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A Giant Step Forwood

in timber cladding
and joinery



Setting the standard for
responsible forestry management.

The Gold Standard in Wood Modification

Accoya® is the result of more than 80 years of research and development on wood acetylation. The commercial launch of Accoya® creates the gold standard in high performance, sustainable timber which creates joinery products that will outlast and outperform others.



Beautiful Timber - Exceptional Performance

Major Benefits to Consumers

- High performance timber cladding and joinery
- Class 1 durability
- Minimal coating maintenance required
- Highly sustainable
- Only naturally occurring wood compounds are added during the wood modification process
- Peace of mind with credible and robust guarantees



60 Year Life Expectancy
- Minimum 60 year life expectancy backed by BRE and supported with a 50 year guarantee.



Environmentally Friendly
- Wood is the most environmentally friendly building material available.



12 Year Coatings Guarantee
- Up to 12 year guarantee for an opaque (paint), fully factory applied coating system to first brush applied planned maintenance, up to 10 year for translucent (stains)*.



100% Non-Toxic
- Accoya® is non-toxic. The only addition to Accoya® is naturally occurring acetyl groups. Pine has 2%, Oak has 4% and Accoya® has 20%.



Stability
- Accoya® is guaranteed to shrink and swell less than any other joinery timber - making windows and doors open effortlessly all year round.



Rot Resistant
- Accoya® achieves the highest possible British Standard durability rating - Class 1.



Complete Protection
- Accoya® wood modification process is all the way through to the core of the timber.



Credible Guarantees
- The guarantees offer peace of mind on durability, stability, longevity and coating performance.



Sustainable
- Accoya® timber is sourced from managed, sustainable sources.



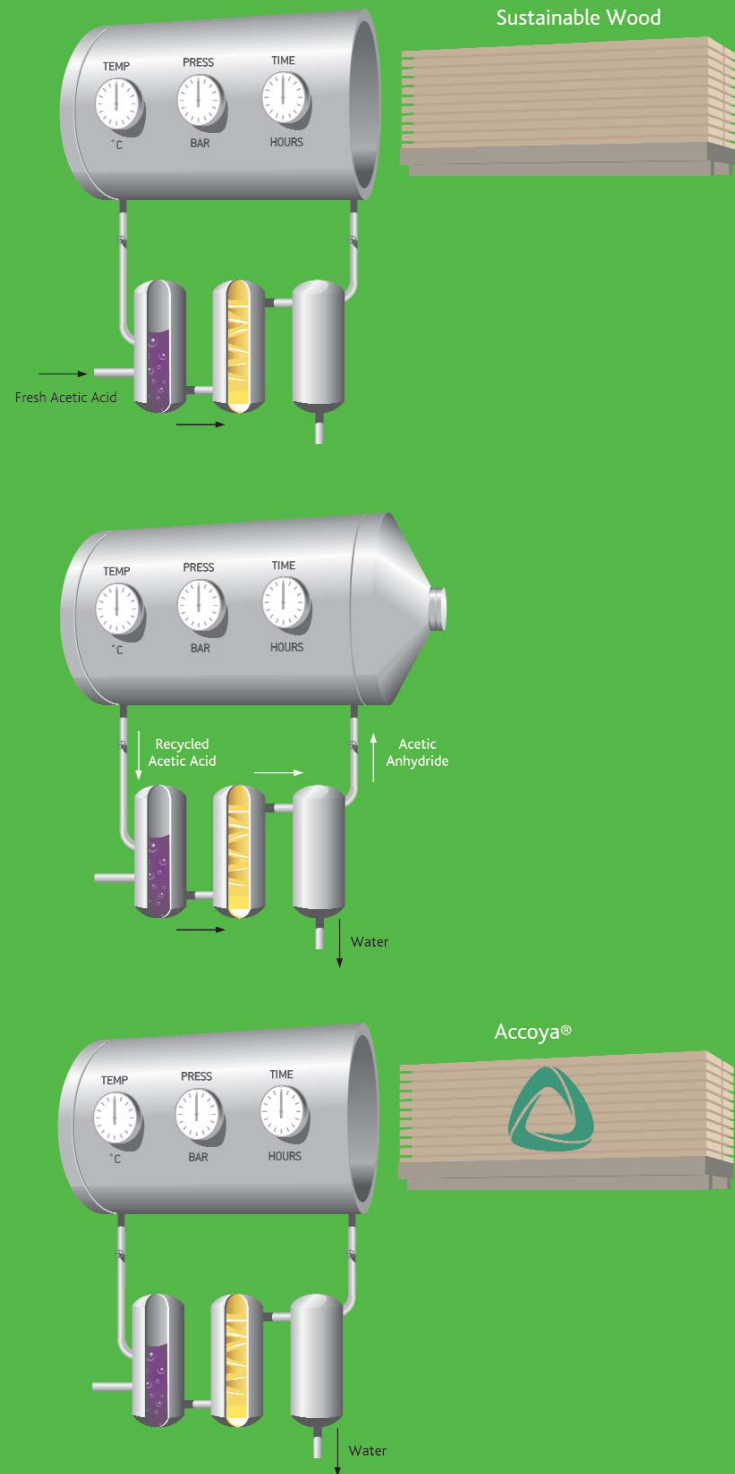
Premium Manufacturing
- Accoya® is extremely easy to work and produces an excellent coated finish.

