MaGrann ASSOCIATES

Your Options

When complying with Philadelphia Code

Is your building 3 stories or less?
(4 stories or less for Single Family/Duplex/Townhouse)

Yes

Single Family/Duplex/Townhouse?

Yes

IRC Code

- **2018 PA Alternative Energy Path** → **1a = Prescriptive Path**
- **2015 IECC Residential** → **1b = Prescriptive Path**

No

Other Multifamily?

Yes

IBC Code

- **2018 IECC Residential** → **1b = Prescriptive Path**, **2 = Performance Path**, **3 = ERI Path**

No

Mixed Use?

Yes

Residential Space → **IBC Code**

Non-Residential Space → **IBC Code**

No

All Non-Residential and Residential

IBC Code

- **2018 IECC Commercial** → **1a = Prescriptive Path**, **1b = Total Building Performance (C407) Path**
- **2016 ASHRAE 90.1** → **2a = Prescriptive Path**, **2b = Energy Cost Budget Path**

PATH:	1a.) Prescriptive	1b.) Prescriptive	2.) Performance	3.) ERI Path
COMPLIANCE TOOL:	Prescriptive Compliance Report Including Energy Enhancement Option. No UA tradeoffs.	RESCheck or HERS Software IECC UA Compliance report	HERS Software - IECC Performance Report	HERS Software HERS Index
DELIVERABLE:	Compliance Report, Inspection Checklist + Optional Plan Review for Air Barrier Details	Compliance Report, Inspection Checklist + Optional Plan Review for Air Barrier Details	Compliance Report, Inspection Checklist + Optional Plan Review forAir Barrier Details	Compliance Report, Inspection checklist + Optional Plan Review for Air Barrier Details
VERIFICATION:	Building Envelope Checklist by Code Official or 3rd Party (as rqd by CO) at rough and finish	IECC Building Envelope Checklist by Code Offical or 3rd Party (as rqd by CO) at Rough and Finish	HERS Type Verification at Rough and Finish	HERS Rating
TESTING:	Air Infiltration Test at Finish (≤ 5ACH50 for PA) Total duct Leakage Test at Rough or Final (4CFM/100 SF or 3CFM/100 SF w/o AH) Unless all Ducts in Conditioned Space	Air Infiltration Test at Finish (≤ 5ACH50 for PA) Total Duct Leakage Test at Rough or Final (4CFM/100 SF or 3CFM/100 SF w/o AH) Unless all Ducts in Conditioned Space	Air Infiltration Test at Finish (≤ 5ACH50 for PA) Duct Leakage Test at Rough or Final, Leakage to Outside Test at Final (not mandatory target) to Take Credit for Air Infiltration Reduction	Air Infiltration Test at Finish (≤ 5ACH50 is mandatory for PA) Duct Leakage Test at Rough or Final, Leakage to Outside Test at Final (not mand. target) to Take Credit for Air Infiltration Reduction
DELIVERABLE:	Checklists if 3rd Party, Signed Test Results	Checklists if 3rd Party, Signed Test Results	As-Built Compliance/Signed Test Reports	Verified HERS Rating Reports

PATH:	1a.) Prescriptive	1b.) Total Building Performance (C407)	2a.) Prescriptive	2b.) Energy Cost Budget
COMPLIANCE TOOL:	COMCheck + Additional Efficiency Package (C406) - HVAC, Reduced LPD, Lighting Controls, On-site Renewables, DOAS, DHW	eQuest, Energy +, Open Studio, Sefaira to Demonstrate Annual Energy Cost < Annual Energy Cost of Reference Design.	COMCheck (Additional Efficiency Package not required)	eQuest. ASHRAE 90.1 ECB Tool can be Used to Compile Information.
DELIVERABLE:	Compliance Reports + Select Additional Efficiency Package (IECC Prescriptive only) + Optional Plan Review for Air Barrier Continuity + Optional Cx Plan or Cx Plan Review			
VERIFICATION:	Verify Continuous Air Barrier Across Building Envelope in Preparation for Air Infiltration Test. Optional Field Cx for Mech, Service Water Heating and Lighting			
TESTING:	Optional Air Infiltration Test (C402.5) to Meet Target of 0.40 CFM/sq ft of Building Thermal Envelope.			
DELIVERABLE:	Signed Test Results, Optional Preliminary and Final Cx Reports or Field Verification Reports			

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