



NYC Buildings Department
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Purpose: This document identifies which reference standards and test methods are acceptable for the determination of allowable tension stresses in wood parallel to the grain.

Related Code/Zoning Section(s):

BC 1713.1 (2008 Code)	BC 3502
BC 1714.1 (2014 Code)	
RS 10-8	

Subject(s): Wood design, allowable stress; Wood design, tensile stress

In accordance with Section BC 1713.1 (BC 1714.1 of the 2014 NYC Building Code effective October 1, 2014), for the purpose of performing engineering assessments of wood structures, engineering analyses of such structures shall not use allowable stresses for tension parallel to grain that were derived from allowable extreme fiber in bending. Acceptable referenced standards for the purposes of evaluating wood structures include, as applicable, the 1968 NYC Building Code Reference Standard RS 10-8 (American Forest & Paper Association (AF&PA) 1991 National Design Specifications (NDS) for Wood Construction with 1991 Supplement and 1993 revisions, as modified in RS 10-8), or the 2008/2014 Building Code's reference standard AF&PA NDS-01 (National Design Specification for Wood Construction with 2001 Supplement). Earlier editions of these referenced standards shall not be used.

Alternatively the analyses of wood structures may use allowable tensile values derived from testing of in-situ material in compliance with ASTM D4761-2013 Standard Test Methods for Mechanical Properties of Lumber and Wood-Base Structural Material.