OHIO ENERGY COMPLIANCE FLOWCHART (Jan. 2017)

Occupancy?

All buildings other than
Detached 1, 2, or 3 family
dwellings and their accessory structures

Ohio Building
Code (OBC) Chapter 13

Commercial building meaning:
2. Group R-1
3. Multi-family structures (R-2, R-3, and R-4 > 3 stories above grade plane)

Residential building meaning:
Groups R-2 and R-4 < 3 stories above grade plane

Residential building* meaning:
Groups R-2, R-3 and R-4 > 3 stories above grade plane

Occupancy?

Detached 1, 2, and 3 family dwellings and their accessory structures

2013 Residential Code of Ohio (RCO) Chapter 11
(based upon 2009 IRC w/DOE & Ohio changes) Section 1101.2

IECC 2009 with amendments in
RCO Section 1101.2.2

RCO 2012 Simplified Prescriptive Method

RCO 2012 Total UA Alternative Method

RE/Check
(select 2009 IECC as code)

IECC 2009 - Chapter 4
Mandatory Provisions (Sections 401, 402.1, 402.1.4, 402.2, 402.2.3, and 403.3-403.9)

RCO Section 1101.2.1

IECC 2012 – Chapters R1-5
Mandatory Provisions (Sections 401, 402, 402.5, 403.1, 403.2.2, 403.2.3, and 403.3-403.9)

RE/Check
(select ASHRAE 90.1-2010 as code)

ASHRAE 90.1-2010
Scope of standard includes all buildings except low-rise residential buildings meaning:
2. Group R-1
3. Multi-family structures (R-2, R-3, and R-4 > 3 stories above grade plane)

ASHRAE 90.1-2010
Section 5.6: Building Envelope Tradeoff Option (allows trade-offs between base envelope and components only)

ASHRAE 90.1-2010
Sections 6-10: Prescriptive HVAC, Water Heating, Power, and Lighting requirements

ASHRAE 90.1-2010
Section 11: Energy Cost Budget Method-Whole Bldg Performance Option (allows trade-offs between all building systems)

ASHRAE 90.1-2010

IECC 2012
Prescriptive Approach
High Performance HVAC or Reduced Lighting Power or On-Site Renewable

IECC 2012
Sections C402-C405

BLAST, DOE-2, EnergyGuage Summit Premier, Trane Trace 700, Carrier HAP, or other simulation tool that demonstrates code compliance.

IECC 2012
Section C407
Total Bldg Performance (including 85% bldg energy cost test)

BLAST, DOE-2, EnergyGuage Summit Premier, Trane Trace 700, Carrier HAP, or other simulation tool that demonstrates code compliance

RE/Check
(select ASHRAE 90.1-2010 as code)

RE/Check
(select IECC 2012 as code)

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RE/Check
(select IECC 2012 as code)

RE/Check
(select IECC 2012 as code)

RE/Check
(select IECC 2012 as code)

REM/Design, REM/Rate, DOE-2, EnergyGuage USA, or other simulation tool that demonstrates code compliance.

* As defined in the ASHRAE 90.1 & IECC