



# ENERGY CODE COMPLIANCE - PRESCRIPTIVE REQUIREMENTS

**Table 6-1  
 Prescriptive Requirements<sup>0,1</sup> for Group R Occupancy - Climate Zone 1**

Option	Glazing Area <sup>10</sup> : % of Floor	Glazing U-Factor		Door <sup>9</sup> U-Factor	Ceiling <sup>2</sup>	Vaulted Ceiling <sup>3</sup>	Wall <sup>12</sup> Above Grade	Wall Int <sup>4</sup> Below Grade	Wall Ext <sup>4</sup> Below Grade	Floor <sup>5</sup>	Slab <sup>6</sup> On Grade
		Vertical	Overhead <sup>11</sup>								
I.	10%	0.32	0.58	0.20	R-38	R-30	R-15	R-15	R-10	R-30	R-10
II. *	15%	0.35	0.58	0.20	R-38	R-30	R-21	R-21	R-10	R-30	R-10
III.	25% Group R-1 and R-2 Occupancies Only	0.40	0.58	0.20	R-38 / U=0.031	R-21 / U=0.057	R-15	R-15	R-10	R-30 / U=0.029	R-10
IV.	Unlimited Group R-3 and R-4 Occupancies Only	0.35	0.58	0.20	R-38	R-21	R-21	R-21	R-10	R-30	R-10
V.	Unlimited Group R-1 and R-2 Occupancies Only	0.35	0.58	0.20	R-38 / U=0.031	R-15	R-10	R-15	R-10	R-30 / U=0.029	R-10

\* Reference Case

0. Nominal R-values are for wood frame assemblies only or assemblies built in accordance with Washington Energy Code (WEC) Section 601.1.

1. Minimum requirements for each option listed. For example, if a proposed design has a glazing ratio to the conditioned floor area of 13%, it shall comply with all of the requirements of the 15% glazing option (or higher). Proposed designs which cannot meet the specific requirements of a listed option above may calculate compliance by WEC Chapters 4 or 5.

2. Requirement applies to all ceilings except single rafter of joist vaulted ceilings complying with note 3.

3. Requirement applicable only to single rafter or joist vaulted ceilings where both (a) the distance between the top of the ceiling and the underside of the roof sheathing is less than 12 inches and (b) there is a minimum 1-inch vented airspace above the insulation. Other single rafter or joist vaulted ceilings shall comply with the "ceiling" requirements. This option is limited to 500 square feet of ceiling area for any one dwelling unit.

4. Below grade walls shall be insulated either on the exterior to a minimum level of R-10, or on the interior to the same level as walls above grade. Exterior insulation installed on below grade walls shall be a water resistant material, manufactured for its intended use, and installed according to the manufacturer's specifications. See WEC Section 602.2.

5. Floors over crawl spaces or exposed to ambient air conditions.

6. Required slab perimeter insulation shall be a water resistant material, manufactured for its intended use, and installed according to manufacturer's specifications.

7. Int. denotes standard framing 16 inches on center with headers insulated with a minimum of R-10 insulation.

8. This wall insulation requirement denotes R-19 wall cavity insulation plus R-5 foam sheathing.

9. Doors, including all fire doors, shall be assigned default U-factors from WEC Table 10-6C.

10. Where a maximum glazing area is listed, the total glazing area (combined vertical plus overhead) as a percent of gross conditioned floor area shall be less than or equal to that value. Overhead glazing with U-factor of U-0.40 or less is not included in glazing area limitations.

11. Overhead glazing shall have U-factors determined in accordance with NFRC 100 or as specified in WEC Section 502.1.5.

12. Log and solid timber walls with a minimum average thickness of 3.5" are exempt from this insulation requirement.