

Prescriptive Packages for the 1998, 2000, and 2003 IECC

The following Footnotes and Notes apply to all of the Prescriptive Package tables for the 1998, 2000, and 2003 IECC.

FOOTNOTES:

- ¹ Glazing area is the ratio of the area of the glazing assemblies (including sliding-glass doors, skylights, and basement windows but excluding opaque doors) to the gross wall area, expressed as a percentage. Up to 1% of the total allowed glazing area may be excluded from the U-value requirement. For example, 3 ft² of decorative glass may be excluded from a building design with 300 ft² of glazing area.
- ² Glazing U-factors must be tested and documented by the manufacturer in accordance with the National Fenestration Rating Council (NFRC) test procedure or taken from the glazing U-factor table in Appendix B. Center-of-glass U-factors cannot be used.
- ³ The ceiling R-values do not assume a raised or oversized truss construction. If the insulation achieves the full insulation thickness over the plate lines of exterior walls, R-30 insulation may be substituted for R-38 insulation and R-38 insulation may be substituted for R-49 insulation. Ceiling R-values represent the sum of cavity insulation plus insulating sheathing (if used). For ventilated ceilings, insulating sheathing must be placed between the conditioned space and the ventilated portion of the roof.
- ⁴ Wall R-values represent the sum of the wall cavity insulation plus insulating sheathing (if used). Do not include exterior siding, structural sheathing, and interior drywall. For example, an R-19 requirement could be met *EITHER* by R-19 cavity insulation *OR* R-13 cavity insulation plus R-6 insulating sheathing. Wall requirements apply to wood-frame wall constructions. Metal-frame wall or mass (concrete, masonry, log) wall equivalent R-values can be found in the Prescriptive Packages User's Guide.
- ⁵ The floor requirements apply to floors over unconditioned spaces (such as unconditioned crawlspaces, basements, or garages). Floors over outside air must meet the ceiling requirements.
- ⁶ Walls of conditioned basements below uninsulated floors must be insulated from the top of the basement wall to a depth of 10 ft below ground level or to the level of the basement floor, whichever is less. The entire opaque portion of any individual basement wall with an average depth less than 50% below grade must meet the same R-value requirement as above-grade walls. Windows and sliding glass doors of conditioned basements must be included with the other glazing. Basement doors must meet the door U-factor requirement described in Note b.
- ⁷ The R-value requirements are for unheated slabs. Add an additional R-2 for heated slabs, except in Zone 1 which does not require slab insulation. For packages with a slab insulation requirement, the insulation must extend a total linear distance of at least 24 in. in Zones 2-12 and 48 in. in Zones 13-17. The insulation must extend 1) down from the top of the slab, or 2) down from the top of the slab to the bottom of the slab and then horizontally underneath the slab, or 3) down from the top of the slab to the bottom of the slab and then horizontally away from the slab, with pavement or at least 10 in. of soil covering the horizontal insulation.
- ⁸ The crawl space wall R-value requirements are for walls of unventilated crawl spaces. The crawl space wall insulation must extend from the top of the wall (including the sill plate) to at least 12 in. below the outside finished grade. If the distance from the outside finished grade to the top of the footing is less than 12 in., the insulation must extend a total vertical plus horizontal distance of 24 in. from the outside finished grade.

- ⁹ *High Heating* means a furnace AFUE of 90% or more, or a heat pump HSPF of 7.8 or more. *High Cooling* means a SEER of 12 or more. *High Heat/Cool* means both heating and cooling equipment must meet these minimum efficiencies. If you plan to install more than one piece of heating equipment or more than one piece of cooling equipment, the equipment with the lowest efficiency must meet or exceed the efficiency required by the selected package. The following California counties do not qualify for the cooling equipment credit: Alameda, Contra Costa, Los Angeles, Marin, Monterey, Napa, Orange, San Benito, San Diego, San Francisco, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Solano, Sonoma, and Ventura.

NOTES:

- a) Glazing areas and U-factors are maximum acceptable levels. Insulation R-values are minimum acceptable levels. R-value requirements are for insulation only and do not include structural components.
- b) Opaque doors in the building envelope must have a U-factor no greater than 0.35. Door U-values must be tested and documented by the manufacturer in accordance with the NFRC test procedure or taken from the door U-factor table in Appendix B. If a door contains glass and an aggregate U-factor rating for that door is not available, include the glass area of the door with your windows and use the opaque door U-factor to determine compliance of the door. One door may be excluded from this requirement (i.e., may have a U-factor greater than 0.35).
- c) If a ceiling, wall, floor, basement wall, slab-edge, or crawl space wall component includes two or more areas with different insulation levels, the component complies if the area-weighted average R-value is greater than or equal to the R-value requirement for that component. Glazing or door components comply if the area-weighted average U-factor of all windows or doors is less than or equal to the U-factor requirement (0.35 for doors). Use the *R-Value/U-factor Weighted Average Worksheet* for these computations.
- d) Hyphens (--) in any foundation column indicate that the package which contains the hyphens cannot be used with the indicated foundation type.
- e) In Zones 1-7, the area-weighted average SHGC value of all glazing cannot exceed 0.4. SHGC values must be determined in accordance with the NFRC test procedure or taken from the default SHGC table in Appendix B.

Zone 1 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	15%	any	R-13	R-11	R-11	R-0	R-0	Normal	
2	18%	0.90	R-19	R-13	R-11	R-0	R-0	Normal	
3	18%	0.75	R-13	R-11	R-11	R-0	R-0	Normal	
4	20%	0.80	R-19	R-11	R-11	R-0	R-0	Normal	
5	25%	0.70	R-30	R-11	R-11	R-0	R-0	Normal	
6	25%	0.65	R-19	R-11	R-11	R-0	R-0	Normal	
7	25%	any	R-11	R-11	R-11	R-0	R-0	High Cooling	

Zone 2 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	12%	any	R-19	R-11	R-11	R-0	R-4	Normal	
2	15%	any	R-38	R-13	R-11	R-0	R-5	Normal	
3	15%	0.90	R-19	R-11	R-11	R-0	R-4	Normal	
4	15%	0.75	R-13	R-11	R-11	R-0	R-4	Normal	
5	18%	0.75	R-19	R-11	R-11	R-0	R-4	Normal	
6	18%	0.65	R-13	R-11	R-11	R-0	R-4	Normal	
7	20%	0.75	R-30	R-13	R-11	R-0	R-4	Normal	
8	25%	0.65	R-30	R-13	R-11	R-0	R-4	Normal	
9	25%	0.55	R-19	R-11	R-11	R-0	R-4	Normal	
10	18%	any	R-13	R-11	R-11	R-0	R-5	High Cooling	
11	25%	0.90	R-30	R-11	R-11	R-0	R-5	High Cooling	
12	25%	any	R-19	R-11	R-11	R-0	R-6	High Heat/Cool	

Zone 3 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	any	R-19	R-11	R-11	R-0	R-5	Normal	
2	12%	any	R-30	R-11	R-11	R-0	R-5	Normal	
3	12%	0.75	R-13	R-11	R-11	R-0	R-4	Normal	
4	15%	0.90	R-30	R-13	R-11	R-0	R-5	Normal	
5	15%	0.75	R-19	R-11	R-11	R-0	R-5	Normal	
6	18%	0.75	R-26	R-11	R-13	R-2	R-6	Normal	
7	18%	0.70	R-26	R-13	R-11	R-0	R-5	Normal	
8	18%	0.65	R-19	R-11	R-11	R-0	R-5	Normal	
9	20%	0.70	R-30	R-13	R-11	R-0	R-5	Normal	
10	25%	0.60	R-30	R-13	R-13	R-2	R-6	Normal	
11	25%	0.55	R-26	R-13	R-11	R-0	R-5	Normal	
12	12%	any	R-13	R-11	R-11	R-0	R-5	High Cooling	
13	15%	any	R-26	R-11	R-11	R-0	R-5	High Cooling	
14	15%	0.90	R-13	R-11	R-11	R-0	R-5	High Cooling	
15	18%	0.90	R-26	R-11	R-11	R-0	R-5	High Cooling	
16	18%	0.75	R-13	R-11	R-11	R-0	R-5	High Cooling	
17	25%	0.70	R-26	R-11	R-13	R-0	R-6	High Cooling	
18	25%	0.65	R-19	R-13	R-11	R-0	R-5	High Cooling	
19	18%	any	R-19	R-11	R-11	R-0	R-4	High Heat/Cool	
20	25%	0.90	R-26	R-13	R-11	R-0	R-5	High Heat/Cool	

