

CHAPTER 23 – WOOD - AMENDMENTS

The ninth edition building code became first effective on October 20, 2017 and, with a shortened concurrency period, the new code came into full force and effect on **January 1, 2018**.

The new, ninth edition code is based on modified versions of the following *2015 International Codes as published by the International Code Council (ICC)*.

- The International Building Code (IBC);
- International Residential Code (IRC);
- International Existing Building Code (IEBC);
- International Mechanical Code (IMC);
- International Energy Conservation Code (IECC);
- International Swimming Pool and Spa Code (ISPSC);
- Portions of the International Fire Code (IFC).

Massachusetts amends these code fairly significantly to accommodate for unique issues in the commonwealth. This package of amendments revise the IBC, IEBC, IMC, and IECC.

Please remember that the Massachusetts amendments posted on-line are *unofficial versions* and are meant for convenience only. Official versions of the Massachusetts amendments may be purchased from the State House Bookstore @ [Shop the Bookstore](#) and any of the I-Codes may be purchased from the International Code Council (ICC) @ iccsafe.org.

Additionally, the ICC publishes transition documents that identify changes from the 2009 to the 2015 I-Codes for those who may have interest.

- [International Building Code \(IBC\) Transition](#)
- [International Residential Code \(IRC\) Transition](#).

780 CMR: MASSACHUSETTS AMENDMENTS TO THE *INTERNATIONAL BUILDING CODE 2015*

CHAPTER 23: WOOD

2303.1.14 Add subsection and table as follows:

2303.1.14 Native Lumber. Native lumber shall be acceptable for use in one- and two-family dwellings, barns, sheds, and agricultural and accessory structures. Native lumber shall also be acceptable for use in one- or two-story structures as columns when the design loads are 25% greater than required in 780 CMR 16.00: *Structural Design*; as joists, principal beams, and girders in floor constructions when the design loads are 15% greater than required in 780 CMR 16.00; and as other elements when the design loads are as required in 780 CMR 16.00.

When native lumber is used, it shall be subject to the following requirements:

1. Sizing Criteria: For lumber, sized in accordance with the DOC PS-20, figures for maximum fiber stress and modulus of elasticity for framing grade No. 2 shall be used in establishing span and spacing characteristics for all structural members.
2. Stress Criteria: Lumber which is sized in excess of the dimensions established by the DOC PS-20 for the given nominal size referenced shall be allowed to have a maximum fiber stress increase above that provided in section 2303.1.14 item 1 in proportion to the increased bearing capacity of the cross section as provided in Table 2303.1.14.

TABLE 2303.1.14 NATIVE LUMBER - ALLOWABLE STRESSES

Nominal size	Actual lumber size (closest size which does not exceed the size shown) width (in.) x height (in.)	Multiplier factor based on lumber width	Value to be added to multiplier factor for lumber with larger widths than those shown in column two for width increases:	
			> ¼ and ≤ ½ in.	> ½ and ≤ 1 in.
3 x 8	2½ x 7½	1.0 x Fs	0.10	0.20
	2½ x 7¾	1.07		
	2½ x 8	1.14		
3 x 10	2½ x 9½	1.0	0.10	0.20
	2½ x 9¾	1.05		
	2½ x 10	1.11		
3 x 12	2½ x 11½	1.0	0.10	0.20
	2½ x 11¾	1.04		
	2½ x 12	1.09		
3 x 14	2½ x 13½	1.0	0.10	0.20
	2½ x 13¾	1.04		
	2½ x 14	1.07		
4 x 10	3½ x 9½	1.0	0.07	0.14
	3½ x 9¾	1.05		
	3½ x 10	1.11		
4 x 12	3½ x 11½	1.0	0.07	0.14
	3½ x 11¾	1.04		
	3½ x 12	1.09		
4 x 14	3½ x 13½	1.0	0.07	0.14
	3½ x 13¾	1.04		
	3½ x 14	1.08		

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