

EUROPEAN STANDARD

NORMATIVE EN 11538-1
NORMATIVE EN 11538-2



Characteristics	Wood elements - hardwood	Wood elements -softwood
Sound and intergrown knots Dimensions on the exposed face	Diameter $\leq 25\%$ of the width of the element	Diameter $\leq 40\%$ of the width of the element
Sound and intergrown knots Frequency on the exposed face	3/m*	3/m***
Dead or partially intergrown knots	Not permitted	Not permitted
Sapwood	Only permitted for elements with durability conferred by deep treatment with preservative products	Only permitted for elements with durability conferred by deep treatment with preservative products
Chamfers***	Not permitted	Not permitted
Checks on the edges	Not permitted	Not permitted
Checks on the exposed face	Permitted if: depth $\leq 1/3$ of the thickness of the element width $\leq 0,5$ mm length ≤ 100 mm	Permitted if: depth $\leq 1/3$ of the thickness of the element width $\leq 0,5$ mm length ≤ 100 mm
Cracks on the edges	Not permitted	Not permitted
Deep or traversing checks	Not permitted	Not permitted
Non-traversing checks at the ends of the element	Permitted if the length < 20 mm	Permitted if the length < 30 mm
Slope of grain	Permitted, provided they do not generate deformations that exceed the limits shown in clause 5.2.3.4	Permitted, provided they do not generate deformations that exceed the limits shown in clause 5.2.3.4
Pith and false heartwood	Not permitted	Not permitted
Injury and mechanical damage	Permitted on the non-visible face provided that the depth is less than or equal to 2 mm	Permitted on the non-visible face provided that the depth is less than or equal to 2 mm
Biodeterioration	Not permitted, except blue stain and pinworm holes	Not permitted, except blue stain and pinworm holes
Bark pockets	Not permitted	Not permitted

* Sound knots with diameter less than or equal to 10 mm are not taken into consideration.

** Sound knots with diameter less than or equal to 25 mm are not taken into consideration.

*** As defined in UNI EN 13756. Chamfers and mechanical machining of the individual elements are not taken into consideration.

5.2.3.4 Maximum Strain
Cup: 1% of the width of the piece
Spring: 2 mm/m
Twist: 2 mm/m