



International Energy Conservation Code

International Energy Conservation Code



Scope

The code applies to both residential and commercial buildings. In the code, the United States is divided into eight climate zones which are used in determining applicable requirements for residential and commercial energy efficiency. Criteria to determine the applicable climate zones for international locations are also included.

Insulation, window and skylight requirements for the thermal envelope for both residential and commercial buildings are based on the climate zones. Performance criteria for compliance with residential energy efficiency requirements using simulated energy analysis is also addressed.

Content

- Chapter 1 Administration and Enforcement
- Chapter 4 Residential Energy Efficiency
- Chapter 5 Commercial Energy Efficiency

| | | Chapter 1: Administration | and Enforcement (Revised in its entirety) | | | | | |
|--------|---------|--|---|--|--|--|--|--|
| Code S | ection | Constinue Title | Change | | | | | |
| 2009 | 2006 | Section litie | Cnange | | | | | |
| 303 | 102 | Materials, Systems and Equipment | Provisions applicable to the energy code regarding materials, systems and equipment are moved to a more logical location, in Chapter 3. These are general technical requirements, not administrative requirements. | | | | | |
| 102.1 | 103.1.1 | Above code programs | Requires now that the mandatory provisions of Chapters 4 and 5 be met for buildings being built using above code programs. | | | | | |
| 103.2 | 104.2 | Information required on construction documents | Added several items to be required on construction documents, including: Area weighted U-factor and SHGC calculations; mechanical and service water heating system and equipment types, sizes and efficiencies; economizer description; equipment and systems controls; fan motor hp and controls; duct sealing; duct and pipe insulation and location; lighting fixture schedule with wattage and control narrative; and air sealing details. | | | | | |



1. Do any provisions of the IECC apply to "above code programs"?

| | | Chapter 4: Residential Er | nergy Efficiency (Revised in its entirety) | | | | | | |
|---------------------------------------|---------------------------------------|---|---|--|--|--|--|--|--|
| Code S | ection | Constinue Title | Channer | | | | | | |
| 2009 | 2006 | Section Title | Change | | | | | | |
| Table 402.1.1 And Table 402.1.3 | Table 402.1.1 And Table 402.1.3 | Insulation and fenestration requirements by component Equivalent U-factors | Several values changed for aggressive reduction in energy usage. Including: 1. Fenestration U-Factors and SHGC values in warm climate zones. (climate zones 1, 2, 3 and 4) 2. Basement and crawl space wall insulation R-Values and U-Factors in all climate zones. | | | | | | |
| 402.4.1 | 402.4.1 | 402.4.1 Building thermal envelope. | New items that must be sealed have been added to the list, including att access openings and rim joist functions. | | | | | | |
| 402.4.2 | NEW | Air sealing and insulation | Building air tightness must be demonstrated through testing or rigorous inspections. | | | | | | |
| 402.4.3 | NEW | Fireplaces | Wood-burning fireplaces are now required to have gasketed doors, and must draw combustion air from the outside. | | | | | | |
| 403.1.1 | 403.1.1 | Programmable thermostat | For forced-air heating equipment, every dwelling unit must have at least one programmable thermostat. | | | | | | |
| 403.3.2 | 403.3.2 | Sealing | All ducts are required to be tested for leak tightness. New criteria for tes is provided. | | | | | | |
| 403.11 | NEW | Pools | Energy conservation requirements are required for pools, including time switches to turn pumps and heaters off, and vapor covers. | | | | | | |
| 404.1 | NEW | Lighting equipment | A minimum of fifty percent of the lamps in permanently installed lighting fixtures shall be high efficiency lamps. | | | | | | |

