

# Accoya<sup>®</sup> Performance & Sustainability Guide

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# dimensional stability



Accoya® wood's superior dimensional stability (resistance to swelling and shrinkage) exceeds all commonly used species, including Teak, Sapele and Iroko.

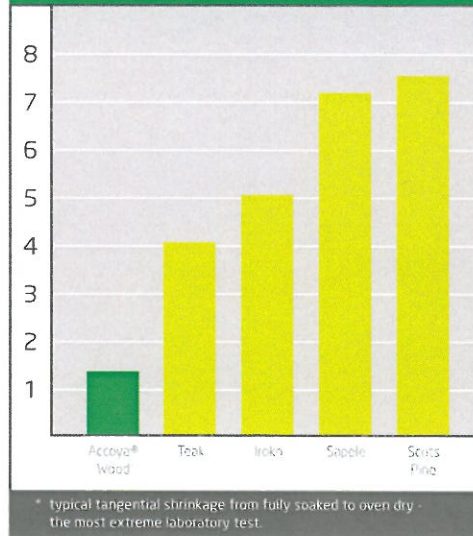


## TRADA trial results

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



## tangential shrinkage\* (%)

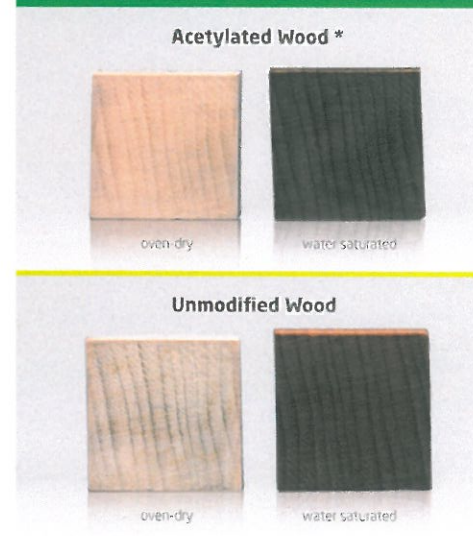


## extreme conditions



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.

## reduced swelling



### the Accoya® advantage

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

\* Accoya® wood is made using a modification process called acetylation  
\*\* Timber Research and Development Association www.trada.co.uk  
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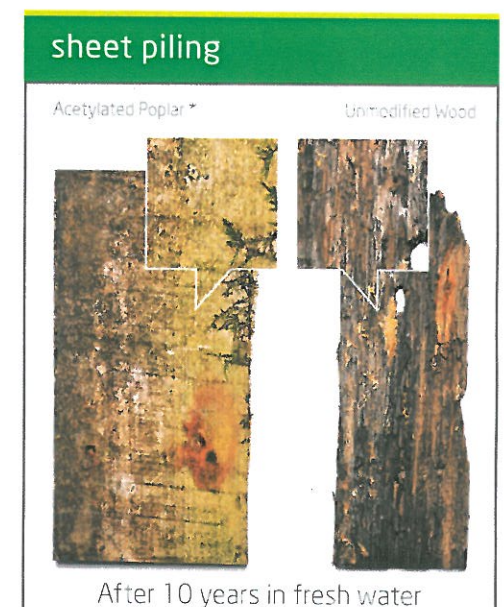
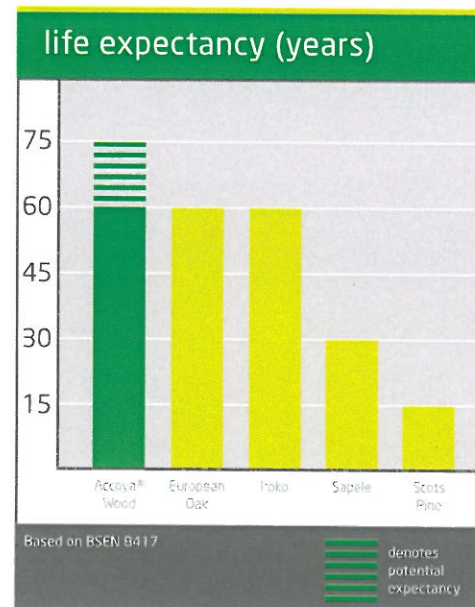
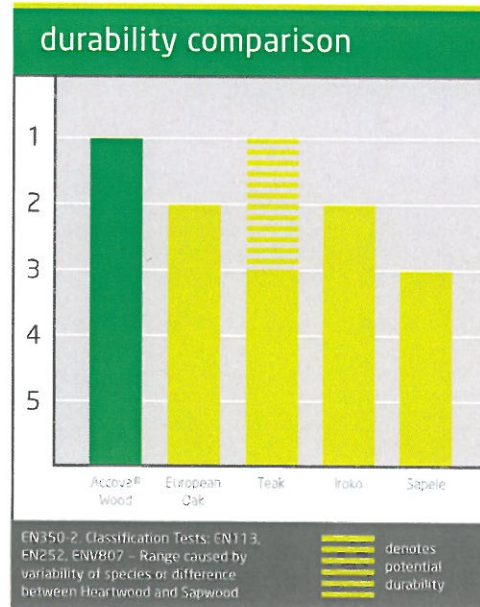
the world's leading high technology wood



# 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

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\*\* In use classes 1, 2 and 3 as defined in EN 335-1



IDEAL  
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.





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.

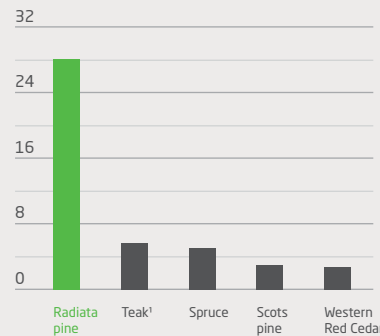
The Accoya® advantage:

- 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
- CO<sub>2</sub> negative over the full life cycle



ANNUAL YIELD

[m<sup>3</sup> / ha / year]

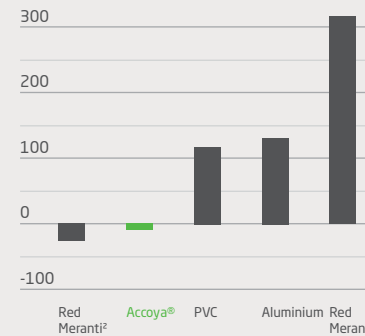


Annual yield comparison of species in cubic meters of wood produced per hectare per year

<sup>1</sup> Plantation grown

CARBON FOOTPRINT

[kg CO<sub>2</sub> eq / window frame]



Greenhouse gas emissions (cradle to grave) in kg CO<sub>2</sub> eq per window frame in various material alternatives

<sup>2</sup> Sustainably sourced  
<sup>3</sup> Unsustainably sourced

ECOLABELS

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



Read more on [www.accoya.com/sustainability](http://www.accoya.com/sustainability)

