



Exclusively By
BSW Timber



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Visit Russwood, or let Russwood come to you.

Russwood is based at Station Sawmill in Newtonmore, just off the A9. We are always happy to welcome customers, and can show you our extensive display of cladding which has been weathered to give you a true picture of the materials available.

If you are not able to visit Station Sawmill, please contact us via phone, e-mail or the internet to discuss your requirements. We can dispatch samples to you speedily (a token charge will be refunded with your first order), or deliver them to you on one of our regular visits to customers nationwide.



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Setting the standard for responsible forestry management.

A Giant Step Forwood

in timber cladding

www.bswaccoya.co.uk

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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 a gold standard in high performance, sustainable timber which creates cladding that will outlast and outperform others.



Beautiful Timber - Exceptional Performance

Major Benefits to Consumers

- High performance timber cladding
- Class 1 durability
- Minimal maintenance required for paints and stains
- Highly sustainable
- Only naturally occurring wood compounds are added during the modification process
- Peace of mind with established 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.



Exceptional Coatings Performance
- 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.



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.



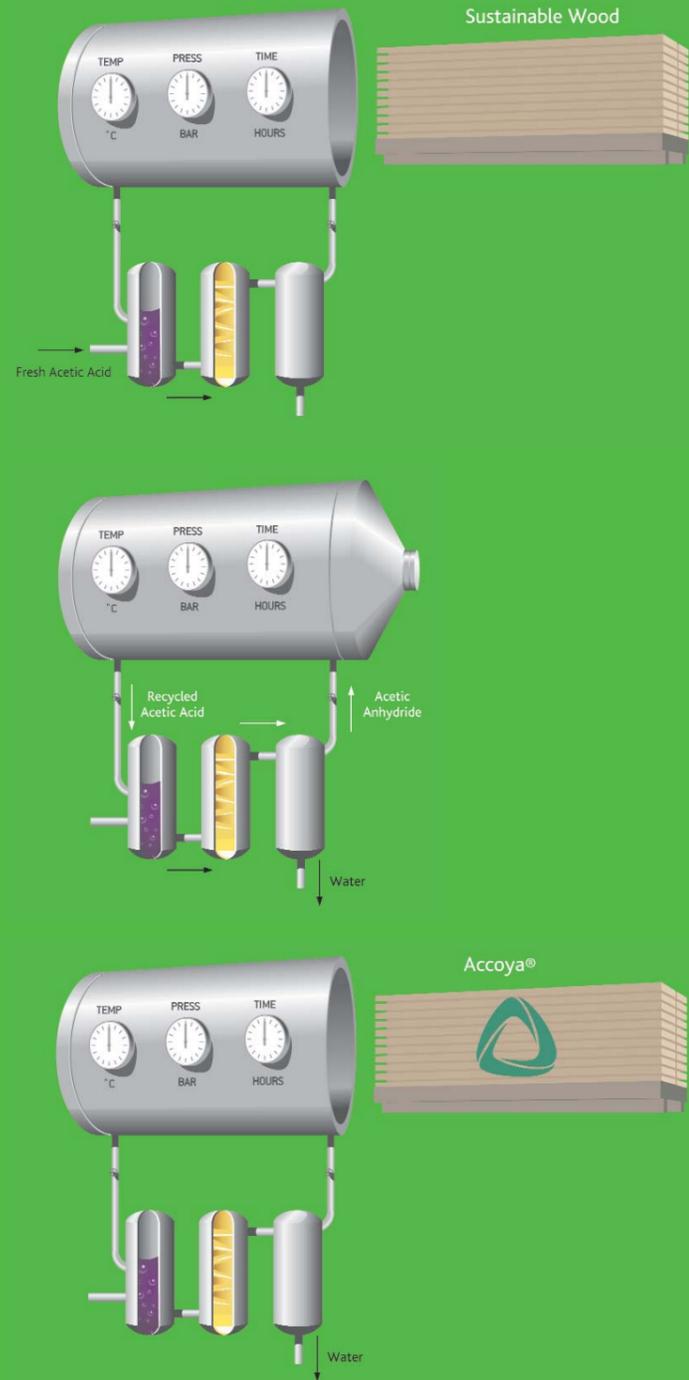
Premium Manufacturing
- High quality timber cladding produced in specialist milling and planing facilities.

*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.

Revolutionary Wood Modification Process

Achieving a New Standard in Timber Cladding

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.

