

RESIDENTIAL ENERGY CHECKLIST

| | MEASURES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|--|--|--------------------------------------|--------------------------------------|---|---|---|---|---|----------------------------------|---------------------------------------|----------------------------------|--------------------|--------------------|--|---|--|---|--------------------------------|---|--------------------------|---------------------------------|--------------------------------|--------------------------------|-------------------------|--------------------|---------------------|--|--|--|
| | Floors | | | Fenestration | | | | Walls | | Ceilings | | | HVAC | | Ltg. | | Misc. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Windows & sliding glass doors U-0.35 | Windows & sliding glass doors U-0.32 | Skylights ≤2% htd space flr area ^A | Skylights >2% htd space flr area U-0.60 | Exterior doors ≤28 ft ² U-0.54 | Exterior doors >28 ft ² U-0.20 | Doors w/>2.5ft ² glazing U-0.40 ^B | Above grade wall insulation R-21 | Above grade wall U-0.047 ^C | Below grade wall insulation R-15 | Flat ceilings R-38 | Flat ceilings R-49 | (1) Vaulted ceil. ≤50% htd flr area U-0.042 ^D | (1) Vaulted ceilings >50% htd flr area ^E | (2) Vaulted ceilings ≤50% htd flr area R-30A | (2) Vaulted ceilings >50% htd flr area ^F | Forced air duct insulation R-8 | 90% AFUE furnace, 8.5HSPF heat pump, 3.0COP ground source heat pump | Performance tested ducts | All interior ducts ^G | 50% fixtures – high efficiency | 75% fixtures – high efficiency | On-demand water heating | Solar photovoltaic | Solar water heating | | | |
| Additional Measure Path | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 High efficiency HVAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2a High efficiency ducts – certified-sealed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2b High efficiency ducts – all interior ^E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 High efficiency building envelope | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4a Zonal elec ht, ductless furn or ht pump-hi eff ltg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4b Zonal elec ht, ductless furn or ht pump-U-032 window & sl glass doors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4c Zonal elec ht, ductless furn or ht pump-improved ceilings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4d Zonal elec ht, ductless furn or ht pump-R24 wall | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 High efficiency windows/ceilings/lighting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 High efficiency windows/ceilings/water htg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 High efficiency water heating/lighting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 Solar photovoltaic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 Solar water heating | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

^A Skylights with vinyl, wood, or thermally broken aluminum frames and low-emissivity coatings shall be deemed to satisfy this requirement if total skylight area installed is 2% or less of total heated space floor area.

^B Hinged doors only – does not include sliding glass doors. Sliding glass doors are categorized with windows. Glazing that is either double pane with low-e coating on one surface, or triple pane shall be deemed to comply with this U-0.40 requirement.

^C Must have a U-factor of 0.047 or less. See Table N1104.1(2) for acceptable assemblies/U-factors.

^D R-38 standard scissored truss is U-0.042. 10-inch deep rafter vaulted ceiling with R-30 is U-0.033 and complies with this requirement.

^E Must have a U-factor of 0.031 or less. See Table N1104.1(2) for acceptable assemblies/U-factors.

^F Must have a U-factor of 0.025 or less. See Table N1104.1(2) for acceptable assemblies/U-factors.

^G Air handler must be sealed combustion-air unit with air supply ducted from outdoors and is located within the conditioned space when all-interior ducts are utilized.

INSTRUCTIONS FOR APPLICANT (party that is applying for permit)

- 1 Applicant must select the Additional Measure Path from the left-hand column for the project being submitted for building permit. Either circle the path or use a highlighter to mark the path being used for the project.
- 2 Make sure all copies of the plans and specifications contain all applicable Measure specifications as identified in the third row of the Checklist.
- 3 Make sure all copies of the plans and specifications contain all applicable Measure specifications identified in the third row of the Checklist.
- 4 Make sure all copies of the plans contain locations of all *permanently installed* lighting fixtures that are installed inside the building (house, garage, basement, etc) and attached on the outside of building. Identify on all plans those high efficiency fixtures being installed to meet new code requirements.
- 5 When High Efficiency HVAC equipment is used, identify the Make and Model number on plans or specifications to demonstrate compliance.

INSTRUCTIONS FOR PLANS EXAMINER (verifying compliance with new code)

- 1 Verify that the selected Additional Measure Path requirements are specified on the plans and specifications.
- 2 Check the appropriate box for each Measure after verifying that it has been included on the plans and/or specifications.
- 3 Note those measures that do not comply with code and have the applicant re-submit plans and/or specifications that specify code-complying requirements.