*For more information on coatings performance please visit www.bswaccoya.co.uk

Long Life and Low Maintenance

The Accoya® Production Process

Accoya® raises the standards and reliability of exterior timber products with a 60 year minimum service life. Accoya® has properties that surpass those of the best tropical hardwoods, yet is manufactured using a non-toxic wood modification process and timber from sustainable sources.



Stage 1

Radiata pine is used for Accoya® production. The sustainable plantation involves pruning of the branches up to a height of 6 metres. Clear, knot-free timber is normally only available from old growth boreal or tropical rainforests. Pruning, along with finger jointing, allows us to provide more sustainable, clearer grade timber.

Stage 2

Wood is prepared for the modification vessel by separating the layers with fillets. These fillets are designed to allow optimum circulation and facilitate complete cross sectional modification of the timber.

Stage 3

To produce Accoya®, the acetic anhydride reacts with and blocks the chemical components of wood which normally absorb water and moisture. This is a closed loop process where the residual materials are recycled and used for subsequent modifications.

Stage 4

Accoya® is removed from the modification tank. Only naturally occurring wood components have been added to Accoya® in this process. The wood resists rot, decay and swelling by resisting moisture absorption.

Achieving a New Standard in Joinery Timber Products

Accoya® is the result of more than 80 years of research and development that have brought together a long established acetylation wood modification technique, and cutting edge technology to create a high performance timber product.

60 YEAR MINIMUM SERVICE LIFE



The picture above shows extensive "graveyard" field trials over a 16 year period which demonstrates Accoya® Class 1 durability rating which exceeds some of the worlds most durable timber species, including Teak.

LOW MAINTENANCE



The picture above shows extensive field trials over a 10 year period that prove Accoya® has excellent coatings compatibility. The field testing has been undertaken for 10 years on south facing stands at 45° angles to demonstrate that Accoya® can offer market leader paint warranties in the most severe elevations.

ROT RESISTANT TIMBER



The picture above shows a 10 year outdoor field test of Scots Pine and Accoya® with a translucent coating. The picture demonstrates that Accoya® is durable, rot and UV resistant, easily maintained and has exceptional coatings performance.

Revolutionary Wood Modification Process

60 YEAR MINIMUM SERVICE LIFE

Market Leading Joinery Products

Extensive laboratory and field testing by leading research institutes around the world (including New Zealand Forest Research Institute, University of Wales, Imperial College London, The US Department of Agriculture and several institutes in Europe and Japan) has shown the performance of acetylated wood to be extremely reliable.

Accoya® has been thoroughly tested for dimensional stability, durability, UV resistance, paint retention and in-ground conditions to guarantee maximum performance. Indeed, it is so reliable that for many years it has been and continues to be used by scientists as the benchmark against which other treatments and modification techniques are measured.

Decades of high quality scientific work are now at the forefront as acetylated wood is brought to the market for the first time in the Accoya® wood modification process. Compare Accoya® to traditional timbers in the tables below.

