Accoya® wood is the result of decades of research and development by Accsys Technologies that has brought together a long-established, extensively proven wood modification technique and leading-edge patented technology - acetylation - to create a high performance wood, ideal for outdoor use and challenging applications.

KEY FEATURES

DIMENSIONALLY STABLE

- Swelling and shrinkage reduced by 75% or more
- Doors and windows open effortlessly year round
- Reduced maintenance costs

OUTSTANDING DURABILITY

- Lasting 50 years above ground, 25 years in ground/freshwater Class 1 durability, surpassing even teak
- Virtually rot proof
- 70 year minimum service life stated by TRADA

IDEAL FOR COATING

- Improved stability means coatings last up to two times longer
- Easier to coat, less preparation and sanding required

Accoya - unmatched durability through acetylation

Accoya wood's durability makes it very long lasting, at least:

- 50 years above ground
- 25 years in-ground or freshwater contact

How is this achieved ?

Cellulose is a major structural ingredient of wood but it is also a major food source for several different insects and decay fungi and makes a great shelter for others, too. Rot causes wood to degrade – particularly when it is used outdoors and exposed to moisture – limiting its service life. Thanks to the acetylation technology Accoya rot resistant wood offers you an environmentally compatible, stable wood that can be used with confidence in outdoor applications and will last for many, many years.

As 'Class 1' suggests, this is simply the best level of durability possible in wood. Whilst some wood species are naturally durable, natural durability is known to be a variable and inconsistent property.

Accoya wood, on the other hand, is consistently durable. The properties of every batch are analyzed by standard scientific measurements after modification, enabling its durability to at least match and even exceed the performance of nature's most durable species, including teak.

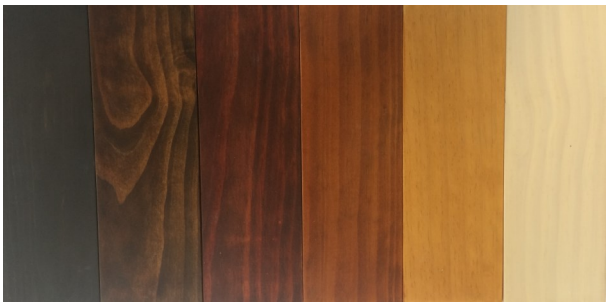
Additionally, durable woods tend to be slower growing species, whereas Accoya is made using fast growing, sustainably forested radiata pine, so old growth forests are not threatened or depleted to create Accoya.

Accoya wood forms an effective barrier to insect attack; it is indigestible to micro-organisms and insects and therefore more durable to wood-destroying fungi and virtually rot-proof.

DIMENSIONAL STABILITY:

Dimensional stability can be defined as the degree to which a material maintains its original dimensions when subjected to environmental changes. With many materials temperature and humidity are critical factors. In the case of wood, swelling in damp or wet conditions and shrinkage in dry, hot conditions can have unwelcome implications: windows and doors may jam or let in drafts; wood may warp or split, leading to insect degradation and more frequent maintenance cycles. Accoya wood's superior dimensional stability (resistance to swelling and shrinkage) matches or exceeds all the best species in the world, including Teak, Sapele, Iroko and Western Red Cedar.

Advantages of dimensional stability



- Reduced swelling and risk of jamming in humid conditions
- Better fitting windows and doors in all weathers
- Less frequent coatings maintenance
- Decreased maintenance cycles

Dimensional stability & coatings

With Accoya wood, swelling and shrinkage is reduced by 70-80% and the resultant more stable surface allows coatings to adhere better. Dimensionally stable wood improves coatings life as paints and other film-forming coatings are not subjected to severe stretch and shrink cycles. In the end, the result is decreased maintenance frequency, resulting in:

- Less time spent maintaining the wood
- Less money spent on coatings
- Less coating used overall during the service life of the wood

BAREFOOT FRIENDLY

- Ideal for all decking situations in extreme temperatures
- Low thermal gain
- Splinters are much less than other wood species when used for decking

NATURALLY INSULATING

- Offers improved insulation in comparison with commonly used hardwood and softwood species
- Ideal for applications where energy conservation is important

EXCELLENT MACHINABILITY

- Easy to machine and process
- No special tools are required

INSECT BARRIER

- Indigestible to a wide range of insects, including termites
- Greatly reduced vulnerability

CONSISTENT QUALITY THROUGHOUT

- Consistent, measurable modification quality from surface to core
- No need to apply chemical preservatives when cut or planed

NATURALLY BEAUTIFUL WOOD

- Process does not compromise the wood's natural beauty

FROM SUSTAINABLE SOURCES

- From FSC® and other regionally certified woods
- Naturally renewable

RETAINED STRENGTH & HARDNESS

- The process does not compromise the wood's strength
- Hardness is increased
- High strength to weight ratio makes it suitable for challenging applications

NON-TOXIC & RECYCLABLE

- Protects the environment from the harmful effects of common treatments
- May be safely reused, recycled and incinerated