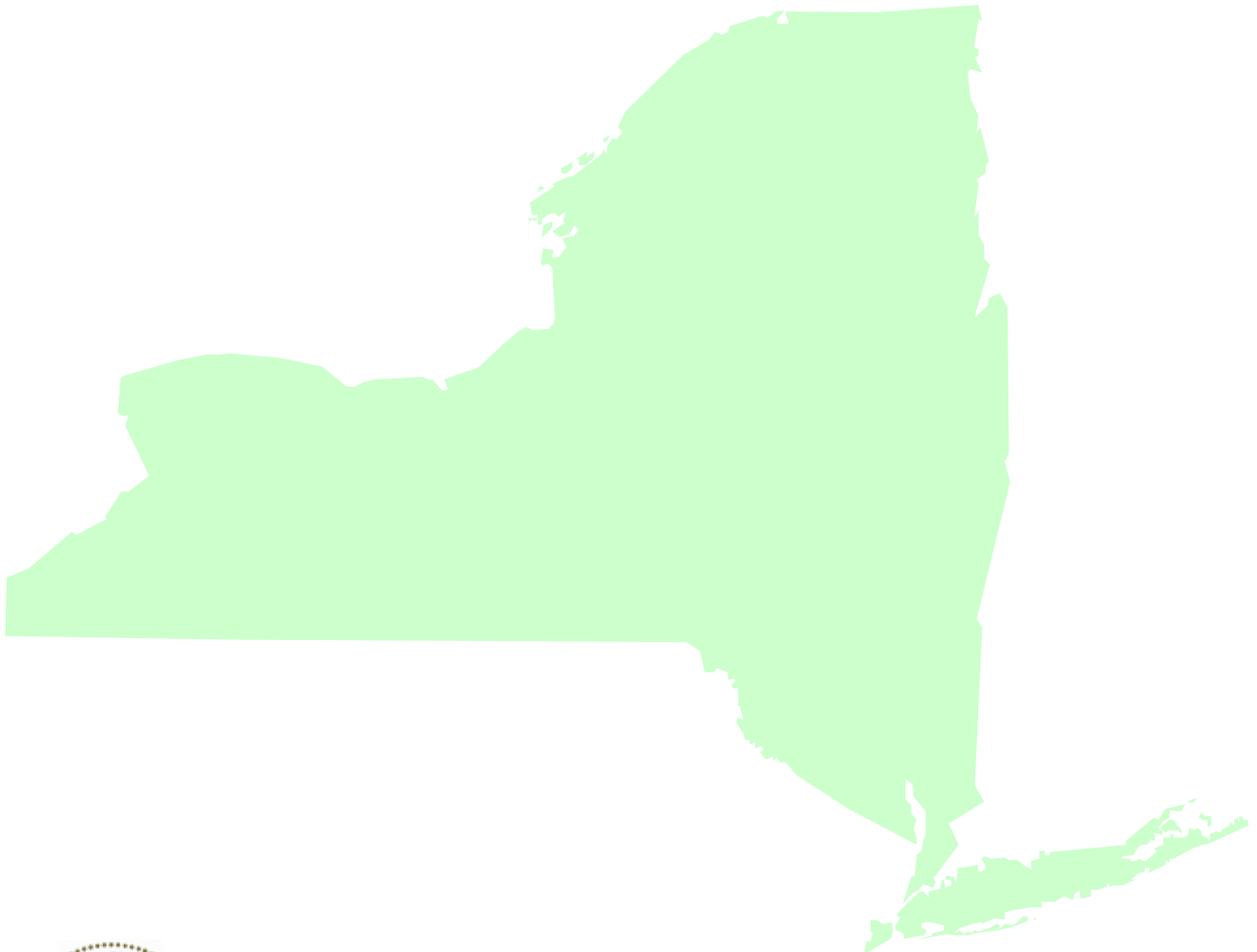


Residential Prescriptive Packages

For Compliance with the
2002 New York State Energy Conservation Construction Code



