

Grenen (*Pinus sylvestris* L.)



Growth area: Europe.

Trees: The straight cylindrical branch free trunk is about 20m long and can reach a diameter of on average 70 cm.

Description: The heartwood is lightbrown of colour. After some time is discolours darker till yellowbrown or redbrown an is easily to be distinguished from the light yellow sapwood. Quarter sawn boards show a clear straight grained figure. Plain sawn timber shows a growth ring figure.

Texture/Figure: Straight grain. Fine till moderately fine texture.

Smell/Taste: Unseasoned timber has a pleasant resinous smell.

Machining: Is easy to machine. With sharp tools a smooth surface can be realised.

Gluing: Well.

Drying: Quickly. Knots can split. The sapwood is susceptible to blue stain en must be kiln immediately after cutting.

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

Durability: Class III/IV.

Density: Unseasoned: 450 - 1000 kg / m³; Moisture content 12%: 510 (320 - 800) kg / m³

Shrinkage: Radial: 3,8%; Tangential: 8,0% (till oven-dry, in general less than this)

Bending strength: 73 N/mm² (Moisture content 12-15%, measurement till rupture)

Modulus of Elasticity: 9500 N/mm² (Moisture content 12-15%)

Applications: Interior- and exterior joinery works, construction timber, beams, flooring, Ship-building, piles, sheet piling, walings, furniture, sleepers, mining studs, pallets, boxes, scaffold boards, plywood, garden timber.

