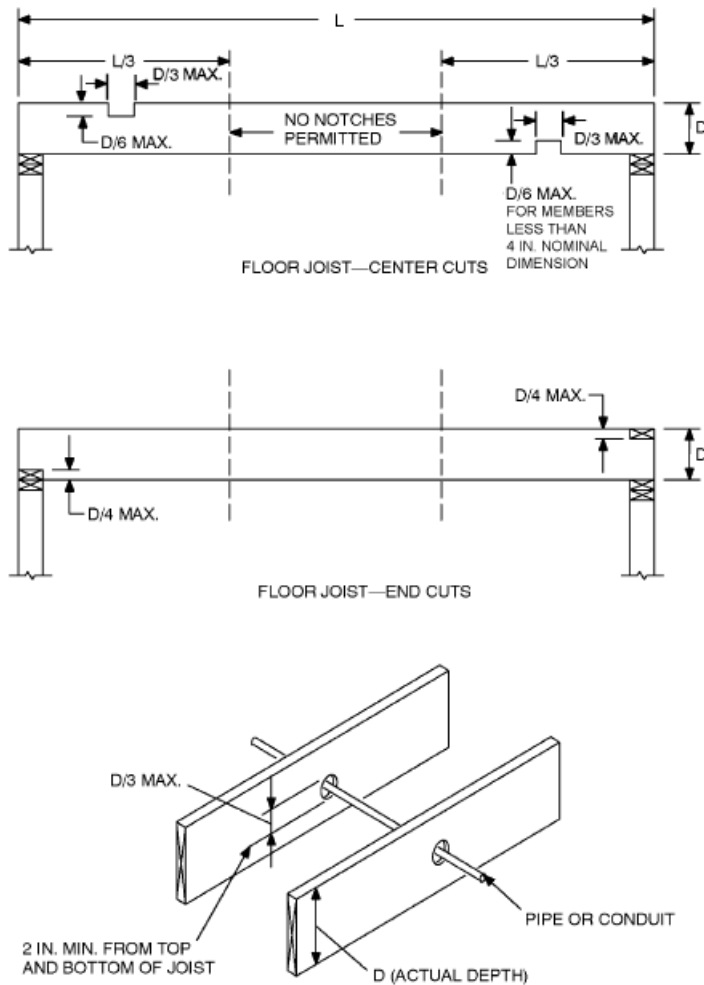
2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (March 27, 2012)

CHAPTER 5 FLOORS

FIGURE R502.8



1/8" = 25.4 mm.

FIGURE R502.8
CUTTING, NOTCHING AND DRILLING





2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st through 6th PRINTING (April 15, 2014)

CHAPTER 6 WALLS

TABLE R602.3(5)
SIZE, HEIGHT AND SPACING OF WOOD STUDS^a

STUD SIZE (inches)	BEARING WALLS					NONBEARING WALLS	
	Laterally unsupported stud height ^a (feet)	Maximum spacing when supporting a roof-ceiling assembly or a habitable attic assembly, only (inches)	Maximum spacing when supporting one floor, plus a roof- ceiling assembly or a habitable attic assembly (inches)	Maximum spacing when supporting two floors, plus a roof- ceiling assembly or a habitable attic assembly (inches)	Maximum spacing when supporting one floor height ^a (inches)	Laterally unsupported stud height ^a (feet)	Maximum spacing (inches)
							
2 x 3 ^b	—	—	—	—	—	10	16













2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st through 4th PRINTING (Posted 11-07-13)

CHAPTER 6 WALL CONSTRUCTION

TABLE R603.3.1
WALL TO FOUNDATION OR FLOOR CONNECTION REQUIREMENTS^{a,b}

FRAMING CONDITION	WIND SPEED (MPH) AND EXPOSURE					
	85 B	90 B	100 B 85 C	110 B 90 C	100 C	< 110 C
Wall bottom track to floor per Figure R603.3.1(1)	1-No. 8 screw at 12" o.c.	1-No. 8 screw at 12" o.c.	1-No. 8 screw at 12" o.c.	1-No. 8 screw at 12" o.c.	2-No. 8 screws at 12" o.c.	2 No. 8 screws at 12" o.c.
Wall bottom track to foundation per Figure R603.3.1(2) ^d	 1/2" minimum diameter anchor bolt at 6' o.c.	 1/2" minimum diameter anchor bolt at 6' o.c.	 1/2" minimum diameter anchor bolt at 4' o.c.	 1/2" minimum diameter anchor bolt at 4' o.c.	 1/2" minimum diameter anchor bolt at 4' o.c.	 1/2" minimum diameter anchor bolt at 4' o.c.
Wall bottom track to wood sill per Figure R603.3.1(3)	 Steel plate spaced at 4' o.c., with 4-No. 8 screws and 4-10d or 6-8d common nails	 Steel plate spaced at 4' o.c., with 4-No. 8 screws and 4-10d or 6-8d common nails	 Steel plate spaced at 3' o.c., with 4-No. 8 screws and 4-10d or 6-8d common nails	 Steel plate spaced at 3' o.c., with 4-No. 8 screws and 4-10d or 6-8d common nails	 Steel plate spaced at 2' o.c., with 4-No. 8 screws and 4-10d or 6-8d common nails	 Steel plate spaced at 2' o.c., with 4-No. 8 screws and 4-10d or 6-8d common nails
Wind uplift connector strength to 16" stud spacing ^c	NR	NR	NR	NR	NR	65 lb per foot of wall length
Wind uplift connector strength for 24" stud spacing ^c	NR	NR	NR	NR	NR	100 lb per foot of wall length

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (October 3, 2012)

CHAPTER 6 WALL CONSTRUCTION

R602.20.9 Braced wall panel support.

