

OAK FACT SHEET

Oak has a rich range of shades and varies quite a bit in color; from yellow, through light brown to dark brown - as the wood matures, it becomes darker. The grains are flat, rough, uneven in texture, and may be irregular or interconnected depending on the growing conditions of the tree.

Oak wood is medium to high density and can stay moisture free. Produces good results with hand and machine tools. Responds good to steam-bending, glues well. Oak is hard, tough and very durable and has a wide range of uses. It is used as construction wood, it is used to make railway sleepers, beams and various types of floor coverings, stairs and furniture.

High-quality oak is used to make veneer, and very high-quality barrels are also made from it. Slavonian oak is the most valuable material in shipbuilding.



COMMON NAME:

Oak, Pedunculate Oak

SCIENTIFIC NAME:

Quercus Robur

HABITAT:

native to most of Europe west of Caucasus

TREE SIZE:

30 - 40 (50) m tall, 1 - 1,5 (2,5) m trunk diameter

DENSITY OF WOOD:

670 - 760 kg/m³

JANKA HARDNESS:

4,980 N

ELASTIC MODULUS:

10,6 - 14,6 GPa

CRUSHING STRENGTH:

46,3 MPa

BENDING STRENGTH:

97,1 MPa

SHRINKAGE:

Radial - 4,7%, Tangential - 8,4%, Volumetric 13%