

Fir (*Abies alba*)



Growth area: Central- and Southern Europe.

Trees: Height over 30m. Diameter on average 70 cm.

Description: Colour from white to greywhite with sometimes a purple glance. There is no difference in colour between the heart- and sapwood. Mostly the round knots are brownblack of colour.

Texture/Figure: Straight grain. Fine texture.

Smell/taste: Unseasoned a light sour taste.

Machining: Is easy to machine. While the wood is soft, it is necessary to use sharp tools in order to obtain a smooth surface.

Gluing: Well.

Drying: Moderately quick drying is advised. There are risks of deformations and cracking when kiln dried. Carefull stickering can avoid this. Knots can split.

Fixation: Keeps nails and screws well, pre-drilling is not necessary.

Durability class: Class IV.

Density: Unseasoned: 650 - 1200 kg / m³; Moisture content 12%: 450 (350 – 550) kg / m³

Shrinkage: Radial: 2,9%; Tangential: 7,2% (till oven-dry, in general less than this)

Bending strength: 72 N/mm² (moisture content 12-15%, measurement till rupture)

Modulus of Elasticity: 10800 N/mm² (Moisture content 12-15%)

Applications: Constructions in de building industry, pallets, boxes, plywood.