Zone 4 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	any	R-19	R-11	R-11	R-5	R-0	R-5		Normal
2	12%	0.90	R-30	R-11	R-11	R-5	R-0	R-5		Normal
3	12%	0.75	R-19	R-11	R-11	R-4	R-0	R-5		Normal
4	12%	0.65	R-13	R-11	R-11	R-5	R-0	R-5		Normal
5	15%	0.75	R-26	R-13	R-11	R-5	R-0	R-5		Normal
6	15%	0.65	R-19	R-11	R-11	R-5	R-0	R-5		Normal
7	18%	0.65	R-30	R-13	R-11	R-5	R-0	R-5		Normal
8	18%	0.55	R-19	R-11	R-11	R-5	R-0	R-5		Normal
9	20%	0.60	R-30	R-13	R-11	R-5	R-0	R-5		Normal
10	25%	0.55	R-26	R-13	R-19	R-7	R-2	R-8		Normal
11	25%	0.52	R-30	R-13	R-13	R-6	R-0	R-6		Normal
12	25%	0.45	R-26	R-11	R-11	R-5	R-0	R-5		Normal
13	12%	any	R-19	R-11	R-11	R-4	R-0	R-4		High Heating
14	15%	0.90	R-19	R-11	R-11	R-4	R-0	R-5		High Heating
15	18%	0.90	R-26	R-13	R-13	R-5	R-0	R-6		High Heating
16	25%	0.65	R-26	R-11	R-13	R-5	R-0	R-6		High Heating
17	12%	any	R-26	R-11	R-13	R-5	R-0	R-6		High Cooling
18	15%	0.90	R-30	R-13	R-11	R-5	R-0	R-5		High Cooling
19	15%	0.75	R-19	R-11	R-11	R-4	R-0	R-5		High Cooling
20	18%	0.70	R-26	R-11	R-11	R-4	R-0	R-5		High Cooling
21	25%	0.55	R-30	R-11	R-11	R-5	R-0	R-5		High Cooling
22	15%	any	R-19	R-11	R-11	R-4	R-0	R-5		High Heat/Cool
23	18%	0.90	R-19	R-11	R-11	R-4	R-0	R-5		High Heat/Cool
24	25%	0.75	R-19	R-13	R-15	R-5	R-0	R-7		High Heat/Cool

Zone 5 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.90	R-19	R-11	R-11	R-5	R-0	R-6		Normal
2	12%	0.75	R-26	R-13	R-11	R-5	R-0	R-6		Normal
3	12%	0.65	R-19	R-13	R-11	R-5	R-0	R-5		Normal
4	15%	0.75	R-38	R-11	R-19	R-8	R-2	R-10		Normal
5	15%	0.65	R-30	R-13	R-11	R-5	R-0	R-6		Normal
6	18%	0.65	R-30	R-13	R-19	R-8	R-2	R-10		Normal
7	18%	0.55	R-30	R-13	R-11	R-5	R-0	R-6		Normal
8	20%	0.52	R-38	R-13	R-11	R-5	R-0	R-6		Normal
9	25%	0.50	R-38	R-13	R-19	R-8	R-0	R-10		Normal
10	25%	0.40	R-26	R-13	R-11	R-5	R-0	R-6		Normal
11	12%	0.90	R-19	R-11	R-11	R-4	R-0	R-5		High Heating
12	15%	0.90	R-26	R-13	R-11	R-5	R-0	R-6		High Heating
13	18%	0.75	R-19	R-13	R-13	R-6	R-0	R-8		High Heating
14	25%	0.60	R-26	R-13	R-13	R-6	R-0	R-8		High Heating
15	12%	0.90	R-26	R-13	R-13	R-5	R-0	R-6		High Cooling
16	15%	0.75	R-26	R-13	R-13	R-6	R-0	R-7		High Cooling
17	18%	0.70	R-26	R-13	R-19	R-7	R-2	R-10		High Cooling
18	18%	0.60	R-30	R-11	R-11	R-5	R-0	R-6		High Cooling
19	25%	0.55	R-30	R-13	R-19	R-8	R-2	R-11		High Cooling
20	25%	0.45	R-30	R-11	R-11	R-5	R-0	R-6		High Cooling
21	12%	any	R-19	R-11	R-11	R-4	R-0	R-5		High Heat/Cool
22	15%	0.90	R-19	R-11	R-11	R-5	R-0	R-5		High Heat/Cool
23	18%	0.75	R-19	R-11	R-11	R-4	R-0	R-5		High Heat/Cool
24	25%	0.65	R-26	R-11	R-13	R-6	R-0	R-7		High Heat/Cool

Zone 6 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.70	R-26	R-11	R-11	R-5	R-0	R-6	Normal	
2	12%	0.70	R-30	R-11	R-19	R-6	R-5	R-7	Normal	
3	12%	0.60	R-26	R-13	R-13	R-5	R-0	R-5	Normal	
4	15%	0.60	R-30	R-13	R-19	R-6	R-4	R-7	Normal	
5	15%	0.45	R-38	R-11	R-11	R-4	R-0	R-4	Normal	
6	18%	0.60	R-38	R-19	R-15	R-5	R-2	R-6	Normal	
7	18%	0.52	R-30	R-13	R-19	R-6	R-0	R-7	Normal	
8	18%	0.45	R-30	R-13	R-13	R-5	R-2	R-5	Normal	
9	20%	0.50	R-38	R-13	R-19	R-6	R-0	R-7	Normal	
10	22%	0.45	R-38	R-13	R-19	R-6	R-4	R-7	Normal	
11	25%	0.46	R-38	R-16	R-19	R-6	R-0	R-7	Normal	
12	12%	0.90	R-26	R-13	R-11	R-4	R-0	R-4	High Heating	
13	15%	0.75	R-30	R-13	R-11	R-4	R-0	R-4	High Heating	
14	18%	0.70	R-30	R-13	R-15	R-5	R-2	R-6	High Heating	
15	22%	0.60	R-30	R-11	R-19	R-6	R-2	R-7	High Heating	
16	12%	0.70	R-26	R-11	R-15	R-5	R-2	R-6	High Cooling	
17	15%	0.65	R-26	R-13	R-19	R-6	R-3	R-7	High Cooling	
18	18%	0.55	R-26	R-13	R-19	R-6	R-3	R-7	High Cooling	
19	22%	0.50	R-38	R-13	R-19	R-6	R-3	R-7	High Cooling	
20	12%	0.90	R-19	R-11	R-11	R-4	R-0	R-4	High Heat/Cool	
21	15%	0.75	R-19	R-11	R-13	R-4	R-0	R-5	High Heat/Cool	
22	18%	0.75	R-30	R-13	R-13	R-4	R-0	R-5	High Heat/Cool	
23	22%	0.60	R-30	R-13	R-11	R-4	R-0	R-4	High Heat/Cool	

Zone 7 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.70	R-26	R-11	R-13	R-5	R-0	R-6	Normal	
2	12%	0.65	R-26	R-13	R-19	R-7	R-5	R-8	Normal	
3	12%	0.60	R-30	R-13	R-15	R-6	R-0	R-6	Normal	
4	12%	0.50	R-30	R-13	R-11	R-5	R-0	R-5	Normal	
5	15%	0.70	R-38	R-18	R-19	R-7	R-5	R-9	Normal	
6	15%	0.55	R-30	R-13	R-19	R-7	R-4	R-8	Normal	
7	15%	0.40	R-38	R-11	R-11	R-5	R-0	R-5	Normal	
8	18%	0.60	R-38	R-19	R-19	R-7	R-5	R-9	Normal	
9	18%	0.50	R-38	R-13	R-19	R-7	R-0	R-8	Normal	
10	20%	0.46	R-38	R-13	R-19	R-7	R-0	R-9	Normal	
11	22%	0.40	R-30	R-13	R-19	R-7	R-4	R-8	Normal	
12	25%	0.45	R-38	R-19	R-19	R-7	R-0	R-9	Normal	
13	12%	0.75	R-26	R-11	R-11	R-4	R-0	R-5	High Heating	
14	15%	0.70	R-30	R-13	R-11	R-4	R-0	R-5	High Heating	
15	18%	0.70	R-30	R-13	R-19	R-6	R-2	R-8	High Heating	
16	18%	0.55	R-26	R-11	R-11	R-5	R-0	R-5	High Heating	
17	22%	0.55	R-26	R-11	R-19	R-6	R-2	R-9	High Heating	
18	22%	0.50	R-30	R-13	R-11	R-4	R-0	R-5	High Heating	
19	12%	0.75	R-30	R-13	R-19	R-7	R-5	R-9	High Cooling	
20	12%	0.55	R-38	R-11	R-11	R-5	R-0	R-5	High Cooling	
21	15%	0.60	R-30	R-13	R-19	R-7	R-4	R-8	High Cooling	
22	18%	0.50	R-26	R-13	R-19	R-7	R-4	R-9	High Cooling	
23	22%	0.45	R-38	R-13	R-19	R-7	R-3	R-8	High Cooling	
24	12%	0.90	R-30	R-11	R-11	R-4	R-0	R-5	High Heat/Cool	

25	15%	0.70	R-19	R-13	R-13	R-5	R-0	R-5	High Heat/Cool
26	18%	0.65	R-30	R-11	R-13	R-5	R-0	R-6	High Heat/Cool
27	22%	0.55	R-30	R-13	R-11	R-4	R-0	R-5	High Heat/Cool