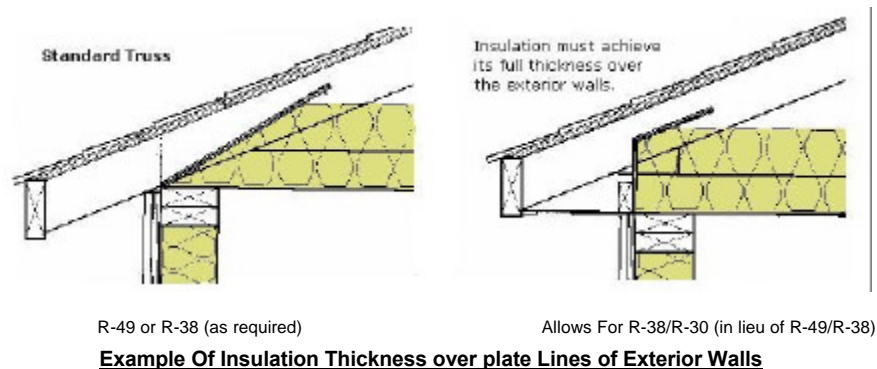
New York State Department of State
Division of Code Enforcement & Administration
41 State Street, Suite 1130
Albany, NY 12231
Phone: (518)-474-4073

Prescriptive Packages for the 2002 New York State Energy Conservation Construction Code

The following Footnotes and Notes apply to all of the Prescriptive Package tables.

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 Chapter 1. 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 as shown in Table A6 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.

Table A6
FOUNDATION INSULATION DEPTH

HEATING DEGREE DAYS	DEPTH BELOW GRADE
Less Than or Equal to 5000	24"
5001 - 6000	24"
6001 - 7000	48"
7001 - 8000	48"
8001 - 9000	84"

- ⁷ The R-value requirements are for unheated slabs. Add an additional R-2 for heated slabs.. 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.

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.

Table 1 / Zone 10B
One- and Two Family Dwellings
Prescriptive Packages - 2002 NYSECCC

Pkg	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

Table 2 / Zone 11B
One- and Two Family Dwellings
Prescriptive Packages - 2002 NYSECCC

Pkg	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

Table 3 / Zone 12B
One- and Two Family Dwellings
Prescriptive Packages - 2002 NYSECCC

Pkg	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

Table 4 / Zone 13A
One- and Two Family Dwellings
Prescriptive Packages - 2002 NYSECCC

Pkg	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

Table 5 / Zone 14A
One- and Two Family Dwellings
Prescriptive Packages - 2002 NYSECCC

Pkg	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

Table 6 / Zone 15
One- and Two Family Dwellings
Prescriptive Packages - 2002 NYSECCC

Pkg	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

Table 7 / Zone 16
One- and Two Family Dwellings
Prescriptive Packages - 2002 NYSECCC

Pkg	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	--	--	
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

