

**2009 INTERNATIONAL ENERGY
CONSERVATION CODE ERRATA**
(Portions of text and tables not shown are unaffected by the errata)
6th PRINTING (Posted: October 7, 2011)

**CHAPTER 4
RESIDENTIAL ENERGY EFFICIENCY**

**TABLE 402.1.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a**

j. For impact rated fenestration complying with Section R301.2.2 of the *International Residential Code* Section ~~4608.1.2~~ 1609.1.2 of the *International Building Code*, the maximum U-factor shall be 0.75 in Zone 2 and 0.65 in Zone 3.

**TABLE 405.5.2(1)
SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS**

Building Component	Standard Reference Design	Proposed Design
Service water H₂O heating ^{n,k,l}	As proposed Use: same as proposed design	As proposed $\text{gal/day} = 30 + (10 \times N_{br})$

**2009 INTERNATIONAL ENERGY
CONSERVATION CODE ERRATA**

1st through 4th PRINTING (Updated July 6, 2010)

**CHAPTER 4
RESIDENTIAL ENERGY EFFICIENCY**

404.1 Lightning Equipment. A minimum of 50 percent of the lamps in permanently installed lighting fixtures shall be high-efficiency lamps.

Posted 7/06/2010

**TABLE 405.5.2(1)-continued
SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS**

Heating systems ^{l, n}	As proposed Capacity: sized in accordance with Section M1401.3 of the <i>International Residential Code</i>	As proposed
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(Change the "g" after Heating systems to an "l") Posted 7/06/2010

CHAPTER 4 RESIDENTIAL ENERGY EFFICIENCY

404.1**LIGHTNING EQUIPMENT (PRESCRIPTIVE)**

(Remove Prescriptive from the Title). Posted 1/28/2010

BUILDING COMPONENT	STANDARD REFERENCE DESIGN	PROPOSED DESIGN
Air exchange rate	Specific leakage area (SLA) ^{de} = 0.00036 assuming no energy recovery	For residences that are not tested, the same as the standard reference design. For residences without mechanical ventilation that are tested in accordance with ASHRAE 119, Section 5.1, the measured air exchange Rate ^{ef} but not less than 0.35 ACH For residences with mechanical ventilation that are tested in accordance with ASHRAE 119, Section 5.1, the measured air exchange rate ^e combined with the mechanical ventilation rate, f which shall not be less than $0.01 \times CFA + 7.5 \times (Nbr+1)$ where: <i>CFA</i> = conditioned floor area <i>Nbr</i> = number of bedrooms
Internal mass	An internal mass for furniture and contents of 8 pounds per square foot of floor area.	Same as standard reference design, plus any additional mass specifically designed as a thermal storage element ^g , but not integral to the building envelope or structure
Heating systems ^{gh}	As proposed Capacity: sized in accordance with Section M1401.3 of the International Residential Code	As proposed
Cooling systems ^{gh}	As proposed Capacity: sized in accordance with Section M1401.3 of the International Residential Code	As proposed
Service water heating ^{h, k, l}	As proposed Use: same as proposed design	As proposed gal/day = $30 + (10 \times Nbr)$

(Portions of Table not shown remain unchanged.)

Air exchange rate: Change the "d" from (SLA) to an "e" under Standard Reference Design. Also change the "e" after Rate to "f" under Proposed Design. **Internal Mass:** Remove the "f" element^f under Proposed Design. **Heating systems:** Remove the "g" from after Heating systems under Building Component. **Cooling systems:** Change the "g" to "h" Under Building Component. **Service water:** Add "l" after Service water heating "h,k" under Building Component.) Posted 1/28/2010

CHAPTER 4 RESIDENTIAL ENERGY EFFICIENCY

**TABLE 402.1.3
EQUIVALENT *U*-FACTORS^a**

c. Basement wall *U*-factor of 0.360 in warm-humid locations as defined by Figure 301.1 and Table ~~301.2~~ 301.1.

(Portions of table not shown remain unchanged. In the c footnote, change Table 301.2 to Table 301.1) Posted 5/14/2009

402.2.5 STEEL-FRAME CEILINGS, WALLS, AND FLOORS

Exception: In Climate Zones 1 and 2, the continuous insulation requirements in Table ~~402.2.4~~ 402.2.5 shall be permitted to be reduced to R-3 for steel frame wall assemblies with studs spaced at 24 inches (610 mm) on center.

(Change Table Section from 402.2.4 to 402.2.5 in the Exception. All remaining text; remains unchanged) Posted 5/14/2009

402.2.9 CRAWL SPACE WALLS

As an alternative to insulating floors over crawl spaces, crawl space walls shall be permitted to be insulated when the crawl space is not vented to the outside. Crawl space wall insulation shall be permanently fasted to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder in accordance with the International Building Code. All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend at least 6 inches (163 mm) up the stem wall and shall be attached to the stem wall.

(Add "in accordance with the International Building Code") Posted 5/14/2009

402.4.2.1 TESTING OPTION

Building envelope tightness and insulation installation shall be considered acceptable when tested air leakage is less than seven air changes per hour (ACH) when tested with a blower door at a pressure of ~~33.5 psf~~ 50 pascals (50 Pa 1 psf). Testing shall occur after rough in and after installation of penetrations of the building envelope, including penetrations for utilities, plumbing, electrical, ventilation and combustion appliances.

(Change 33.5 psf (50 Pa) to 50 pascals (1 psf). No change to remainder of section) Posted 5/14/2009

402.5 MAXIMUM FENESTRATION *U*-FACOR AND SHGC (MANDATORY)

The area-weighted average maximum fenestration *U*-factor permitted using trade-offs from Section 402.1.4 or ~~404~~ 405 shall be 0.48 in Zones 4 and 5 and 0.40 in Zones 6 through 8 for vertical fenestration, and 0.75 in Zones 4 through 8 for skylights. The area-weighted average maximum fenestration SHGC permitted using trade-offs from Section 405 in Zones 1 through 3 shall be 0.50.

(Change Section 404 to 405) Posted 5/14/2009

**TABLE 405.5.2(1)—continued
SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS**

BUILDING COMPONENT	STANDARD REFERENCE DESIGN	PROPOSED DESIGN
Service water heating ^{g, i, j, k}	As proposed Use: same as proposed design	As proposed Gal/day = 30 + (10 x <i>N_{br}</i>)

(Portions of Table not shown remain unchanged. Remove "g", "i", and "j" from the Column: Building Component. Add "h".) Posted 5/14/2009

403.9.1

POOL HEATERS

All pool heaters shall be equipped with a readily *accessible* on-off switch to allow shutting off the heater without adjusting the thermostat setting. Pool heaters fired by natural gas or LPG shall not have continuously burning pilot lights.

(Add "or LPG") Posted 5/14/2009

**CHAPTER 4
RESIDENTIAL ENERGY EFFICIENCY**

**TABLE 402.1.3
EQUIVALENT *U*-FACTORS^a**

CLIMATE ZONE	BASEMENT WALL <i>U</i>-FACTOR^d
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a. through c. (No change to current text)

~~d. Foundation *U*-factor requirements shown in Table 402.1.3 include wall construction and interior air films but exclude soil conductivity and exterior air films. *U*-factors for determining code compliance in accordance with Section 402.1.4 (total UA alternative) of Section 405 (Simulated Performance Alternative) shall be modified to include soil conductivity and exterior air films.~~

(Portions of table not shown remain unchanged. Delete note d entirely) Posted 3/11/2009