Zone 8 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.65	R-30	R-11	R-13	R-6	R-2	R-7	Normal	
2	12%	0.60	R-30	R-13	R-19	R-8	R-4	R-10	Normal	
3	12%	0.45	R-30	R-13	R-11	R-5	R-2	R-6	Normal	
4	15%	0.65	R-38	R-18	R-19	R-8	R-6	R-11	Normal	
5	15%	0.50	R-30	R-13	R-19	R-8	R-5	R-10	Normal	
6	15%	0.40	R-38	R-13	R-11	R-5	R-2	R-6	Normal	
7	18%	0.55	R-38	R-18	R-19	R-8	R-6	R-11	Normal	
8	18%	0.46	R-38	R-13	R-19	R-8	R-6	R-11	Normal	
9	20%	0.42	R-38	R-13	R-19	R-8	R-6	R-10	Normal	
10	22%	0.45	R-38	R-17	R-19	R-8	R-5	R-10	Normal	
11	22%	0.40	R-38	R-13	R-21	R-9	R-9	R-12	Normal	
12	25%	0.41	R-38	R-19	R-19	R-8	R-6	R-10	Normal	
13	12%	0.90	R-30	R-11	R-19	R-7	R-2	R-10	High Heating	
14	12%	0.65	R-19	R-13	R-11	R-5	R-0	R-5	High Heating	
15	15%	0.70	R-30	R-13	R-13	R-6	R-2	R-7	High Heating	
16	15%	0.60	R-30	R-11	R-11	R-5	R-0	R-6	High Heating	
17	18%	0.65	R-26	R-13	R-19	R-7	R-2	R-11	High Heating	
18	18%	0.55	R-30	R-13	R-11	R-5	R-0	R-6	High Heating	
19	22%	0.55	R-30	R-13	R-19	R-7	R-2	R-10	High Heating	
20	12%	0.65	R-30	R-13	R-19	R-8	R-3	R-10	High Cooling	
21	15%	0.55	R-30	R-13	R-19	R-8	R-5	R-11	High Cooling	
22	18%	0.50	R-38	R-13	R-21	R-8	R-6	R-11	High Cooling	
23	22%	0.40	R-38	R-13	R-19	R-7	R-3	R-9	High Cooling	
24	12%	0.75	R-26	R-11	R-11	R-5	R-0	R-5	High Heat/Cool	
25	15%	0.70	R-26	R-13	R-13	R-5	R-0	R-6	High Heat/Cool	
26	18%	0.60	R-30	R-11	R-13	R-5	R-0	R-7	High Heat/Cool	
27	22%	0.60	R-30	R-13	R-19	R-7	R-2	R-12	High Heat/Cool	

Zone 9 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.59	R-30	R-11	R-15	R-8	R-2	R-9		Normal
2	12%	0.55	R-38	R-13	R-19	R-9	R-4	R-12		Normal
3	12%	0.45	R-30	R-13	R-15	R-7	R-2	R-9		Normal
4	15%	0.55	R-38	R-16	R-19	R-9	R-4	R-12		Normal
5	15%	0.45	R-38	R-13	R-19	R-8	R-3	R-11		Normal
6	18%	0.50	R-38	R-19	R-19	R-9	R-5	R-13		Normal
7	18%	0.40	R-38	R-13	R-19	R-9	R-6	R-13		Normal
8	20%	0.37	R-38	R-13	R-19	R-9	R-6	R-13		Normal
9	22%	0.40	R-38	R-16	R-19	R-9	R-6	R-13		Normal
10	25%	0.37	R-38	R-19	R-19	R-9	R-6	R-13		Normal
11	12%	0.70	R-26	R-13	R-13	R-6	R-0	R-7		High Heating
12	15%	0.60	R-38	R-11	R-13	R-6	R-0	R-8		High Heating
13	18%	0.60	R-30	R-13	R-19	R-8	R-2	R-14		High Heating
14	22%	0.50	R-26	R-13	R-19	R-9	R-2	R-15		High Heating
15	12%	0.60	R-38	R-13	R-19	R-9	R-5	R-13		High Cooling
16	15%	0.50	R-38	R-14	R-19	R-9	R-4	R-12		High Cooling
17	18%	0.45	R-38	R-15	R-19	R-9	R-6	R-13		High Cooling
18	22%	0.40	R-38	R-19	R-15	R-8	R-2	R-10		High Cooling
19	12%	0.75	R-30	R-13	R-11	R-6	R-0	R-7		High Heat/Cool
20	15%	0.70	R-30	R-13	R-15	R-7	R-2	R-11		High Heat/Cool
21	15%	0.60	R-26	R-13	R-11	R-6	R-0	R-7		High Heat/Cool
22	18%	0.60	R-30	R-11	R-19	R-8	R-2	R-14		High Heat/Cool
23	22%	0.55	R-38	R-13	R-19	R-8	R-2	R-14		High Heat/Cool

Zone 10 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.55	R-30	R-13	R-15	R-8	R-2	R-12		Normal
2	12%	0.65	R-38	R-19	R-19	R-9	R-7	R-17		Normal
3	12%	0.50	R-38	R-14	R-19	R-9	R-5	R-16		Normal
4	12%	0.45	R-30	R-13	R-19	R-9	R-6	R-17		Normal
5	15%	0.55	R-38	R-19	R-21	R-10	--	R-22		Normal
6	15%	0.45	R-38	R-16	R-19	R-9	R-6	R-17		Normal
7	15%	0.40	R-38	R-13	R-19	R-9	R-5	R-16		Normal
8	18%	0.45	R-38	R-19	R-19	R-9	R-7	R-17		Normal
9	18%	0.37	R-38	R-15	R-19	R-9	R-6	R-16		Normal
10	20%	0.37	R-38	R-16	R-19	R-9	R-6	R-16		Normal
11	25%	0.33	R-38	R-19	R-19	R-9	R-6	R-17		Normal
12	12%	0.75	R-38	R-11	R-19	R-8	R-2	R-17		High Heating
13	12%	0.65	R-38	R-13	R-11	R-6	R-0	R-8		High Heating
14	15%	0.65	R-30	R-13	R-19	R-9	R-2	R-22		High Heating
15	15%	0.50	R-30	R-13	R-11	R-6	R-0	R-8		High Heating
16	18%	0.55	R-30	R-13	R-19	R-9	R-2	R-22		High Heating
17	18%	0.45	R-38	R-13	R-11	R-5	R-0	R-8		High Heating
18	22%	0.55	R-38	R-17	R-19	R-9	R-2	R-22		High Heating
19	22%	0.40	R-30	R-13	R-13	R-6	R-2	R-10		High Heating
20	12%	0.75	R-30	R-13	R-15	R-7	R-2	R-14		High Heat/Cool
21	12%	0.65	R-26	R-13	R-13	R-6	R-0	R-10		High Heat/Cool
22	15%	0.70	R-30	R-15	R-19	R-9	R-2	R-22		High Heat/Cool
23	15%	0.55	R-26	R-13	R-13	R-6	R-2	R-10		High Heat/Cool
24	18%	0.65	R-38	R-19	R-15	R-7	R-2	R-14		High Heat/Cool
25	18%	0.50	R-38	R-13	R-13	R-6	R-0	R-10		High Heat/Cool

26	22%	0.60	R-38	R-17	R-26	R-11	R-8	--	High Heat/Cool
27	22%	0.45	R-38	R-13	R-15	R-7	R-2	R-12	High Heat/Cool

Zone 11 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.52	R-30	R-13	R-19	R-9	R-7	R-16	Normal	
2	12%	0.55	R-38	R-18	R-19	R-9	R-6	R-17	Normal	
3	12%	0.45	R-38	R-16	R-19	R-9	R-6	R-16	Normal	
4	12%	0.40	R-38	R-13	R-19	R-9	R-6	R-16	Normal	
5	15%	0.45	R-38	R-18	R-19	R-9	R-6	R-17	Normal	
6	15%	0.35	R-38	R-13	R-21	R-10	R-9	R-18	Normal	
7	18%	0.40	R-49	R-18	R-19	R-9	R-6	R-16	Normal	
8	18%	0.37	R-38	R-16	R-19	R-9	R-7	R-17	Normal	
9	20%	0.36	R-38	R-19	R-19	R-9	R-6	R-16	Normal	
10	22%	0.40	R-49	R-19	R-30	R-13	--	--	Normal	
11	22%	0.35	R-49	R-18	R-21	R-10	R-10	R-19	Normal	
12	25%	0.29	R-38	R-19	R-19	R-9	R-6	R-17	Normal	
13	12%	0.65	R-26	R-13	R-19	R-8	R-2	R-17	High Heating	
14	12%	0.50	R-26	R-13	R-11	R-6	R-0	R-8	High Heating	
15	15%	0.60	R-38	R-13	R-19	R-9	R-2	R-20	High Heating	
16	15%	0.45	R-30	R-13	R-11	R-6	R-0	R-9	High Heating	
17	18%	0.60	R-38	R-17	R-19	R-9	R-2	R-22	High Heating	
18	18%	0.45	R-30	R-13	R-15	R-7	R-2	R-14	High Heating	
19	22%	0.50	R-38	R-17	R-19	R-9	R-2	R-22	High Heating	
20	22%	0.40	R-26	R-13	R-19	R-9	R-2	R-22	High Heating	
21	12%	0.70	R-26	R-13	R-19	R-9	R-2	R-22	High Heat/Cool	
22	12%	0.55	R-30	R-11	R-13	R-6	R-0	R-10	High Heat/Cool	
23	15%	0.60	R-26	R-13	R-21	R-10	R-4	R-30	High Heat/Cool	
24	15%	0.50	R-30	R-13	R-13	R-6	R-2	R-10	High Heat/Cool	
25	18%	0.65	R-38	R-19	R-21	R-10	R-3	R-28	High Heat/Cool	
26	18%	0.45	R-38	R-13	R-13	R-6	R-2	R-10	High Heat/Cool	
27	22%	0.50	R-38	R-16	R-19	R-8	R-2	R-20	High Heat/Cool	
28	22%	0.40	R-38	R-13	R-15	R-7	R-2	R-12	High Heat/Cool	