2. ~~Elevated~~ Raised floor system post or pier foundations....

TABLE R611.7(1C)

TABLE R611.7(1C)
UNREDUCED LENGTH, *U_R*, OF SOLID WALL REQUIRED IN EACH
EXTERIOR SIDEWALL FOR WIND PARALLEL TO RIDGE^{a, c, d, e, f, g}

SIDEWALL LENGTH (feet)	ENDWALL LENGTH (feet)	ROOF SLOPE	UNREDUCED LENGTH, <i>U_R</i> , OF SOLID WALL REQUIRED IN SIDEWALLS FOR WIND PARALLEL TO RIDGE (feet)							
			Basic Wind Speed (mph) Exposure							
			85B	90B	100B	110B	120B	130B	Minimum ^b	
					85C	90C	100C	110C		
						85D	90D	100D		
			One story or top story of two story							

TABLE R611.7(1C)—continued
UNREDUCED LENGTH, *U_R*, OF SOLID WALL REQUIRED IN EACH
EXTERIOR SIDEWALL FOR WIND PARALLEL TO RIDGE^{a, c, d, e, f, g}

SIDEWALL LENGTH (feet)	ENDWALL LENGTH (feet)	ROOF SLOPE	UNREDUCED LENGTH, <i>U_R</i> , OF SOLID WALL REQUIRED IN SIDEWALLS FOR WIND PARALLEL TO RIDGE (feet)						
			Basic Wind Speed (mph) Exposure						
			85B	90B	100B	110B	120B	130B	Minimum ^b
					85C	90C	100C	110C	
						85D	90D	100D	
			First story of two story						
		≤ 1:12	2.65	2.97	3.67	4.44	5.28	6.20	2.52

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1 st and 2 nd PRINTING (Posted: 06-06-2012)

CHAPTER 6 WALL CONSTRUCTION

R602.10.2.2.1 Location of braced wall panels in Seismic Design Categories D0, D1 and D2. *Braced wall panels* shall be located at each end of a *braced wall line*.

Exception: *Braced wall panels* constructed of Methods WSP or BV-WSP and continuous sheathing methods as specified in Section R602.10.4 shall be permitted to begin no more than 10 feet (3048 mm) from each end of a *braced wall line* provided each end complies with one of the following.

1. A minimum 24 inch wide (610 mm) panel for Methods WSP, ~~BV-WSP~~, CS-WSP, CS-G, CS-PF and 32 inch (813 mm) wide panel for Method CS-SFB is applied to each side of the building corner as shown in Condition 4 of Figure R602.10.7.

Remainder of exceptions remain unchanged.

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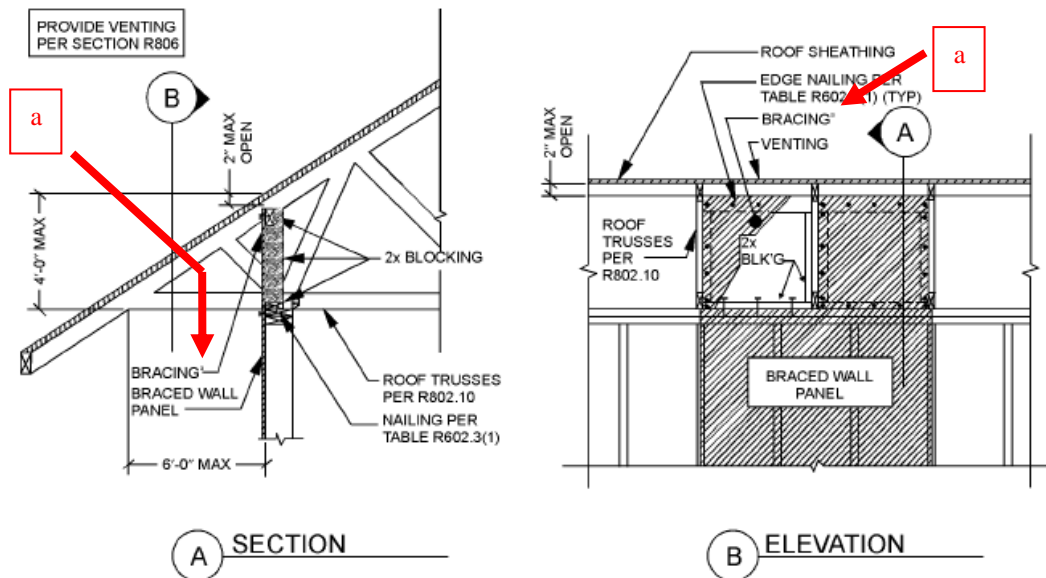
CHAPTER 6 WALL CONSTRUCTION

TABLE R602.3(1)

