



DIMENSIONAL STABILITY



CLASS 1 DURABILITY



LONG LASTING



RETAINED STRENGTH & IMPROVED HARDNESS



INSECT BARRIER



MACHINABILITY



CONSISTENT QUALITY THROUGHOUT



FROM SUSTAINABLE SOURCES



NON-TOXIC

Accoya® is the world's leading high technology wood. Accoya® wood is produced from sustainably sourced, fast growing softwood using a non-toxic modification process from the surface to the core. The result: a durable, stable and beautiful material with the performance characteristics of the most durable tropical hardwoods but with industry-leading environmental credentials.



A new world of sustainable and low maintenance products including windows, doors, decking, flooring and siding is available using Accoya® wood. The exceptional durability and stability mean windows do not swell closed, doors continually open freely and coatings last up to 3 times longer – throughout the minimum 50 year above ground and 25 year in-ground/freshwater life of Accoya® wood.

Contact Information



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▼ Accoya® Wood Properties

Material

100% solid Accoya® wood; modified to the core using a non-toxic proprietary acetylation process.

Available Dimensions

Dimensions 4/4, 5/4, 6/4, 8/4, 10/4, and 12/4
Lengths 7'10", 9'10", 11'9", 13'9" and 15'9"

Durability

EN 113 Class 1 (the highest rating; comparable to the best teak). Accoya® Wood acts as an effective barrier against a broad spectrum of fungi including cellar, wet rot, dry rot, soft rot, white, brown and pore fungi. Verified by the American Wood Protection Association (AWPA) E10 test.

Lifespan

Accoya® wood is warranted against rot and decay for 50-years above ground; 25-years in-ground/freshwater.

Effective barrier to attack against insects and pests

Accoya® wood is indigestible by a wide range of pests and insects (including termites), resulting in an effective barrier to attack. Verified by AWPA E1 test.

Physical Properties

Accoya® wood is high performance wood: equilibrium moisture content is significantly lower, hardness is increased, bending strength and stiffness is retained, and the thermal conductivity is reduced resulting in improved insulation characteristics:

Equilibrium Moisture Content 65% RH, 68° F	Density 65% RH, 68° F	Shrink/Swell wet to oven dry	Janka Hardness ASTM D143	Bending Strength ASTM D143	Bending Stiffness ASTM D143	Thermal Conductivity EN 12667
3-5%	32 lb/cu ft	0.7% Radial 1.5% Tangential	922 lbf side 1484 lbf end	13,144 psi	1,297,492 psi	$\lambda = 0.13 \text{ Wm}^{-1}\text{K}^{-1}$

Fire Rating

Class C (ASTM E84) as with most woods; can be fire retardant-treated to meet higher requirements.

Machinability

Accoya® wood is a low moisture content, kiln-dried material that is harder than the original wood species. Accoya® wood machines more like a hardwood and requires no special tools for cross cutting, ripping, planing, routing, or drilling.

Disposal

Accoya® wood is non-toxic, can be reused when no longer needed or can be disposed like regular wood.

Gluing

Accoya® wood can be glued using many commonly used wood adhesive systems. Particularly good results are obtained with polyurethane (PU), emulsion polymer isocyanate (EPI), epoxy and phenol resorcinol formaldehyde (PRF) adhesives.

Fasteners & other Hardware

Corrosion-resistant, high-quality 304 or 316 stainless steel or naval brass fasteners are recommended. Chrome-plated, aircraft anodized aluminum or proprietary epoxy or ceramic-coated fasteners may be a suitable alternative. Zinc plated or galvanized steel are not recommended.

Coatings

Many high quality outdoor approved wood coating systems are compatible with Accoya® wood. Leading coating manufacturers have found that the extraordinary dimensional stability of Accoya® wood allows their wood coatings to last three or more times longer. Specific recommendations for your project are available upon request.



Accoya® wood is perfect for coating



For more information, visit www.ufpi.com/accoya

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