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**Timber structures — Glued laminated  
timber — Assignment of glued  
laminated timber characteristic values  
from laminate properties**

*Structures en bois — Bois lamellé-collé — Valeurs caractéristiques du  
bois lamellé-collé sur la base des propriétés des lamelles*

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## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 165, *Timber structures*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

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## Introduction

This document was prepared in response to the growing interest in development of the strength and stiffness of structural glued laminated timber (glulam) from the characteristic values of lumber laminations.

Since its first introduction in 1890s, glulam has been used in timber construction for over 125 years with excellent track record of performance. Many countries around the world, which have experience in glulam construction, have various glulam production capabilities that are supported by methodologies or analytical models for development of glulam strength and stiffness from the characteristic values of lumber laminations. This document reviews methodologies from Europe, the USA, Australia/New Zealand, and Canada that have successfully demonstrated their acceptance through years of practice and end uses.

This document does not cover all methodologies around the world and is not intended to exclude other methodologies that can demonstrate their capabilities of correlating the analytical results with the actual product performance. This document will be updated with those additional methodologies when their documentation becomes available in the future.

This document promotes the understanding of the differences between methodologies as a first step toward an international harmonization in the process of assigning glulam characteristic values from laminate properties.

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