accoya®

Accoya® wood

DATA SHEET

Accoya is a modified wood that sets the benchmark for wood performance, finish and sustainability. Through extensive testing and use in applications worldwide, it's proven to outperform the competition.

Key features

Accoya wood is produced from sustainably sourced, fast growing wood and manufactured using Accsys' proprietary patented acetylation process from surface to core.

- HIGHLY STABLE
- HIGHLY DURABLE
- IDEAL FOR COATING
- EXCELLENT MACHINABILITY
- BAREFOOT FRIENDLY
- NON TOXIC
- UP TO 50 YEAR WARRANTY
- INSECT RESISTANT
- LOW MAINTENANCE
- SUSTAINABLY SOURCED
- NATURAL WOOD
- 100% RECYCLABLE

Approved Manufacturer Training Program

Accsys provides a training program for manufacturers of Accoya products. We strongly encourage all manufacturers using Accoya to participate. Contact your local Accoya representative for more information.

Standard lengths & grades

8', 10', 12', 14', 16'

- All A1 dimensions are actual rough sawn.
- A1p is surfaced on 2 sides.
- Companies processing Accoya can supply a wide range of standard and custom profiles from boards.
- The sizes and grades produced at the Accoya production plant in Tennessee are summarized below:

Standard dimensions & grades

Thickness	Widths				Grades
	100	125	150	200	
25	✓	✓	✓	✓	A1, A2, B
32		✓	✓	✓	A1, A, B
38		✓	✓	✓	A1, A2, B
50	✓	✓	✓*	✓*	A1, FJ/A1 *, A2, B
63	✓*	✓*	✓*	✓*	A1, FJ/A1 *, A2
75	✓*	✓*	✓*	✓*	A1, FJ/A1 *, A2
100	✓				A1, A2

Material

100% Solid Accoya wood

Durability

AWPA E7 & E10, Average rating > 9. Accoya is an effective barrier against a broad spectrum of wood-destroying organisms. Rigorous testing in the lab as well as in prone settings like the Southeast US, Australia, Japan and New Zealand confirm this.

Equilibrium Moisture Content

3–5 % at 65% relative humidity, 68°F

Density

Average 32 pcf at 65% RH, 68°F, Range 27 to 37 pcf

Shrinkage

WET – 65% RH / 68°F*

Radial – 0.4%

Tangential – 0.8%

WET – Oven Dry*

Radial – 0.7%

Tangential – 1.5%

*Average Values

Fire Rating

Class C (ASTM E84). Additional requirements apply to siding on buildings in designated Wild Urban Interface (WUI) zones. Accoya siding wall constructions have been tested and demonstrated to meet WUI requirements. For more details click here.

Thermal Conductivity

ASTM C177, y = 0.102 W/m-

Bending Strength

ASTM D143, MOR = 13,144 psi

Bending Stiffness

ASTM D143, MOE = 1,297,492 psi

Janka Hardness

ASTM D143, Side = 922 LBF, End grain = 1484 LBF.

Certification & Approval

Forest Stewardship Council (FSC) Certified

Cradle-to-Cradle: GOLD Overall; Platinum in Material Health

Insect barrier

Accoya wood is indigestible to a wide range of pests and an effective barrier to attack. Five year ground contact testing by independent laboratories in Florida USA, the Caribbean and Okinawa, Japan and has shown less termite damage on Accoya than on naturally durable species such as FEQ Burmese Teak.

Salt water contact and immersion

Accoya is not detrimentally affected by salt water contact or immersion. Field testing over 10 years immersion has shown minor attack on Accoya by marine organisms but less than that sustained on other durable woods in test.

Machinability

Processing does not affect the unique properties of Accoya wood, as it is modified to the core. It is relatively easy to process and comparable to a softwood or medium density hardwood such as Yellow Poplar (Tulip Wood). With the right training no special tools are required for cross cutting, ripping, planing, routing and drilling. Further details can be found in the Accoya Wood Information Guide.

Gluing

Both load bearing and non-load bearing applications have been tested using adhesive systems for laminating, finger jointing and frame corner joints. While good results can be achieved with most common adhesives, PU, EPI, epoxy and PRF give the best results. Results using polyvinyl acetate (PVAc) can vary greatly. MUF adhesives should be avoided. Contact your adhesive supplier for more information.

Finishing

A finish or coating does not need to be applied to Accoya to achieve longevity and dimensional stability. Details on natural weathering of uncoated Accoya can be found in the Wood Information Guide. Most commonly used coating systems can be used on Accoya wood. Testing has been performed with a full range of oil-based and water-based coating systems. Leading coating manufacturers have found that their film form coating systems last longer on Accoya. Contact your coating supplier for more information and check the Accoya Essential Coatings Guide.

Fastening

Stainless steel fasteners are highly recommended with Accoya. Grade 304 for inland conditions and grade 316 for coastal conditions. More information on other metals and alloys suitable for use with Accoya can be found in the Accoya Wood Information Guide.