



# ENHANCED TIMBER COMPOSITE WINDOW & DOOR COMPONENTS



QWOOD

All the beauty - trouble free



## INTRODUCTION

Qwood is a timber composite product widely used within the timber window and door industry. The wood used is derived from enduring sustainable forests. Qwood profiles reflect the natural appearance and feel of wood whilst retaining the beneficial properties of a composite. Qwood is supplied with a natural smooth surface finish, which can be painted the same way as timber. Qwood is manufactured by Quantum Profile Systems Ltd. (QPSL) under the culture of 'lean, green, safe, clean'.

### ... Lean

Our commitment to create value for our customers as they see it.

### ... Green

Our commitment to environmental sustainability in all we do (ISO14001 accreditation)

### ... Safe

Our commitment to the safety and wellbeing of all stakeholders.

### ... Clean

In reputation and our commitment to complete transparency in all we do.

“Qwood is an excellent quality product offering substantial improvements over traditional timber beads”

Managing Director, West Port



## BENEFITS OF QWOOD

### 1# Use Straight Out of Box

Qwood is a complete 'out of the box solution'. The moment Qwood arrives it is ready to use. There is no need to extract moisture, treat, acclimatise or condition before using. Qwood removes labour intensive inspection and sorting.

### 2# Reduce Preparation Times

Use 'it all' straight out of the box; Qwood is consistent – every piece, every time. No knots, no defects, no bends. Qwood is highly resistant to changes in temperature with minimal moisture absorption. Eliminate time consuming manual tasks such as sanding, de-nibbing, machining and preparation that are currently associated with timber beads.

### 3# Sustainability

Qwood takes sustainability seriously and are fully committed to the protection and the improvement of the environment for future generations.

- » Qwood is manufactured under an environmental management system accredited to ISO14001
- » Waste Qwood is recyclable to reduce unnecessary land fill
- » The wood fibres used in Qwood are sourced from sustainable forest strands
- » Qwood have successfully achieved chain of custody certification from both Forest Stewardship Council® FSC®-C121902 and PEFC.





#### 4# Enhance Production and Processing

Qwood offers the industry a product that improves and enhances the flow of product through the joinery process. Consistently straight Qwood can be used with traditional joinery tools, its unique properties improve production with no knots or imperfections.

Qwood can be:

- » Cut, mitred, lap jointed
- » Nailed and pinned
- » Glued and taped
- » Shaped for use on arched or round windows.

Qwood reduces processing and has a significant positive effect on production times, storage, sorting and waste.

#### 5# Minimise Product Waste and Defects

The consistency of Qwood means waste can be drastically reduced as it will not bow, splinter, swell, crack or rot. Therefore only off-cuts will be left over, everything else will be fitted to your window or door. Qwood can also be supplied in a length that best suits your production, subject to quantities, thus helping to further reduce waste.





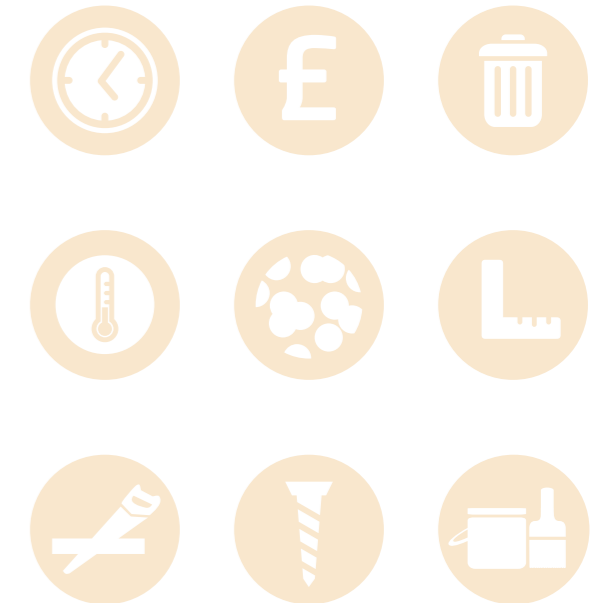
### 6# Enhance Finished Product

As you may expect because of the use of wood fibres in Qwood, when finished Qwood looks and feels every bit as good as timber but with added benefits. Qwood has no gaps to fill or knots to cover. The smooth surface without imperfections creates the perfect 'canvas' for paint ensuring that the finish achieved is excellent.

