



OUTSTANDING DURABILITY

Accoya® wood's durability (rot resistance) is Class 1, matching and even exceeding the performance of nature's most durable woods such as Oak, Teak, Iroko and Sapele. Every batch of Accoya® wood is tested after production to ensure that its durability can be guaranteed.

The Accoya® advantage:

- joinery that will stand the test of time and not require replacement for at least 60 years**
- use in demanding external applications, even in fresh water
- beauty, elegance and style - natural or coated

SHEET PILING



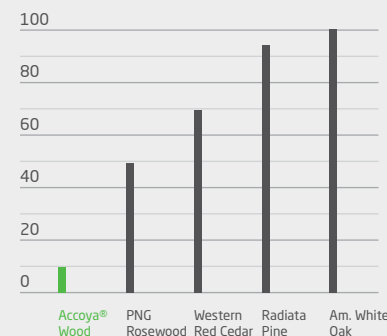
Acetylated Poplar *

Unmodified Wood

After 10 years in fresh water

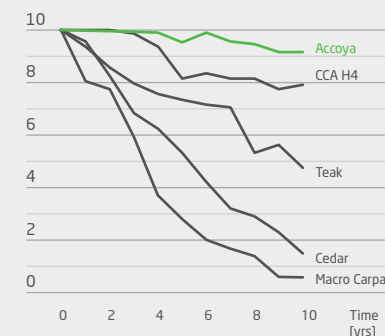
TERMITE MASS LOST TEST

[%]

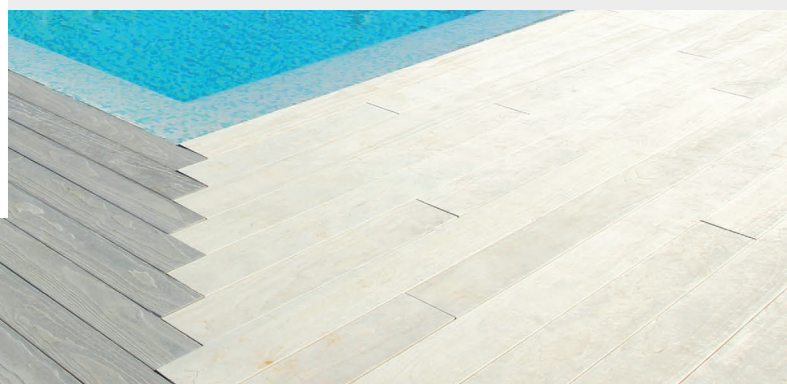


Mastotermes darwiniensis is the most destructive species of Australian termite and active north of the Tropic of Capricorn. Hazard Class 3 above ground testing was set up in Northern Territory, Australia according to the AWPA protocol by the Australian Forest Research Company.

OUTDOOR STAKE TEST



Based on ASTM D 1758. Decay rates in outdoor stake test range from 0 (failed) up to 10 (no decay or insect damage)



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innovation in wood



DIMENSIONALLY STABLE

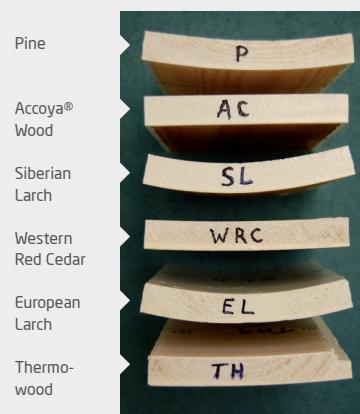
Accoya® wood's superior dimensional stability (resistance to swelling and shrinkage) exceeds all commonly used species, including Teak, Sapele and Iroko. Accoya® wood has been tested over prolonged periods in all types of weathering conditions - above ground, below ground and even in water - and has been proven to withstand even the toughest of external environments.

The Accoya® advantage:

- reduced swelling and risk of jamming in humid conditions
- better fitting windows and doors in all weathers
- less frequent coatings maintenance

TRADA TRIAL RESULTS

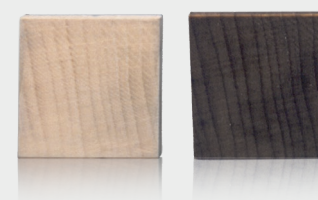
Accoya® wood was the only wood that did not cup in this TRADA** trial on wooden cladding.



REDUCED SWELLING

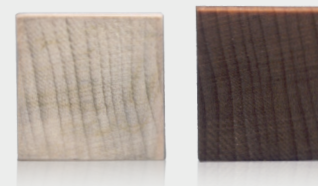
Acetylated wood*

Oven-dry Water saturated



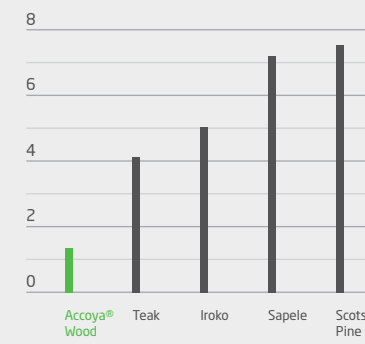
Unmodified wood

Oven-dry Water saturated



TANGENTIAL SHRINKAGE

[%]



Typical tangential shrinkage from fully soaked to oven dry - the most extreme laboratory test.



