accoya®
the strength within

# Data Sheet

## Wood Without Compromise

- Class 1 Durability Increased Hardness
- Outstanding Dimensional Stability
- Extensively Tested Long Lasting
- Superior UV Resistance
- Insect & Fungi Resistance
- Improved Thermal Insulation
- 100% Modified from Surface to Core Consistent Quality
- Ease of Processing & Coating
- Source Certified Sustainable
- Non-Toxic Recyclable

## Available Dimensions*

| Dimensions | | Qualities |
|---|---|---|
| 22 x 145mm | (0.8" x 5.7") | 4 & 1 Sided Clear |
| 25 x 100mm | (0.9" x 3.9") | 4 & 1 Sided Clear |
| 25 x 125mm | (0.9" x 4.9") | 4 & 1 Sided Clear, Finger Jointed |
| 25 x 150mm | (0.9" x 5.9") | 4 & 3 Sided Clear, Mixed, Dressing, Finger Jointed, Planed |
| 25 x 200mm | (0.9" x 7.8") | 4 Sided Clear, Mixed |
| 25 x 300mm | (0.9" x 11.8") | 4 & 3 Sided Clear |
| 38 x 150mm | (1.5" x 5.9") | 4, 3 & 1 Sided Clear, Mixed |
| 38 x 175mm | (1.5" x 6.8") | 4 Sided Clear |
| 38 x 200mm | (1.5" x 7.8") | 4 Sided Clear |
| 40 x 125mm | (1.5" x 4.9") | Mixed, Dressing |
| 50 x 100mm | (1.9" x 3.9") | Mixed |
| 50 x 150mm | (1.9" x 5.9") | 4 & 3 Sided Clear, Mixed |
| 50 x 250mm | (1.9" x 9.8") | Mixed |
| 63 x 75mm | (2.4" x 2.9") | Finger Jointed, Mixed |
| 63 x 100mm | (2.4" x 3.9") | Finger Jointed, Mixed |
| 63 x 125mm | (2.4" x 4.9") | Finger Jointed, Mixed |
| 63 x 145mm | (2.4" x 5.7") | 1 Sided Clear, Finger Jointed |
| 63 x 150mm | (2.4" x 5.9") | Finger Jointed, Mixed |
| 63 x 200mm | (2.4" x 7.8") | Finger Jointed, Mixed |
| 75 x 75mm | (2.9" x 2.9") | Finger Jointed, Mixed |
| 75 x 95mm | (2.9" x 3.7") | Finger Jointed, Mixed |
| 75 x 100mm | (2.9" x 3.9") | 4 Sided Clear, Mixed, Finger Jointed |
| 75 x 125mm | (2.9" x 4.9") | 4, 3 & 1 Sided Clear, Mixed, Finger Jointed |
| 75 x 145mm | (2.9" x 5.7") | 1 Sided Clear |
| 75 x 150mm | (2.9" x 5.9") | 4 & 3 Sided Clear, Mixed, Dressing, Finger Jointed |
| 75 x 225mm | (2.9" x 8.8") | Mixed |
| 100 x 100mm | (3.9" x 3.9") | 1 Sided Clear, Mixed, Dressing, Finger Jointed |
| 100 x 125mm | (3.9" x 4.9") | 1 Sided Clear, Mixed, Finger Jointed |
| 100 x 150mm | (3.9" x 5.9") | 4, 3 & 1 Sided Clear, Mixed, Dressing, Finger Jointed |

Standard lengths are 2.1m, 2.4m, 3.0m, 3.6m, 4.2m and 4.8m. All dimensions are actual rough sawn before planing or finger jointing. Standard finger jointed length is 6m.

* Standard North American dimensions in 4/4 through 8/4 in up to 16' lengths are available.
* Accoya® wood is available in many standard decking sizes and siding patterns from our partners. Blanks, Laminates and other special products are available upon request.


## Contact Information

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TITAN WOOD

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# Data Sheet

## Accoya® Wood Properties



FSC
The mark for products from well managed forests.
CU-COC-807363
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All Accoya® wood is produced from well managed, sustainable sources, including FSC, PEFC and other regionally certified woods.

Accoya® wood can be produced from a range of sustainable softwood and hardwood species. These species' base properties are reflected even upon acetylation. Properties of species available to date for the North American Market are shown below. For other species' information please contact Titan Wood directly.

Accoya® is very durable and is classified as Durability Class 1 (the highest available) according to international standards. It has excellent fungus resistance against a broad spectrum including cellar, wet rot, dry rot, soft rot, white, brown and pore funguses.

Since Accoya® wood is not digestible by a wide range of pests, it has high destruction resistance. For example, testing for termite resistance following AWPA E1 testing standards yielded appearance ratings always ≥ 9 (Light Attack) versus control sample averages of 3.5 (worse than Heavy Attack). Weight loss averaged 1.43% for Accoya® wood versus control sample averages of 32.06%.

3 – 5 % at 65% Relative Humidity, 68°F or 20°C

| Accoya® Radiata Pine | | | Accoya® Southern Yellow Pine | | |
|---|---|---|---|---|---|
| **65% RH, 68°F, 20°C**<br>Average 32 lb/ft$^3$, Range 27 to 37 lb/ft$^3$ | | | **65% RH, 68°F, 20°C**<br>Average 39 lb/ft$^3$, Range 36 to 43 lb/ft$^3$ | | |
| **Wet - 65% RH, 68°F, 20°C** | | **Wet - Oven Dry** | **Wet - Air Dry** | | **Wet - Oven Dry** |
| Radial | 0.4% | Radial 0.7% | Radial | 0.1% | Radial 1.6% |
| Tangential | 0.8% | Tangential 1.5% | Tangential | 0.1% | Tangential 1.6% |
| **ASTM D143**<br>Side 922 LBF<br>End grain 1484 LBF | | | **ASTM D143**<br>Side 958 LBF<br>End grain 1531 LBF | | |
| **EN 408**<br>5,656 psi | | | **ASTM D143**<br>12,700 psi | | |
| **EN 408**<br>1.27 $10^6$ psi | | | **ASTM D143**<br>1.55 $10^6$ psi | | |

**EN 12667**
$\lambda$ = 0.13 $Wm^{-1}K^{-1}$

Processing of Accoya® does not affect its unique properties (such as durability and dimensional stability) as the wood is modified throughout and is not leachable. In general, Accoya® is relatively easy to process and can be compared with profiling a soft wood species. No special tools are required for cross cutting, ripping, planing, routing and drilling. Sanding before finishing is rarely required. Thus, processing expenses are reduced and overall yield is superior.

Both load bearing and non-load bearing applications have been tested using adhesive systems related to laminating, finger jointing and frame corner joints. Good results can be achieved with most common adhesives. In general, best gluing results are obtained with PU, epoxy and PRF adhesives. Gluing with MUF is not recommended.

Most commonly used coating systems can be used on Accoya®. Its high dimensional stability reduces coating tension during changing climates. Leading coating manufacturers have found that their products last 3 or more times longer when used on Accoya® wood. Testing has been performed with opaque hybrid, opaque acrylic dispersion and transparent alkyd emulsions coating systems.

Please note that all values are expressed as average values unless otherwise stated

* Bending strength and stiffness are expressed as average values and not as characteristic values. These values should not be used for calculations in respect to structural applications. Please contact Titan Wood for assistance in planning for structural uses.