

Exterior Species

There are over 100,000 species of wood. Many are indigenous to specific regions while others are found throughout the globe. The one element common to all wood is that every species is comprised of 60% cellulose and 28% lignin. The other 12% is made up of individual consistencies and colors. These attributes determine the best use and application for the lumber produced from a particular tree.

Quantum has developed specific guidelines designating wood for interior and exterior applications. With few exceptions, the exterior woods that Quantum recommends are hardwoods with the ability to accept finishes, resist moisture, and exhibit other characteristics that promote durability. Structural integrity begins with wood strength, a combination of density (measured by specific gravity), compressive strength, bending strength, stiffness and hardness.

The list below reflects the more popular species used for exterior applications.

Douglas Fir *Pseudotsuga menziesii* – First documented on Vancouver Island in 1791. Douglas Fir is one of the most important woods used in construction. Although a softwood, it is known for its stiffness and strength. Quantum uses only Clear Vertical Grain regardless of finish or application. CVG provides the best stability, most consistent grain, color and long term durability.



True or Genuine Mahogany *Swietenia macrophylla* – Grown in Southern Mexico to central South America. Much of the species referred to as Genuine Mahogany are currently plantation grown in select regions of the world. Mahogany coloring varies from pinkish brown to darker reddish brown that tends to darken with age. Excellent stability and beautiful grain.



Sapele *Entandrophragma cylindricum* - From Central and West Africa. Medium to dark reddish brown and sometimes exhibiting a purple tinge. Sapele is often substituted for Mahogany since it possesses many of the same attributes, but due to its availability, is generally less expensive and tends to provide a more consistent finish.



Teak *Tectona grandis* – A popular hardwood grown in Southeast Asia, Teak is a straight grained yellow brown to dark golden brown wood known for oil content and weatherability. Teak is extremely resistant to moisture lending to its popularity in boatbuilding and outdoor furniture applications. Teak is a common choice for use in fabricating



For more information please contact your Quantum Representative



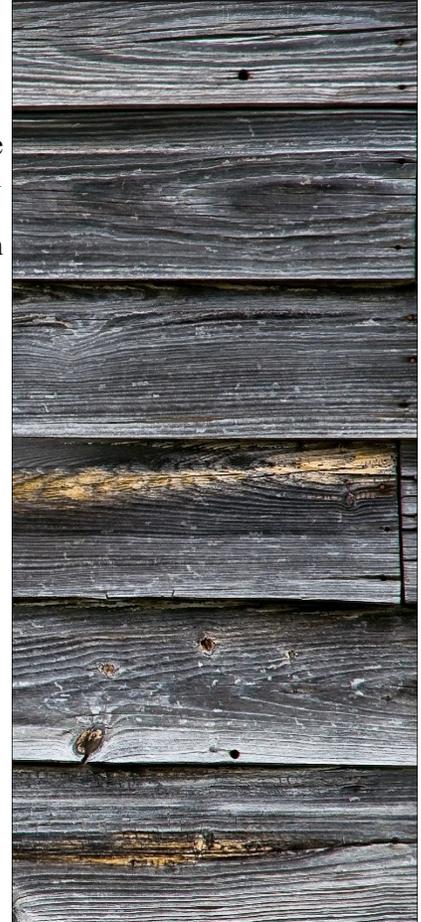
Wood Species

Species Sources

FSC Certified Lumber Refers to sourcing and harvesting wood in accordance with the Forest Stewardship Council's standards for socially and environmentally responsible forestry practices. Many wood species are available under this international program and more are being added every day. Much of the FSC wood today is grown on plantations using sustainable methods for cultivation and harvesting. Ask your Quantum Sales Representative about pricing, availability and lead times.

Reclaimed Timber Reclaimed wood can be suitable for building beautiful windows and doors. Quantum is open to working with reclaimed lumber based on the quality of the wood and other considerations that may impact milling equipment or compromise product performance. Speak with your Quantum Representative regarding your preferences.

Other Species Over the past 30 years there has yet to be a species of wood that hasn't found its way through the Quantum shop. Your Quantum Representative would love to talk species with you.



Split Species

Quantum products are available in split (Exterior/Interior) species. This offers extensive design flexibility while maintaining the desired qualities for exterior performance and durability. Many hardwoods and softwoods alike have the dimensional stability and structural integrity required for window and door construction. While some species of wood may be more suitable than others, small changes in design can often accommodate a wide variety of options. Quantum will consider any wood specified, based on availability, wood quality, species compatibility, and engineering. Some commonly used split species for interior use are:

Alder	Lacewood
Birch	Maple
Black Walnut	Oak
Cherry	Purple Heart
Cypress	Western Red Cedar

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