Zone 12 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.45	R-38	R-13	R-19	R-9	R-7	R-16	Normal	
2	12%	0.50	R-38	R-19	R-21	R-10	--	R-19	Normal	
3	12%	0.45	R-38	R-17	R-19	R-9	R-6	R-16	Normal	
4	12%	0.40	R-38	R-18	R-15	R-8	R-2	R-11	Normal	
5	15%	0.50	R-49	R-19	R-30	R-14	--	--	Normal	
6	15%	0.40	R-49	R-17	R-19	R-10	R-7	R-17	Normal	
7	15%	0.40	R-38	R-18	R-21	R-10	R-9	R-19	Normal	
8	18%	0.40	R-38	R-18	R-30	R-14	--	--	Normal	
9	18%	0.37	R-38	R-19	R-19	R-10	R-8	R-17	Normal	
10	20%	0.33	R-49	R-20	R-19	R-10	R-7	R-17	Normal	
11	22%	0.35	R-38	R-21	R-30	R-14	--	--	Normal	
12	25%	0.27	R-38	R-19	R-21	R-10	--	R-22	Normal	
13	12%	0.70	R-38	R-19	R-13	R-7	R-2	R-11	High Heating	
14	12%	0.60	R-30	R-13	R-19	R-9	R-2	R-19	High Heating	
15	15%	0.60	R-38	R-19	R-15	R-7	R-2	R-13	High Heating	
16	15%	0.45	R-38	R-13	R-13	R-7	R-2	R-11	High Heating	
17	18%	0.55	R-38	R-18	R-19	R-9	R-3	R-22	High Heating	
18	18%	0.40	R-38	R-13	R-15	R-7	R-2	R-12	High Heating	
19	22%	0.45	R-38	R-17	R-19	R-9	R-2	R-22	High Heating	
20	22%	0.40	R-49	R-13	R-19	R-9	R-2	R-22	High Heating	
21	12%	0.70	R-38	R-15	R-19	R-9	R-2	R-20	High Heat/Cool	
22	12%	0.55	R-30	R-13	R-15	R-7	R-2	R-12	High Heat/Cool	
23	15%	0.60	R-38	R-15	R-21	R-10	R-3	R-28	High Heat/Cool	
24	15%	0.50	R-26	R-13	R-19	R-9	R-2	R-22	High Heat/Cool	
25	18%	0.55	R-38	R-17	R-19	R-9	R-2	R-22	High Heat/Cool	
26	18%	0.45	R-30	R-13	R-19	R-9	R-2	R-22	High Heat/Cool	
27	22%	0.50	R-49	R-18	R-21	R-10	R-4	R-28	High Heat/Cool	
28	22%	0.40	R-38	R-13	R-19	R-9	R-2	R-22	High Heat/Cool	

Zone 13 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.45	R-38	R-16	R-19	R-10	R-7	R-16	Normal	
2	12%	0.45	R-49	R-18	R-21	R-10	R-9	R-19	Normal	
3	12%	0.40	R-38	R-18	R-19	R-10	R-6	R-16	Normal	
4	15%	0.45	R-49	R-19	R-30	R-14	--	--	Normal	
5	15%	0.35	R-38	R-18	R-21	R-10	R-9	R-20	Normal	
6	18%	0.34	R-49	R-22	R-19	R-10	R-8	R-17	Normal	
7	20%	0.31	R-49	R-24	R-19	R-10	R-7	R-17	Normal	
8	22%	0.35	R-49	R-26	R-30	R-14	--	--	Normal	
9	25%	0.25	R-49	R-19	R-21	R-10	R-9	R-20	Normal	
10	12%	0.60	R-30	R-13	R-26	R-11	R-8	--	High Heating	
11	12%	0.45	R-26	R-13	R-15	R-8	R-2	R-14	High Heating	
12	15%	0.55	R-38	R-16	R-19	R-8	R-3	R-18	High Heating	
13	15%	0.45	R-30	R-13	R-19	R-9	R-4	R-22	High Heating	
14	18%	0.50	R-38	R-18	R-19	R-9	R-4	R-22	High Heating	
15	18%	0.40	R-38	R-13	R-19	R-9	R-3	R-19	High Heating	
16	22%	0.45	R-49	R-18	R-21	R-10	R-6	R-30	High Heating	
17	22%	0.35	R-38	R-13	R-19	R-9	R-4	R-22	High Heating	
18	12%	0.65	R-38	R-16	R-15	R-8	R-2	R-14	High Heat/Cool	
19	12%	0.50	R-30	R-11	R-19	R-9	R-3	R-20	High Heat/Cool	
20	15%	0.60	R-38	R-18	R-19	R-9	R-3	R-22	High Heat/Cool	
21	15%	0.45	R-30	R-13	R-19	R-9	R-3	R-20	High Heat/Cool	

22	18%	0.55	R-38	R-17	R-26	R-11	R-9	--	High Heat/Cool
23	18%	0.45	R-38	R-13	R-26	R-10	R-6	--	High Heat/Cool
24	22%	0.45	R-49	R-19	R-19	R-9	R-4	R-22	High Heat/Cool
25	22%	0.35	R-38	R-11	R-21	R-10	R-5	R-30	High Heat/Cool

Zone 14 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.43	R-38	R-16	R-19	R-10	R-7	R-16	Normal	
2	12%	0.45	R-49	R-19	R-26	R-13	--	--	Normal	
3	12%	0.40	R-49	R-21	R-19	R-10	R-7	R-17	Normal	
4	12%	0.35	R-38	R-19	R-19	R-10	R-7	R-17	Normal	
5	15%	0.35	R-49	R-21	R-21	R-11	R-11	R-20	Normal	
6	18%	0.33	R-49	R-22	R-25	R-11	R-14	R-19	Normal	
7	20%	0.30	R-49	R-26	R-21	R-11	R-10	R-17	Normal	
8	22%	0.30	R-49	R-22	R-30	R-14	--	--	Normal	
9	25%	0.25	R-49	R-19	R-30	R-14	--	--	Normal	
10	12%	0.65	R-38	R-18	R-19	R-9	R-4	R-22	High Heating	
11	12%	0.50	R-38	R-13	R-19	R-9	R-4	R-22	High Heating	
12	15%	0.55	R-38	R-18	R-21	R-10	R-5	R-28	High Heating	
13	15%	0.45	R-49	R-13	R-21	R-10	R-5	R-24	High Heating	
14	18%	0.45	R-38	R-18	R-19	R-9	R-4	R-22	High Heating	
15	18%	0.40	R-38	R-13	R-26	R-11	R-9	--	High Heating	
16	22%	0.40	R-49	R-19	R-19	R-9	R-4	R-22	High Heating	
17	22%	0.35	R-49	R-15	R-21	R-10	R-5	R-26	High Heating	
18	12%	0.60	R-38	R-18	R-15	R-8	R-2	R-14	High Heat/Cool	
19	12%	0.50	R-38	R-13	R-19	R-9	R-3	R-19	High Heat/Cool	
20	15%	0.55	R-38	R-17	R-21	R-10	R-5	R-28	High Heat/Cool	
21	15%	0.45	R-38	R-13	R-21	R-10	R-5	R-28	High Heat/Cool	
22	18%	0.50	R-49	R-16	R-26	R-11	R-8	--	High Heat/Cool	
23	18%	0.40	R-49	R-13	R-21	R-10	R-5	R-26	High Heat/Cool	
24	22%	0.40	R-38	R-18	R-21	R-10	R-5	R-28	High Heat/Cool	
25	22%	0.35	R-38	R-13	R-26	R-11	R-9	--	High Heat/Cool	

Zone 15 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.42	R-38	R-16	R-19	R-11	R-8	R-16		Normal
2	12%	0.40	R-49	R-21	R-19	R-10	R-9	R-17		Normal
3	12%	0.40	R-38	R-21	R-21	R-11	R-13	R-22		Normal
4	12%	0.35	R-38	R-19	R-19	R-10	R-8	R-17		Normal
5	15%	0.35	R-49	R-21	R-21	R-11	R-13	R-20		Normal
6	15%	0.30	R-49	R-18	R-19	R-10	R-8	R-16		Normal
7	18%	0.35	R-49	R-21	R-30	R-15	--	--		Normal
8	18%	0.33	R-49	R-25	R-30	R-15	--	R-25		Normal
9	18%	0.30	R-38	R-19	R-26	R-14	--	--		Normal
10	20%	0.30	R-49	R-26	R-21	R-11	R-12	R-19		Normal
11	22%	0.30	R-49	R-22	R-30	R-15	--	--		Normal
12	25%	0.25	R-49	R-19	R-30	R-15	--	--		Normal
13	12%	0.65	R-38	R-18	R-19	R-10	R-4	R-22		High Heating
14	12%	0.50	R-38	R-13	R-19	R-9	R-4	R-20		High Heating
15	15%	0.55	R-38	R-17	R-21	R-11	R-7	--		High Heating
16	15%	0.40	R-38	R-13	R-19	R-9	R-3	R-18		High Heating
17	18%	0.50	R-49	R-19	R-21	R-11	R-7	R-28		High Heating
18	18%	0.40	R-38	R-17	R-15	R-8	R-2	R-14		High Heating
19	22%	0.40	R-38	R-19	R-21	R-11	R-6	R-28		High Heating
20	22%	0.35	R-38	R-13	R-26	R-12	R-13	--		High Heating
21	12%	0.65	R-38	R-17	R-19	R-10	R-4	R-22		High Heat/Cool
22	12%	0.50	R-38	R-13	R-19	R-9	R-3	R-19		High Heat/Cool
23	15%	0.55	R-38	R-19	R-19	R-10	R-4	R-22		High Heat/Cool
24	15%	0.45	R-38	R-13	R-21	R-11	R-6	R-28		High Heat/Cool
25	18%	0.45	R-38	R-17	R-19	R-10	R-4	R-22		High Heat/Cool
26	18%	0.40	R-38	R-13	R-26	R-11	R-8	--		High Heat/Cool
27	22%	0.40	R-49	R-18	R-19	R-10	R-4	R-22		High Heat/Cool
28	22%	0.35	R-49	R-15	R-19	R-10	R-4	R-22		High Heat/Cool

