2009 ICC Building Code

- Publish date, Feb, 2009
- Available at
  http://www.iccsafe.org/e/category.html
ICC Codes

- IBC
- IRC
- IECC
- Mechanical
- Electrical
International Codes Council Organization

ICC Building Codes

- Non-Profit
- Public Benefit Corporation
- Owned and governed by members:
  - Units of city, county and state governments

Membership is

- Voluntary
- Consists of:
  - Local and state building department officials
  - Engineers
  - Trade association
  - Building material organization
  - Suppliers
  - Research organizations
Code Change Approval
- Anyone may submit
- Identify code and section to be reviewed
- Information and reason for proposed change

Vote by members at annual conference

Final action published
- Annual supplements
- Triennial model code editions
ICC BUILDING CODES

- Assure minimum level of construction quality
- Consistent standards in construction quality
- Common understanding of what is required
- Enforced by local building officials
ICC Code Changes
Related to SPF Industry

- Code changes approved as submitted
- Code changes approved as modified
EC 6
Approve as Submitted

- IECC Section 103.1 Above code programs:

- When a code official is approving an “above code” energy efficiency program, that the requirements identified as “mandatory” in chapters 4 & 5 shall be met.
EC 15
Approved as Modified

- IECC: Revises table 402.1
- IRC: Revises table N 1102.1

- Add: **R-19 batts** compressed into a nominal 2 x 6 cavity so that the R value is reduced by R-1 or more shall be labeled with the compressed R Value in addition to the full thickness R Value.
EC 28
Approved as Modified

- IECC: Revises tables 402.1.1 & 402.2
- IRC: Revises table 1102.1 and 1102.1.3

Increases R Values:

- Zones Marine 4 & zones 5-6 to R 20 or 13 + 5
  and
- Zones 7-8 to R 21
- (note: original proposal allowed the use of SPF and cellulose in 2x6 with R 19 or more)
EC 33
Approved as Submitted

- IECC: Revises tables 402.1.1 & 402.1.
- Increases basement insulation in Zones 6-8 To R 15 (continuous) or R 19 between studs
- Lowers U Factor to 0.50 in same zones
EC 35
Approved as Submitted

- IECC: Revises tables 402.1.1 and 402.1.
- Zones 7-8
- Increases Floor R values to R 38
- Lowers U Factors to U 0.028
EC 36 Part 1: Approved as Submitted

- IECC: Revises tables 402.1.1 & 402.1.3
- IRC: Revises tables 1102.1 & 11.2.1.2

- Increase basement insulation
- Zone 3: R 5 (continuous), R 13 within wall cavity

- Lowers U Factor of basement wall
- Zone 3: U 0.091
Footnote F: basement wall insulation is not required in warm-humid locations as defined by Figure 301.1 and Table 301.1.
EC 37 Part 1:
Approved as Modified

- IECC: Revises footnote D of Table 402.1.1
- IRC: Revises footnote D of Table 1102.1

- R-5 shall be added to the required slab edge R values for heated slabs. (existing language)
- “Insulation depth shall be 2 ft in zones 1-3 for heated slabs or the depth of the footing whichever is less” (new language)
EC 46
Approved as Submitted

- IECC: Revises Section 402.2; Ceilings without attic spaces

- Existing code allows R 30 in cathedral ceilings areas which require more than R 30 but doesn’t have space. Limits to 500 sq ft.

- New language adds “20% of total insulated ceiling area, whichever is less”
EC 60
Approved as Modified

- **IECC**: Revises table 402.4.1
- **IRC**: Revises table N 1102.4

- Adds rim joist junctions to list of areas that require air sealing
EC 99
Approved as Submitted

- IECC 404.3 Performance based compliance

- Allows compliance based on energy costs instead of energy usage
EC 101
Approved as Submitted

- IECC 404.4.3
  - Adds requirement that code official can require documentation of actual values in software calculations for the proposed design
FS 177
Approved as modified

- Moves the whole vapor retarder section into the structural section of the IBC and the IRC (from the IECC)

- Specifically lists closed SPF as an acceptable material to be used with a Class III vapor retarder (dependent on insulation values comparable to exterior sheathing in each zone.)
FS 97 Approved as Submitted

- IBC Section 712.4.2.1

- Clarifies fireblocking language and requirements for using combustible materials in a fire blocking assembly (such as SPF)

- “the annular space is filled to resist the free passage of flame and the products of combustion with an approved noncombustible material or with a fill, void or cavity material that is tested and classified for use in through-penetration firestop systems.”
S 35
Approved as Submitted

- Revises IBC 1507.14.2 & IRC 905.14.2

- Corrects a mistake in the roofing section code allowing the use of SPF complying with ASTM C 1029 to SPF shall comply with ASTM C 1029 Types III & IV
S-37
Approved as Submitted

- IBC 1507.15.2 (Roofing)
- IRC R 905.15.2 (Roofing)

- Adds ASTM D 6947, Moisture Cured Polyurethane Coatings Used in SPF Roofing as an acceptable coating used in SPF roofing.
Automatic Sprinklers

- Automatic sprinklers are required in townhouses beginning in 2009 and one and two story dwellings beginning in 2011.

- Retroactively, all non-sprinklered Group 1-2 occupancies will require automatic sprinklers (theaters, night clubs, restaurants, bars, etc.)
What did not pass

- Increasing attic insulation to R 60 in colder climates and R 49 in mixed climates and R 38 in warm climates
- Requiring FTC rated R value on sheathing for the specific thickness every insulation application
- Specific criteria for testing and determining air barrier assemblies