| CLIMATE ZONE | FENESTRATION U-FACTOR ^b | SKYLIGHT ^b <i>U</i> -FACTOR | GLAZED FENESTRATION SHGC ^{b, e} | CEILING <i>R</i> -VALUE | WOOD FRAME WALL <i>R</i> -VALUE | MASS WALL <i>R</i> -VALUE ⁱ | FLOOR <i>R</i> -VALUE | BASEMENT [©] WALL <i>R</i> -VALUE | SLAB ^d <i>R</i> -VALUE & DEPTH | CRAWL SPACE [©] WALL <i>R</i> -VALUE |
|--------------------|---------------------------------------|---|--|----------------------------|---------------------------------------|--|--------------------------|--|---|--|
| 1 | 1.2 | 0.75 | 0.30 | 30 | 13 | 3/4 | 13 | 0 | 0 | 0 |
| 2 | 0.65 ^j | 0.75 | 0.30 | 30 | 13 | 4/6 | 13 | 0 | 0 | 0 |
| 3 | 0.50 ^j | 0.65 | 0.30 | 30 | 13 | 5/8 | 19 | 5/13 ^f | 0 | 5/13 |
| 4 except Marine | 0.35 | 0.60 | NR | 38 | 13 | 5/10 | 19 | 10/13 | 10, 2 ft | 10/13 |
| 5 and Marine 4 | 0.35 | 0.60 | NR | 38 | 20 or 13+5 ^h | 13/17 | 30 ^g | 10/13 | 10, 2 ft | 10/13 |
| 6 | 0.35 | 0.60 | NR | 49 | 20 or 13+5 ^h | 15/19 | 30 ^g | 15/19 | 10, 4 ft | 10/13 |
| 7 and 8 | 0.35 | 0.60 | NR | 49 | 21 | 19/21 | 38 ^g | 15/19 | 10, 4 ft | 10/13 |

TABLE 402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

For SI: 1 foot = 304.8 mm.

a. *R*-values are minimums. *U*-factors and SHGC are maximums. R-19 batts compressed into a nominal 2 × 6 framing cavity such that the *R*-value is reduced by R-1 or more shall be marked with the compressed batt *R*-value in addition to the full thickness *R*-value.

b. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.

c. "15/19" means R-15 continuous insulated sheathing on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. "15/19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulated sheathing on the interior of the home. "10/13" means R-10 continuous insulated sheathing on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.

d. R-5 shall be added to the required slab edge *R*-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Zones 1 through 3 for heated slabs.

e. There are no SHGC requirements in the Marine Zone.

f. Basement wall insulation is not required in warm-humid locations as defined by Figure 301.1 and Table 301.1.

g. Or insulation sufficient to fill the framing cavity, R-19 minimum.

h. "13+5" means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25 percent or less of the exterior, insulating sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25 percent of exterior, structural sheathing shall be supplemented with insulated sheathing of at least R-2.

i. The second *R*-value applies when more than half the insulation is on the interior of the mass wall.

j. For impact rated fenestration complying with Section R301.2.1.2 of the *International Residential Code* or Section 1608.1.2 of the *International Building Code*, the maximum U-factor shall be 0.75 in Zone 2 and 0.65 in Zone 3.

TABLE 402.1.3 EQUIVALENT U-FACTORS^a

| CLIMATE ZONE | FENESTRATION U-FACTOR | SKYLIGHT <i>U</i> -FACTOR | CEILING <i>U</i> -FACTOR | FRAME WALL <i>U</i> -FACTOR | MASS WALL <i>U</i> -FACTOR ^b | FLOOR <i>U</i> -FACTOR | BASEMENT WALL <i>U</i> -FACTOR ^d | CRAWL SPACE WALL <i>U</i> -FACTOR ^c |
|-----------------|--------------------------|------------------------------|-----------------------------|-----------------------------------|--|---------------------------|---|---|
| 1 | 1.20 | 0.75 | 0.035 | 0.082 | 0.197 | 0.064 | 0.360 | 0.477 |
| 2 | 0.65 | 0.75 | 0.035 | 0.082 | 0.165 | 0.064 | 0.360 | 0.477 |
| 3 | 0.50 | 0.65 | 0.035 | 0.082 | 0.141 | 0.047 | 0.091° | 0.136 |
| 4 except Marine | 0.35 | 0.60 | 0.030 | 0.082 | 0.141 | 0.047 | 0.059 | 0.065 |
| 5 and Marine 4 | 0.35 | 0.60 | 0.030 | 0.057 | 0.082 | 0.033 | 0.059 | 0.065 |
| 6 | 0.35 | 0.60 | 0.026 | 0.057 | 0.060 | 0.033 | 0.050 | 0.065 |
| 7 and 8 | 0.35 | 0.60 | 0.026 | 0.057 | 0.057 | 0.028 | 0.050 | 0.065 |

a. Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source.