Zone 16 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.42	R-38	R-16	R-19	R-16	R-8	R-16		Normal
2	12%	0.40	R-49	R-21	R-19	R-16	R-9	R-17		Normal
3	12%	0.40	R-49	R-19	R-21	R-18	R-12	R-20		Normal
4	12%	0.35	R-38	R-19	R-19	R-16	R-9	R-17		Normal
5	15%	0.35	R-49	R-21	R-21	R-18	R-14	R-20		Normal
6	18%	0.33	R-49	R-25	R-30	R-19	--	R-25		Normal
7	18%	0.30	R-49	R-21	R-21	R-19	R-14	R-22		Normal
8	20%	0.30	R-49	R-26	R-21	R-19	R-12	R-19		Normal
9	22%	0.30	R-49	R-22	R-30	R-28	--	--		Normal
10	25%	0.25	R-49	R-19	R-30	R-28	--	--		Normal
11	12%	0.60	R-49	R-19	R-13	R-11	R-2	R-11		High Heating
12	12%	0.50	R-38	R-13	R-19	R-15	R-3	R-18		High Heating
13	15%	0.60	R-49	R-19	R-21	R-19	R-7	R-28		High Heating
14	15%	0.45	R-49	R-13	R-19	R-16	R-4	R-20		High Heating
15	18%	0.50	R-49	R-18	R-21	R-19	R-6	R-28		High Heating
16	18%	0.40	R-49	R-13	R-21	R-18	R-5	R-24		High Heating
17	22%	0.40	R-49	R-17	R-19	R-17	R-5	R-22		High Heating
18	22%	0.35	R-49	R-19	R-13	R-11	R-2	R-11		High Heating

Zone 17 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	8%	0.42	R-38	R-16	R-19	R-16	R-11	R-16	Normal	
2	12%	0.40	R-49	R-21	R-19	R-16	R-11	R-17	Normal	
3	12%	0.40	R-49	R-19	R-21	R-18	R-16	R-20	Normal	
4	12%	0.35	R-38	R-19	R-19	R-16	R-11	R-17	Normal	
5	15%	0.35	R-49	R-21	R-21	R-19	R-18	R-20	Normal	
6	18%	0.33	R-49	R-25	R-30	R-19	—	R-25	Normal	
7	18%	0.30	R-49	R-21	R-21	R-19	R-18	R-22	Normal	
8	20%	0.30	R-49	R-26	R-21	R-19	R-16	R-19	Normal	
9	22%	0.30	R-49	R-22	R-30	R-28	--	--	Normal	
10	25%	0.25	R-49	R-19	R-30	R-28	—	—	Normal	
11	12%	0.60	R-49	R-18	R-13	R-11	R-2	R-11	High Heating	
12	12%	0.50	R-38	R-15	R-15	R-13	R-2	R-14	High Heating	
13	15%	0.60	R-38	R-21	R-21	R-19	R-8	R-28	High Heating	
14	15%	0.45	R-49	R-13	R-19	R-16	R-5	R-19	High Heating	
15	18%	0.50	R-49	R-19	R-19	R-17	R-6	R-24	High Heating	
16	18%	0.40	R-49	R-13	R-19	R-17	R-6	R-24	High Heating	
17	22%	0.40	R-38	R-19	R-19	R-17	R-6	R-22	High Heating	
18	22%	0.35	R-49	R-13	R-21	R-19	R-8	R-26	High Heating	

Zone 18 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	12%	0.40	R-49	R-19	R-21	R-18	R-19	R-20	Normal	
2	12%	0.35	R-38	R-19	R-19	R-16	R-12	R-17	Normal	
3	15%	0.35	R-49	R-21	R-21	R-19	--	R-20	Normal	
4	18%	0.30	R-49	R-21	R-21	R-19	--	R-22	Normal	
5	22%	0.30	R-49	R-22	R-30	R-28	--	--	Normal	
6	12%	0.60	R-49	R-18	R-13	R-11	R-2	R-11	High Heating	
7	12%	0.50	R-38	R-15	R-15	R-13	R-3	R-14	High Heating	
8	15%	0.60	R-38	R-21	R-21	R-19	R-9	R-28	High Heating	
9	15%	0.45	R-49	R-13	R-19	R-16	R-5	R-19	High Heating	
10	18%	0.50	R-49	R-19	R-19	R-17	R-7	R-24	High Heating	
11	18%	0.40	R-49	R-13	R-19	R-17	R-7	R-24	High Heating	
12	22%	0.40	R-38	R-19	R-19	R-17	R-7	R-22	High Heating	
13	22%	0.35	R-49	R-13	R-21	R-19	R-9	R-26	High Heating	

Zone 19 Single-Family Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	12%	0.40	R-49	R-19	R-30	R-30	--	--	Normal	
2	12%	0.30	R-49	R-18	R-21	R-18	R-19	R-19	Normal	
3	18%	0.30	R-49	R-22	R-30	R-28	—	—	Normal	
4	12%	0.60	R-49	R-18	R-19	R-17	R-7	R-22	High Heating	
5	12%	0.50	R-38	R-17	R-15	R-13	R-3	R-14	High Heating	
6	15%	0.50	R-49	R-19	R-19	R-17	R-7	R-22	High Heating	
7	15%	0.40	R-49	R-13	R-21	R-19	R-10	R-28	High Heating	
8	18%	0.40	R-38	R-18	R-19	R-17	R-7	R-22	High Heating	
9	18%	0.35	R-49	R-18	R-13	R-11	R-2	R-11	High Heating	

10	22%	0.40	R-49	R-25	R-21	R-20	R-11	--	High Heating
11	22%	0.35	R-49	R-18	R-19	R-17	R-7	R-22	High Heating

Zone 1 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	25%	any	R-13	R-11	R-11	R-0	R-0		Normal
2	30%	0.90	R-13	R-11	R-11	R-0	R-0		Normal
3	30%	any	R-11	R-11	R-11	R-0	R-0		High Cooling

Zone 2 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	25%	any	R-19	R-11	R-11	R-0	R-5		Normal
2	25%	0.90	R-13	R-11	R-11	R-0	R-3		Normal
3	30%	0.90	R-30	R-11	R-11	R-0	R-5		Normal
4	30%	0.75	R-19	R-11	R-11	R-0	R-3		Normal
5	30%	any	R-13	R-11	R-11	R-0	R-4		High Cooling

Zone 3 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	25%	any	R-19	R-11	R-11	R-0	R-5		Normal
2	25%	0.90	R-30	R-11	R-11	R-0	R-4		Normal
3	30%	0.75	R-30	R-11	R-11	R-0	R-4		Normal
4	30%	0.70	R-19	R-11	R-11	R-0	R-4		Normal
5	30%	0.65	R-13	R-11	R-11	R-0	R-4		Normal
6	25%	any	R-19	R-11	R-13	R-0	R-6		High Cooling
7	25%	any	R-30	R-11	R-11	R-0	R-4		High Cooling
8	30%	0.90	R-19	R-13	R-11	R-0	R-5		High Cooling
9	30%	0.90	R-30	R-11	R-11	R-0	R-4		High Cooling

Zone 4 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	15%	any	R-13	R-11	R-13	R-5	R-2	R-6		Normal
2	20%	0.90	R-19	R-13	R-11	R-5	R-0	R-5		Normal
3	20%	0.85	R-19	R-11	R-11	R-5	R-0	R-5		Normal
4	20%	0.75	R-13	R-11	R-11	R-4	R-0	R-3		Normal
5	25%	0.85	R-19	R-11	R-11	R-5	R-0	R-5		Normal
6	25%	0.75	R-19	R-11	R-13	R-6	R-2	R-6		Normal
7	25%	0.70	R-19	R-11	R-11	R-4	R-0	R-4		Normal
8	25%	0.65	R-13	R-11	R-11	R-4	R-0	R-5		Normal
9	30%	0.65	R-26	R-11	R-11	R-5	R-0	R-5		Normal
10	30%	0.60	R-19	R-11	R-11	R-4	R-0	R-4		Normal
11	20%	any	R-13	R-11	R-11	R-5	R-0	R-5		High Heating
12	25%	0.90	R-19	R-11	R-11	R-4	R-0	R-4		High Heating
13	30%	0.75	R-19	R-11	R-11	R-4	R-0	R-4		High Heating
14	20%	any	R-30	R-11	R-11	R-5	R-0	R-5		High Cooling
15	20%	0.90	R-13	R-11	R-11	R-4	R-0	R-4		High Cooling
16	30%	0.75	R-26	R-11	R-13	R-5	R-2	R-6		High Cooling
17	30%	0.70	R-19	R-11	R-11	R-5	R-0	R-5		High Cooling
18	30%	0.65	R-13	R-11	R-11	R-5	R-0	R-5		High Cooling
19	25%	any	R-19	R-11	R-11	R-5	R-0	R-6		High Heat/Cool
20	30%	0.90	R-19	R-11	R-11	R-4	R-0	R-5		High Heat/Cool

