



RELIANCE VENEER TIMBER TRADING LLC

Manufacturers of Fine Veneer and Timber from around the world

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TECHNICAL DATA SHEET - DYED PEARL VENEER

Origin: USA

Tree Size: 100-180 ft (30-55 m) tall, 3-5 ft (1-1.5 m) trunk diameter

Average Dried Weight: 51 lbs/ft³ (820 kg/m³)

Specific Gravity (Basic, 12% MC): .68, .82

Janka Hardness: 2,370 lb_f (10,550 N)

Modulus of Rupture: 19,530 lb_f/in² (134.7 MPa)

Elastic Modulus: 2,720,000 lb_f/in² (18.76 GPa)

Crushing Strength: 11,160 lb_f/in² (76.9 MPa)

Shrinkage: Radial: 6.8%, Tangential: 12.8%, Volumetric: 19.7%, T/R Ratio: 1.9

COLOR/APPEARANCE: Heartwood is a light yellowish brown. Narrow sapwood is a pale gray/white. Boards with mottled figure are sometimes seen, as well as solid burl sections and veneer.

GRAIN/TEXTURE: Grain is interlocked, with a uniform medium to coarse texture. Low natural luster.

ENDGRAIN: Diffuse-porous; exclusively solitary; large to very large pores in radial/diagonal arrangement, very few; tyloses occasionally present; parenchyma vasicentric; narrow rays not visible without lens, spacing fairly close.

SUSTAINABILITY: This wood species is not listed in the CITES Appendices or on the IUCN Red List of Threatened Species.

COMMON USES: Utility lumber, pallets, paper (pulpwood), fenceposts, flooring, veneer, and turned objects.

VENEER CHARACTERISTICS: Dyed veneer is no different from Natural veneer and will display the same characteristics, i.e. wide and narrow grains, pips, flashes, curved grains. Fiddleback/ mottle, small open cracks, etc. None of these characteristics are regarded as defects.

Whilst Reliance Veneer tries to keep these characteristics to a minimal, they will inherently form part of the character of the veneer which is its Natural beauty.



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DYEING PROCESS

Typically, the bundle of veneer is un-bundled and each individual veneer sheet is placed on a webbed mat which in turn is placed in a vat for the bleaching process which is needed to homogenise and remove the natural colour of the wood.

Once the bleach has been washed away the veneer is now placed into a dyeing vat full of hot water and colour dye. The veneer is removed from the dyeing vat once the colour dye has absorbed right through the veneer sheet, which may take up to 24 hours or more to achieve depending on specie and absorption. The veneer is then dried and flattened/ pressed and re-bundled so that the individual leaves of veneer are all sequenced as when the tree was sliced.

FINISHING: All veneer whether natural, engineered or dyed, will change hue/tone on exposure to light (UV). To minimise this effect it is recommended that a UV type inhibitor be used. For example Nitrous based products, polyurethane and water-based acrylics etc use non yellowing products with UV absorbing additives. These suggestions are solely based on our experience and are not binding. It is up to the finisher to experiment to achieve the desired finish.