b. When more than half the insulation is on the interior, the mass wall *U*-factors shall be a maximum of 0.17 in Zone 1, 0.14 in Zone 2, 0.12 in Zone 3, 0.10 in Zone 4 except Marine, and the same as the frame wall *U*-factor in Marine Zone 4 and Zones 5 through 8.

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

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.



2. Name 3 new energy conservation measures that have been added to residential construction in Chapter 4.

3. What climate zones were changes made to fenestration U-Factors and Glazed Fenestration SHGC?.

| | | Chapter 5: Co | mmercial Energy Efficiency | | | | |
|---------------------------|---|--|--|--|--|--|--|
| Code S | Section | Deating Title | | | | | |
| 2009 | 2006 | Section little | Cnange | | | | |
| 502.1.2, Table 502.1.2 | NEW | U-Factor alternative | Similar to residential construction in Chapter 4, the commercial buildings in Chapter 5 can now utilize a U-Factor alternative for insulation and fenestration requirements. | | | | |
| Table 502.2(1) | Table 502.2(1) | Building envelope requirements—opaque assemblies | The table now contains separate requirements for Group R occupancies and all other occupancies. In addition, there are more restrictive building envelope values. | | | | |
| Table 502.3 | Table 502.3 | Building envelope requirements—fenestration | More restrictive fenestration values are provided for climate zones 7 and 8. In addition, separate requirements for plastic skylights are removed. | | | | |
| 502.5 | NEW | Roof reflectance | Requirements for roof reflectance are added. | | | | |
| 503.2.10 | 2.10 NEW Air system design and control | | New requirements for design of HVAC systems and for motor energy use limitations are added. | | | | |
| 503.2.11 | NEW | Heating outside a building | Systems installed to provide heat outside a building shall be radiant systems. Such heating systems shall be controlled by an occupancy sensing device or a timer switch, so that the system is automatically de-energized when no occupants are present. | | | | |

