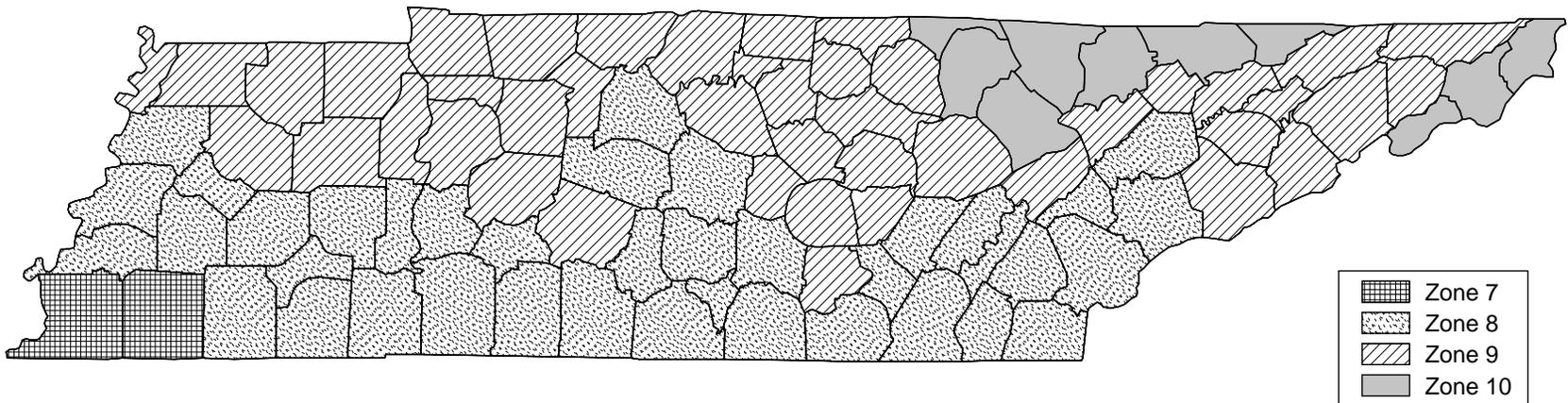


TENNESSEE

Zone	County	Zone	County	Zone	County	Zone	County	Zone	County	Zone	County	Zone	County	Zone	County
9	Anderson	10	Claiborne	10	Fentress	9	Hawkins	8	Lauderdale	8	Meigs	9	Roane	9	Trousdale
8	Bedford	9	Clay	8	Franklin	8	Haywood	8	Lawrence	8	Monroe	9	Robertson	10	Unicoi
9	Benton	9	Cocke	9	Gibson	8	Henderson	8	Lewis	9	Montgomery	8	Rutherford	9	Union
8	Bledsoe	8	Coffee	8	Giles	9	Henry	8	Lincoln	8	Moore	10	Scott	9	Van Buren
8	Blount	8	Crockett	9	Grainger	9	Hickman	8	Loudon	10	Morgan	8	Sequatchie	9	Warren
8	Bradley	9	Cumberland	9	Greene	9	Houston	9	Macon	9	Obion	9	Sevier	9	Washington
10	Campbell	8	Davidson	9	Grundy	9	Humphreys	8	Madison	9	Overton	7	Shelby	8	Wayne
9	Cannon	9	De Kalb	9	Hamblen	9	Jackson	8	Marion	8	Perry	9	Smith	9	Weakley
9	Carroll	8	Decatur	8	Hamilton	9	Jefferson	8	Marshall	10	Pickett	9	Stewart	9	White
10	Carter	9	Dickson	10	Hancock	10	Johnson	9	Maury	8	Polk	9	Sullivan	8	Williamson
9	Cheatham	8	Dyer	8	Hardeman	8	Knox	8	Mcminn	9	Putnam	9	Sumner	9	Wilson
8	Chester	7	Fayette	8	Hardin	9	Lake	8	Mcnairy	8	Rhea	8	Tipton		



