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Family: PINACEAE (gymnosperm)

Scientific name(s): Cedrus atlantica

Commercial restriction: no commercial restriction

Note: ATLAS CEDAR comes from North Africa and was introduced in France in the middle of the 19th century. It is used for

reaforestation in whole southern Europe.

WOOD DESCRIPTION

LOG DESCRIPTION

Color: yellow brown Diameter: from 50 to 80 cm Sapwood: clearly demarcated Thickness of sapwood: from 4 to 10 cm

Texture: medium Floats: pointless
Grain: straight Log durability: good

Interlocked grain: absent

Note: Heartwood yellow brown to reddish brown. ATLAS CEDAR's odour is strong and characteristic. It lasts long. A thin brown

silver figure is visible with the naked eye on the quartersawn.

PHYSICAL PROPERTIES

MECHANICAL AND ACOUSTIC PROPERTIES

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

Std dev. Std dev. Mean Mean Specific gravity *: 0,51 Crushing strength *: 42 MPa Monnin hardness *: 2,4 Static bending strength *: 82 MPa Coeff. of volumetric shrinkage: 0,37 % Modulus of elasticity *: 10100 MPa Total tangential shrinkage (TS): 6,0 % Total radial shrinkage (RS): 4,1% (*: at 12% moisture content, with 1 MPa = 1 N/mm²) TS/RS ratio: 1,5 Fiber saturation point: 28 % Stability: stable

NATURAL DURABILITY AND TREATABILITY

Fungi and termite resistance refers to end-uses under temperate climate. Except for special comments on sapwood, natural durability is based on mature heartwood. Sapwood must always be considered as non-durable against wood degrading agents.

E.N. = Euro Norm

Funghi (according to E.N. standards): class 1-2 - very durable to durable

Dry wood borers: durable - sapwood demarcated (risk limited to sapwood)

Termites (according to E.N. standards): class M - moderately durable Treatability (according to E.N. standards): class 3 - poorly permeable

Use class ensured by natural durability: class 3 - not in ground contact, outside

Species covering the use class 5: No

Note: Use class 3 is only for wood components without sapwood.

According to the European standard NF EN 335, performance length might be modified by the intensity of end-use exposition.

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: does not require any preservative treatment In case of risk of temporary humidification: does not require any preservative treatment In case of risk of permanent humidification: requires appropriate preservative treatment

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DRYING

Drying rate: rapid Possible drying schedule: 3

Risk of distortion: high risk

Temperature (°C) Risk of casehardening: no M.C. (%) dry-bulb wet-bulb Air humidity (%) Risk of checking: no risk or very slight risk Green 60 56 81 30 68 58 61 Risk of collapse: no 20 74 60 51

This schedule is given for information only and is applicable to thickness lower or equal to 38 mm.

It must be used in compliance with the code of practice.

For thickness from 38 to 75 mm, the air relative humidity should be increased by 5 % at each step.

For thickness over 75 mm, a 10 % increase should be considered.

SAWING AND MACHINING

Blunting effect: normal

Sawteeth recommended: stellite-tipped

Cutting tools: tungsten carbide

Peeling: good Slicing: nood

Note: Small very hard knots are present. ATLAS CEDAR is easy to turn

ASSEMBLING

Nailing / screwing: good but pre-boring necessary

Gluing: correct

FIRE SAFETY

Conventional French grading: Thickness > 18 mm : M.3 (moderately inflammable)

Thickness < 18 mm : M.4 (easily inflammable)

Euroclasses grading: D s2 d0

Default grading for solid wood, according to requirements of European standard EN 14081-1 annex C (April

15

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61

41

2009). It concerns structural graded timber in vertical uses with mean density upper 0.35 and thickness upper

22 mm.

END-USES

Sliced veneer Cabinetwork (high class furniture)

Interior joinery Heavy carpentry Exterior joinery Exterior panelling Turned goods Wood frame house Wood-ware

Note: This wood is interesting for structures requiring a good durability as well as a low density.

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MAIN LOCAL NAMES

Country Germany (temperate timber) France (temperate timber)

Local name ATLANTISCHE ZEDER CEDRE DE L'ATLAS United Kingdom (temperate timber) ATLAS CEDAR

Country Spain (temperate timber) Italia (temperate timber)

Local name CEDRO DEL ATLAS CEDRO DELL' ATLANTE



