

If the Total Percentage of Fenestration exceeds 20%, performance compliance approach must be used. Likewise if the total west facing fenestration area in climate zones 2, 4, and 7-15, exceeds 5% of the CFA, the performance compliance approach must be used.

- If the addition has a floor area of 100 ft² or less, then up to 50 ft² of fenestration area is allowed, additions that add less than 50ft² of fenestration area need to meet the Package D requirements for fenestration U-factor and SHGC, but are exempt from the fenestration maximum total area limits (this includes both 20% of conditioned floor limit and the 5% west facing limit). There is no credit for glazing removed when using this option. For additions with floor areas of 100 ft² or less that have greater than 50 ft² of fenestration area, the performance compliance is optional or use the less than 1,000 ft² approach.
- If the addition has a floor area equal to or less than 1,000 ft², then only R-13 wall insulation is required in all climate zones and shall meet all the requirements of Package D as indicated in Table 8-2. The allowed 20% glazing, of which a maximum 5% is allowed as west facing glazing (in climate zones 2, 4, and 7-15) may be increased by the amount of glazing removed in the wall that separates the addition from the existing house.
- If the addition has a floor area greater than 1,000 ft² the fenestration need to meet the Package D requirements for fenestration U-factor and SHGC, and the fenestration maximum total area limits, this includes both 20% of conditioned floor limit and the 5% west facing limit in climate zones 2, 4, and 7-15.

Table 8-2 – Prescriptive Envelope Requirements for Additions

Component	Size of Addition		
	100 ft ² or less	1,000 ft ² or less	More than 1,000 ft ²
Ceiling Insulation	R-19	Package D	Package D
Wall Insulation ¹	R-13	R-13	Package D
Floor Insulation	R-13	Package D	Package D
Fenestration U- factor ³	Package D	Package D	Package D
Glazing Area	≤ 50 ft ²	Package D (20%) + Glass Removed	Package D
Solar Heat Gain Coefficient (SHGC)	Package D	Package D	Package D
Radiant Barrier ²	Package D	Package D	Package D

¹ Heavy mass and light mass walls may meet the Package D requirements for mass wall insulation instead of R-13.

² The radiant barrier requirement applies only to the roof area of the addition. It is not necessary to retrofit a radiant barrier in the existing attic.

³ Dual-glazed greenhouse windows and dual-glazed skylights are assumed to meet the applicable U-factor requirement.

The Package D Alternative, which requires more energy efficient windows and space conditioning equipment in lieu of measures that require field verification and diagnostic testing, may also be used with addition alone, provided that if space conditioning equipment is installed, it will have the specified efficiency,