Prescriptive Packages - Zone 7

1995 Model Energy Code for Single-Family Buildings



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

Prescriptive Packages - Zone 8

1995 Model Energy Code for Single-Family Buildings



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

Prescriptive Packages - Zone 9

1995 Model Energy Code for Single-Family Buildings



Package	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area Percent ¹	Glazing U-Value 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-38	R-13	R-19	R-9	R-4	R-12	Normal
2	12%	0.45	R-30	R-13	R-15	R-7	R-2	R-9	Normal
3	15%	0.55	R-38	R-16	R-19	R-9	R-4	R-12	Normal
4	15%	0.45	R-38	R-13	R-19	R-8	R-3	R-11	Normal
5	18%	0.50	R-38	R-19	R-19	R-9	R-5	R-13	Normal
6	18%	0.40	R-30	R-15	R-19	R-9	R-5	R-13	Normal
7	22%	0.40	R-38	R-16	R-19	R-9	R-6	R-13	Normal
8	12%	0.70	R-26	R-13	R-13	R-6	R-0	R-7	High Heating
9	15%	0.60	R-38	R-11	R-13	R-6	R-0	R-8	High Heating
10	18%	0.60	R-30	R-13	R-19	R-8	R-2	R-14	High Heating
11	22%	0.50	R-26	R-13	R-19	R-9	R-2	R-15	High Heating
12	12%	0.60	R-38	R-13	R-19	R-9	R-5	R-13	High Cooling
13	15%	0.50	R-38	R-14	R-19	R-9	R-4	R-12	High Cooling
14	18%	0.45	R-38	R-15	R-19	R-9	R-6	R-13	High Cooling
15	22%	0.40	R-38	R-19	R-15	R-8	R-2	R-10	High Cooling
16	12%	0.75	R-30	R-13	R-11	R-6	R-0	R-7	High Heat/Cool
17	15%	0.70	R-30	R-13	R-15	R-7	R-2	R-11	High Heat/Cool
18	15%	0.60	R-26	R-13	R-11	R-6	R-0	R-7	High Heat/Cool
19	18%	0.60	R-30	R-11	R-19	R-8	R-2	R-14	High Heat/Cool
20	22%	0.55	R-38	R-13	R-19	R-8	R-2	R-14	High Heat/Cool

Prescriptive Packages - Zone 10

1995 Model Energy Code for Single-Family Buildings



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

-- Hyphens (--) indicate that the package which contains the hyphens cannot be used with the indicated foundation type (slab or crawl space).

Prescriptive Packages - Zone 7

1995 Model Energy Code for Multi-Family Buildings



Package	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area Percent ¹	Glazing U-Value 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	20%	0.55	R-30	R-13	R-11	R-4	R-0	R-4	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%	0.45	R-30	R-13	R-19	R-7	R-4	R-8	Normal
8	15%	0.90	R-19	R-11	R-11	R-4	R-0	R-4	High Heating
9	20%	0.75	R-19	R-13	R-13	R-4	R-0	R-5	High Heating
10	25%	0.65	R-30	R-13	R-11	R-4	R-0	R-4	High Heating
11	30%	0.55	R-26	R-11	R-13	R-5	R-0	R-6	High Heating
12	15%	0.75	R-26	R-13	R-11	R-4	R-0	R-4	High Cooling
13	20%	0.65	R-30	R-13	R-15	R-6	R-2	R-6	High Cooling
14	20%	0.55	R-26	R-11	R-11	R-4	R-0	R-4	High Cooling
15	25%	0.50	R-38	R-13	R-11	R-4	R-0	R-4	High Cooling
16	30%	0.40	R-26	R-13	R-11	R-4	R-0	R-4	High Cooling
17	15%	0.90	R-13	R-11	R-11	R-4	R-0	R-5	High Heat/Cool
18	20%	0.75	R-19	R-11	R-11	R-4	R-0	R-4	High Heat/Cool
19	25%	0.65	R-19	R-11	R-13	R-5	R-0	R-5	High Heat/Cool
20	30%	0.60	R-30	R-11	R-13	R-5	R-0	R-6	High Heat/Cool

