IBC Scope/IECC
Commercial
2018 IECC [CE]
ASHRAE 90.1-2016

2018 IECC (CE)
All sections designated as "mandatory"
+ one of the following options

Buildings other than:
- One and two family dwellings and townhouses
- Groups R-2, R-3, and R-4 three stories or less

ASHRAE 90.1-2016

ENERGY CODE COMPLIANCE PATHS

Prescriptive
- Building Envelope (C402)
- Building Mechanical Systems (C403)
- Service Water Heating (C404)
- Electric Power and Lighting Systems (C405)
- Additional Efficiency Package Options (C406)
- Commissioning (C409)

Prescriptive with Envelope Tradeoffs
- Same as above + envelope tradeoffs in COMcheck
- All systems documented in COMcheck

Performance
- Compliance for all systems using energy modeling per C407 Total Building Performance

Above Code Programs
- ENERGY STAR certification (residential occupancies only)

Prescriptive
- Building Envelope (Section 5.1-5.5, 5.7-5.9)
- HVAC (Section 6)
- Service Water Heating (Section 7)
- Power (Section 8)
- Lighting (Section 9)
- Other Equipment (Section 10)

Prescriptive + Envelope Tradeoff
- Building Envelope (Section 5.1-5.4, 5.6-5.9)
- Env. simulation in COMcheck, Enerplus, DOE-2, etc.
- Other systems same as above

Performance
- Compliance for all systems using software modeling:
  - Section 11: Energy Cost Budget Method
  - Appendix G: Performance Rating Method
IBC Scope/IECC
Residential
2018 IECC [RE]

One- and two-family dwellings and
townhouses four or more stories and
Groups R-2, R-3, and R-4
three stories or less

2018 IECC [RE]
All sections designated as mandatory (below)

Mandatory requirements:
Certificate (R401.3)
Air leakage (R402.4)
Controls (R403.1)
Duct sealing (R403.2)
Duct testing (R403.3)
Building cavities (R403.5)
Mechanical system pipe insulation (R403.4)
Heated water circulation and temperature maintenance systems
(R403.6.1)
Mechanical ventilation (R403.6)
Equipment sizing and efficiency rating (R403.7)
Systems serving multiple dwelling units (R403.8)
Snow melt and ice system controls (R403.9)
Pvks and permanent spurs (R403.10)
Portable spars (R403.11)
Lighting equipment (R404.1)

Prescriptive
Building Thermal Envelope (R402)
Systems (R403)
Electric Power & Lighting (R404)

Prescriptive with Envelope Tradeoffs
Same as above +
Envelope tradeoffs in REScheck

Performance
Simulated Performance Alternative (R405)
Software modeling in REMRate or Ekotrope

Energy Rating index
HERS Index ≥ 62
Software modeling in REMRate or Ekotrope

Above code programs
ENERGY STAR certified
or
PESCO New Home Rebates approved
One- and two-family dwellings, townhouses three stories or less

2015 IECC [RE]
All sections designated as mandatory (below)

+ one option to the right

Mandatory requirements:
Certificale (R401.3)
Air leakage (R402.4)
Controls (R403.1)
Duct sealing (R403.3.2)
Duct testing (R403.3.3)
Mechanical system pipe insulation (R403.4)
Heated water circulation and temperature maintenance systems (R403.5.1)
Mechanical ventilation (R403.6)
Equipment sizing and efficiency rating (R403.7)
Systems serving multiple dwelling units (R403.8)
Snow melt and ice system controls (R403.9)
Pool and permanent spas (R403.10)
Portable spas (R403.11)
Lighting equipment (R404.1)

Prescriptive
Building Thermal Envelope (R402)
Systems (R403)
Electric Power & Lighting (R404)

Prescriptive with Envelope Tradeoffs
Same as above +
Envelope tradeoffs in REScheck

Performance
Simulated Performance Alternative (R405)
Software modeling in REMRate or Ekotrope

Energy Rating Index
HERS Index ≤ 62
Software modeling in REMRate or Ekotrope

Above code programs
ENERGY STAR certified or
PESCO New Home Rebates approved