



Designation: D 3737 – 023

Standard Practice for Establishing Allowable Properties for Structural Glued Laminated Timber (Glulam)¹

This standard is issued under the fixed designation D 3737; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers the procedures for establishing allowable properties for structural glued laminated timber. Properties considered include bending, tension and compression parallel to the grain, modulus of elasticity, horizontal shear, compression perpendicular to the grain and radial stresses in curved members.

1.2 This practice is limited to the calculation of allowable properties subject to the given procedures for the selection and arrangement of grades of lumber of the species considered.

1.3 Requirements for production, inspection and certification are not included, but in order to justify the allowable properties developed using procedures in this practice, manufacturers must conform to recognized manufacturing standards. Refer to ANSI/AITC A190.1 and CSA 0122.

1.4 Allowable properties established by use of this practice are based on dry conditions of use (less than 16 % moisture content). Modifications for wet-use conditions are given in 9.2.

1.5 The values stated in inch-pound units are to be regarded as standard.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*

¹ This practice is under the jurisdiction of ASTM Committee D07 on Wood and is the direct responsibility of Subcommittee D07.02 on Lumber and Engineered Wood Products.

Current edition approved ~~Sept. 10, 2002~~ Sept. 10, 2002. Published ~~November 2002~~ September 2003. Originally published as D 3737—78; approved in 1978. Last previous edition approved in 2002 as D 3737 – 0142.