	Residential Energy: Architectural Plan Review Checklist		
Information on Construction Documents			
	A continuous building thermal envelope is represented on the construction drawings		
	Typical cross sections clearly indicate insulation R-value, type, and material for each unique assembly type		
	Compliance path is clearly noted on the plans or accompanying documentation. Otherwise, assume prescriptive.		
	Notes indicate the Air Barrier and Insulation Installation Checklist will be completed by an approved party		
	Notes indicate the <i>Duct and Envelope Testing Certificate</i> will be completed by an approved party		
	Indicate the compliance path selected by the applicant and complete the appropriate section below		
☐ Pr	escriptive		
Preso	Prescriptive Path (with no tradeoffs)		
	R-values and U-factors on plans meet Table 402.1.2 for Climate Zone 4 for each assembly		
Total UA Alternative: REScheck Reports			
	Compliance field says "PASSES"		
	Verify correct code edition		
	Address matches the plans		
	REScheck version 4.6.5 or higher		
	Each unique assembly type is listed (including cantilevered floors, floors over garages, and bump-out ceilings)		
	Listed R-values and U-factors match plans		
	Cavity insulation R-values are not listed in the Continuous R-value column		
	Signed by the person completing the report		
Simu	lated Performance Alternative Reports		
	For IRC-scope buildings, 2015 IECC Performance Report is present		
	For IBC/IECC [RE] buildings, 2018 IECC Performance Report is present		
	Annual Energy Cost of Design Home \leq IECC Home in the "SubTotal – Used to Determine Compliance" line (Note: Report may fail, provided the only non-compliant item is the <i>Home Infiltration Check</i> and the design infiltration value is \leq 5.0 ACH50)		
	Energy Code Inspection Checklist is present		
	Report contains the name of the individual completing the report		
	Report contains the name and version of the software tool (REM/Rate or Ekotrope)		
	Address matches the plans		
	Each unique assembly type is listed (including cantilevered floors, floors over garages, and bump-out ceilings)		
	Conditioned floor area matches plans		
	Listed R-values and U-factors match plans		
Ener	gy Rating Index Reports		
	For IRC-scope buildings, 2015 IECC Energy Rating Index Report is present		
	For IBC-scope residential buildings, 2018 IECC Energy Rating Index Report is present		
	ERI \leq 62 (Note: The 2015 ERI Report may fail provided the only non-compliant items are: (1) <i>The Home Infiltration Check</i> where the design infiltration value is \leq 5.0 ACH50, and (2) the ERI score provided it is \leq 62.)		
	Energy Code Inspection Checklist is present		
	Report contains the name of the individual completing the report		
	Report contains the name and version of the software tool (REM/Rate or Ekotrope)		
	Address matches the plans		
	Each unique assembly type is listed (including cantilevered floors, floors over garages, and bump-out ceilings)		
	Conditioned floor area matches plans		
	Listed R-values and U-factors match plans		
Abov	Above Code Program		
	Preliminary HERS report and statement indicating project will receive ENERGY STAR certification or PECO New		
	Home Rebates report and statement indicating project will meet all program requirements		

	Residential Energy: Mechanical Plan Review Checklist			
HVAC Equipment Design Form				
	HVAC Design Worksheet is present and completed (both sides)			
HVA	HVAC System Sizing and Selection (Page 1)			
	Address matches construction documents			
	Design heating and cooling loads match the Manual J report			
	Cooling system make and model match specs			
	Cooling system output capacity is ≤ 1.15X (1.25X for heat pumps) the design cooling load or next nominal size			
	Heating system make and model match specs			
	Heating system output capacity is ≤ 1.40X the design heating load or next nominal size			
	Air handler specs contain manufacturer's designation of ≤ 2% air leakage (ASHRAE 193)			
Who	le-House Mechanical Ventilation Design Worksheet (Page 2)			
	Address matches construction documents			
	Conditioned floor area and number of bedrooms match plans			
	The correct ventilation rate has been circled based on the floor area and number of bedrooms			
	Intermittent fans only – Required ventilation airflow has been multiplied by the appropriate factor			
	Rated fan airflow meets or exceed required air flow			
	HVI-rated fan efficacy is ≥ 1.4 cfm/watt for fans with < 90 cfm maximum airflow			
	HVI-rated fan efficacy is ≥ 2.8 cfm/watt for fans with ≥ 90 cfm maximum airflow			
	Rated fan airflow and HVI-rated fan efficacy match specs			
	Additional Information on Construction Documents			
	Construction documents indicate whether any portion of the HVAC system will be outside the building thermal			
	envelope. If yes, notes indicate that:			
	Duct leakage testing will be performed and DET form will be submitted to the inspector			
	Ducts ≥ 3" diameter will be insulated to ≥ R-8 in attics and ≥ R-6 elsewhere			
	Ducts < 3" diameter will be insulated to ≥ R-6 in attics and ≥ R-4.2 elsewhere			
	Programmable thermostat is specified			
	Building cavities are not used as ducts (IBC-scope buildings only)			
	Notes indicate HVAC pipe insulation is specified, R-3 minimum (e.g. hydronic systems, refrigerant lines)			

Plumbing Energy Code Requirements

R-3 pipe insulation is required if any of the following conditions exist (excludes Simulated Performance and ERI path):

- Piping ¾" or greater in nominal diameter (piping > " for IBC buildings)
- Piping serves more than one dwelling unit
- Piping is located outside the conditioned space
- There is piping from a water heater to a distribution manifold
- Piping is buried or located under a floor slab

Circulation systems (where present):

- System is provided with a pump (no gravity or thermosyphon systems)
- Controls installed to start and stop the pump based on demand for hot water within the occupancy

Residential Energy: Electrical Plan Review Checklist	
	≥ 75% of lamps in permanently installed fixtures are high-efficacy (CFL, LED, or T-8 or lower fluorescent tube), or
	≥ 75% of permanently installed lighting fixtures contain only high-efficacy lamps
	Fuel gas lighting systems do not have continuously burning pilot lights