

CHAPTER 189
SB 342 – FINAL VERSION

03/07/12 0995s
05/23/12 2345EBA

2012 SESSION

12-2858
08/04

SENATE BILL **342**

AN ACT relative to the inclusion of requirements for log structures in the state building code.

SPONSORS: Sen. Groen, Dist 6; Sen. Forrester, Dist 2; Sen. De Blois, Dist 18; Rep. Groen, Straf 1; Rep. C. McGuire, Merr 8; Rep. Winter, Merr 3

COMMITTEE: Public and Municipal Affairs

AMENDED ANALYSIS

This bill requires the state building code review board to adopt amendments to the state building code regulating the design and construction of log structures.

Explanation: Matter added to current law appears in **bold italics**.
 Matter removed from current law appears ~~[in brackets and struck through]~~.
 Matter which is either (a) all new or (b) repealed and reenacted appears in regular type.

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STATE OF NEW HAMPSHIRE

In the Year of Our Lord Two Thousand Twelve

AN ACT relative to the inclusion of requirements for log structures in the state building code.

Be it Enacted by the Senate and House of Representatives in General Court convened:

1 189:1 New Section; Code Requirements; Log Structures. Amend RSA 155-A by inserting after
2 section 3-a the following new section:

3 155-A:3-b Code Requirements; Log Structures.

4 I. Notwithstanding any provisions of the state building code or state fire code, the state
5 building code review board shall adopt amendments to the state building code regulating the design
6 and construction of log structures. The adopted amendments shall include ICC 400 Standard on the
7 Design and Construction of Log Structures.

8 II. The amendments adopted under paragraph I shall be ratified by appropriate legislation
9 within 2 years of their adoption. If such amendments are not ratified, then the amendments shall
10 expire at the end of the 2-year period.

11 189:2 Effective Date. This act shall take effect upon its passage.

12 Approved: June 11, 2012

13 Effective Date: June 11, 2012

TABLE 305.3.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

CLIMATE ZONE	LOG WALL, W_L^h	FENESTRATION U-FACTOR ^b	SKYLIGHT U-FACTOR ^b	FENESTRATION SHGC ^b	CEILING R-VALUE	WOOD FRAME WALL R-VALUE ^c	FLOOR R-VALUE ^{d,e}	BASEMENT ^f / CRAWL WALL R-VALUE	SLAB R-VALUE & DEPTH	HEATED SLAB R-VALUE ^g
1	5" min.	0.50	0.75	0.25	30	13	13	0	0	5
2	5" min.	0.40	0.65	0.25	38	13	13	0	0	5
3	5" min.	0.35	0.55	0.25	38	20 or 13 + 5	19	5 / 13	5, 2-ft.	5
4 & MARINE	5" min.	0.33	0.55	0.40	49	20 or 13 + 5	19	10 / 13	10, 2-ft.	10
5		0.32	0.55	NR	49	20 or 13 + 5	30	15 / 19	10, 2-ft.	10
EXCEPT MARINE	5" SG ≤ 0.50;	0.30	0.55	NR	49	20 or 13 + 5	30	15 / 19	15, 4-ft.	15
6	7" SG > 0.50	0.30	0.55	NR	49	20 + 5 or 13 + 10	38	15 / 19	15, 4-ft.	15
7 & 8										

For SI: 1 foot = 304.8 mm.

Notes to Table 305.3.1.2:

- a. R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed R-value of the insulation shall not be less than the R-value specified in the table.
- b. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in climate zones 1-3, where the SHGC for such skylights does not exceed 0.30.
- c. "13+5" means R-13 cavity insulation plus R-5 continuous insulation. If structural sheathing covers 25 percent or less of the exterior, insulating sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25 percent of exterior, structural sheathing shall be supplemented with insulated sheathing of at least R-2.
- d. Or insulation sufficient to fill the framing cavity, with R-19 as the absolute minimum in Climate Zones 5-8.
- e. Insulate perimeter of floor system to match floor R-value requirement with basement/crawl foundations.
- f. "15 / 19" means R-15 continuous insulation on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. "15 / 19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-10 continuous insulation on the interior or exterior of the home.
- g. The required insulation shall be installed beneath the entire slab for heated slabs.
- h. W_L is the average wall-log width. Nominal callouts will be larger (e.g., a 5" log would be 6x or 7" diameter; a 7" log would be 8x or 9" diameter). SG = specific gravity.