Excellent performance across the board

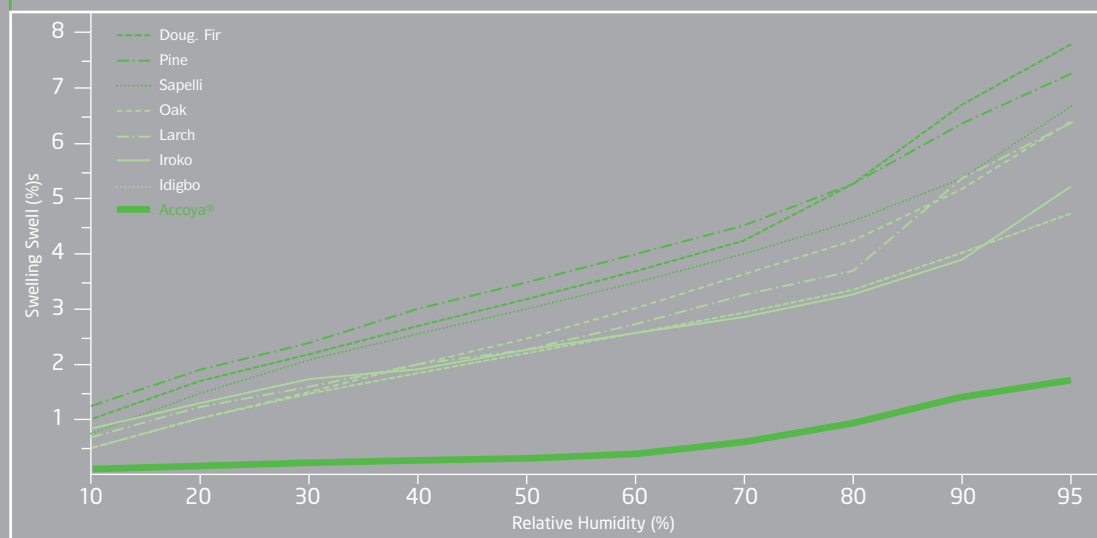
WOOD SPECIES	Durability/ Class † (1 = highest)	Janka Hardness Newton ††	Bending Strength †† N/mm²	Radial & Tangential Swelling between 60-90% RH	Tangential Shrinkage between 60-90% RH
Accoya¹	1	3950	80	0.4	0.7
Scots Pine	4	2900	80	1.0	2.4
Western Red Cedar	2 to 3	1450	55	0.5	1.2
Dark Red Meranti (DRM)	2 to 3	4300	90	0.9	1.8
Sapele Mahogany	3	6700	105	0.9	1.2

Comparison of the technical specifications of different wood species and Accoya®.

† Based upon classification by EN350. Durability Class 1 corresponds to a 60-year service life in applications such as windows, doors, balconies and cladding in the British Standard recommendation BS 8417.

†† Janka Hardness and Bending Strength are based on wood conditioned at 65% RH and 20°C. Values for all values are heavily influenced by local growth conditions.

Timber Stability with Increasing Humidity



Western Red Cedar and Louro Vermelho data source: Physical and Related Properties of 145 Timbers: Information for Practice. 1994 Rijdsdijk, Jan F. ISBN: 0-7923-2875-2

Accoya® data source: Dimensional Stability of Accoya® wood under different moisture conditions. SHR report # 6.322 2nd March, 2007

Market Leading Guarantees

Accoya® offers market leading timber cladding and joinery guarantees for life expectancy, durability and maintenance to give exceptional performance and increased design flexibility.



BRE BACKS ACCOYA® WITH 60 YEAR LIFE

"We consider that a window prepared from a permeable timber species that is acetylated through the cross section to 20% WPG, will show significantly improved coatings performance properties. If the window is designed and built to the principles of best practice, factory finished using quality coatings such as Sikkens or Teknos, installed by competent contractors and linked to a maintenance and care package such as the Sikkens Sentinel Plus Scheme or the Teknos-ICI Timber care scheme it will provide a window of outstanding durability and dimensional stability that would meet a 60 year service life requirement."

Dr E D Suttie, Director of BRE



EXCEPTIONAL COATINGS PERFORMANCE

Sikkens and Teknos offer their longest warranties yet with Accoya®



UP TO 12 YEAR GUARANTEE

Up to 12 year guarantee for an opaque (paint), fully factory applied coating system to first brush applied planned maintenance. Cladding coating life will be a shorter period compared to joinery.