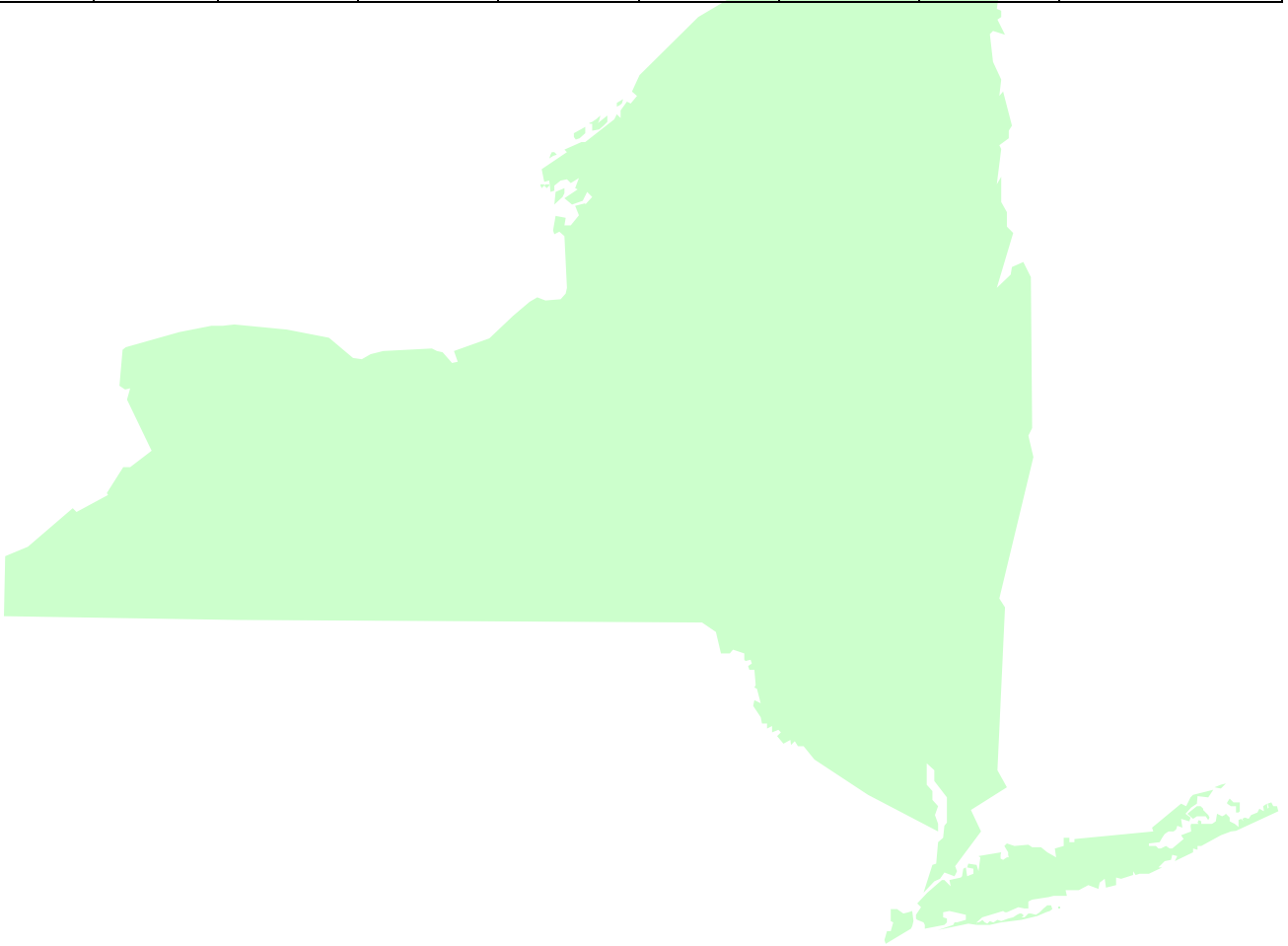


Table 8 / Zone 10B
Multi-Family
Prescriptive Packages - 2002 NYSECCC

Pkg	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

Table 9 / Zone 11B
Multi-Family
Prescriptive Packages - 2002 NYSECCC

Pkg	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area %	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	
11	30%	0.40	R-26	R-11	R-19	R-9	R-4	R-14	
12	30%	0.35	R-26	R-13	R-11	R-5	R-0	R-5	
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

Table 10 / Zone 12B
Multi-Family
Prescriptive Packages - 2002 NYSECCC

Pkg	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

Table 11 / Zone 13A
Multi-Family
Prescriptive Packages - 2002 NYSECCC

Pkg	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

Table 12 / Zone 14A
Multi-Family
Prescriptive Packages - 2002 NYSECCC

Pkg	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area %	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%	0.50	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

Table 13 / Zone 15
Multi-Family
Prescriptive Packages - 2002 NYSECCC

Pkg	MAXIMUM		MINIMUM						Heating/Cooling Equipment Efficiency ⁹
	Glazing Area %	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

Table 14 / Zone 16
Multi-Family
Prescriptive Packages - 2002 NYSECCC

Pkg	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