Zone 5 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	15%	any	R-30	R-13	R-13	R-6	R-2	R-7		Normal
2	15%	0.90	R-19	R-11	R-11	R-5	R-0	R-5		Normal
3	15%	0.75	R-13	R-11	R-11	R-4	R-0	R-4		Normal
4	20%	0.75	R-26	R-11	R-11	R-5	R-0	R-6		Normal
5	25%	0.70	R-19	R-11	R-11	R-5	R-0	R-5		Normal
6	25%	0.65	R-30	R-13	R-11	R-5	R-0	R-6		Normal
7	25%	0.60	R-26	R-11	R-11	R-5	R-0	R-5		Normal
8	30%	0.57	R-38	R-13	R-11	R-5	R-0	R-6		Normal
9	30%	0.55	R-30	R-13	R-11	R-5	R-0	R-5		Normal
10	20%	any	R-30	R-14	R-11	R-5	R-0	R-7		High Heating
11	20%	0.90	R-13	R-11	R-13	R-6	R-0	R-7		High Heating
12	25%	0.75	R-19	R-11	R-11	R-4	R-0	R-5		High Heating
13	30%	0.70	R-26	R-11	R-11	R-5	R-0	R-6		High Heating
14	15%	any	R-26	R-11	R-11	R-5	R-0	R-5		High Cooling
15	15%	0.90	R-13	R-11	R-11	R-5	R-0	R-5		High Cooling
16	20%	0.75	R-19	R-11	R-11	R-4	R-0	R-4		High Cooling
17	25%	0.70	R-30	R-11	R-11	R-5	R-0	R-6		High Cooling
18	30%	0.60	R-30	R-11	R-11	R-5	R-0	R-6		High Cooling
19	20%	any	R-19	R-11	R-11	R-5	R-0	R-6		High Heat/Cool
20	25%	0.90	R-26	R-11	R-11	R-4	R-0	R-5		High Heat/Cool
21	25%	0.90	R-19	R-11	R-13	R-6	R-0	R-8		High Heat/Cool
22	30%	0.75	R-19	R-11	R-11	R-5	R-0	R-7		High Heat/Cool
23	30%	0.70	R-13	R-11	R-11	R-5	R-0	R-7		High Heat/Cool

Zone 6 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	15%	0.70	R-30	R-13	R-11	R-4	R-0	R-4		Normal
2	15%	0.65	R-26	R-11	R-11	R-4	R-0	R-4		Normal
3	20%	0.60	R-30	R-13	R-15	R-5	R-2	R-5		Normal
4	20%	0.55	R-30	R-13	R-11	R-5	R-0	R-5		Normal
5	20%	0.50	R-26	R-11	R-11	R-4	R-0	R-4		Normal
6	25%	0.55	R-38	R-13	R-19	R-7	R-7	R-8		Normal
7	25%	0.55	R-30	R-13	R-11	R-5	R-0	R-5		Normal
8	30%	0.50	R-38	R-16	R-19	R-6	R-4	R-7		Normal
9	30%	0.47	R-38	R-13	R-19	R-7	R-0	R-8		Normal
10	30%	0.40	R-38	R-11	R-13	R-4	R-0	R-4		Normal
11	15%	0.90	R-19	R-11	R-11	R-4	R-0	R-4		High Heating
12	20%	0.75	R-26	R-11	R-13	R-4	R-0	R-4		High Heating
13	25%	0.65	R-26	R-13	R-13	R-4	R-0	R-5		High Heating
14	25%	0.60	R-26	R-11	R-11	R-4	R-0	R-4		High Heating
15	30%	0.55	R-30	R-13	R-11	R-4	R-0	R-4		High Heating
16	15%	0.75	R-30	R-11	R-11	R-4	R-0	R-4		High Cooling
17	20%	0.60	R-26	R-13	R-11	R-4	R-0	R-4		High Cooling
18	25%	0.50	R-30	R-13	R-11	R-4	R-0	R-4		High Cooling
19	30%	0.40	R-26	R-11	R-11	R-4	R-0	R-4		High Cooling
20	15%	0.90	R-13	R-11	R-11	R-4	R-0	R-4		High Heat/Cool
21	20%	0.75	R-19	R-11	R-11	R-3	R-0	R-3		High Heat/Cool
22	25%	0.70	R-26	R-11	R-13	R-4	R-0	R-5		High Heat/Cool
23	30%	0.60	R-26	R-11	R-13	R-4	R-0	R-5		High Heat/Cool

Zone 7 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	15%	0.70	R-26	R-13	R-13	R-5	R-0	R-4		Normal
2	15%	0.60	R-19	R-11	R-13	R-5	R-0	R-4		Normal
3	20%	0.65	R-38	R-16	R-13	R-5	R-0	R-5		Normal
4	25%	0.55	R-30	R-13	R-11	R-5	R-0	R-5		Normal
5	25%	0.50	R-30	R-13	R-15	R-6	R-2	R-6		Normal
6	25%	0.45	R-30	R-13	R-11	R-4	R-0	R-4		Normal
7	30%	0.47	R-38	R-13	R-19	R-7	R-0	R-9		Normal
8	30%	0.45	R-30	R-13	R-19	R-7	R-4	R-8		Normal
9	15%	0.90	R-19	R-11	R-11	R-4	R-0	R-4		High Heating
10	20%	0.75	R-19	R-13	R-13	R-4	R-0	R-5		High Heating
11	25%	0.65	R-30	R-13	R-11	R-4	R-0	R-4		High Heating
12	30%	0.55	R-26	R-11	R-13	R-5	R-0	R-6		High Heating
13	15%	0.75	R-26	R-13	R-11	R-4	R-0	R-4		High Cooling
14	20%	0.65	R-30	R-13	R-15	R-6	R-2	R-6		High Cooling
15	20%	0.55	R-26	R-11	R-11	R-4	R-0	R-4		High Cooling
16	25%	0.50	R-38	R-13	R-11	R-4	R-0	R-4		High Cooling
17	30%	0.40	R-26	R-13	R-11	R-4	R-0	R-4		High Cooling
18	15%	0.90	R-13	R-11	R-11	R-4	R-0	R-5		High Heat/Cool
19	20%	0.75	R-19	R-11	R-11	R-4	R-0	R-4		High Heat/Cool
20	25%	0.65	R-19	R-11	R-13	R-5	R-0	R-5		High Heat/Cool
21	30%	0.60	R-30	R-11	R-13	R-5	R-0	R-6		High Heat/Cool

Zone 8 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	15%	0.75	R-26	R-11	R-19	R-7	R-2	R-9	Normal	
2	15%	0.65	R-26	R-11	R-11	R-5	R-0	R-5	Normal	
3	20%	0.65	R-38	R-19	R-11	R-5	R-0	R-5	Normal	
4	25%	0.55	R-30	R-13	R-11	R-5	R-0	R-5	Normal	
5	25%	0.50	R-30	R-13	R-15	R-7	R-2	R-7	Normal	
6	25%	0.45	R-30	R-13	R-11	R-5	R-0	R-5	Normal	
7	30%	0.46	R-38	R-13	R-19	R-8	R-4	R-9	Normal	
8	30%	0.45	R-38	R-19	R-11	R-5	R-0	R-5	Normal	
9	30%	0.45	R-30	R-13	R-19	R-8	R-5	R-10	Normal	
10	15%	0.90	R-19	R-11	R-11	R-4	R-0	R-4	High Heating	
11	20%	0.75	R-19	R-13	R-11	R-5	R-0	R-5	High Heating	
12	25%	0.65	R-26	R-11	R-13	R-5	R-0	R-6	High Heating	
13	30%	0.55	R-26	R-11	R-13	R-5	R-0	R-6	High Heating	
14	15%	0.75	R-30	R-13	R-11	R-5	R-0	R-5	High Cooling	
15	20%	0.70	R-30	R-15	R-19	R-8	R-5	R-11	High Cooling	
16	20%	0.60	R-38	R-11	R-13	R-5	R-0	R-5	High Cooling	
17	25%	0.60	R-38	R-17	R-15	R-7	R-2	R-8	High Cooling	
18	25%	0.50	R-38	R-13	R-11	R-5	R-0	R-5	High Cooling	
19	30%	0.45	R-38	R-13	R-13	R-6	R-2	R-6	High Cooling	
20	15%	0.90	R-13	R-11	R-11	R-5	R-0	R-5	High Heat/Cool	
21	20%	0.90	R-38	R-13	R-13	R-5	R-0	R-6	High Heat/Cool	
22	25%	0.65	R-26	R-11	R-11	R-4	R-0	R-4	High Heat/Cool	
23	30%	0.60	R-30	R-13	R-11	R-5	R-0	R-5	High Heat/Cool	

