THE CONNECTICUT LIGHT AND POWER COMPANY

RATE 5
CONSTRUCTION STANDARD RIDER

`Dwelling unit construction shall meet or exceed the following requirements in order to be eligible to receive electric service under Rate 5:

Building Component	Minimum Thermal Value of Component
Ceilings	R-38
Exterior Walls	R-26 If windows are rated <R-3.3 or R-19 If windows are rated ≥R3.3
Below Grade Walls or Floors Over Unheated Enclosed Spaces	R-11 R-19 or R-10 Around basement perimeter to two feet below grade
Basement Walls (finished and/or intentionally heated basement)	R-19*
Slab on grade	R-7
Overhang Floors (considered similar to floors over ambient air)	R-33
Interior Walls Between Separately Heated Units	R-11
Windows/Skylights	R-3.3 (with R-19 walls) or R-2.5 with R-26 walls (Overall Rating)

*Note: Basement walls above grade shall be insulated to match levels of exterior.

Supersedes Rate 5 Construction Standard Rider
Effective March 8, 1990

Effective July 1, 1993
By Decision dated June 16, 1993
Docket No. 92-11-11

Exterior Doors	R-8 (Overall Rating)

Performance Approach

The stated R value for any building component, such as the ceiling, wall, windows, doors, or floor may be decreased and other R values increased providing the total building energy performance meets or exceeds the building performance achieved using the prescriptive approach.

Air Infiltration

A residential building must achieve a minimum of 15 points from the following infiltration points scale in order to meet the infiltration standard. Mandatory measures must be completed in all cases.

Points		Construction Measure
Mandatory		All doors and windows caulked and weather-stripped.
Mandatory		Cover, caulk, seal, or weather strip all envelope joints around windows, between wall panels, and between floor/wall and wall/ceiling surfaces.
Mandatory		Cover, caulk, seal, or weather strip all envelope penetrations for plumbing, space-conditioning ducts, electricity, telephone, and other utility services.
Mandatory		Cover, caulk, seal, or weather strip all attic or basement openings for access panels, flues, or wall penetrations.
Mandatory		Provide backdraft or automatic dampers on all exhaust systems.
Mandatory		Fireplaces shall be enclosed with reasonably air-tight door assemblies fitted across the openings of the combustion area, and shall be fitted with materials to make them as leak proof as possible. Makeup combustion air must be provided from outside with an operable and readily accessible damper to avoid excessive losses of warm interior air during the winter.
13	(a)	Continuous air infiltration barrier installed on exterior side of exterior walls, with all joints and penetrations through the barrier sealed; the barrier must cover all joints in the building envelope, from sill to top plate, and must act as a gasket or be

		sealed to all window and door frames;
13	(b)	Continuous vapor retarder sheet (e.g., polyethylene sheeting of 4 mils, minimum) installed on heated-in-winter side of exterior walls, sealed at all penetrations (electrical outlets, window, and door frames); retarder must be continuous over all envelope joints and junctions (corners, band joist, interior partition meeting exterior wall, etc.), and must be lapped and sealed with acoustical sealant at all retarder joints; electrical outlets and switches in exterior wall must be gasketed with foam inserts, or of a proven airtight design.
20		(item a above) plus (item b above). The combined system yields 20 points.
1		All electrical outlets and switches in exterior walls gasketed with foam inserts (0 points if credit taken for an air infiltration barrier or continuous vapor retarder).
4		Interior partitions, duct drops, and cabinet soffits framed after installation of continuous vapor barrier (e.g., polyethylene sheeting) and continuous drywall on ceiling.
3		No recessed lighting fixtures installed in ceilings between conditioned and unconditioned spaces, or specification of "IC" (insulated ceiling) recessed light fixtures.
3		Windows and doors certified to have infiltration rates below 0.25 cfm per foot of crack (windows) or per square foot (doors).
2		Windows and doors certified to have infiltration rates from 0.26 to 0.34 cfm per foot of crack (windows) or per square foot (doors).
1		Windows and doors certified to have infiltration rates from 0.35 to 0.5 cfm per foot of crack (windows) or per square foot (doors).
1		Storm doors and windows provided.
5		Sealed and taped ductwork specified for all supply and return air ducts located in unconditioned space, if a duct system is used.