

Data Sheet - Accoya® Radiata

Accoya® wood is the result of more than 80 years' research and development that has brought together a long-established and extensively proven wood modification technique - acetylation - and leading-edge proprietary technology to create a high performance wood.



Outstanding durability



Consistent quality throughout



UV resistant



Dimensionally stable



Retained strength & hardness



Naturally insulating



Insect barrier



Perfect for coating



Naturally beautiful wood



Sustainably sourced



Excellent machinability



Non toxic & recyclable

Standard Dimensions & Grades

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

Standard Lengths

2.4 m, 3.0 m, 3.6 m, 4.2 m, 4.8 m.

Please contact your Accoya® 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
- ▶ Other grades and dimensions can be made. Please contact your Accoya® Sales Manager for more information.
- ▶ Please refer to Accoya® Structural Design Guide to Eurocode 5 for information on the Accoya® Structural C24 equivalent grade available at www.accoya.com/downloads



The mark of responsible forestry



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

Data Sheet - Accoya® Radiata

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.

Equilibrium Moisture Content

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

Density and Spread

65% RH, 20°C

Average 512 kg/m³, Range 432 to 592 kg/m³

Shrinkage

Wet - 65% RH, 20°C

Radial 0.4%

Tangential 0.8%

Wet - Oven Dry

Radial 0.7%

Tangential 1.5%

Fire Rating

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

Bending Strength

EN 408, 39 N/mm²

Thermal Conductivity

EN 12667, $\lambda = 0.12 \text{ Wm}^{-1}\text{K}^{-1}$

Bending Stiffness

EN 408, 8790 N/mm²

Janka Hardness

ASTM D143, Side 4100 N, End grain 6600 N

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 AWP A E1 test standards yielded appearance ratings always ≥ 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%.

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.

Gluings

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.

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.

Fastening

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

Please note that all values are averages unless otherwise stated and should not be used for calculations in structural applications. For assistance in planning for structural projects, please contact us directly.