TABLE R602.3(1)—continued
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER ^{b,c,e}	SPACING OF FASTENERS	
			Edges (inches) ^f	Intermediate supports ^{a,g} (inches)
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing				
32	$\frac{3}{8}$ " - $\frac{1}{2}$ "	6d common (2" × 0.113") nail (subfloor wall) ^j 8d common (2½" × 0.131") nail (roof) ^f	6	12 ^g
33	$\frac{19}{32}$ " - 1"	8d common nail (2½" × 0.131")	6	12 ^g
34	1½" - 1¾"	10d common (3" × 0.148") nail or 8d (2½" × 0.131") deformed nail	6	12
Other wall sheathing ^b				
35	½" structural cellulosic fiberboard sheathing	1½" galvanized roofing nail, ⅞" crown or 1" crown staple 16 ga., 1¼" long	3	6
36	$\frac{25}{32}$ " structural cellulosic fiberboard sheathing	1¾" galvanized roofing nail, ⅞" crown or 1" crown staple 16 ga., 1½" long	3	6

FIGURE R602.10.8.2(3)



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

a. Methods of bracing shall be as described in Section R602.10.4.

FIGURE R602.10.8.2(3)
BRACED WALL PANEL CONNECTION OPTION TO PERPENDICULAR RAFTERS OR ROOF TRUSSES


2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (Posted: 01-12-2012)

CHAPTER 6 WALL CONSTRUCTION

TABLE R602.10.3(2)
WIND ADJUSTMENT FACTORS TO THE REQUIRED LENGTH OF WALL BRACING

ADJUSTMENT BASED ON	STORY/SUPPORTIN G	CONDITION	ADJUSTMENT FACTOR ^{a,b}	APPLICABLE METHODS
Number of braced wall lines (per plan direction) ^c	Any story	 2 3 4 ≥ 5	1.00 1.30 1.45 1.60	All methods

Portions of table not shown remain unchanged




2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (Posted: October 6, 2011)

CHAPTER 6 WALL CONSTRUCTION

TABLE R602.10.3(4)
SEISMIC ADJUSTMENT FACTORS TO THE REQUIRED LENGTH OF WALL BRACING

ADJUSTMENT BASED ON:	STORY/SUPPORTING	CONDITION	ADJUSTMENT FACTOR ^{a,b} (Multiply length from Table R602.10.3 (4) (3) by this factor)	APPLICABLE METHODS
Story height (Section 301.3)	Any story	≤10 ft	1.0	All methods
		>10 ft and ≤ 12 ft	1.2	
Braced wall line spacing, townhouses in SDC C	Any story	≤35 ft	1.0	
		>35 ft and ≤ 50 ft	1.43	
Braced wall line spacing, in SDC D ₀ , D ₁ , D ₂ ^c	Any story	> 25 ft and ≤30 ft	1.2	
		>30 ft and ≤ 35 ft	1.4	
Wall dead load	Any story	> 8 psf and< 15 psf	1.0	
		<8 psf	0.85	
Roof/ceiling dead load for wall supporting	Roof only or roof plus one or two stories	≤15 psf	1.0	
	Roof plus one or two stories	>15 psf and ≤ 25 psf	1.1	
	Roof only	>15 psf and ≤ 25 psf	1.2	
Walls with stone or masonry veneer, town- houses in SDC ^{c,d,e}		1.0		All intermittent & continuous methods
		1.5		
		1.5		
Walls with stone	Any story	See Table R602.10.6.5		BV-WSP

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ADJUSTMENT BASED ON:	STORY/SUPPORTING	CONDITION	ADJUSTMENT FACTOR ^{a,b} (Multiply length from Table R602.10.3 (4) (3) by this factor)	APPLICABLE METHODS
or masonry veneer, detached one-and two- family dwellings in SDC D ₀ -D ₂ ^d ,				
Interior gypsum board finish (or equivalent)	Any story	Omitted from inside face of <i>braced wall panels</i>	1.5	DWB, WSP, SFB, PBS, PCP, HPS, CS-WSP, CS- G, CS-SFB

For SI: 1 psf = 47,8 N/m².

a. Linear interpolation shall be permitted.

b. The total length of bracing required for a given wall line is the product of all applicable adjustment factors.

c. The length-to-width ratio for the floor/roof *diaphragm* shall not exceed 3:1. The top plate lap splice nailing shall be a minimum of 12-16d nails on each side of the splice.

d. Applies to stone or masonry veneer exceeding the first story height. See Section R602.10.6.5 for requirements when stone or masonry veneer does not exceed the first story height.

e. The adjustment factor for stone or masonry veneer shall be applied to all exterior *braced wall lines* and all *braced wall lines* on the interior of the building, backing or perpendicular to and laterally supported veneered walls.