### 7# Long Term Performance

"How long is your guarantee?" This is a question that all joinery manufacturers get asked on a regular basis. By using Qwood you can eliminate the problems associated with glazing beads, astragal bars and parting beads.

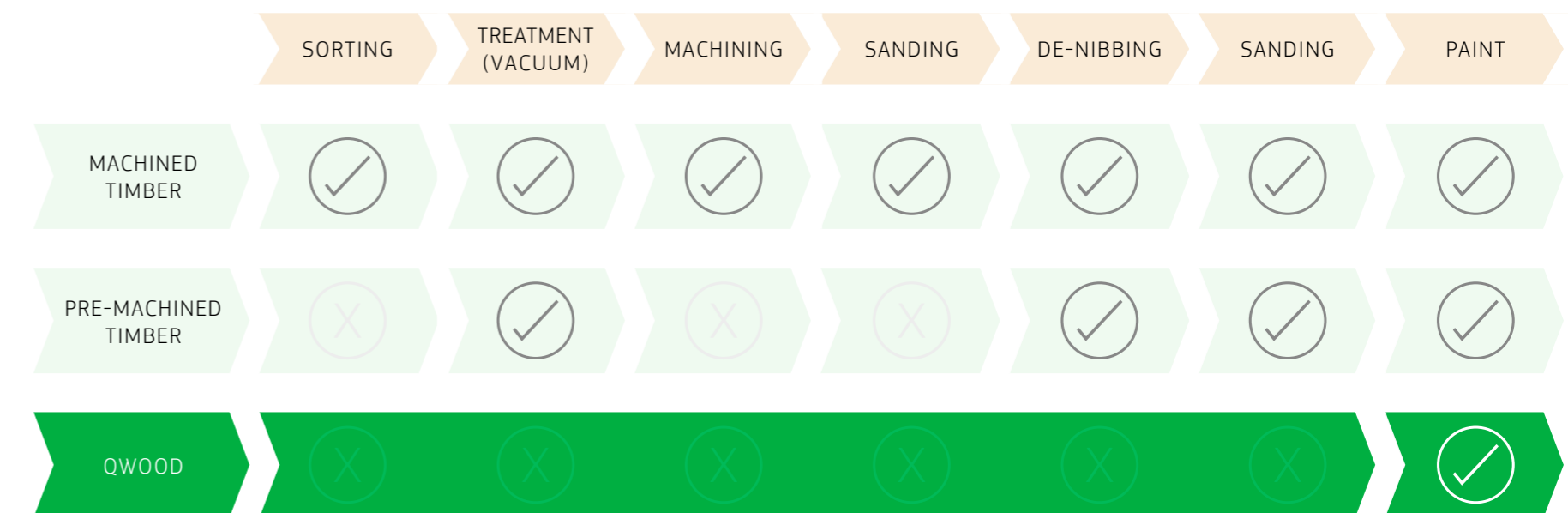
Qwood is extremely stable, durable and affected little by temperature or environmental changes. Qwood will not swell, twist, split, rot and there won't be any knot-bleed. This all means you are able to have peace of mind in the superior long term performance of windows and doors when Qwood profiles are fitted. Potentially never make a remedial visit again to fix a broken, bent or warped bead. Qwood will far out last its timber alternative. Some of the ongoing historical problems with external joinery can be eliminated.





## REDUCE PROCESSING

Remove non-value adding tasks from processing.



