

IBC Scope/IECC Commercial

2018 IECC Commercial [CE] | ASHRAE 90.1



Energy Code Questions?

Email: energycodesma@psdconsulting.com

Call: 855-757-9717 (toll free)

Visit: www.masssave.com/energycode

Start Here

Is your building type listed below?

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

No **Yes** See 2018 IECC [RE]

Is the project in a Stretch Code Community?

Yes **No**

Is this a New Construction project?

Yes **No**
See Chapter 5 for exceptions

Is your building >100,000 sqft or a supermarket, laboratory, or conditioned warehouse >40,000 sqft?

Yes **No**



- Prescriptive**
- Building Envelope (Section 5.1-5.4, 5.5 or 5.6, 5.7-5.9)
 - HVAC (Section 6)
 - Service Water Heating (Section 7)
 - Power (Section 8)
 - Lighting (Section 9)
 - Other Equipment (Section 10)
- Performance**
- Section 11: Energy Cost Budget Method or Appendix G: Performance Rating Method^{2,3}
 - Mandatory Sections 5.4, 6.4, 7.4, 8.4, 9.4, 10.4
- Prescriptive**
- Building Envelope (C402)
 - Building Mechanical Systems (C403)
 - Service Water Heating (C404)
 - Electric Power and Lighting Systems (C405)
 - Additional Efficiency Package Options (C406)
 - Commissioning (C408)
- Performance**
- Energy Rating Index (ERI) for Multi-family Buildings (C407.1.1) and ERI-based Compliance (C407.3) **OR** Passive House or PHIUS (C407.1.2)
- Plus 3 Additional Options** ⊕
- Rooftop Solar Readiness (C402.3)
 - Electrical Power and Lighting Systems (C405)
 - Compliance Software Tools (C407.4)
 - Documentation (C407.5)
 - Verification by Approved Agency (C407.6)
 - Building Commissioning (C408)

Stretch Code^{1,4}
10% improvement over ASHRAE 90.1-2013 Appendix G²

Plus 3 Additional Options ⊕

C406.1. Choose 3 Additional Efficiency Package Options:

- More efficient HVAC
- Reduced lighting power density
- Enhanced lighting controls
- On-site renewable energy
- Dedicated outdoor air system
- High-efficiency service water heating
- Enhanced envelope performance
- Reduced air infiltration
- Renewable space heating
- Type IV heavy timber construction

¹ COMcheck documentation required for all compliance paths
² Site or source method may be used per MA C401.2.2
³ Additional Efficiency Package Options must be included in the standard reference design
⁴ R-use buildings ≤4 stories may comply with the residential stretch code (AA103.1)