

BOROUGH OF FOX CHAPEL
 401 FOX CHAPEL ROAD
 PITTSBURGH, PA 15238
 412-963-1100

PA State Uniform Construction Code
 Residential Energy Requirements

Simplified R-value and U-factor Requirements (Zone 5):

Fenestration U-Factor	Skylight U-Factor	Ceiling Value	Wall Value	Floor Value	Mass Wall	Basement	Slab Value	Crawl Value
0.32	0.55	R-49	R-20 or 13+5	R-30	13/17	R-15/19	R-10,2 feet	R-15/19

In place of the simplified requirements noted above, compliance with the energy provisions of the UCC can be achieved by utilizing the **2018 Pennsylvania Alternative Residential Energy Provisions (PHRC) - Central Zone**, or by submitting an energy analysis prepared by a licensed engineer or software analysis published by the United States Department of Energy (**RESCheck**).

Notes:

- Foundation wall is defined as having at least 50% of the wall below grade. Less than 50% of the wall below grade is not a foundation wall and shall meet the requirements for exterior walls.
- Slab Perimeter insulation shall extend 2 foot below or to the inside of the slab.
- Manufacturers R-values shall be marked on all insulation materials 12" wide or greater. Signed and dated certifications are accepted in place of marked insulation.
- Blown or sprayed insulation materials shall have depth markers at least every 300 square feet and shall be fixed to the rafters/trusses and shall face the attic access opening.
- Vapor barriers shall be required on the wall in winter side of exterior walls not ventilated for moisture control.
- A permanent certification shall be posted on or in the electrical panel. The certification shall list the R-values installed in or on ceiling/roof, walls, foundation, and ducts outside conditioned space; U- factors and type of efficiency of heating, cooling, and service water heating equipment.
- A minimum 75% of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps.
- Duct leakage test are typically preformed at rough frame. If all ducts are located inside the thermal envelope, then duct leakage test are not required.

Building permit applicants shall be required to submit detailed drawings identifying compliance with the energy provisions of the UCC. The following minimum details should be included.

1. Specific window sizing, manufacture, and u-factor
2. Proposed wall, ceiling, floor, foundation, and slab insulation R-Values
3. Proposed furnace efficiency