## MARKS OF QUALITY



Our commitment to quality of service, process and product



Our commitment to environmental sustainability through process improvement



Member of the British Wood Working Federation



Manufacture 100% of product in Great Britain



**WOOD. AT THE HEART OF A GOOD WINDOW**  
The **Wood Window** Alliance

Member of the Wood Window Alliance



The mark of responsible forestry



Promoting Sustainable Forest Management

Our timber is sourced from sustainable forests

## TECHNICAL

Material Characteristics	Qwood	Pine wood
Water Absorption Test* (Increase in Thickness)	0.6%	1.6%
Water Absorption Test * (Increase in Mass)	15.3%	68.3%
Thermal Resistance Test ** (R Value)	0.491 m <sup>2</sup> K/W	-
Thermal Conductivity (K Value)	0.099 W/mk	0.120 W/mk
Heat reversion test***	No greater than 3%	-

\* Method: Qwood profile and untreated pine wood were exposed to immersion in water for 28 days at 23°C in a test based on EN 317. Test results are expressed as a percentage change in thickness and mass.

\*\* Method: Heat flow metre method of ISO 8301:1991 & BS EN 12667:2001 using approved testing laboratory.

\*\*\* Method: Samples are scribed at 200mm and heated to 100°C for 1 hour (MOAT No 17 : 1990 4.35)

### Processing

Work -  
Use same processing machines for cutting, sanding, milling, drilling, routing, and glue as wood.

Surface Treatment -  
Paint with brush, roller or spray.

### U Value

Qwood can be used to obtain lower U Values for a building when compared to traditional beading.

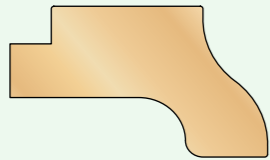
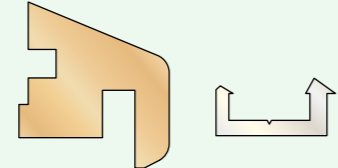
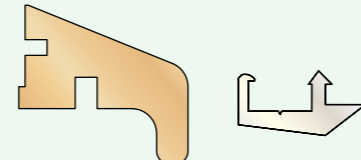
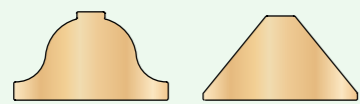
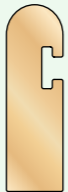
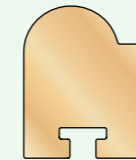
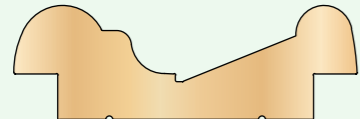
### Sustainability

Qwood can confirm that the material used in its production is made from fibres from sustainable forest strands.

### Paint Tests

Qwood beads have been tested with leading paint manufacturers and have had excellent results in adhesion, condensation and water tests. For details contact info@qwood.co.uk

## A GLIMPSE AT THE RANGE

<p>HEAD DRIP BEADS</p> 	<p>GLAZING BEADS &amp; CLIPS</p> 	<p>DRIP BEADS &amp; CLIPS</p> 
<p>ASTRAGAL / BONDING BEADS</p> 	<p>PARTING BEADS</p> 	<p>STAFF BEADS</p> 
<p>DOOR BOLECTION MOULD</p> 	<p>For more information on all the profiles in the Qwood range call 0161 627 4222</p>	

## NEXT STEPS

To find out more about the benefits of Qwood to your business or to request your free sample pack. Contact us:



[www.qwood.co.uk](http://www.qwood.co.uk)



[info@qwood.co.uk](mailto:info@qwood.co.uk)



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@q\_wood

“Qwood offers superior performance”

Purchasing Director, PDS





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PART OF



**QPSL** LEAN, GREEN, SAFE & CLEAN

QPSL Group strives for continuous improvement in our environmental, health and safety management systems and in the environmental quality of our products, processes, and services.