



# Dimensional Tolerance Guide



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**Structural  
laminated  
timber  
products,**



## 1 Conditions

On-site evaluation of glulam dimensions must take into account both the size tolerances permitted at the time of manufacture as listed below, and possible changes that may have occurred in a member due to changes in moisture content after leaving the manufacturing facility.

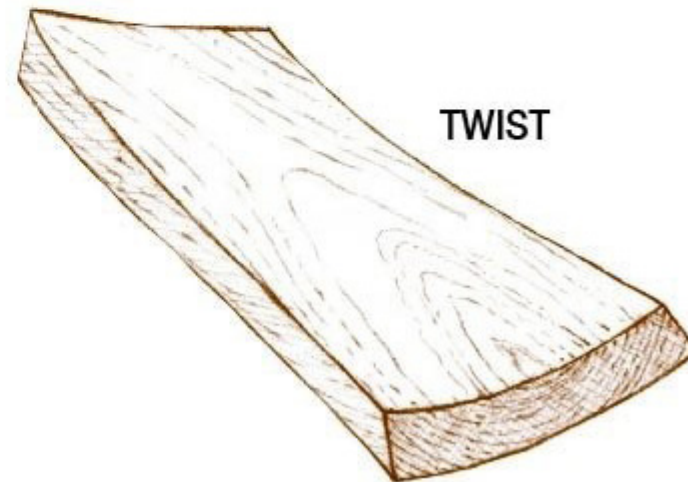
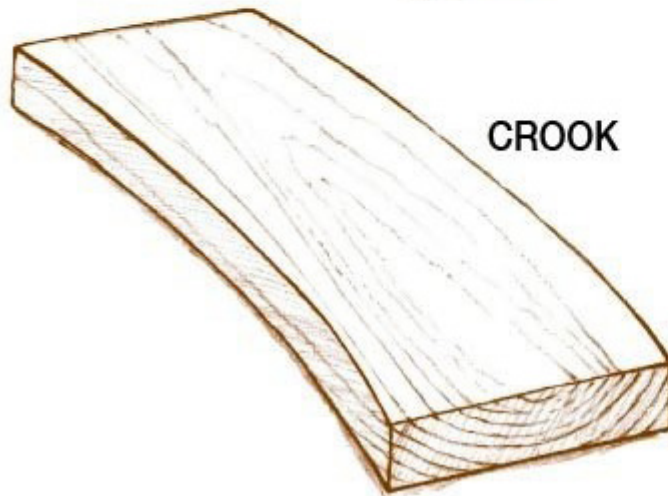
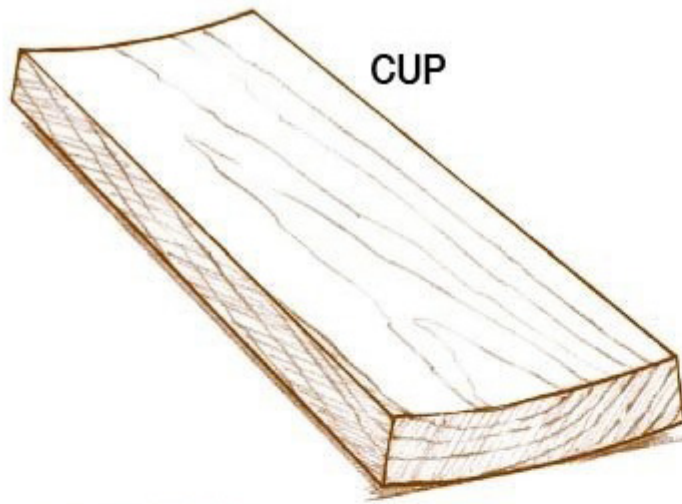
## 2 Tolerance

- Tolerances for crook/camber/straightness are applicable at the time of manufacture without allowance for live or dead load deflection. The tolerance is 1mm per 1.0m to a maximum of 6 mm over 6.0m. Over 6.0m the tolerance shall increase 3 mm per each additional 6.0m or fraction thereof, but not to exceed 19mm.
- Tolerances for bow shall be <15mm over a 2.4m length (<30mm for a 4.8m long member, etc) Note: This is specific to 42mm & 65mm products.
- Tolerance for squareness of cross section shall be within  $\pm 2$  mm per 305mm of specified depth unless a specially shaped section is specified. Squareness shall be measured by placing one leg of a square across a top and/or bottom face and measuring the offset from the other leg of the square to the member at the opposite face of the beam.
- Dimensional tolerances permitted at the time of manufacture shall be as follows:  
Width:  $\pm 2$ mm.  
Depth: Plus 3mm per 305mm of depth. Minus 5mm or 2mm per 305mm of depth, whichever is larger.
- Length: Up to 6.0m,  $\pm 2$ mm. Over 6.0m,  $\pm 2$ mm per 6.0m of length or fraction thereof.
- All other tolerances for measurements not addressed above shall be as agreed upon between buyer and seller.

Size and shape of the laminated timber shall be as agreed upon between buyer and seller.



Common types of warping below





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