

RHODE ISLAND

STATE BUILDING CODE

STATE ENERGY CODE
REGULATION SBC-8
APRIL 1, 1998

Re-enactment of SBC-8
Dated May 1, 1997
Replaces Regulation SBC-19-94
Dated January 1, 1995



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Administration
BUILDING CODE STANDARDS COMMITTEE
One Capitol Hill
Providence, Rhode Island 02908-5859
(401) 222-3033
FAX NO. (401) 222-2599

7th EDITION

STATEMENT OF NEED

Pursuant to the State Building Code Chapter 23, Title 27.3, the Building Code Standards Committee has promulgated Regulation SBC-8, as amended, dated April 1, 1998. In accordance with section 23-27.3-109.1 paragraphs 1-4 of the Code, the Committee has the authority to adopt appropriate rules and regulations when necessary to maintain the State Building Code current with national model codes and standards.

**STATE OF RHODE ISLAND
BUILDING CODE STANDARDS COMMITTEE**

CHAIRMAN

J. Robert Wahlberg
Builder Heavy Construction

VICE CHAIRMAN

Gordon Preiss, P.E.
Reg. Prof. Engineer
(Mechanical)

EXECUTIVE COMMITTEE

Russell Brown
Building Official

Daniel Paquette
Builder

Donald Gagnon
Minimum Housing Inspector
Members

Frank Canario
Public Health Official

Mark Lowenstein
Representative of the Disabled

James Carlson
Public Member

Frank Montanaro
State Representative

John Cronin
Plumber

Dana Newbrook
Architect

Steve Durkee
Architect

Ronald Travers
Building Official

Thomas Lynch
Builders Trades Council

Joseph Walsh
Electrical Inspector

John Gaskell
Electrical Engineer

William Lepore
Electrical Contractor

Randall Collins
Landscape Architect

Donald Jacques
Representative of the Disabled

William Howe
Fire Official

Thomas Coffey
Legal Counsel

Richard Hanson
Public Member

Joseph A. Cirillo
State Building Commissioner
Executive Secretary

STATE ENERGY CODE
Regulation SBC-8-96
April 1, 1998

The Building Code Standards Committee, in accordance with the rule making authority of Title 23, Chapter 27.3, Section 109.1, paragraphs 1 through 4 inclusive, have formally adopted and promulgated as the Rhode Island State Energy Code, the CABO Model Energy Code 1995 edition, as published jointly by the Building Officials and Code Administrators International, Inc.; the International Conference of Building Officials; and the Southern Building Code Congress International, Inc., together with the existing State Building Code amendments and the amendments thereto hereinafter set forth to the chapters and sections of said Code.

CHAPTER 1

The following Rhode Island amendment is made to this section of Chapter 1:

Revise section 101.1 Title as follows

101.1 Title: This code shall be known as the Rhode Island State Energy Code and may be cited as such. It is referred to herein as "this code".

CHAPTER 3

DESIGN CONDITIONS

The following State of Rhode Island Criteria is added to the sections of Chapter 3, Table 302.1:

Table 302.1 Exterior Design Conditions

Winter	<u>Design Dry Bulb</u>	9° Degrees F
Summer	<u>Design Dry Bulb</u>	86° Degrees F
	<u>Design Wet Bulb</u>	74° Degrees F
Heating Degree Days		5950
Degrees North Latitude		41

Note: Exceptions can be made to the exterior design conditions in Table 302.1 according to special occupancy needs.

CHAPTER 5

The following Rhode Island amendment is made to this section of Chapter 5:

Insert the following values into Table 502.2.1

ELEMENT	MODE	TYPE A-1 <u>BUILDINGS</u> U_o	TYPE A-2 <u>BUILDINGS</u> U_o
Walls ²	Heating or Cooling	0.125	0.215
Roof/Ceiling	Heating or Cooling	0.026	0.026
Floors over unheated spaces	Heating or Cooling	0.05	0.05
Heated slab on grade ³	Heating	<u>R Value</u> 7.25	<u>R Value</u> 7.25
Unheated slab on grade ⁴	Heating	<u>R Value</u> 5.0	<u>R Value</u> 5.0
Basement wall ⁵	Heating or Cooling	<u>R Value</u> 10.4	<u>R Value</u> 10.4
Crawl Wall ^{5,6}	Heating or Cooling	<u>R Value</u> 16.67	<u>R Value</u> 16.67

CHAPTER 6

RESIDENTIAL BUILDING DESIGN BY ACCEPTABLE PRACTICE

The following Rhode Island amendment is added for the construction of 1 & 2 family dwellings in Chapter 6:
Add the following Table and notes to Chapter 6:

Table 602.0 Residential Buildings, Type A-1.

