

**RESIDENTIAL CODE OHIO ENERGY COMPLIANCE PATH OPTIONS FOR CLIMATE ZONE 5**

Compliance shall be demonstrated by meeting the requirements of one of the following options

DESCRIPTION	OPTION 1 2009 IECC	OPTION 2 RCO 1101-1104	OPTION 3 RCO 1105 (OHBA)		PROPOSED HOUSE AS DESIGNED
			OPTION 3A OHBA Path 1	OPTION 3B OHBA Path 2	
Minimum Fenestration U-Factor (all glazed fenestration except skylights)	0.35	0.35	0.32	0.32	
Skylight Fenestration	0.60	0.60	0.60	0.60	
Ceiling R Value	38	38	49	49	
Wood Framed Walls R Value	20 or 13 + 5*	20 or 13 + 5*	15 or 13 + 3*	13	
Mass Wall R Value (i.e. above grade walls of concrete block, ICF, solid timber logs, etc...)	13/17	13/17	13/17	13/17	
Framed Floor R Value	30 **	30 **	30 **	30 **	
Basement Wall R Value	10/13 *** (full)	10/13 *** (full)	10/13 *** (min. 4 ft)	10/13 *** (min. 4 ft)	
☒ Slab R Value	10 @ 2 ft.	10 @ 2 ft.	10 @ 2 ft.	10 @ 2 ft.	
Crawl Space wall R Value	10/13 ***	10/13 ***	10/13 ***	10/13 ***	
Blower Door Test Required	Yes ©	Yes ©	Yes	Yes	
Blower Door Test Max. Values	≤ 7 ACH or Visual Inspection Checklist		≤ 6 ACH	≤ 6 ACH	
Ducts must be tested for tightness (IECC 403.2.2).	Yes †	Yes †	Yes †	Yes †	
Duct Test Max. Values	Leakage to Outside ≤ 8 CFM Total Leakage ≤ 12 CFM		LTO ≤ 6 CFM TL ≤ 9 CFM	LTO ≤ 4 CFM TL ≤ 6 CFM	
✕ Supply ducts in attic shall be <i>sealed and insulated</i> to a minimum of	R-8	R-8	R-8	R-8	
✕ All other ducts (outside the building envelope) shall be <i>sealed and insulated</i> to a minimum of	R-6	R-6	R-6	R-6	
Air Sealing (IECC 402.4) of Plates, Walls, Windows, Doors, Utility Penetrations, Attic Access, Recessed	Yes	Yes	Yes	Yes	
✓ Wood-burning fireplaces shall have gasketed doors and outdoor combustion air	Yes	Yes	Yes	Yes	
Access doors from conditioned spaces to unconditioned space shall be weather-stripped	Yes	Yes	Yes	Yes	
Circulating hot water systems piping shall be insulated to at least R- per Section 1103.4	R-2 (all)	R-2 (all)	R-2 first 5 ft	R-2 first 5 ft	
Mechanical system piping (fluids above 105 F or below 55 F) must be insulated to a minimum of	R-3	R-3	R-3	R-3	
Minimum percentage of high efficacy lighting fixtures	50%	50%	75%	75%	
Programmable thermostat required	Yes	Yes	Yes	Yes	
Permanent certificate shall be posted on the electrical panel	Yes	Yes	Yes	Yes	
Furnace Efficiency Rating	Equipment Sizing shall meet Section M1401.0 of the IRC				
Air Conditioner SEER Rating					

**NOTES:**

- \* "13+5" means R-13 cavity insulation plus R-5 insulated sheathing (likewise for "13+3")
  - \*\* Or insulation sufficient to fill the framing cavity
  - \*\*\* 10/13 means R-10 continuous insulation (on the interior or exterior) or R-13 cavity insulation at the interior of the basement/crawl wall
  - ☒ For heated slabs R-5 shall be added to the required slab edge R-values
  - © **Exception:** Compliance may be determined by a visual inspection based on the criteria listed in IECC Table 402.4.2 (in lieu of blower door)
  - † **Exception:** Duct tightness test is not required if the air handler and all ducts are located within conditioned space
  - ✕ Building framing cavities shall not be used as supply ducts
  - ✓ **Exception:** Pre-Manufactured fireplaces must be installed per manufacturer's instructions (which may or may not include gasketed doors and outside air)
- (OHBA) Ohio Home Builders Association  
 (RCO) Residential Code of Ohio  
 (IECC) International Energy Conservation Code

Builder: \_\_\_\_\_ Project Address: \_\_\_\_\_ City: \_\_\_\_\_

Ohio Duct Tightness - Total Leakage Test

Pathway	Test Stage - Rough - Air Handler Installed
IECC Prescriptive	6 cfm per 100 sq. ft. of conditioned floor area
OH 1101 Prescriptive	6 cfm per 100 sq. ft. of conditioned floor area
OHBA Option 1	6 cfm per 100 sq. ft. of conditioned floor area
OHBA Option 2	4 cfm per 100 sq. ft. of conditioned floor area
	Test Stage - Rough - No Air Handler Installed
IECC Prescriptive	4 cfm per 100 sq. ft. of conditioned floor area
OH 1101 Prescriptive	4 cfm per 100 sq. ft. of conditioned floor area
OHBA Option 1	4 cfm per 100 sq. ft. of conditioned floor area
OHBA Option 2	3 cfm per 100 sq. ft. of conditioned floor area
	Test Stage - Final
IECC Prescriptive	12 cfm per 100 sq. ft. of conditioned floor area
OH 1101 Prescriptive	12 cfm per 100 sq. ft. of conditioned floor area
OHBA Option 1	9 cfm per 100 sq. ft. of conditioned floor area
OHBA Option 2	6 cfm per 100 sq. ft. of conditioned floor area

Ohio Duct Tightness - Leakage to Outside Test

Pathway	Test Stage - Final
IECC Prescriptive	8 cfm per 100 sq. ft. of conditioned floor area
OH 1101 Prescriptive	8 cfm per 100 sq. ft. of conditioned floor area
OHBA Option 1	6 cfm per 100 sq. ft. of conditioned floor area
OHBA Option 2	4 cfm per 100 sq. ft. of conditioned floor area
IECC Performace	As tested - Reference home is configured to 8 cfm per 100 sq. ft. of conditioned floor area.