| | | | BUIL | DING EN | ELOPE F | EQUIREN | TABLE 5 | 02.1.2 AQUE EL | EMENT, M | MUMIXAI | U-FACTO | RS | | | | |
|---------------------------------------|-----------|---------|-----------|---------|-----------|---------|----------------|-------------------|------------|-------------|-----------|---------|-----------|---------|-----------|---------|
| | | 1 | | 2 | | 3 | EXCEPT | MARINE | 5 A MAR | ND INE 4 | | 3 | | 7 | | B |
| CLIMATE ZONE | All other | Group R | All other | Group R | All other | Group R | All other | Group R | All other | Group R | All other | Group R | All other | Group R | All other | Group R |
| | | | | | | | Root | fs | | | | | | | | |
| Insulation entirely above deck | U-0.063 | U-0.048 | U-0.048 | U-0.048 | U-0.048 | U-0.048 | U-0.048 | U-0.048 | U-0.048 | U-0.048 | U-0.048 | U-0.048 | U-0.039 | U-0.039 | U-0.039 | U-0.039 |
| Metal buildings | U-0.065 | U-0.065 | U-0.055 | U-0.055 | U-0.055 | U-0.055 | U-0.055 | U-0.055 | U-0.055 | U-0.055 | U-0.049 | U-0.049 | U-0.049 | U-0.049 | U-0.035 | U-0.035 |
| Attic and other | U-0.034 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 | U-0.027 |
| | | | | | | 0 | Walls, Abov | ve Grade | | | | | | | | |
| Mass | U-0.058 | U-0.151 | U-0.151 | U-0.123 | U-0.123 | U-0.104 | U-0.104 | U-0.090 | U-0.90 | U-0.80 | U-0.080 | U-0.071 | U-0.071 | U-0.071 | U-0.071 | U-0.052 |
| Metal building | U-0.093 | U-0.093 | U-0.093 | U-0.093 | U-0.084 | U-0.084 | U-0.084 | U-0.084 | U-0.069 | U-0.069 | U-0.069 | U-0.069 | U-0.057 | U-0.057 | U-0.057 | U-0.057 |
| Metal framed | U-0.124 | U-0.124 | U-0.124 | U-0.064 | U-0.084 | U-0.064 | U-0.064 | U-0.064 | U-0.064 | U-0.064 | U-0.064 | U-0.057 | U-0.064 | U-0.052 | U-0.064 | U-0.037 |
| Wood framed and other | U-0.089 | U-0.089 | U-0.089 | U-0.089 | U-0.089 | U-0.089 | U-0.089 | U-0.064 | U-0.064 | U-0.051 | U-0.051 | U-0.051 | U-0.051 | U-0.051 | U-0.036 | U-0.036 |
| | | | | | | | Walls, Belo | w Grade | | | | | | | | |
| Below-grade wall ^a | C-1.140 | C-1.140 | C-1.140 | C-1.140 | C-1.140 | C-1.140 | C-1.140 | C-0.119 | C-0.119 | C-0.119 | C-0.119 | C-0.119 | C-0.119 | C-0.092 | C-0.119 | C-0.075 |
| | | | | | | | Floo | rs | | | | | | | | |
| Mass | U-0.322 | U-0.322 | U-0.107 | U-0.087 | U-0.107 | U-0.087 | U-0.087 | U-0.074 | U-0.074 | U-0.064 | U-0.064 | U-0.057 | U-0.064 | U-0.051 | U-0.057 | U-0.051 |
| Joist/Framing | U-0.282 | U-0.282 | U-0.052 | U-0.052 | - | U-0.033 | U-0.033 | U-0.033 | U-0.033 | U-0.033 | U-0.033 | U-0.033 | U-0.033 | U-0.033 | U-0.033 | U-0.033 |
| · · · · · · · · · · · · · · · · · · · | | | | | | S | lab-on-Gra | de Floors | | | | | | | | |
| Unheated slabs | F-0.730 | F-0.730 | F-0.730 | F-0.730 | F-0.730 | F-0.730 | F-0.730 | F-0.540 | F-0.730 | F-0.540 | F-0.540 | F-0.520 | F-0.520 | F-0.520 | F-0.520 | F-0.510 |
| Heated slabs | F-1.020 | F-1.020 | F-1.020 | F-1.020 | F-0.900 | F-0.900 | 5. | F-0.860 | F-0.860 | F-0.860 | F-0.860 | F-0.688 | F-0.830 | F-0.688 | F-0.688 | F-0.688 |

a. When heated slabs are placed below-grade, below grade walls must meet the F-factor requirements for perimeter insulation according to the heated slab-on-grade construction.