ELEMENTS		DESCRIPTIONS	INSULATION R VALUE	NOTES
Walls	Light	All wall description containing heated or mechanically cooled space	11.0	1, 6
	Heavy		11.0	
Roof/ceiling Assembly		All roof construction containing heated or mechanically cooled space	30.0	5, 7
Windows		All construction enclosing heated or mechanically cooled spaces	2.50	4
Doors		All construction enclosing heated or mechanically cooled spaces	3.0	4
Floors (Including band joists)		Floor sections over areas to outside air or unheated spaces	19.0	2
		Slab on grade beneath conditioned space	10.0	3

Notes to Table 602.0

1. These values may be used when the doors and windows do not exceed fifteen (15%) percent of the gross exterior wall area. When doors and windows exceed fifteen (15%) percent of the gross wall area, the maximum "R" value for the entire wall element shall increase to 13.0 or the requirements in Chapter 5 of this code shall apply.
2. Insulation may be omitted from floors over unheated areas when foundation walls are provided with a "R" value of eleven (11.0). Perimeter insulation must extend to four (4'-0") feet below grade or to the top of the footing, whichever is the less.
3. The "R" value for perimeter insulation when applied vertically for twenty-four (24) inches from grade.
4. Sliding glass doors shall be considered windows for the purpose of this table. One solid, hollow or decorative wood door can be substituted for the required R-3.0 door.
5. Roof/ceiling assemblies in which the finished interior surface is the underside of the roof sheathing, or where a "Cathedral Ceiling" or sloped roof/ceiling assemblies are used, shall have a minimum "R" value of nineteen (19.0) for the insulation, provided an insulation with a "R" value of thirteen (13.0) is used in all exterior walls.
6. Light wall construction is defined as concrete or masonry walls having a weight of less than 30 pounds per square foot and solid wood walls having a weight of less than 20 pounds per square foot. Heavy walls are those walls with weights greater than light walls.
7. Skylights are permitted in the roof/ceiling assembly provided the R-value of the skylight is at least 3.0 and the area of skylights does not exceed 5% of the total roof/ceiling assembly area.

STATE BUILDING CODE REGULATION – 1998

The following list includes all regulations promulgated by the State Building Code Standards Committee. All regulations are available for a fee at the State Building Commission.

1.	Building Code.....	SBC-1
2.	One and Two Dwelling Family Dwelling Code.....	SBC-2
3.	Plumbing Code.....	SBC-3
4.	Mechanical Code.....	SBC-4
5.	Electrical Code.....	SBC-5
6.	Manufactured Buildings and Building Components....	SBC-6
7.	ANSI A225.1 Manufactured Home Installation Standard.....	SBC-7
8.	State Energy Code.....	SBC-8
9.	Enforcement and Implementation Procedures for Projects Under the Jurisdiction of the State of Rhode Island.....	SBC-9
10.	Code Interpretations.....	SBC-10
11.	Certification of Building Officials, Building, Electrical, Plumbing and Mechanical Inspectors.....	SBC-11
12.	New Materials and Methods of Construction.....	SBC-12
13.	State Building Code For Existing Schools.....	SBC-13
14.	Accessibility for Individuals with Disabilities for Residential Use Groups R-2 and R-3.....	SBC-14
16.	Accessibility for Individuals with Disabilities in State and Local Government Facilities.....	SBC-15
17.	Accessibility for Individuals with Disabilities.....	SBC-16
18.	Public Buildings Accessibility Meeting Standards.....	SBC-17
19.	Native Lumber.....	SBC-18