

Plan Review and Inspection Form – Climate Zone 4

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/Ch. 11 IRC Prescriptive
 - IECC – UA Alternative (e.g. REScheck)ⁱ
 - IECC – Simulated Performance Alternative (e.g. REM/Rate)ⁱⁱ
 - Pennsylvania Alternative (PA-Alt)
- Choose and air sealing verification option (choose 1):
 - Visual inspection (see attached checklist)ⁱⁱⁱ
 - Blower door test If chosen: Proposed ACH50 (performance path only) _____ Verified ACH50 _____
- Will the basement be conditioned?^{iv} Yes No

Building Thermal Envelope Compliance				
Component	Required aR-value ^v	R-value on plans ^{vi}	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-13		Y N NA	Y N NA
Attic knee walls	R-13		Y N NA	Y N NA
Rim/band joists	R-13		Y N NA	Y N NA
Walkout portion of basement	R-13		Y N NA	Y N NA
Mass walls (>50% above grade)				
1 st through 3 rd floors	5/10		Y N NA	Y N NA
Enclosing a conditioned basement	5/10		Y N NA	Y N NA
Floors				
Over outside air (e.g. cantilever)	R-19		Y N NA	Y N NA
Over vented crawl space	R-19		Y N NA	Y N NA
Over unconditioned basement ^{vii}	R-19		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 ^{viii}	R-10, 2 ft.		Y N NA	Y N NA

What is the highest proposed window U-factor (as shown or noted on the plans)?

Is the air handler or any portion of the duct system located outside of conditioned space?

If yes, list proposed duct insulation R-values and specify the method of duct leakage testing:

- Duct R-values:
 - Supply ducts in ventilated attics: R-_____
 - All other ducts outside of conditioned space: R-_____
- Duct leakage testing method:

		Duct leakage rate in cfm/100 ft ² CFA	
		Proposed Rate (Performance path only)	Verified Rate (from report provide by permit holder)
<input type="checkbox"/>	Rough-in test with air handler		
<input type="checkbox"/>	Rough-in test without air handler		
<input type="checkbox"/>	Post-construction test – leakage to outside		
<input type="checkbox"/>	Post-construction test – total leakage		

- 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: Y/N
- Lighting: Building plans indicate that at least 50 percent of the bulbs in permanently installed fixtures will be high-efficacy Y/N
- 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 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.

^{iv} If the basement will be conditioned, a basement wall R-value must be listed

^v 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

^{vi} May be marked NA for Not Applicable

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

^{viii} 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

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