| | | | | BUI | LDING EN | VELOPE | REQUIRE | MENTS - C | DPAQUE A | SSEMBLI | ES | - | | | | |
|--|------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | _ | | ~ | | ~ | 4 EXCEPT | MARINE | 5 AND MA | RINE 4 | 9 | | 7 | | œ | |
| CLIMATE ZONE | All other | Group R | All other | Group R | All other | Group R | All other | Group R | All other | Group R | All other | Group R | All other | Group R | All other | Group R |
| | | | | | | | Roo | lfs | | | | | | | | |
| Insulation entirely above deck | R-15ci | R-20ci | R-20ci | R-20ci | R-20ci | R-20ci | R-20ci | R-20ci | R-20ci | R-20ci | R-20ci | R-20ci | R-25ci | R-25ci | R-25ci | R-25ci |
| Metal buildings (with R-5 thermal blocks ^{a, b}) | R-19 | R-19 | R-13 + R-13 | R-13 + R-13 | R-13 + R-13 | R-19 | R-13 + R-13 | R-19 | R-13 + R-13 | R-19 | R-13 + R-19 | R-19 | R-13 + R-19 | R-19 + R-10 | R-11 + R-19 | R-19 + R-10 |
| Attic and other | R-30 | R-38 | R-38 | R-38 | R-38 | R-38 | R-38 | R-38 | R- 38 | R-38 | R-38 | R-38 | R-38 | R-38 | R-49 | R-49 |
| | | | | | | | Walls, Abo | ve Grade | | | | | | | | |
| Mass | NR | R-5.7ci | R-5.7ci | R-7.6ci | R-7.6ci | R-9.5ci | R-9.5ci ^c | R-11.4ci | R-11.4ci | R-13.3 ci | R-13.3ci | R-15.2ci | R-15.2ci | R-15.2ci | R-25ci | R-25ci |
| Metal building ^b | R-16 | R-16 | R-16 | R-16 | R-19 | R-19 | R-19 | R-19 | R-13 + R-5.6ci | R-13 + R-5.6ci | R-13 + R-5.6ci | R-13 + R-5.6ci | R-19 + R-5.6ci | R-19 + R-5.6ci | R-19 + R-5.6ci | R-19 + R-5.6ci |
| Metal framed | R-13 | R-13 | R-13 | R-13+ 7.5ci | R-13 + R-3.8ci | R-13 + R-7.5ci | R-13 + 7.5 | R-13 + R-7.5ci | R-13 + R-7.5 ci | R-13 + R-7.5ci | R-13 + R-7.5ci | R-13 + R-7.5ci | R-13 + R-7.5ci | R-13 + R-15.6ci | R-13 + R-7.5 ci | R-13 + R-18.8ci |
| Wood framed and other | R-13 | R-13 | R-13 | R-13 | R-13 | R-13 | R-13 | R-13+ R-3.8ci | R-13 + R-3.8ci | R-13 + 3.8 | R-13 + 7.5 | R-13 + R-7.5 | R-13+ R-7.5ci | R-13 +7.5ci | R-13 + R-15.6ci | R-13 + 15.6ci |
| | | | | | | | Walls, Beld | ow Grade | | | | | | | | |
| Below grade wall ^d | NR | NR | NR | NR | NR | NR | NR | R-7.5ci | R-7.5ci | R-7.5ci | NR R-7.5ci | R-7.5ci | R-7.5ci | R-10ci | R-7.5ci | R-12.5ci |
| | | | | | | | Floc | Irs | | | | | | | | |
| Mass | NR | NR | R-6.3ci | R-8.3ci | R-6.3ci | R-8.3ci | R-10ci | R-10.4ci | R-10ci | R-12.5ci | R-12.5ci | R-14.6ci | R-15ci | R-16.7ci | R-15ci | R-16.7ci |
| Joist/framing Steel/(wood) | NR | NR | R-19 | R-30 | R-19 | R-30 | R-30 | R-30 | R-30 | R-30 | R-30 | R-30 ^e | R-30 | R-30 ^e | R-30 ^e | R-30 ^e |
| | | | | | | | Slab-on-Gré | ade Floors | | | | | | | | |
| Unheated slabs | NR | NR | NR | NR | NR | NR | NR | R-10 for 24 in. below | NR | R-10 for 24 in. below | R-10 for 24 in. below | R-15 for 24 in. below | R-15 for 24 in. below | R-15 for 24 in. below | R-15 for 24 in. below | R-20 for 24 in. below |
| Heated slabs | R-7.5 for 12 in. below | R-7.5 for 12 in. below | R-7.5 for 12 in. below | R-7.5 for 12 in. below | R-10 for 24 in. below | R-10 24 in. below | R-15 for 24 in. below | R-20 for 48 in. below | R-20 for 24 in. below | R-20 for 48 in. below | R-20 for 48 in. below | R-20 for 48 in. below |
| Opaque doors | | | | | | | | | | | | | | | | |
| Swinging | U – 0.70 | U - 0.70 | U – 0.70 | U - 0.70 | U - 0.70 | U - 0.70 | U – 0.70 | U - 0.50 | U -0.50 | U - 0.50 | U - 0.50 | U - 0.50 |
| Roll-up or sliding | U – 1.45 | U – 1.45 | U – 1.45 | U – 1.45 | U – 1.45 | U – 1.45 | U -0.50 | U - 0.50 | U -0.50 | U - 0.50 |
| | | | | | | | | | | | | | | | | |

