



TECHNICAL BULLETIN
Community Development & Planning, Building Inspections
TOPIC:
Energy Codes, Sunroom Additions
Revised May 24, 2012

The requirements in this technical bulletin apply to *SUNROOM* additions to single-family residences.

SUNROOM is a one-story structure attached to a dwelling with a glazing area in excess of 40 percent of the gross area of the structure's exterior walls and roof.

THERMAL ISOLATION is physical and space conditioning separation from conditioned space(s). The conditioned space(s) shall be controlled as separate zones for heating and cooling or conditioned by separate equipment.

As defined, a **thermal isolation** is a separation of conditioned spaces, between a sunroom addition and a dwelling unit, consisting of existing or new wall(s), doors and/or windows. New wall(s), doors and /or windows shall meet the values in the table below.

The following general rules apply:

- ❑ The sunroom addition must be separated from the existing conditioned spaced by a **thermal isolation** (insulated walls and doors meeting requirements).

The following applies to a conditioned (heated and/or cooled) sunroom:

- ❑ Conditioned sunroom additions must be served by a separate heating or cooling system, or must be controlled as a separate zone of the existing system.
- ❑ The *U*-factor of each new window or door may be used to calculate an area-weighted average fenestration *U*-factor for the addition, which cannot exceed the value in the table below.
- ❑ The *R*-values for new walls, ceilings and floors must be as indicated it the table below.
- ❑ The area weighted average of all new and replacement glazing (where the entire unit, including the frame, sash and glazing, is replaced/installed) shall not exceed 0.30, except:
 - Any glazing facing within 45 degrees of true north.
 - Any glazing facing within 45 degrees of true south which is shaded along its full width by a permanent overhang with a projection factor of 0.3 or greater is exempt from the minimum SHGC requirement.

| Maximum | | | |
|-------------------------------|-------------------------|----------------------|-----------------------|
| Fenestration <i>U</i> -Factor | Ceiling <i>R</i> -value | Wall <i>R</i> -value | Floor <i>R</i> -value |
| 0.50 | R-19 | R-13 | R-19 |