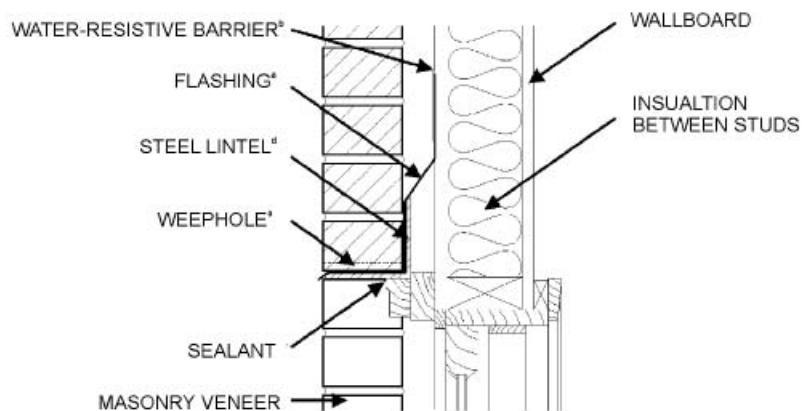
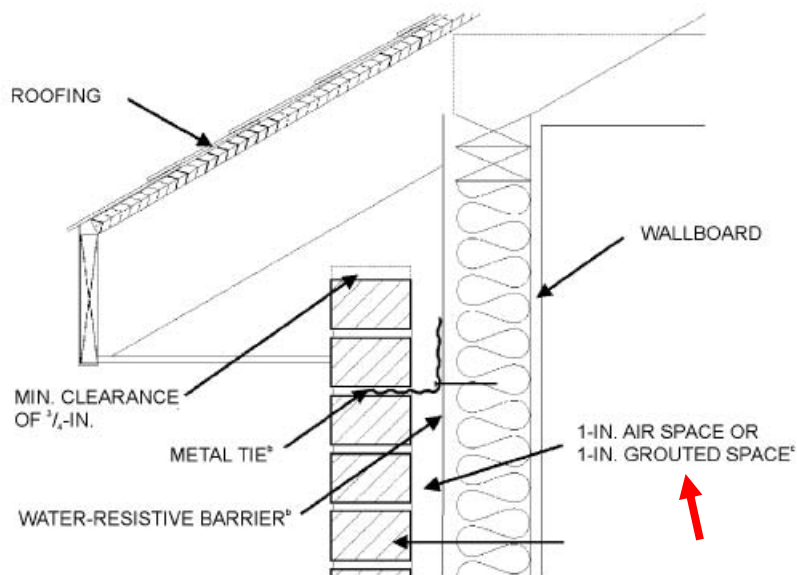
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1st PRINTING (March 27, 2012)

CHAPTER 7 WALL COVERING

FIGURE R703.7



For SI: 1 inch = 25.4 mm.

a. See Sections R703.7.5, R703.7.6 and R703.8.

b. See Sections R703.2 and R703.7.4.

c. See Section R703.7.4.2 and Table R703.7.4.

d. See Section R703.7.3.

FIGURE R703.7—continued
MASONRY VENEER WALL DETAILS

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

TABLE R703.7.4

TABLE R703.7.4
TIE ATTACHMENT AND AIR SPACE REQUIREMENTS

BACKING AND TIE	MINIMUM TIE	MINIMUM TIE FASTENER ^a	AIR SPACE	
Wood stud backing with corrugated sheet metal	22 U.S. gage (0.0299 in.) × 7/8 in. wide	8d common nail ^b (2 1/2 in. × 0.131 in.)	Nominal 1 in. between sheathing and veneer	
Wood stud backing with metal strand wire	W1.7 (No. 9 U.S. gage; 0.148 in.) with hook embedded in mortar joint	8d common nail ^b (2 1/2 in. × 0.131 in.)	Minimum nominal 1 in. between sheathing and veneer	Maximum 4 1/2 in. between backing and veneer
Cold-formed steel stud backing with adjustable metal strand wire	W1.7 (No. 9 U.S. gage; 0.148 in.) with hook embedded in mortar joint	No. 10 screw extending through the steel framing a minimum of three exposed threads	Minimum nominal 1 in. between sheathing and veneer	Maximum 4 1/2 in. between backing and veneer

For SI: 1 inch = 25.4 mm.

- a. In Seismic Design Category D_o, D₁ or D₂, the minimum tie fastener shall be an 8d ring-shank nail (2 1/2 in. × 0.131 in.) or a No. 10 screw extending through the steel framing a minimum of three exposed threads.
- b. All fasteners shall have rust-inhibitive coating suitable for the installation in which they are being used, or be manufactured from material not susceptible to corrosion.

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(Portions of text and tables not shown are unaffected by the errata)

1st through 4th PRINTING (11-07-13)

CHAPTER 8 ROOF-CEILING CONSTRUCTION

R806.5 Unvented attic and unvented enclosed rafter assemblies. Unvented....

1. The unvented...
2. No interior...
3. Where wood...
4. In Climate Zones 5, 6, 7 and 8, any *air-impermeable insulation* shall be a Class II vapor retarder, or shall have a Class **II** vapor retarder coating or

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st through 3rd PRINTING (Posted: 4-27-13)

CHAPTER 8 ROOF-CEILING CONSTRUCTION

TABLE R806.5
INSULATION FOR CONDENSATION CONTROL

CLIMATE ZONE	MINIMUM RIGID BOARD ON AIR-IMPERMEABLE INSULATION <i>R</i> -VALUE ^a
2B and 3B tile roof only	0 (none required)
1, 2A, 2B, 3A, 3B, 3C	R-5
4C	R-10
4A, 4B	R-15
5	R-20
6	R-25
7	R-30
8	R-35

a. Contributes to but does not supersede the requirements in Section ~~N1103.2.1~~ N1102.

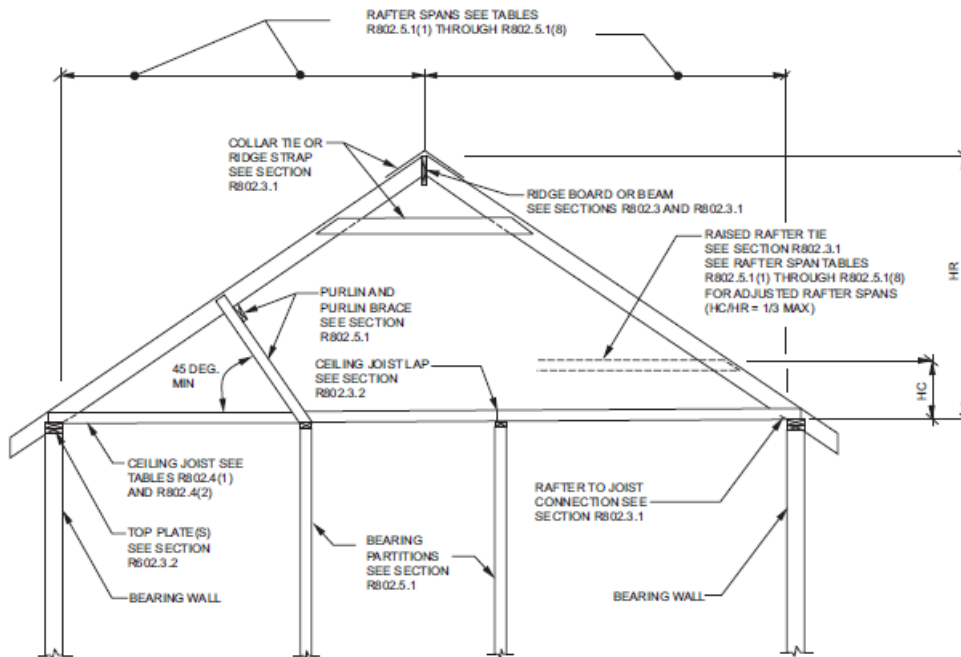
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1st PRINTING (March 27, 2012)

CHAPTER 8 WALL COVERING

FIGURE R802.5.1



For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 degree = 0.018 rad.

Note: Where ceiling joists run perpendicular to the rafter, rafter ties shall be installed in accordance with Section R802.3.1.

H_C = Height of ceiling joists or rafter ties measured vertically above the top of rafter support walls.

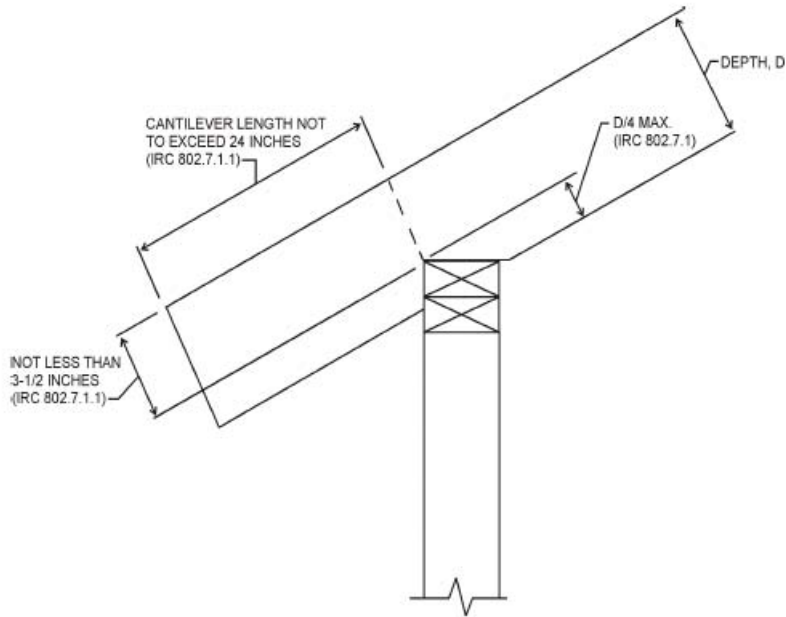
H_R = Height of roof ridge measured vertically above the top of the rafter support walls.

FIGURE R802.5.1
BRACED RAFTER CONSTRUCTION

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FIGURE 802.7.1.2



For SI: 1 inch = 25.4 mm.