EXCEPTIONAL COATINGS PERFORMANCE

"Accoya® has a significant better result with respect to long term coating performance compared to untreated wood. The adhesion of the coating Accoya® after 9½ years outdoor exposure is still good. After 9½ years outdoor exposure, untreated samples had substantially cracked and flaked coating systems and in some cases the coating was even completely eroded"

SHR Institute, Report Code 3.330-366

For more information on guarantees and coatings performance please visit www.bswaccoya.co.uk

Class 1 Durability and Maximum Stability

Abbey Woods - Good for Wood

Abbey Wood Agencies Ltd, specialise in the supply of Hardwood and Specialist Softwood Timber, Cladding, Mouldings and Wood Components all supplied and manufactured to the highest quality for use in a variety of market segments, from Building and Construction to Kitchen, Furniture and Joinery Manufacturers.

We offer a range of products for a variety of uses such as Joinery Timber, Cladding, Skirting, Architrave, PAO, Architectural Mouldings, TGV Sheeting, Kitchen Cabinet Components, Door Framing, Picture Framing and Coffin Mouldings.

Abbey Woods has established itself as one of Ireland's leading Timber, Moulding and Component suppliers through a firm commitment to providing its clients with outstanding service and the highest quality Timber products.

Our goal is to continue the pursuit of new materials, new designs and the latest manufacturing technologies in order to assure the continued success of our business relations without comprising quality or sacrificing our natural timber forests and environment.

Our commitment to our clients is supported by a solid guarantee of quality timber and customer service along with an assurance that our timber products are sourced responsibly.

This environmental commitment was demonstrated when we were the first Timber Importer in Ireland to achieve Environmental accreditation from TRADA in the UK.

The environmental commitment continues with the introduction of Accoya® to the Abbey range of timber for manufacture of cladding and joinery. Our development experience of the product shows that it offers significant performance advantages over traditional timber and is particularly workable and suited to coating.

Supplying Sawn and Profiled Accoya®

		WIDTH (MM)					
		75	100	125	150	200	300
THICKNESS (MM)	25*	-	X	X	X	X	X
	38*	-	-	-	X	X	-
	63	X	X	X	X	-	-
	75	X	X	-	X	-	-
	100	-	X	-	-	-	-

* 25 and 38mm thick are four side clear. 63, 75 and 100mm thick are finger jointed to clear 6 metre long sections.



Accoya® - the Sustainable Choice

Accoya® wood is an ultra-high performance all-natural solid wood, which has properties that surpass those of the best tropical hardwoods, yet is produced using a non-toxic process.



The production process effectively increases the wood's acetyl content, adding nothing to the wood that does not already naturally occur because acetyl groups are present within all wood species. In general, softwoods have an acetyl content of 0.5 to 1.5% and more durable hardwoods have an acetyl content of 2.0 to 4.5%. The Accoya® production process causes plantation softwood to exceed these levels, significantly improving the source wood's durability and dimensional stability.

Increased durability means that Accoya® wood last longer, helping to conserve sustainable wood sources.

The Building Research Establishment and TRADA have both backed outdoor use of Accoya® products such as windows with a 60 year minimum service life.

Improved dimensional stability (less shrinking and swelling) means that even environmentally friendly wood coatings, such as improved paint and stains, will last longer and need to be maintained less frequently. Additionally, this extended life improves Accoya® wood's carbon sequestration advantages.

The by-products of the process are a small amount of valuable fertiliser, readily usable terpenes and acetic acid, which is reused thereby limiting the amount of raw materials utilised. Our plants follow strict processes to ensure minimal impact.

