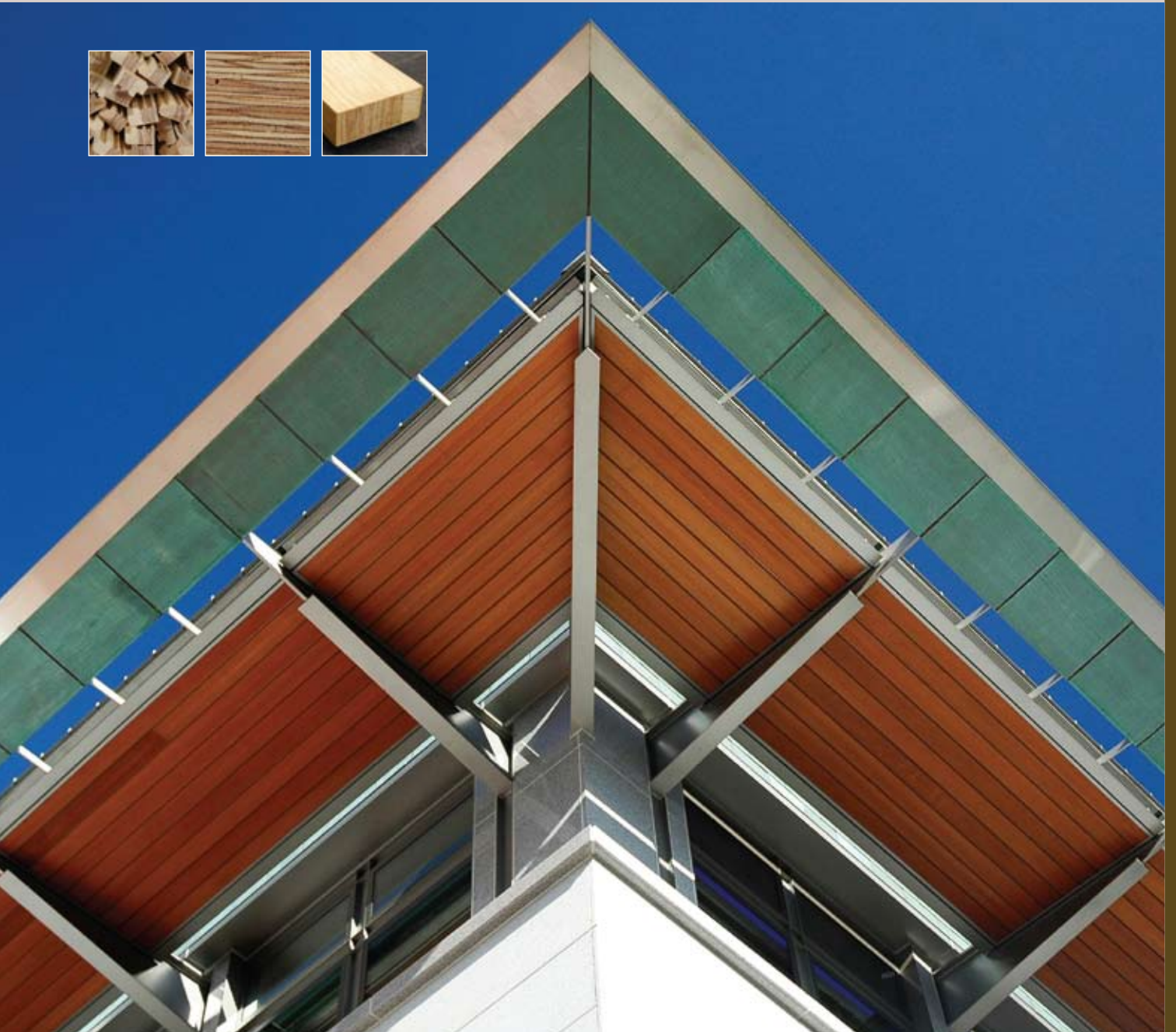




Timbmet Innovation



Timbmet Engineered Components

 **TIMBMET**
Everything wood should be

Where **strength** and **beauty** meet

What is TEC?

Timbmet Engineered Components are highly engineered wood products with potential applications as limitless as your imagination.

Part of Timbmet Innovation, the revolutionary and ever expanding group of innovative wood products sourced from around the world, TEC products are famous for their stability and versatility. Dramatically increasing the potential for the effective application of timber while out-performing the properties of non-engineered timber, they provide ideal solutions for architects, joiners and contractors.

