

SAWN LUMBER

EUROPEAN OAK

GENERAL DESCRIPTION	
Merchandise Category	Lumber, elements
Timber Species	European Oak (Quercus robur - Quercus petraea)
Unit of Measurement	Cubic Metre (CBM)
Hardness	From medium to high (Brinell: 50-65 N/mm ² II to the grain, 23-42 N/mm ² T to the grain)
Dimensional Stability	From medium to high
Oxidation	From medium to low
Tonality	Yellow sapwood and brown heartwood, characterized by parenchyma rays
Histological Structure	Straight and sometimes helicoidal grain, fine and uniform texture

ESSENTIAL FEATURES	PERFORMANCE
Density	1080 kg/m ³ green-820 kg/m ³ dried
Shrinkage	Radial 5,7%, Tangential 9,6 %
Modulus of Elasticity	10600-13700 MPa
Tensile Strength	88-110 MPa
Compressive Strength	29-84,5 MPa
Shear Strength	9,3-11,5 MPa
Flexural Strength	53-153 MPa
Biological Durability	Classes: 2-4 Fungi, D Anobium, M Termite
Impregnation	Classes: 4 Heartwood, 1 Sapwood

QUALITY DESCRIPTION:

The following product range is available: Random and Fix.
Appearance class: Prime, Character e Rustic for Random, QF 1A, QF1AX, QF 2/3, QF 3/4 for Fix

- Prime: it is predominantly defect free, limited trace of sap and small natural tiny pin knots are accepted
- Character: trace of sap is accepted, small sound and live knots of 30mm diameter maximum, no heart
- Rustic: knots are allowed, heart trace is accepted
- QF1A: four sides clear, defect and sap free
- QF1AX: predominantly defect free on one face, sap and knots are allowed on the back face
- QF 2/3: sap creeping on the edges and very limited on both faces, small knots of 30mm diameter maximum, no heart
- QF 3/4 : knots of 70mm diameter maximum are permitted, trace of heart, sound sap allowed.

Source: G. Giordano-Tecnologie del legno; Lignum; CTBA. Wood humidity: between 10 and 20% dried Reference Regulations: UNI EN 942 Timber in joinery-General requirements, UNI EN 350 Durability of wood and wood-based products

DIMENSION:

Random products are available from 22 to 100 mm thick, random length and width

- Extra wide (XW): boards wider than 240 mm and length from 2100 up to 3500 mm
- Extra long (XL): boards length longer than 4100 mm
- Extra wide and long (XWL): boards wider than 240 mm and length from 3600 up to 4100 mm
- Extra wide and extra long (XWXL): boards wider than 240 mm and length longer than 4200 mm

Elements (squares) are available with the following dimensions: 38x50, 50x50, 65x65 on going production; 80x80 mm and 100x100 mm, on demand. Other sections are also available.

MAIN USES:

It is extremely versatile and can be used for solid and laminated furniture, flooring, ceiling, doors, chipwood and plywood. Additionally, it can be used for musical instruments, domestic wood ware, packages, crates and boxes.

WORKING PROPERTIES:

Sawing is easy, drying is slow, with special attention to wrap; planning is easy, gluing, nailing and screwing are trouble free; finishing confers excellent results and can adopt almost every tone.

CERTIFICATIONS:

There is the possibility to ask for FSC® certified products.



Richiedi i prodotti certificati FSC®



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