Zone 9 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	15%	0.70	R-38	R-13	R-11	R-5	R-0	R-5	Normal	
2	15%	0.65	R-26	R-11	R-13	R-6	R-0	R-6	Normal	
3	20%	0.60	R-26	R-13	R-19	R-8	R-3	R-11	Normal	
4	20%	0.55	R-38	R-13	R-11	R-5	R-0	R-5	Normal	
5	25%	0.55	R-38	R-19	R-13	R-6	R-2	R-7	Normal	
6	25%	0.54	R-30	R-13	R-11	R-5	R-0	R-5	Normal	
7	25%	0.45	R-38	R-13	R-11	R-5	R-0	R-5	Normal	
8	30%	0.46	R-38	R-13	R-19	R-9	R-6	R-13	Normal	
9	30%	0.40	R-38	R-11	R-13	R-6	R-2	R-7	Normal	
10	15%	0.90	R-19	R-11	R-11	R-5	R-0	R-5	High Heating	
11	20%	0.75	R-26	R-11	R-11	R-5	R-0	R-6	High Heating	
12	25%	0.65	R-30	R-13	R-11	R-5	R-0	R-6	High Heating	
13	30%	0.55	R-26	R-11	R-13	R-6	R-0	R-7	High Heating	
14	15%	0.75	R-38	R-13	R-11	R-5	R-0	R-5	High Cooling	
15	15%	0.70	R-26	R-13	R-11	R-5	R-0	R-5	High Cooling	
16	20%	0.60	R-38	R-13	R-13	R-6	R-0	R-6	High Cooling	
17	25%	0.50	R-26	R-13	R-15	R-7	R-2	R-9	High Cooling	
18	30%	0.45	R-26	R-13	R-19	R-9	R-5	R-13	High Cooling	
19	15%	0.90	R-13	R-11	R-13	R-6	R-0	R-8	High Heat/Cool	
20	20%	0.75	R-19	R-11	R-11	R-5	R-0	R-6	High Heat/Cool	
21	25%	0.70	R-38	R-11	R-13	R-6	R-0	R-8	High Heat/Cool	
22	25%	0.65	R-19	R-13	R-13	R-6	R-0	R-7	High Heat/Cool	
23	30%	0.60	R-38	R-11	R-13	R-6	R-0	R-8	High Heat/Cool	
24	30%	0.55	R-26	R-11	R-11	R-5	R-0	R-6	High Heat/Cool	

Zone 10 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	15%	0.70	R-38	R-13	R-11	R-5	R-0	R-6	Normal	
2	15%	0.60	R-26	R-11	R-11	R-5	R-0	R-5	Normal	
3	20%	0.60	R-26	R-13	R-19	R-9	R-4	R-15	Normal	
4	20%	0.50	R-26	R-11	R-13	R-6	R-0	R-7	Normal	
5	25%	0.53	R-30	R-13	R-11	R-5	R-0	R-6	Normal	
6	25%	0.50	R-38	R-13	R-15	R-7	R-2	R-10	Normal	
7	25%	0.45	R-38	R-13	R-11	R-5	R-0	R-6	Normal	
8	30%	0.45	R-38	R-13	R-19	R-9	R-6	R-15	Normal	
9	30%	0.40	R-49	R-13	R-11	R-5	R-0	R-6	Normal	
10	15%	0.90	R-19	R-11	R-11	R-5	R-0	R-6	High Heating	
11	20%	0.75	R-26	R-11	R-11	R-5	R-0	R-7	High Heating	
12	25%	0.70	R-30	R-13	R-15	R-7	R-2	R-13	High Heating	
13	25%	0.65	R-30	R-13	R-11	R-5	R-0	R-7	High Heating	
14	30%	0.60	R-30	R-13	R-15	R-7	R-2	R-14	High Heating	
15	30%	0.55	R-26	R-13	R-11	R-5	R-0	R-8	High Heating	
16	15%	0.90	R-19	R-11	R-11	R-4	R-0	R-5	High Heat/Cool	
17	20%	0.75	R-26	R-11	R-11	R-5	R-0	R-6	High Heat/Cool	
18	25%	0.65	R-30	R-11	R-11	R-5	R-0	R-7	High Heat/Cool	
19	25%	0.60	R-19	R-11	R-11	R-5	R-0	R-7	High Heat/Cool	
20	30%	0.60	R-26	R-11	R-19	R-8	R-2	R-19	High Heat/Cool	
21	30%	0.55	R-19	R-13	R-13	R-6	R-0	R-10	High Heat/Cool	

Zone 11 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	15%	0.70	R-38	R-13	R-11	R-6	R-0	R-6	Normal	
2	15%	0.60	R-19	R-13	R-13	R-6	R-0	R-7	Normal	
3	20%	0.60	R-38	R-13	R-15	R-8	R-2	R-11	Normal	
4	20%	0.50	R-26	R-13	R-11	R-5	R-0	R-6	Normal	
5	25%	0.52	R-30	R-13	R-11	R-5	R-0	R-6	Normal	
6	25%	0.50	R-30	R-13	R-19	R-9	R-5	R-15	Normal	
7	25%	0.45	R-49	R-13	R-11	R-5	R-0	R-6	Normal	
8	25%	0.40	R-26	R-11	R-11	R-6	R-0	R-6	Normal	
9	30%	0.45	R-38	R-18	R-13	R-6	R-2	R-8	Normal	
10	30%	0.45	R-38	R-13	R-19	R-10	R-8	R-18	Normal	
11	30%	0.40	R-26	R-11	R-19	R-9	R-4	R-14	Normal	
12	30%	0.35	R-26	R-13	R-11	R-5	R-0	R-5	Normal	
13	15%	0.90	R-19	R-11	R-11	R-5	R-0	R-6	High Heating	
14	20%	0.75	R-26	R-11	R-11	R-5	R-0	R-7	High Heating	
15	25%	0.65	R-38	R-11	R-11	R-5	R-0	R-7	High Heating	
16	25%	0.60	R-26	R-11	R-11	R-5	R-0	R-6	High Heating	
17	30%	0.60	R-26	R-13	R-19	R-8	R-2	R-19	High Heating	
18	30%	0.55	R-26	R-11	R-13	R-6	R-0	R-10	High Heating	
19	20%	0.75	R-19	R-11	R-13	R-6	R-0	R-9	High Heat/Cool	
20	25%	0.65	R-30	R-11	R-11	R-5	R-0	R-7	High Heat/Cool	
21	25%	0.60	R-19	R-11	R-11	R-5	R-0	R-7	High Heat/Cool	
22	30%	0.60	R-38	R-13	R-13	R-6	R-0	R-9	High Heat/Cool	
23	30%	0.55	R-19	R-13	R-13	R-6	R-0	R-10	High Heat/Cool	

Zone 12 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	15%	0.65	R-30	R-13	R-11	R-5	R-0	R-6	Normal	
2	15%	0.55	R-19	R-13	R-11	R-5	R-0	R-5	Normal	
3	20%	0.60	R-30	R-13	R-19	R-9	R-6	R-16	Normal	
4	20%	0.50	R-30	R-13	R-11	R-5	R-0	R-6	Normal	
5	25%	0.51	R-30	R-13	R-11	R-6	R-0	R-6	Normal	
6	25%	0.50	R-38	R-11	R-21	R-10	R-10	R-18	Normal	
7	25%	0.50	R-38	R-19	R-11	R-5	R-0	R-6	Normal	
8	30%	0.45	R-49	R-13	R-19	R-9	R-6	R-16	Normal	
9	30%	0.44	R-38	R-13	R-19	R-10	R-8	R-18	Normal	
10	30%	0.40	R-30	R-13	R-15	R-7	R-2	R-10	Normal	
11	15%	0.90	R-19	R-11	R-11	R-5	R-0	R-7	High Heating	
12	20%	0.75	R-26	R-11	R-11	R-5	R-0	R-7	High Heating	
13	25%	0.65	R-30	R-13	R-11	R-5	R-0	R-7	High Heating	
14	25%	0.60	R-19	R-11	R-13	R-6	R-0	R-9	High Heating	
15	30%	0.55	R-30	R-13	R-11	R-5	R-0	R-7	High Heating	

Zone 13 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	12%	0.75	R-30	R-13	R-15	R-7	R-2	R-9	Normal	
2	12%	0.55	R-19	R-13	R-11	R-5	R-0	R-6	Normal	
3	15%	0.70	R-38	R-13	R-19	R-9	R-6	R-16	Normal	
4	15%	0.50	R-26	R-13	R-11	R-5	R-0	R-5	Normal	
5	20%	0.60	R-49	R-17	R-15	R-8	R-2	R-11	Normal	
6	20%	0.50	R-26	R-13	R-19	R-9	R-5	R-14	Normal	
7	25%	0.51	R-30	R-13	R-19	R-10	R-7	R-16	Normal	
8	25%	0.50	R-49	R-19	R-15	R-8	R-2	R-11	Normal	
9	25%	0.40	R-38	R-13	R-13	R-6	R-2	R-8	Normal	
10	30%	0.44	R-38	R-19	R-19	R-10	R-8	R-18	Normal	
11	30%	0.40	R-38	R-13	R-21	R-11	R-12	R-22	Normal	
12	12%	0.90	R-19	R-11	R-11	R-4	R-0	R-5	High Heating	
13	15%	0.90	R-26	R-13	R-11	R-6	R-0	R-8	High Heating	
14	15%	0.75	R-19	R-11	R-11	R-5	R-0	R-5	High Heating	
15	20%	0.70	R-30	R-13	R-11	R-5	R-0	R-7	High Heating	
16	20%	0.60	R-19	R-11	R-11	R-5	R-0	R-6	High Heating	
17	25%	0.65	R-30	R-13	R-19	R-9	R-4	R-22	High Heating	
18	25%	0.55	R-26	R-11	R-11	R-6	R-0	R-8	High Heating	
19	30%	0.50	R-38	R-13	R-11	R-5	R-0	R-7	High Heating	