For SI: 1 inch = 25.4 mm.

ci = Continuous insulation. NR = No requirement.

a. When using *R*-value compliance method, a thermal spacer block is required, otherwise use the *U*-factor compliance method. [see Tables 502.1.2 and 502.2(2)].
b. Assembly descriptions can be found in Table 502.2(2).
c. *R*-5.7 ci is allowed to be substituted with concrete block walls complying with ASTM C 90, ungrouted or partially grouted at 32 inches or less on center vertically and 48 inches or less on center horizontally, with ungrouted cores filled with material having a maximum thermal conductivity of 0.44 Btu-in./h-f² F.
d. When heated slabs are placed below grade, below-grade walls must meet the exterior insulation requirements for perimeter insulation according to the heated slab-on-grade construction.
e. Steel floor joist systems shall to be *R*-38.

TABLE 502.2(1)

| | - | - | | | | | | | | | | |
|---|------------|------------|-------------|--------------------|-------------------|------|------|------|--|--|--|--|
| CLIMATE ZONE | 1 | 2 | 3 | 4 EXCEPT MARINE | 5 AND MARINE 4 | 6 | 7 | 8 | | | | |
| Vertical fenestration (40% max | ximum of a | bove-grade | e wall) | | | | | | | | | |
| U-factor | | | | | | | | | | | | |
| Framing materials other than | metal with | or without | metal reinf | orcement or clad | ding | | | | | | | |
| U-factor | 1.20 | 0.75 | 0.65 | 0.40 | 0.35 | 0.35 | 0.35 | 0.35 | | | | |
| Metal framing with or without thermal break | | | | | | | | | | | | |
| Curtain wall/storefront U-factor | 1.0 | 0.70 | 0.60 | 0.50 | 0.45 | 0.45 | 0.40 | 0.40 | | | | |
| Entrance door U-factor | 1.20 | 1.10 | 0.90 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | | | | |
| All other U-factor ^a | 1.20 | 0.75 | 0.65 | 0.55 | 0.55 | 0.55 | 0.45 | 0.45 | | | | |
| SHGC-all frame types | | | | | | | | | | | | |
| SHGC: PF < 0.25 | 0.25 | 0.25 | 0.25 | 0.40 | 0.40 | 0.40 | 0.45 | 0.45 | | | | |
| SHGC: 0.25 ≤ PF < 0.5 | 0.33 | 0.33 | 0.33 | NR | NR | NR | NR | NR | | | | |
| SHGC: $PF \ge 0.5$ | 0.40 | 0.40 | 0.40 | NR | NR | NR | NR | NR | | | | |
| Skylights (3% maximum) | | | | | | | | | | | | |
| U-factor | 0.75 | 0.75 | 0.65 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | | | | |
| SHGC | 0.35 | 0.35 | 0.35 | 0.40 | 0.40 | 0.40 | NR | NR | | | | |

TABLE 502.3 BUILDING ENVELOPE REQUIREMENTS: FENESTRATION

NR = No requirement.

PF = Projection factor (see Section 502.3.2).

4. Identify a significant change within Chapter 5 Commercial Energy Efficiency then describe, in your opinion, the reason for these changes to the code. Discuss.

5. List the changes to Chapter 5 that added new provisions to the IECC.

Answers to Knowledge Review

- 1. Yes. Any provisions that are indicated as "mandating" in chapters 4 or 5 apply to buildings where "above code" programs have been adopted.
- 2. 402.4.2 Airsealing
 - 402.4.3 Fireplaces
 - 403.11 Pools
 - 404.1 Lighting equipment
- 3 Climate zones 1, 2, 3, and 4 (except marine)
- 4. Table 502.2(1) now contains separate changes for Group R
- 5. 502.1.2, Table 502.1.2 U-Factor alternative
 - 502.5 Roof reflectance
 - 503.2.10 Airsystem design and control
 - 503.2.11 Heating outside a building



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