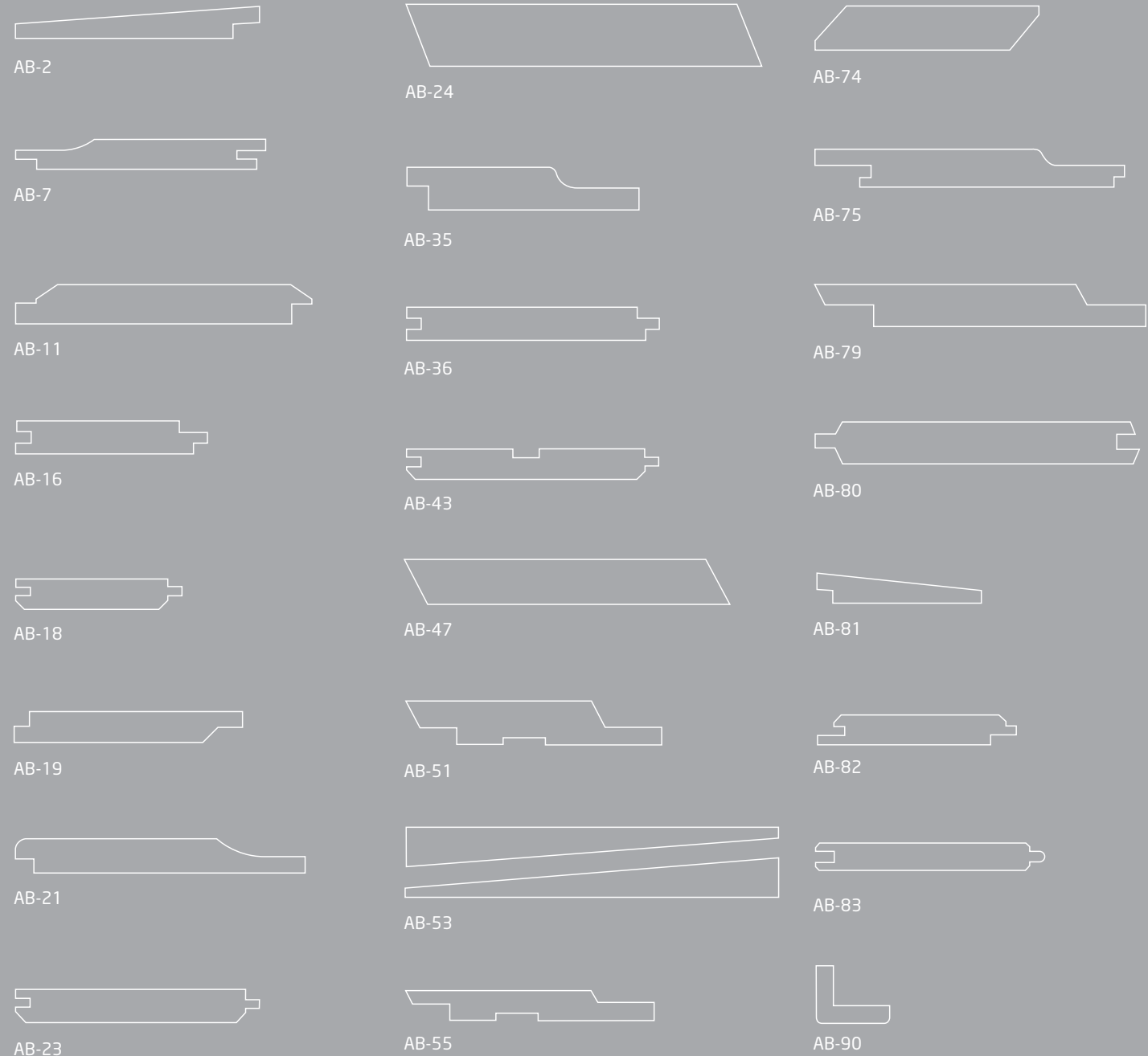
By using certified sustainably grown wood from well managed forest and improving its properties without adding toxins, Accoya® helps to protect threatened species, rainforests and local environments.

Accoya® wood can be used with absolute confidence and is suitable for a wide variety of applications, from the ordinary to the extraordinary. Where quality, durability, dimensional stability and reliability matter, Accoya wood is the natural choice.



Cladding profiles

Timber is becoming an ever more popular choice for use in exterior applications such as vertical and horizontal cladding. It is recognized as an environmentally sound and renewable resource with high insulation properties. Abbey Woods can now offer several choices for your Timber Cladding and Weatherboarding.



Abbey Woods offer additional services including fire treatment, priming and surface finishing on cladding products. Additional profiles are available, please contact your nearest branch for details.

Cladding Specialists

Exterior Cladding and Weatherboarding can be supplied in a wide variety of profiles in both sawn and machined finishes. These include a range of Square Edged Boards both sawn and planed, featheredged and bevelled either plain or rebated, tongue and grooved with a V joint, shiplap or custom moulded to your own specification.



World's first Accoya® clad house



Porch supplied by McNally Joinery



Windows and doors supplied by W & J Bolger



Sunroom supplied by McNally Joinery



Accoya® cladding with translucent wood stain coating on MP4 building