

## Wood Without Compromise



Class 1 Durability  
Increased Hardness



Outstanding  
Dimensional Stability



Guaranteed 50 Years Above  
Ground & 25 Years Below Ground



Superior UV Resistance



Effective Barrier to  
Insect & Fungal Decay



Improved Thermal Insulation



100% Modified  
from Surface to Core



Ease of Processing & Coating



Source Certified Sustainable



Non-Toxic  
Recyclable

## Available Dimensions & Grades

### Dimensions\*

### Grades\*\*

25 x 100 mm	(0.98 x 3.94 in)	A1, A2, A3, B
25 x 125 mm	(0.98 x 4.92 in)	A1, A2, A3, B
25 x 150 mm	(0.98 x 5.91 in)	A1, A2, A3, B
25 x 200 mm	(0.98 x 7.87 in)	A1, A2, A3, B
32 x 100 mm	(1.26 x 3.94 in)	A1, A2, A3, B
32 x 125 mm	(1.26 x 4.92 in)	A1, A2, A3, B
32 x 150 mm	(1.26 x 5.91 in)	A1, A2, A3, B
32 x 200 mm	(1.26 x 7.87 in)	A1, A2, A3, B
38 x 125 mm	(1.50 x 4.92 in)	A1, A2, A3, B
38 x 150 mm	(1.50 x 5.91 in)	A1, A2, A3, B
38 x 200 mm	(1.50 x 7.87 in)	A1, A2, A3, B
50 x 100 mm	(1.97 x 3.94 in)	A1, A2, A3, B
50 x 150 mm	(1.97 x 5.91 in)	A1, A2, A3, B
63 x 100 mm	(2.48 x 3.94 in)	A1, A2, A3, B
63 x 125 mm	(2.48 x 4.92 in)	A1, A2, A3, B
63 x 150 mm	(2.48 x 5.91 in)	A1, A2, A3, B
75 x 100 mm	(2.95 x 3.94 in)	A1, A2, A3, B
75 x 125 mm	(2.95 x 4.92 in)	A1, A2, A3, B
75 x 150 mm	(2.95 x 5.91 in)	A1, A2, A3, B

### Standard Lengths

2.4 m	3.0 m
3.6 m	3.96 m
4.2 m	4.8 m

Please contact your Titan Wood sales manager for stock availability and delivery time.

\* All dimensions are actual rough sawn.

\* Accoya® wood is available in many other standard decking sizes and siding patterns from our partners.

\*\* A1 : 4 sides primarily clear

A2 : 3 sides primarily clear

A3 : 1 side primarily clear

B : Both faces with a limited number of defects

Other grades and dimensions are available.

Please contact your Titan Wood Sales Manager for more information.



CU-COC-807363  
© 1996 FSC

All Accoya® is produced from well managed, sustainable sources, including FSC, PEFC and other regionally certified woods.

## Contact Information

T: +1 972 233 6565 (USA)  
T: +31 (0)26 366 4122 (Europe)  
W: [www.accoya.info](http://www.accoya.info)  
E: [info@titanwood.com](mailto:info@titanwood.com)

DS\_EU\_08 © Titan Wood Limited 2009. Accoya and the Trimarque Device are registered trademarks owned by Titan Wood Limited and may not be used or reproduced without written permission.

## ▼ Accoya® Wood Properties

### Introduction

Following more than 75 years of research and development, which brought together a non-toxic wood modification technique known as acetylation with cutting edge technology, Accoya® wood is now commercially available for the first time. This extraordinary “new wood species” has properties that match those of the best tropical hardwoods, yet it is manufactured using wood from sustainable sources.

### Material

100% solid Accoya® wood

### Durability

**EN 113** Class 1 (the highest rating). It is an effective barrier against a broad spectrum of fungi including cellar, wet rot, dry rot, soft rot, white, brown and pore fungi.

### Insect Decay

Accoya® wood is not digestible by a wide range of pests, therefore it is an effective barrier to attack. For example, testing for termites according to AWPA E1 test standards yielded appearance ratings always  $\geq 9$  (Light Attack) versus control sample averages of 3.5 (worse than Heavy Attack). Weight loss averaged only 1.43% for Accoya® wood versus control sample averages of 32.06%.

### Equilibrium Moisture Content

3 – 5 % at 65% relative humidity, 20°C

### Density and Spread

#### 65% RH, 20°C

Average 512 kg/m<sup>3</sup>, Range 432 to 592 kg/m<sup>3</sup>

### Shrinkage

#### Wet - 65% RH, 20°C

Radial 0.4%  
Tangential 0.8%

#### Wet - Oven Dry

Radial 0.7%  
Tangential 1.5%

### Janka Hardness

#### ASTM D143

Side 4100 N  
End grain 6600 N

### Bending Strength

#### EN 408

39 N/mm<sup>2</sup>

### Bending Stiffness

#### EN 408

8790 N/mm<sup>2</sup>

### Thermal Conductivity

#### EN 12667

$\lambda = 0.13 \text{ Wm}^{-1}\text{K}^{-1}$

### Machinability

Processing does not affect the unique properties of Accoya® wood, as it is modified throughout and not leachable. It is relatively easy to process and can be compared to profiling a soft wood species. No special tools are required for cross cutting, ripping, planing, routing and drilling. Sanding before finishing is rarely required.

### Fire Rating

Class C (ASTM E84). Accoya® wood can be fire-treated to meet higher requirements.

### Gluing

Both load bearing and non-load bearing applications have been tested using adhesive systems related to laminating, finger jointing and frame corner joints. While good results can be achieved with most common adhesives, PU, epoxy and PRF adhesives give the best results. Gluing with MUF is not recommended. Specific recommendations for your project are available upon request.

### Fastening

The use of corrosion-proof steel fastenings that conform to EN 10088-1 is recommended such as A2, A4 quality stainless steel.

### Finishing

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 products last three or more times longer when used on Accoya® wood. Specific recommendations for your project are available upon request.