Zone 14 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	12%	0.70	R-30	R-13	R-19	R-10	R-7	R-17		Normal
2	12%	0.50	R-26	R-13	R-11	R-5	R-0	R-6		Normal
3	15%	0.65	R-49	R-18	R-13	R-7	R-2	R-8		Normal
4	15%	0.55	R-38	R-16	R-11	R-5	R-0	R-6		Normal
5	20%	0.55	R-38	R-16	R-21	R-11	R-13	R-24		Normal
6	25%	0.45	R-30	R-13	R-19	R-10	R-7	R-16		Normal
7	25%	0.45	R-38	R-18	R-19	R-10	R-8	R-18		Normal
8	25%	0.40	R-38	R-14	R-19	R-10	R-7	R-17		Normal
9	30%	0.38	R-38	R-19	R-19	R-10	R-8	R-18		Normal
10	30%	0.35	R-49	R-13	R-19	R-10	R-8	R-17		Normal
11	12%	0.90	R-19	R-11	R-15	R-7	R-2	R-11		High Heating
12	15%	0.75	R-26	R-11	R-11	R-6	R-2	R-8		High Heating
13	15%	0.65	R-19	R-11	R-11	R-5	R-0	R-6		High Heating
14	20%	0.60	R-38	R-11	R-11	R-5	R-0	R-7		High Heating
15	20%	0.55	R-19	R-13	R-11	R-5	R-0	R-7		High Heating
16	25%	0.60	R-38	R-13	R-19	R-10	R-5	R-26		High Heating
17	25%	0.50	R-38	R-11	R-11	R-5	R-0	R-7		High Heating
18	30%	0.50	R-38	R-19	R-11	R-6	R-0	R-8		High Heating
19	30%	0.45	R-38	R-13	R-11	R-6	R-0	R-7		High Heating

Zone 15 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	12%	0.60	R-49	R-18	R-19	R-11	R-9	R-18		Normal
2	12%	0.45	R-49	R-13	R-19	R-10	R-8	R-16		Normal
3	15%	0.50	R-49	R-19	R-19	R-11	R-9	R-18		Normal
4	15%	0.35	R-38	R-13	R-19	R-10	R-7	R-16		Normal
5	20%	0.40	R-49	R-21	R-19	R-11	R-10	R-18		Normal
6	25%	0.35	R-38	R-16	R-19	R-11	R-9	R-18		Normal
7	25%	0.35	R-49	R-24	R-21	R-12	R-18	R-24		Normal
8	25%	0.30	R-49	R-16	R-19	R-10	R-8	R-16		Normal
9	30%	0.32	R-49	R-21	R-30	R-18	—	—		Normal
10	30%	0.30	R-49	R-25	R-21	R-12	R-16	R-24		Normal
11	12%	0.70	R-38	R-13	R-13	R-7	R-2	R-10		High Heating
12	12%	0.60	R-26	R-13	R-11	R-6	R-2	R-8		High Heating
13	12%	0.50	R-19	R-13	R-11	R-6	R-0	R-7		High Heating
14	15%	0.65	R-38	R-11	R-21	R-12	R-12	--		High Heating
15	15%	0.60	R-38	R-13	R-15	R-8	R-2	R-12		High Heating
16	15%	0.50	R-30	R-13	R-11	R-6	R-0	R-7		High Heating
17	20%	0.50	R-30	R-13	R-19	R-11	R-8	--		High Heating
18	25%	0.50	R-49	R-18	R-19	R-11	R-7	--		High Heating
19	25%	0.40	R-38	R-13	R-15	R-8	R-2	R-15		High Heating
20	30%	0.40	R-49	R-18	R-15	R-8	R-2	R-15		High Heating

Zone 16 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	12%	0.55	R-49	R-19	R-15	R-12	R-3	R-11		Normal
2	12%	0.45	R-49	R-19	R-11	R-8	R-2	R-6		Normal
3	15%	0.50	R-49	R-19	R-19	R-17	R-10	R-18		Normal
4	15%	0.35	R-38	R-13	R-19	R-16	R-8	R-16		Normal
5	20%	0.40	R-49	R-19	R-21	R-19	R-16	R-22		Normal
6	25%	0.35	R-38	R-16	R-19	R-17	R-10	R-18		Normal
7	25%	0.35	R-49	R-24	R-21	R-20	R-19	R-24		Normal
8	30%	0.32	R-49	R-21	R-30	—	—	—		Normal
9	30%	0.30	R-49	R-25	R-21	R-20	R-18	R-24		Normal
10	12%	0.70	R-30	R-13	R-13	R-11	R-2	R-11		High Heating
11	12%	0.60	R-26	R-13	R-11	R-8	R-0	R-7		High Heating
12	15%	0.65	R-30	R-13	R-19	R-19	R-7	R-28		High Heating
13	15%	0.50	R-38	R-11	R-11	R-8	R-0	R-7		High Heating
14	20%	0.50	R-30	R-13	R-19	R-18	R-6	R-26		High Heating
15	20%	0.40	R-38	R-11	R-11	R-8	R-0	R-7		High Heating
16	25%	0.45	R-38	R-15	R-19	R-19	R-6	R-28		High Heating
17	25%	0.35	R-38	R-13	R-11	R-8	R-0	R-7		High Heating
18	30%	0.40	R-38	R-19	R-15	R-13	R-2	R-15		High Heating
19	30%	0.35	R-38	R-13	R-15	R-13	R-2	R-14		High Heating

Zone 17 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	12%	0.40	R-38	R-25	R-19	R-17	R-14	R-18		Normal
2	12%	0.30	R-38	R-16	R-19	R-16	R-11	R-16		Normal
3	15%	0.35	R-49	R-25	R-19	R-17	R-14	R-18		Normal
4	15%	0.30	R-38	R-21	R-19	R-16	R-12	R-17		Normal
5	12%	0.65	R-49	R-18	R-15	R-13	R-3	R-14		High Heating
6	12%	0.50	R-30	R-13	R-19	R-18	R-8	R-26		High Heating
7	12%	0.45	R-30	R-13	R-15	R-13	R-3	R-15		High Heating
8	15%	0.50	R-38	R-17	R-15	R-13	R-3	R-14		High Heating
9	15%	0.40	R-38	R-13	R-15	R-13	R-3	R-14		High Heating
10	20%	0.40	R-38	R-18	R-15	R-14	R-3	R-15		High Heating
11	20%	0.35	R-38	R-19	R-11	R-9	R-2	R-8		High Heating
12	25%	0.35	R-38	R-23	R-15	R-14	R-3	R-15		High Heating

Zone 18 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	12%	0.40	R-38	R-25	R-19	R-17	R-15	R-18		Normal
2	12%	0.30	R-38	R-16	R-19	R-16	R-12	R-16		Normal
3	15%	0.35	R-49	R-25	R-19	R-17	R-15	R-18		Normal
4	15%	0.30	R-38	R-21	R-19	R-16	R-13	R-17		Normal
5	12%	0.65	R-49	R-18	R-15	R-13	R-3	R-14		High Heating
6	12%	0.50	R-30	R-13	R-19	R-18	R-8	R-26		High Heating
7	12%	0.45	R-30	R-13	R-15	R-13	R-3	R-15		High Heating
8	15%	0.50	R-38	R-17	R-15	R-13	R-3	R-14		High Heating
9	15%	0.40	R-38	R-13	R-15	R-13	R-3	R-14		High Heating
10	20%	0.40	R-38	R-18	R-15	R-14	R-4	R-15		High Heating
11	20%	0.35	R-38	R-19	R-11	R-9	R-2	R-8		High Heating
12	25%	0.35	R-38	R-23	R-15	R-14	R-4	R-15		High Heating

Zone 19 Multifamily Prescriptive Packages - 1998/2000/2003 IECC

Package	MAXIMUM		MINIMUM							Heating/Cooling Equipment Efficiency ⁹
	Glazing Area % ¹	Glazing U-Factor ²	Ceiling R-Value ³	Wall R-Value ⁴	Floor R-Value ⁵	Basement Wall R-Value ⁶	Slab Perimeter R-Value ⁷	Crawl Space Wall R-Value ⁸		
1	12%	0.35	R-49	R-25	R-19	R-12	R-4	R-10		Normal
2	12%	0.30	R-49	R-19	R-19	R-12	R-5	R-10		Normal
3	15%	0.30	R-49	R-23	R-21	R-13	R-8	R-12		Normal
4	20%	0.30	R-49	R-28	R-30	R-22	--	R-28		Normal
5	12%	0.60	R-38	R-18	R-19	R-12	R-3	R-13		High Heating
6	12%	0.50	R-49	R-13	R-21	R-13	R-4	R-14		High Heating
7	12%	0.40	R-38	R-16	R-11	R-6	R-0	R-5		High Heating
8	15%	0.50	R-38	R-19	R-19	R-12	R-3	R-13		High Heating
9	15%	0.40	R-38	R-13	R-21	R-14	R-5	R-15		High Heating
10	20%	0.45	R-49	R-19	R-26	R-19	R-15	R-28		High Heating
11	20%	0.40	R-49	R-18	R-19	R-12	R-3	R-13		High Heating
12	20%	0.35	R-38	R-19	R-15	R-9	R-2	R-8		High Heating
13	25%	0.35	R-49	R-20	R-21	R-14	R-5	R-16		High Heating
14	25%	0.30	R-49	R-18	R-15	R-9	R-2	R-9		High Heating