60 YEAR MINIMUM SERVICE LIFE

Market Leading Timber Cladding

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

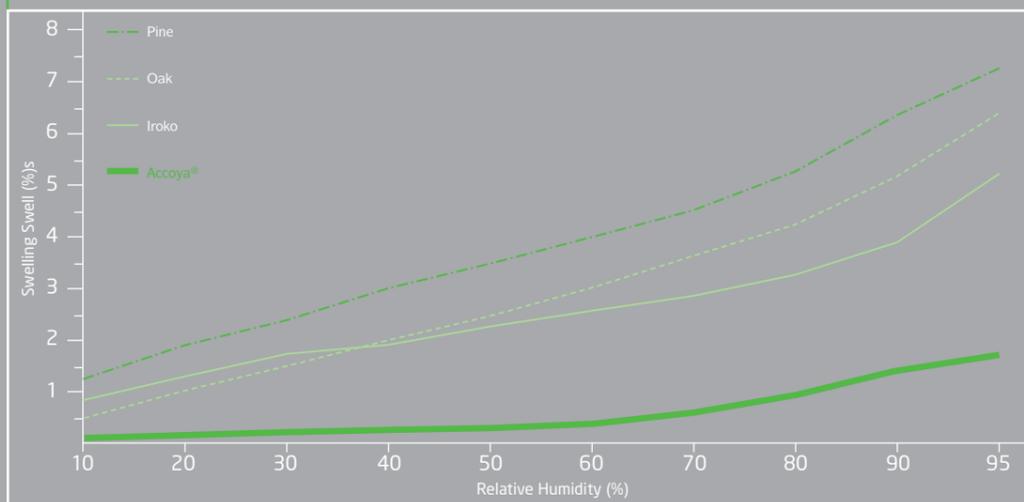
WOOD SPECIES	Durability/ Class † (1 = highest)	Janka Hardness Newton ††	Bending Strength †† N/mm²	Radial & Tangential Swelling between 60-90% RH	Tangential Shrinkage between 60-90% RH
Accoya[®]	1	3950	80	0.4	0.7
Scots Pine	4	2900	80	1.0	2.4
Western Red Cedar	2 to 3	1450	55	0.5	1.2
Dark Red Meranti (DRM)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

Class 1 Durability and Maximum Stability

Market Leading Guarantees

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

60
YEAR
SERVICE LIFE

BRE BACKS ACCOYA® WITH 60 YEAR LIFE

Extensive research by the Building Research Establishment Ltd has concluded that fully factory finished Accoya® cladding meets a 60 year service life requirement.

50
YEAR
GUARANTEE

50 YEAR LIFE GUARANTEE

Accoya® has an excellent performance life which is guaranteed to be rot free for 50 years minimum and be more stable than any other joinery timber.

GORI

EXCEPTIONAL COATINGS PERFORMANCE

Gori offer their longest warranties yet with Accoya®

12
YEAR LIFE
GUARANTEE

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.

10
YEAR LIFE
GUARANTEE

UP TO 10 YEAR GUARANTEE

Up to 10 year guarantee for a translucent (wood stain), fully factory applied maintenance coating system to first brush applied maintenance.

For more information on guarantees and coatings performance please request the GORI coatings information sheets from Russwood.

Russwood Cladding

Russwood is a respected supplier of high-quality timber. We are delighted to add Accoya® wood cladding to our range of products, and are

pleased to advise customers on the many benefits it can offer them.

Based at Station Sawmill in Newtonmore, we travel throughout the country advising customers on cladding, and are happy to deliver samples and discuss projects with you in depth. We work closely with many architects and engineers.

A high percentage of our custom is repeat business, of which we are very proud, and our long-standing customers come back to us again and again for the high levels of expertise and service we offer.

As Highlands and Islands Business of the Year, Russwood is also attracting many new

customers, who see the benefits of our knowledgeable team, on-site milling and planing facilities, and dedicated delivery vehicles. This allows Russwood to assure you of rigorous quality control, rapid turnaround, and reliable delivery.

Russwood often presents continuing professional development seminars on external timber cladding, and these now include excellent information on Accoya® wood cladding. To arrange a seminar for your company, please contact Iona Malcolm on 01540 673648 or by e-mail at iona@russwood.co.uk.

Sizes of Accoya® Timber Available

		WIDTH (MM)					
		100	125	150	200	300	400
THICKNESS (mm)	25	X	X	X	X	X	X*
	38			X	X	X*	X*

* Because of its inherent stability, Accoya® is ideally suited to edge laminating into these wide section boards.



2C. 122mm cover



5C. 122mm cover

2c and 5c are Russwood's standard profiles. Four additional Accoya® profiles are available, and Russwood also has the ability to machine to architects' individual designs.

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.

Increase 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.



Accoya® Cladding
is FSC Certified

Cladding Specialists

Accoya® is suitable for timber cladding, siding and facades where aesthetics, less frequent maintenance, dimensional stability and durability are key factors.

Cladding Specialists

