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## ASTM Standardization News



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## Structural Engineered Bamboo

Revision Adds Bamboo to ASTM Standard for Structural Composite Lumber Products



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A revision to ASTM International standard [D5456](#), Specification for Evaluation of Structural Composite Lumber Products, added bamboo as a fiber material that can be used in the manufacture of SEB (Structural Engineered Bamboo) products covered in the standard.



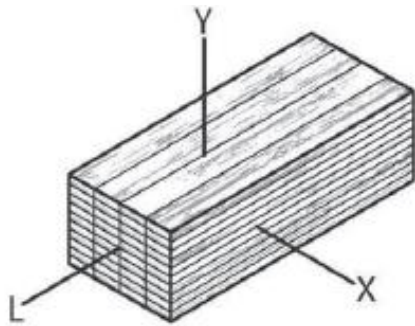
D5456 is under the jurisdiction of Subcommittee D07.02 on Lumber and Engineered Wood Products, part of ASTM International Committee [D07](#) on Wood. D5456 was originally approved in 1993 and specifies the procedures necessary for a group of engineered wood composite products to be evaluated for all structural design properties that would allow them to be used as substitutes for solid sawn lumber and glue-laminated timbers in residential and commercial building construction.

*Pictured: Luke D. Schuette, Chairman of ASTM Task Group D07.02.03 and Innovator of Structural Engineered Bamboo and Founder of ReNüTeq, Inc. and other ASTM Voting members.*

**"Up until now, D5456 made reference to the traditional wood species used for solid sawn lumber,"** says [Luke D. Schuette](#), president, [ReNüTeq, Inc.](#), Chairmen and a voting member of D07.02.03 **"The proposed revision adds bamboo as another ligno-cellulosic fiber material that can be used in the manufacture of these products."**

Revisions included the addition of a definition for laminated veneer bamboo and direction on how LVB/[SEB \(Structural Engineered Bamboo\)](#) would be evaluated to develop structural design values. Anyone with an interest in the development of new engineered structural component products is invited to join D07.02. The subcommittee is particularly interested in participation from those who have knowledge of bamboo and who could aid in drafting revisions to the standard that would address any differences between bamboo and traditional wood species.

Primary users of D5456 are manufacturers of engineered wood products, code qualification agencies and third-party certification agencies.



LVB

FIG. 1 Orientations for Structural Composite Lumber

3.2.2.2 *laminated veneer bamboo (LVB/SEB) Structural Engineered Bamboo* -a composite of bamboo strand elements, edge-bonded to form veneer sheets which are then face-bonded to form finished products, with bamboo fibers primarily oriented along the longitudinal axis of the member where the least dimension of strand elements is 0.25 in. (6.4 mm) or less and their average strand lengths are a minimum of 300 times the least



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