Prescriptive Packages - Zone 8

1995 Model Energy Code for Multi-Family Buildings



Package	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area Percent ¹	Glazing U-Value 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	20%	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%	0.45	R-38	R-19	R-11	R-5	R-0	R-5	Normal
8	30%	0.45	R-30	R-13	R-19	R-8	R-5	R-10	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-11	R-5	R-0	R-5	High Heating
11	25%	0.65	R-26	R-11	R-13	R-5	R-0	R-6	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-30	R-13	R-11	R-5	R-0	R-5	High Cooling
14	20%	0.70	R-30	R-15	R-19	R-8	R-5	R-11	High Cooling
15	20%	0.60	R-38	R-11	R-13	R-5	R-0	R-5	High Cooling
16	25%	0.60	R-38	R-17	R-15	R-7	R-2	R-8	High Cooling
17	25%	0.50	R-38	R-13	R-11	R-5	R-0	R-5	High Cooling
18	30%	0.45	R-38	R-13	R-13	R-6	R-2	R-6	High Cooling
19	15%	0.90	R-13	R-11	R-11	R-5	R-0	R-5	High Heat/Cool
20	20%	0.90	R-38	R-13	R-13	R-5	R-0	R-6	High Heat/Cool
21	25%	0.65	R-26	R-11	R-11	R-4	R-0	R-4	High Heat/Cool
22	30%	0.60	R-30	R-13	R-11	R-5	R-0	R-5	High Heat/Cool

Prescriptive Packages - Zone 9

1995 Model Energy Code for Multi-Family Buildings



Package	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area Percent ¹	Glazing U-Value 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%	0.45	R-38	R-13	R-11	R-5	R-0	R-5	Normal
7	30%	0.40	R-38	R-11	R-13	R-6	R-2	R-7	Normal
8	15%	0.90	R-19	R-11	R-11	R-5	R-0	R-5	High Heating
9	20%	0.75	R-26	R-11	R-11	R-5	R-0	R-6	High Heating
10	25%	0.65	R-30	R-13	R-11	R-5	R-0	R-6	High Heating
11	30%	0.55	R-26	R-11	R-13	R-6	R-0	R-7	High Heating
12	15%	0.75	R-38	R-13	R-11	R-5	R-0	R-5	High Cooling
13	15%	0.70	R-26	R-13	R-11	R-5	R-0	R-5	High Cooling
14	20%	0.60	R-38	R-13	R-13	R-6	R-0	R-6	High Cooling
15	25%	0.50	R-26	R-13	R-15	R-7	R-2	R-9	High Cooling
16	30%	0.45	R-26	R-13	R-19	R-9	R-5	R-13	High Cooling
17	15%	0.90	R-13	R-11	R-13	R-6	R-0	R-8	High Heat/Cool
18	20%	0.75	R-19	R-11	R-11	R-5	R-0	R-6	High Heat/Cool
19	25%	0.70	R-38	R-11	R-13	R-6	R-0	R-8	High Heat/Cool
20	25%	0.65	R-19	R-13	R-13	R-6	R-0	R-7	High Heat/Cool
21	30%	0.60	R-38	R-11	R-13	R-6	R-0	R-8	High Heat/Cool
22	30%	0.55	R-26	R-11	R-11	R-5	R-0	R-6	High Heat/Cool

Prescriptive Packages - Zone 10

1995 Model Energy Code for Multi-Family Buildings



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

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 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-values 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-value table in Appendix B. Center-of-glass U-values 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 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 or mass (concrete, masonry, log) wall constructions, but do not apply to metal-frame construction. Metal-frame wall equivalent R-values can be found in Appendix C.
- 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-value 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-values 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-value 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-value table in Appendix B. If a door contains glass and an aggregate U-value rating for that door is not available, include the glass area of the door with your windows and use the opaque door U-value to determine compliance of the door. One door may be excluded from this requirement (i.e., may have a U-value 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-value of all windows or doors is less than or equal to the U-value requirement (0.35 for doors). Use the *R-Value/U-Value Weighted Average Worksheet* for these computations.