FIGURE R802.7.1.1
RAFTER NOTCH

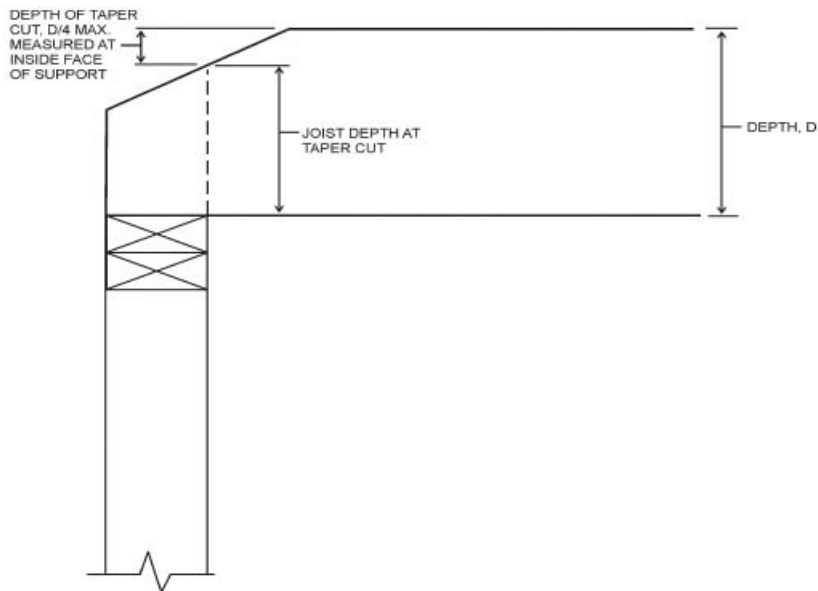


FIGURE R802.7.1.2
CEILING JOIST TAPER CUT

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1st through 4th PRINTING (Posted: 01-14-14)

CHAPTER 9 ROOF ASSEMBLIES

R905.2.8.5 Drip Edge. A drip edge shall be provided..... Underlayment shall be installed over the drip edge along eaves and under the ~~underlayment~~ drip edge on gables. Unless.....

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1st and 2nd PRINTING (September 25, 2012)

CHAPTER 11 ENERGY EFFICIENCY

N1101.7 (R102.1.1) Above code programs. The *building official*...The requirements identified as “mandatory” in ~~Chapters 4 and 5 of this code~~ this chapter, as applicable, shall be met.

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (Posted: 06-06-2012)

CHAPTER 11[RE] ENERGY EFFICIENCY

TABLE N1102.1.3 (R402.1.3) EQUIVALENT U-FACTORS^a

- c. Basement wall U-factor of 0.360 in warm-humid locations as defined by Figure 304.4 N1101.1 (R301.1) and Table 304.4 N1101.10 (R301.1).

Table and other footnotes remain unchanged.

SECTION N1101.9 (R202) Defined terms. The following words and terms shall, for the purposes of this chapter, have the meanings shown herein.

CURTAIN WALL. Fenestration products used to create an external nonload-bearing wall that is designed to separate the exterior and interior environments.

ENCLOSED SPACE. A volume surrounded by solid surfaces such as walls, floors, roofs, and openable devices such as doors and operable windows.

F-FACTOR. The perimeter heat loss factor for slab-on-grade floors (Btu/h x ft x °F) W/(m x K)]

N1103.2.2 (R403.2.2) Sealing (Mandatory). Ducts, air handlers, and filter boxes shall be sealed. Joints and seams shall comply with either the *International Mechanical Code* or Section M1601.4.1 of this code as applicable.

Portions of the section not shown remain unchanged

N1103.5 (R403.5) Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of Section M1507 of this code or *International Mechanical Code*, as applicable, or with other approved means of ventilation. Outdoor air intakes and exhaust shall have automatic or gravity dampers that close when the ventilating system is not operating.

TABLE N1105.5.2(1) (R405.5.2(1)) SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS

BUILDING COMPONENT	STANDARD REFERENCE DESIGN	PROPOSED DESIGN
Structural mass	For masonry floor slabs, 80% of floor area covered by R-2 carpet and pad, and 20% of floor directly exposed to room air.	As proposed
	For masonry basement walls, as proposed, but with insulation required by Table N1102.1.3 (R402.1.3) located on the interior side of the walls.	As proposed
	For other walls, for ceilings, floors, and interior walls, wood frame construction.	As proposed

Portions of the table not shown remain unchanged.

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 3rd PRINTING (Posted: 4-27-13)

CHAPTER 24 FUEL GAS

G2441.1 (617.1) General. Pool and spa...with ANSI Z21.56/CSA 4.7

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (Posted: 06-06-2012)
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CHAPTER 24

FUEL GAS

G2415.12 (404.12) Minimum burial depth. Underground piping systems.... except as provided for in Section
~~G2415.40.4~~ 12.1.

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st through 4th PRINTING (11-07-13)

CHAPTER 27 PLUMBING FIXTURES

Table P2701.1

Individual shower control valves anti-scald
B125.1

ASSE 1016, ~~CSA B125~~ ASME A112.18.1/CSA

P2705.1 General. The

1. thru 7.

8. Integral fixture.....requirements of ASME A112.19.2/CSA ~~B45.4~~ B45.1 or ASME A112.19.3/CSA ~~B45.4~~ B45.4

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1st and 2nd PRINTING (01-28-2013)

CHAPTER 27 PLUMBING FIXTURES

P2705.1, Item 8.....ASME A112.91.2/CSA ~~B45.1~~ B45.4 or ASME

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(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (Posted: 8-30-12)

CHAPTER 27 PLUMBING FIXTURES

**TABLE P2701.1
PLUMBING FIXTURES, FAUCETS AND FIXTURE FITTINGS**

MATERIAL	STANDARD
Plastic bathtub units	ANSI Z124.1-2, ASME A112.19.2/CSA B45.1

2012 International Residential Code Errata

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1 st PRINTING (March 27, 2012)

CHAPTER 28 WATER HEATERS

P2803.6.1 Requirements for discharge pipe. The discharge piping serving a pressure-relief valve, temperature relief valve or combination valve shall:

Items 1 through 12 are unchanged.

