Alternative to Air Leakage Testing:

*Table **R41105** may be used as an alternative to conducting air leakage testing*

- Insulation & air barriers installed per manufacturer instructions
- Air-permeable insulation (fiberglass, rock wool, cellulose) not used for air sealing
- Closed-cell foam only insulation that also acts as an air barrier
- Continuous air barrier at thermal envelope — seal all breaks & joints
- Dropped ceilings, soffits, shafts, chases — capped with air-barrier lid and sealed
- Walls framed to allow insulation in corners & headers
- Wall insulation enclosed on 6 sides, including knee walls
- Batt insulation cut around pipes, wiring, and electrical boxes
- Seal all gaps/voids between conditioned & unconditioned spaces
- Rim joists — sealed air barrier or closed-cell spray foam
- Floor insulation in full contact with sheathing or lid below
- Cantilevers — air barrier installed on underside
- Rooms over garages — floor cavities fully insulated
- Penetrations sealed — recessed lights, electrical boxes, HVAC boots
- Electrical boxes — air barrier behind box or sealed (foam/caulk/gaskets)
- Exterior walls at fireplaces, tubs, showers — interior air barrier required



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How to meet code

R1101.3 Compliance Paths

Compliance with this chapter must be shown by one of the following:

R1101.3.1 Prescriptive Compliance

- Building thermal envelope meets or exceeds minimum R-values and maximum U-factors in Section R1102.2

R1101.3.2 Performance Compliance *(Verified at finale)*

- Use U.S. DOE REScheck, AND
- Proposed design performs ≥ 5% better than the Utah 2012 REScheck standard
- (shown on REScheck compliance certificate), OR
- Home achieves a HERS rating of 67 or better

Plan Check

R 1102.4

No modeling or performance-based documentation required

Insulation

R1102.2 Minimum Thermal Resistance

Minimum R-Value

- Above-Grade exterior walls R-21
- Ceiling/Roof assemblies R-38
- Floors over unconditioned space R-30
- Basement walls - R-10 continuous or R-13 cavity
- Windows and glazed doors - U-factor = 0.32
- Opaque doors mininmum U-factor = 0.6

R1104.2 Duct Insulation

- Ducts outside conditioned space must be insulated to minimum R-8
- Exception: ducts buried under concrete floors do not require insulation

Mechanical Ventilation

R1104.1.3.1

If the tested air leakage rate is:

- ≤ 3 air changes per hour (ACH)
  - Then the dwelling must include mechanical ventilation

Testing

R1105 Building Thermal Envelope Air Leakage Testing

(Blower Door Test)

Maximum air leakage rates shall not exceed:

- 5.0 air changes per hour

For multifamily construction:

- 6.0 air changes per hour

R1104.1 Duct Leakage Testing

- Duct systems in unconditioned attics must be tested for total air leakage.

Approved parties to conduct testing include:

- Parties certified by BPI or Resnet

- Licensed contractors who have completed training provided by blower door test equipment manufacturers or other comparable training.

R1104.1.1 Air Handler Installed

Maximum leakage:

- ≤ 6.0 CFM per 100 sq ft of conditioned floor area
- R1104.1.2 Air Handler NOT Installed

Maximum leakage:

- ≤ 5.0 CFM per 100 sq ft of conditioned floor area

Mechanical Room

R1103 Requirements

Mechanical rooms receiving combustion air from unconditioned space must:

- Be separated from unconditioned spaces