



TECHNICAL BULLETIN
Community Development & Planning, Building Inspections
TOPIC:
Residential Additions & Window Replacements
May 24, 2012

The requirements set out in this technical bulletin apply to additions (other than sunrooms) to single family residences and to replacement windows in existing homes.

The following general rules apply:

- ❑ The *U*-factor of each individual fenestration (door or window) product may be used to calculate an area-weighted average fenestration product *U*-factor for the addition, which cannot exceed the value in the table below.
- ❑ The *R*-values for the walls, ceilings and floors must be as indicated in the table below.
- ❑ Replacement fenestrations (where the entire unit, including the frame, sash and glazing, is replaced) must meet the *U*-factor in the table below. This applies to additions and simple window replacements.

Exceptions:

Glazed fenestration exemption. Up to 15 square feet of glazed fenestration per dwelling unit is exempted from *U*-factor and SHGC requirements.

Opaque door exemption. One side-hinged opaque door assembly up to 24 square feet in area is exempted from the *U*-factor requirement.

- ❑ The area weighted average of the Solar Heat Gain Coefficient (SHGC) of all new and replacement glazed fenestrations (where the entire unit, including the frame, sash and glazing, is replaced) cannot 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 0.30 or greater is exempt from the minimum SHGC requirement

Maximum	Minimum				
Fenestration <i>U</i> -Factor	Ceiling <i>R</i> -value	Wall <i>R</i> -value	Floor <i>R</i> -value	Basement Wall <i>R</i> -value ^b	Crawl space wall <i>R</i> -value ^d
0.50	R-30	R-13	R-19	R-8	R-10