Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/20/15

(9) Shower/tub on exterior wall: insulation exists between showers/tubs and exterior wall.

Sunrooms:

- ☐ Sunrooms that are thermally isolated from the building envelope have a maximum fenestration U-factor of 0.50 and the maximum skylight U-factor of 0.75. New windows and doors separating the sunroom from conditioned space meet the building thermal envelope requirements.

Materials Identification and Installation:

- ☐ Materials and equipment are installed in accordance with the manufacturer's installation instructions.
- ☐ Insulation is installed in substantial contact with the surface being insulated and in a manner that achieves the rated R-value.
- ☐ Materials and equipment are identified so that compliance can be determined.
- ☐ Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment have been provided.
- ☐ Insulation R-values and glazing U-factors are clearly marked on the building plans or specifications.

Duct Insulation:

- ☐ Supply ducts in attics are insulated to a minimum of R-8. All other ducts in unconditioned spaces or outside the building envelope are insulated to at least R-6.

Duct Construction and Testing:

- ☐ Building framing cavities are not used as supply ducts.
- ☐ All joints and seams of air ducts, air handlers, filter boxes, and building cavities used as return ducts are substantially airtight by means of tapes, mastics, liquid sealants, gasketing or other approved closure systems. Tapes, mastics, and fasteners are rated UL 181A or UL 181B and are labeled according to the duct construction. Metal duct connections with equipment and/or fittings are mechanically fastened. Crimp joints for round metal ducts have a contact lap of at least 1 1/2 inches and are fastened with a minimum of three equally spaced sheet-metal screws.
  Exceptions:

  Joint and seams covered with spray polyurethane foam.

  Where a partially inaccessible duct connection exists, mechanical fasteners can be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.

  Continuously welded and locking-type longitudinal joints and seams on ducts operating at less than 2 in. w.g. (500 Pa).
- ☐ All ducts and air handlers are located within conditioned space.

Heating and Cooling Equipment Sizing:

- ☐ Additional requirements for equipment sizing are included by an inspection for compliance with the International Residential Code.
- ☐ For systems serving multiple dwelling units documentation has been submitted demonstrating compliance with 2009 IECC Commercial Building Mechanical and/or Service Water Heating (Sections 503 and 504).

Circulating Service Hot Water Systems:

- ☐ Circulating service hot water pipes are insulated to R-2.
- ☐ Circulating service hot water systems include an automatic or accessible manual switch to turn off the circulating pump when the system is not in use.

Heating and Cooling Piping Insulation:

- ☐ HVAC piping conveying fluids above 105 degrees F or chilled fluids below 55 degrees F are insulated to R-3.

Swimming Pools:

- ☐ Heated swimming pools have an on/off heater switch.
- ☐ Pool heaters operating on natural gas or LPG have an electronic pilot light.
- ☐ Timer switches on pool heaters and pumps are present.
  Exceptions:

  Where public health standards require continuous pump operation.

  Where pumps operate within solar- and/or waste-heat-recovery systems.
- ☐ Heated swimming pools have a cover on or at the water surface. For pools heated over 90 degrees F (32 degrees C) the cover has a minimum insulation value of R-12.
  Exceptions:

  Covers are not required when 60% of the heating energy is from site-recovered energy or solar energy source.

Lighting Requirements:

- ☐ A minimum of 50 percent of the lamps in permanently installed lighting fixtures can be categorized as one of the following: