

Permissible limits for General Structural Temperate Hardwood (THB & TH2) visual strength grades to BS 5756: 2007 + A2 2017

Grade	THB (D30)	TH2 (D24)
	For timber with a thickness equal to or greater than 100mm and a cross sectional area equal to or greater than 20,000mm (squared)	For timber with a minimal thickness of 20mm and a minimum cross-sectional area of 20,000mm (squared)
Knots	Not Greater than 0.75 of the thickness or width to which it relates	Not Greater than 0.75 of the thickness or width to which it relates
Longitudinal separation of Knots	Knots accumulative if longitudinal separation is less than twice the width or 300mm (whichever is the lesser) or when the grain has not fully recovered	
FISSURES (See Note 1)		
<i>Through the Thickness</i>	Only permitted at ends with length not greater than the width of the piece	
<i>Not through the Thickness</i>	Not greater than 1m or quarter the length of the piece	
Wane	Full edge and face dimensions may be reduced by up to one third of the dimensions of the piece. Length of wane is unlimited	
DISTORTION		
<i>Bow</i>	Not greater than 10mm over a length of 2m	
<i>Spring</i>	Not greater than 8mm over a length of 2m	
<i>Twist</i>	Not greater than 1mm per 25mm width over a length of 2m	
<i>Cup</i>	Unlimited	
Bark Pockets	Within 500mm of the ends, not greater than the width of the piece. Elsewhere not greater than 1.5 times the width or 0.2 times the length of the piece, whichever is the lesser	
Biological Damage and other defects	Worm holes and pin holes are permitted provided they conform to the requirements in 4.8 of BS 5756: 2007. No active infestation is permitted. No decay is permitted other than in unsound Knots. Stain free from decay is permitted	

1 - The length of fissures and the amount of distortion are linked with moisture content, therefore the limits given can only be applicable at the time of grading