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* Accoya® wood is made using a modification process called acetylation

** Timber Research and Development Association www.trada.co.uk

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innovation in wood



PERFECT
FOR COATING

Accoya® wood has shown improved coating lifetime performance with many types of coatings, resulting in extended maintenance intervals. The light colour of Accoya® wood allows for a wide range of colour finishes. Improved stability means film-forming coating systems last up to two times longer. Accoya® wood is easier to coat, less preparation and sanding is required.

The Accoya® advantage:

- Potential for less frequent coatings maintenance
- Cost savings during the life of the product
- Environmental benefits during the life of the product
- Wider range of colour and coatings options

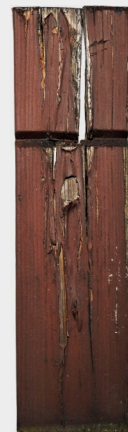
COATING COMPARISON AFTER 13 YEARS OUTDOOR EXPOSURE

Translucent WB Acrylic Coating

Acetylated wood*



Unmodified wood



Opaque WB Acrylic Coating

Acetylated wood*



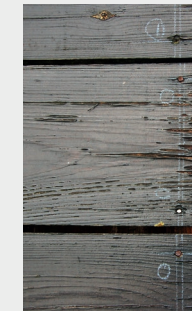
Unmodified wood



TRADA COATING TEST

42 months outdoor exposure

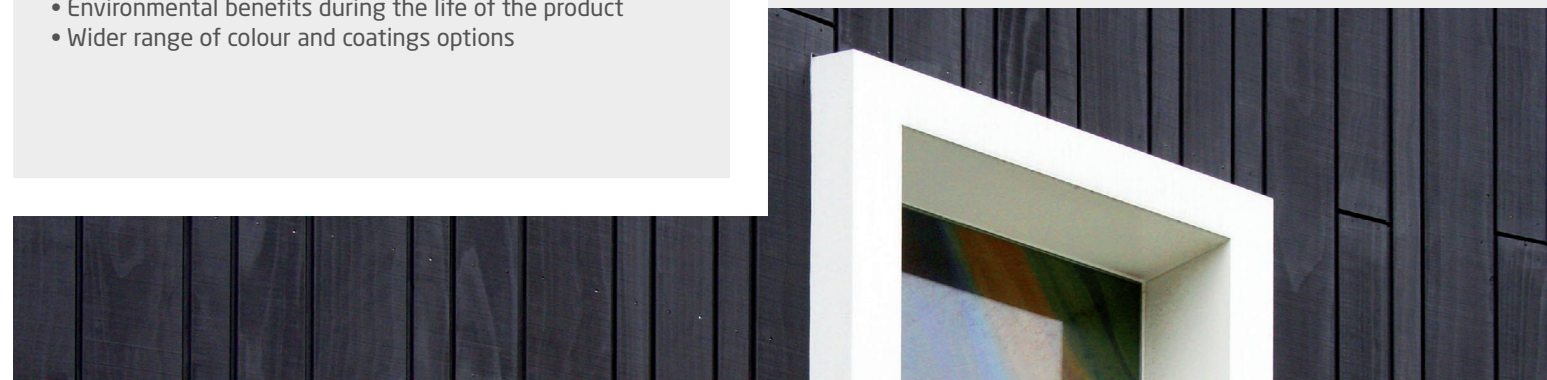
Pine



Accoya® wood



Accoya® wood outperformed pine boards showing excellent coating performance.



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SUSTAINABLE CHOICE

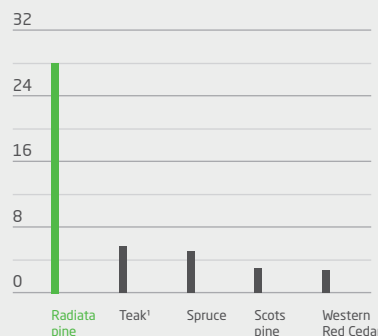
By significantly enhancing the durability and dimensional stability of fast growing, abundantly available certified wood species, Accoya® wood provides compelling environmental advantages over scarce slow growing hardwoods, woods treated with toxic chemicals, and non-renewable carbon-intensive materials such as plastics, steel and concrete.

The Accoya® advantage:

- Always sustainably sourced from abundantly available, often fast growing wood species
- use phase advantages: increased life span, less maintenance, superior thermal insulation
- non toxic and 100% recyclable – a perfect fit with the bio-cycle of the C2C philosophy
- CO₂ negative over the full life cycle

ANNUAL YIELD

[m³ / ha / year]

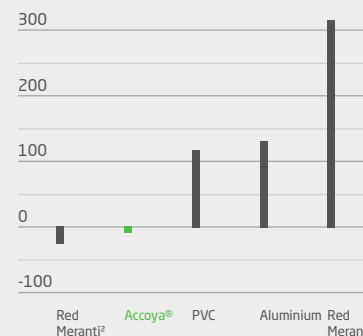


Annual yield comparison of species in cubic meters of wood produced per hectare per year

¹ Plantation grown

CARBON FOOTPRINT

[kg CO₂ eq / window frame]



Greenhouse gas emissions (cradle to grave) in kg CO₂ eq per window frame in various material alternatives

² Sustainably sourced
³ Unsustainably sourced

ECOLABELS

Accoya® wood has been awarded various accreditations and eco-certifications further highlighting its unique sustainability properties.



BREEAM®

LEEDv4:
MR1, MR2,
MR3, MR4 I1
BREEAM:
MAT 1, MAT 5

Read more on www.accoya.com/sustainability



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