

# SUPERIOR RESIDENTIAL DOOR & WINDOW SYSTEMS

accoya®

Incorporating  
modified sustainably  
sourced Accoya®  
wood by Accsys  
Technologies



THE UK DOOR AND  
WINDOW COMPANY

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# SUSTAINABLY SOURCED, FAST GROWING WOOD



Accoya® wood is produced from sustainably sourced, fast growing wood using a non-toxic modification process from the surface to the core.

The result: a durable, dimensionally stable, reliable and beautiful solid wood with the performance characteristics of the most durable tropical hardwoods, but offering industry-leading environmental credentials.

A new world of sustainable and low maintenance windows and doors is available using Accoya® wood.

- Accoya® wood windows and doors can be expected to last at least twice as long as engineered softwood before replacement
- Low risk of windows and doors jamming in humid conditions
- Coating maintenance intervals can be expected to be twice as long on Accoya® wood
- Accoya® wood windows and doors contain no biocides
- Thermal conductivity is improved in comparison with softwoods and hardwoods

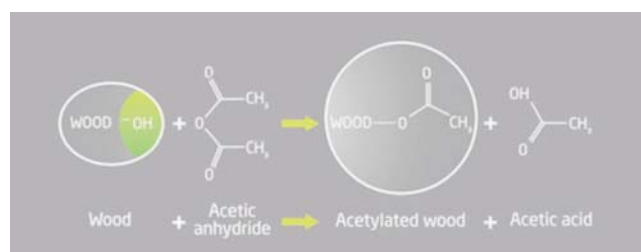


## CREATING THE WORLD'S LEADING ACETYLATED WOOD

Accoya is based upon acetylated wood technology, a process that has been studied by scientists around the world for more than 75 years. This method of improving wood has been proven to deliver such superior performance that it has long been used as the “gold standard” against which other methods are measured.

The physical properties of any material are determined by its chemical structure. Wood contains an abundance of chemical groups called “free hydroxyls” (represented as OH in the picture). Free hydroxyl groups adsorb and release water according to changes in the climatic conditions to which the wood is exposed. This is the main reason why wood swells and shrinks. It is also believed that the digestion of wood by enzymes initiates at the free hydroxyl sites - which is one of the principal reasons why wood is prone to decay.

Acetylation effectively changes the free hydroxyls within the wood into acetyl groups. This is done by reacting the wood with acetic anhydride, which comes from acetic acid (known as vinegar when in its dilute form). When the free hydroxyl group is transformed to an acetyl group, the ability of the wood to absorb water is greatly reduced, rendering the wood more dimensionally stable and, because it is no longer digestible, extremely durable.



## CASEMENT WINDOWS

Combining traditional craftsmanship and visible appeal with enhanced security and weather tightness to provide the ultimate window for both Design & Build and refurbishment projects.

Our windows are no ordinary windows. Made from ultra strong Accoya® wood, designed to eliminate resin exudation and resist warping, or beautiful dense hardwoods, including Oak and Sapele,



## SASH WINDOWS

PDS have rejuvenated an old favourite by adding the traditional and cherished sliding sash window to their diverse range.

The replica box sliding sash window is traditional in both appearance and construction, yet is constructed from ultra modern Accoya® wood. Complete with weights, cords and pulleys, as per the original design.



## FRENCH & BI-FOLDING DOORSETS

Through an impressive composition of energy efficient, sound insulating glazing, and beautiful, laminated, FSC timber surrounds, these doorsets maximise space and daylight, eliminate entry impediments and amalgamate internal and external living areas to promote truly open plan living, without compromising the property's natural character.

Now widely specified in Accoya® wood, designed to eliminate resin exudation and resist warping.



## ECO DOORS

Specifically designed to exceed the ever more stringent industry sustainability standards in relation to thermal and sound insulation, heat loss prevention and weather, impact and intruder resistance.

Our ECO Homes doorsets are available in a range of both modern and traditional styles, pre-hung into either laminated softwood, hardwood or Accoya® wood frames, including bespoke integral sidelights and toplights.



## DURABLE, STABLE & LOW MAINTENANCE



OUTSTANDING DURABILITY



CONSISTENT QUALITY THROUGHOUT



UV RESISTANT



INSECT BARRIER



PERFECT FOR COATING



NATURALLY BEAUTIFUL WOOD



DIMENSIONALLY STABLE



RETAINED STRENGTH & HARDNESS



NATURALLY INSULATING



FROM SUSTAINABLE SOURCES



EXCELLENT MACHINABILITY



NON-TOXIC & RECYCLABLE

## CARE AND PROTECTION BY USER

With proper care and attention, factory finished door sets, windows and conservatories will give extended life between redecoration cycles. To achieve this performance, the following should be observed:

- At least once per year all coatings should be washed with mild detergent and water to remove any surface pollution.
- All hinge mechanisms and handles should be checked at least biannually for ease of operation and lubricated with light oil suitable for the purpose, as required.
- Weather seals should be cleaned at least once per year to remove any dust or grime in accordance with the manufacturer's instructions.
- Ventilators should be cleaned at least once per year to remove any dirt or grime in accordance with the manufacturer's instructions.

### First and subsequent re-decoration

All areas to be recoated should be washed down with a mild detergent solution & rinsed with clean water to remove dust, insects and other contaminants, which can form a base or algae and fungi growth.

### Where the coating system is intact but requires a cosmetic coat, the following procedure should be followed

- Using a good quality Synthetic brush, designed for use with acrylic paints, apply one or two coats of Aquatop 2600 in the appropriate shade, colour & gloss level. Allow to dry for four hours between coats.

### Where minor flaking affects small areas of the topcoat surface but the timber substrate is not exposed, the following procedure should be followed

- Abrade the damaged area with a fine grade abrasive paper to remove all unsound coating and feather out.
- Clean down and wash the abraded area to remove dust, and allow to thoroughly dry.
- Using a good quality synthetic brush, designed for use with acrylic paints, apply a coat of Aquatop 2600 in the appropriate shade, colour & gloss level to the damaged area. Allow 10 dry for four hours & then apply a second coat.
- If the damaged area is Widespread, it is recommended that the whole frame is Lightly abraded and repaired as described above with the second coat applied to the complete frame.

## AFTERCARE & WARRANTY



30 year warranty against rot and fungal attack on all external joinery components.



10 Year warranty on all factory finished windows and doorsets against manufacturing defects, unless otherwise stated.



10 Year Warranty on factory glazed door and window units



\*Opaque pre finished doors and joinery are guaranteed for a period of 10 years against flaking, blistering, cracking or erosion.



\*Translucent pre finished doors and joinery are guaranteed for a period of 5 years against flaking, blistering, cracking or erosion.



5 Year Warranty on all furniture, locks and other factory fitted ironmongery on our doors and windows against manufacturing defects.



All our window and door products re proudly manufactured in the UK.

\*When maintained in accordance with care and protection guidelines. It does not guarantee against natural resin production, movement or extraction staining around knots.



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