13. Be constructed of those materials listed in Section ~~P2904.5~~ P2905.5 or materials tested, rated and *approved* for such use in accordance with ASME A112.4.1.

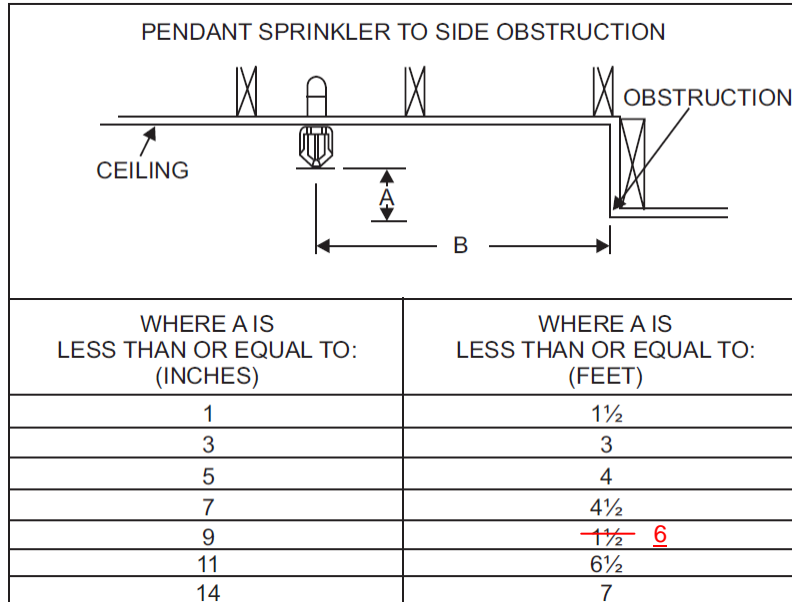
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1st through 4th PRINTING (11-07-13)

CHAPTER 29 WATER SUPPLY AND DISTRIBUTION

Figure P2904.2.4.2 Minimum Allowable Distance Between Sprinkler and Obstruction.



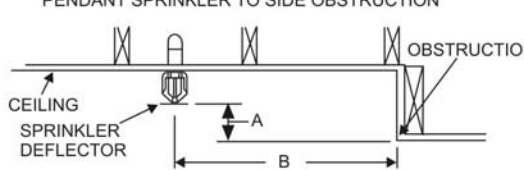
2012 International Residential Code Errata

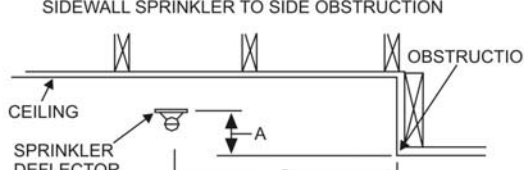
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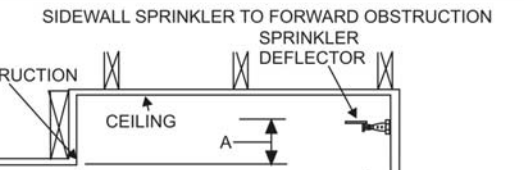
1st PRINTING (Posted: 12/05/2011)

CHAPTER 29 WATER SUPPLY AND DISTRIBUTION

TABLE P2904.2.4.2
MINIMUM ALLOWABLE DISTANCE BETWEEN SPRINKLER AND OBSTRUCTION

PENDANT SPRINKLER TO SIDE OBSTRUCTION	
	
WHERE "A" IS LESS THAN OR EQUAL TO: (INCHES)	"B" MUST BE NOT LESS THAN: (FEET)
1	1½
3	3
5	4
7	4½
9	1½
11	6½
14	7

SIDEWALL SPRINKLER TO SIDE OBSTRUCTION	
	
WHERE "A" IS LESS THAN OR EQUAL TO: (INCHES)	"B" MUST BE NOT LESS THAN: (FEET)
1	1½
3	3
5	4
7	4½
9	6
11	6½
14	7

SIDEWALL SPRINKLER TO FORWARD OBSTRUCTION	
	
WHERE "A" IS LESS THAN OR EQUAL TO: (INCHES)	"B" MUST BE NOT LESS THAN: (FEET)
1	8
2	10
3	11
4	12
6	13
7	14
9	15
11	16
14	17

2012 International Residential Code Errata

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1 st through 5 th PRINTING (04-15-2014)

CHAPTER 34 GENERAL REQUIREMENTS

Section E3407.3 Ungrounded conductors. Insulation...

Exception: An insulated conductor....or three continuous white stripes shall be used only for the supply to the switch, not as a return conductor from the switch to the outlet.

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st through 5th PRINTING (04-15-2014)
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CHAPTER 39 POWER AND LIGHTING DISTRIBUTION

Section E3908.12 Equipment grounding conductor size. Copper...Where ungrounded ~~connectors~~ conductors are increased in size....

