

Plan Review and Inspection Form – Climate Zone 5

Building ID: _____ Date: _____ Name of Plans Examiner: _____

Building Contact: Name: _____ Phone: _____ Email: _____

Building Name & Address: _____

Subdivision: _____ Lot #: _____

State: _____ County: _____ Jurisdiction: _____

Choose a compliance path (all paths are based on 2009 editions):

- IECC/IRC Ch. 11 Prescriptive
- IECC – UA Alternative (e.g. REScheck)ⁱ
- IECC – Simulated Performance Alt. (e.g. REM/Rate)ⁱⁱ
- Pennsylvania Alternative (PA-Alt)

Yes | No Will the basement be conditioned?ⁱⁱⁱ

Building Thermal Envelope Compliance				
Component	Required R-value ^{iv}	R-value on plans ^v	Reviewer verification: Complies?	Inspector verification: Complies?
Ceilings				
Ceiling with attic space (flat ceiling)	R-38		Y N NA	Y N NA
Ceiling without attic space (rafters)	R-30		Y N NA	Y N NA
Above grade framed walls				
Typical above grade walls	R-20 or 13+5		Y N NA	Y N NA
Attic knee walls	R-20 or 13+5		Y N NA	Y N NA
Rim/band joists	R-20 or 13+5		Y N NA	Y N NA
Walkout portion of basement	R-20 or 13+5		Y N NA	Y N NA
Mass walls (>50% above grade)				
1 st through 3 rd floors	13/17		Y N NA	Y N NA
Enclosing a conditioned basement	13/17		Y N NA	Y N NA
Floors				
Over outside air (e.g. cantilever)	R-30		Y N NA	Y N NA
Over vented crawl space	R-30		Y N NA	Y N NA
Over unconditioned basement ^{vi}	R-30		Y N NA	Y N NA
Foundation				
Basement walls	R-10/13		Y N NA	Y N NA
Unvented crawl space walls	R-10/13		Y N NA	Y N NA
Slabs on grade ^{vii}	R-10, 2 ft.		Y N NA	Y N NA

- The highest window U-factor listed on the plans is less than or equal to 0.35. 15 ft² of windows are exempt, otherwise a tradeoff or performance approach must be used.

Choose and air sealing verification option (choose 1):

- Visual inspection (see attached checklist)^{viii}
- Blower door test **If chosen:** Proposed ACH50 (perf. path only) ____ Field verified ACH50 ____ (7 ACH50 max)

Ducts:

Yes | No Is the air handler or any portion of the duct system located outside of conditioned space? If yes, complete the rest of this section:

- Supply ducts in ventilated attics have an R-value of at least **R-8**, as indicated on the plans
- Ducts outside of conditioned space have an R-value of at least **R-6**, as indicated on the plans

Choose the proposed type of duct leakage test:	Duct leakage rate in cfm per 100 ft ² conditioned floor area		
	Required Rate <i>(Prescriptive)</i>	Proposed Rate <i>(Performance path only)</i>	Field verified Rate <i>(from report provided by permit holder)</i>
<input type="checkbox"/> Rough-in test with air handler	6 cfm/100 ft ²		
<input type="checkbox"/> Rough-in test without air handler	4 cfm/100 ft ²		
<input type="checkbox"/> Post-construction test – leakage to outdoors	8 cfm/100 ft ²		
<input type="checkbox"/> Post-construction test – total leakage	12 cfm/100 ft ²		

Equipment sizing:

- Manual J heating and cooling load calculation report is attached
- Manual S equipment sizing report is attached
- Cooling capacity per Manual S _____ Proposed cooling capacity _____
- Proposed cooling capacity is less than or equal to 1.15 times^{ix} the size specified by Manual S report, or next nominal size

Lighting:

- Building plans indicate that at least 50 percent of the bulbs in permanently installed fixtures will be high-efficacy

Details and notes:

- Required details or notes, when applicable (attached are examples of details that may be used)
 - Slab on grade with insulation extending downward from the top of the slab
 - Insulated corners: Framing allows space for insulation
 - Insulated headers: Insulation installed in headers as space allows
 - Fireplaces on exterior walls: Air barrier between insulation and fireplace insert
 - Dropped ceiling/soffit: Air barrier aligned with insulation
 - Porch roofs: Exterior wall sheathing extends behind intersection with porch roof
 - Skylight shafts: Shaft walls are insulated and include attic-side air barriers
 - Showers/tubs on exterior walls: Air barrier located between wall insulation and the shower/tub
 - Knee walls: Air barrier on attic side of knee wall, top plate installed, blocking between floor joists under knee wall
 - Cantilevered floors: Insulated with solid air barriers underneath insulation and blocking between joists
 - Attic access hatches: Weatherstripped and insulated to the same R-value as the surrounding surface

ⁱ Applicant must provide the compliance certificate and inspection checklist generated by REScheck (or other approved UA calculation tool)

ⁱⁱ Applicant must provide compliance certificate and inspection checklist, including proposed infiltration and duct leakage rates. To receive a certificate of occupancy, blower door and duct leakage test results must be provided to verify that the leakage rates are not exceeded.

ⁱⁱⁱ If the basement will be conditioned, a basement wall R-value must be listed

^{iv} Required R-values may vary when using the UA Alternative or Simulated Performance Alternative. The applicant must attach a separate compliance certificate and inspection checklist

^v May be marked NA for Not Applicable

^{vi} A minimum of R-19 may be installed when using the Pennsylvania Alternative

^{vii} Slab insulation is required anywhere the space above the slab is conditioned and the floor is location 12" or less below grade. This may include portions of walkout basements. A half-inch thermal break instead of a full R-10 is allowed under the Pennsylvania Alternative

^{viii} The code official may require an approved party independent from the installer of the insulation to inspect the air barrier and insulation. A list of HERS Raters participating in the Penn Energy Codes Program can be found at pennenergycodes.com.

^{ix} The cooling capacity of a heat pump may be 1.25 times the size specified by Manual S report