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 3rd PRINTING (Posted: 4-27-13)

CHAPTER 44 REFERENCED STANDARDS

ASME

A112.19.5/
CSA B45.X 15—2009 Trim for Water-closet Bowls, Tanks and Urinals

CSA

ASME A112.19.2/
CSA B45.1—08 Ceramic Plumbing Fixtures....

ASME A112.19.3--2008/
CSA B45.4—2008 Stainless Steel Plumbing FixturesTable P2701.1, P2705.1, P2711.1, P2712.1

~~CSA Requirement 3—88 Manually Operated Gas Valves for Use in House Piping Systems~~Table G2420.1.1

A112.19.5/
CSA B45.15—2009 Trim for Water-closet Bowls, Tanks and Urinals

~~B45.4—02~~ ~~Stainless Steel Plumbing Fixtures~~Table P2701.1, P2711.1, P2712.1

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(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (March 27, 2012)

CHAPTER 44 REFERENCED STANDARDS

PCA

100-40 07 Prescriptive Design of Exterior Concrete Walls for One and Two Family Dwellings

TPI

TPI 1—~~2002~~ 2007 National Design Standard for Metal –plate-connected Wood truss Construction

SMACNA

SMACNA –10 Fibrous Glass Duct Construction Standards (2003).....M1601.1.1, ~~M1604.4.1~~ M1601.4.1
 HVAC Duct Construction Standards-Metal and Flexible (2005)M1601.4.1

UL

790—04 Standard Test Methods for Fire Tests of Roof Coverings with revisions through October 2008

1703—02 Flat-plate Photovoltaic Modules and Panels---with revisions through April ~~2005~~ 2008

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (9-16-2011)
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CHAPTER 44 REFERENCED STANDARDS

AISI

AISI S100—07/~~S4~~ S2—10 North American Specification for the Design of Cold-formed Steel
Structural Members, with Supplement 2, dated 2010

AISI S230—07 /S2-08 Standard for Cold-formed Steel Framing--Prescriptive Method for
One- and Two-family Dwellings, with Supplement 2, dated 2008

2012 International Residential Code Errata

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1st PRINTING (Posted: 01-05-2012)

CHAPTER 44

ASME

A112.18.6/CSA B125.6 – 2010-09

~~A112.19.9M – 1991 (R2002) Nonvitreous Ceramic Plumbing Fixtures with 2002 Supplement~~

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (Posted: August 11, 2011)

CHAPTER 44 REFERENCED STANDARDS

TPI

TPI 1 – 2002 07 National Design Standard for Metal-plate-connected Wood Truss Construction

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(Portions of text and tables not shown are unaffected by the errata)

1st through 5th PRINTING (Posted: 01-14-14)

CHAPTER 44 REFERENCED STANDARDS

UL

723-- ~~03~~ 2008

Standard for Test for Surface Burning Characteristics of
Building Materials— ~~with revisions through May 2005~~....

1256 – 02

Fire Test of Roof Deck Construction ~~with revisions through January 2007~~.....

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (March 27, 2012)

APPENDIX A SIZING AND CAPACITIES OF GAS PIPING

DELTE Section A.6 in its entirety including Figures A.6(a) and A.6(b).

Renumber subsequent sections and figures.

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1 st PRINTING (March 27, 2012)

APPENDIX H PATIO COVERS

AH103.2 Light, ventilation and emergency egress. Exterior openings required for light and ventilation shall be permitted to open into a patio structure conforming to Section AH101, provided that the patio structure shall be unenclosed if such openings are serving as emergency egress or rescue openings from sleeping rooms. Where such exterior openings serve as an exit from the *dwelling unit*, the patio structure, unless unenclosed, shall be provided with exits conforming to the provisions of Section ~~R310~~ R311 of this code.

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (07-11-12)

APPENDIX P SIZING OF WATER PIPING SYSTEM

AP101.1.1 This appendix outlines.....source, the head ~~charges~~ changes in the system....

AP103.2.2 Water pipe sizing....

1. Pressure required...and Section 604.5 3 of the *International*....

AP103.3 Segmented loss method.

3. **Selection of pipe size.**

3.1 Pressure required.....and Section 604.5 3 of the *International*....

TABLE AP103.3(1)

Footnote b. To consider separately.....if greater loss than ~~Note a~~ above.

FIGURE AP103.3(3) FRICTION LOSS IN SMOOTH PIPE^a (TYPE L, ASTM B88 COPPER TUBING)

FIGURE AP103.3(4) FRICTION LOSS IN SMOOTH PIPE^a (TYPE M, ASTM B88 COPPER TUBING)

FIGURE AP103.3(5) FRICTION LOSS IN FAIRLY ROUGH SMOOTH PIPE^a

FIGURE AP103.3(7) FRICTION LOSS IN ~~FAIRLY~~ ROUGH PIPE^a

2012 International Residential Code Errata

(Portions of text and tables not shown are unaffected by the errata)

1st and 2nd PRINTING (Posted: 06-06-2012)
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P: Parallel Path CalculationN1102.2.6 (R402.2.6)

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MOISTURE CONTROL.....~~R601.3~~ R702.7

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VAPOR RETARDERS.....~~R601.3~~ R702.7