Offering real strength and extraordinary efficiency, TEC products retain and enhance the beauty and appeal of real wood while giving you finger-jointing technology, wood veneers, advanced adhesives and substrates like LVL, aluminium and plastic. No matter how demanding your project, you can be sure TEC will provide a perfect solution.

Why TEC?

Leading the industry in innovation and the use of cutting-edge technology, TEC products radically increase the potential for the effective application of timber. Thanks to our experimentation with a vast range of materials and extremely rigorous testing procedures, we have produced an impressive range of engineered wood components, guaranteed to out-perform regular timber every time.



King's College, London. Engineered vertical louvres

Benefits at a glance:

Dimensional stability

The multi-layer construction offers stability and stress performance far in excess of traditional solid wood.

Reduced wastage

The components are made to measure, resulting in less waste. As they are easy to assemble, labour costs are kept to an absolute minimum.

Flawless

TEC products are free from the problems associated with knots, splits and staining. Each component is consistently graded and dried, giving a uniform performance and appearance.

Reduced handling

All the components are regularly sized which makes handling quicker and easier and the use of storage space more efficient.

Environmentally friendly

As TEC products reduce waste, the timber is used more efficiently, thereby satisfying the most exacting demands for products that contribute to environmental sustainability.

Reduced costs

Better use of materials, handling and storage guarantees significant savings.

Off the shelf TEC

WINDOW

Species

NEW FSC Red Grandis

FSC European Oak, Sapele, Certified Redwood and Meranti.

Sash or Casement

- All species 63 x 75mm and 72 x 75mm
- 63 x 63mm, 63 x 95mm, 72 x 63mm and 72 x 86mm in Certified Redwood only
- Hardwood in lengths of 1.2m and longer
- Softwood in lengths of 6.0m only

Outer Frame, Jambs and Head Section

- 96 x 63mm and 96 x 75mm
- Hardwood in lengths of 1.2m and longer
- Softwood in lengths of 6.0m only

Performance

All sections achieve FD30 Fire Rating.



STAIR

Species

Oak and edge-glued Pine available from stock. Other species available to order.

Stair String

- Oak – 32 x 275mm x 4.8m
- Pine – 27 x 270mm x 5.1m & 32 x 275mm x 5.1m

Stair Tread

- Oak – 32 x 275mm in lengths of 1.0m and 1.2m
- Pine – 27 x 269mm in lengths of 5.1m

NEW Stair Riser

- 18 x 225mm in lengths of 1.0m and 1.2m
- Available in Oak only

Newel Post

- Oak – 90 x 90mm and 115 x 115mm in lengths of 1.7m to 3.0m
- Pine – 96 x 96mm in 6.0m lengths



DOOR

Species

NEW FSC Red Grandis

FSC European Oak, Sapele, Certified Redwood and Meranti.

Stile/Muntin/Top Rail

- 48 x 95mm, 48 x 120mm, 63 x 120mm, 72 x 95mm, 72 x 120mm
- All lengths of 2.0m and longer
- 63 x 125mm available in Certified Redwood and Red Grandis only

Mid/Bottom Rail

- Hardwood – 48 x 200mm, 63 x 200mm, 72 x 200mm in lengths of 1.0m or 1.2m
- Softwood – 48 x 220mm, 63 x 220mm, in lengths of 0.8m to 1.2m and 63 x 200mm in 6.0m lengths

Outer Frame, Jambs and Head Section

- All species 96 x 63mm and 96 x 75mm
- Hardwood in lengths of 2.0m and longer
- Softwood in lengths of 6.0m only

Performance

All sections achieve FD30 Fire Rating.



Insulated Door Panels

For the highest levels in thermal and acoustic insulation, the TEC range of engineered door panels can't be beaten. Eliminating the need for return site visits, they are ideal if you have energy saving requirements.



28mm Insulated Door Panel

- 28mm high density cork-filled door panels are ideal for tongue-and-grooved and flat-faced doors
- Available as 1800 x 800mm, 1800 x 1200mm, 2100 x 800mm and 2100 x 1200mm sheets

45mm Insulated Door Panel – FD30 Fire Rated

- 45mm high density cork-filled door panels are ideal for raised and fielded panels
- FD30 Fire Rating
- Available as 1800 x 900mm and 1800 x 1200mm sheets

Availability

- Both products available from stock in Redwood, European Oak and Sapele with other species and sizes available to order
- External MDF-clad panels ideal for painting, are available in sheets of 2440 x 1220mm

Oak stair parts

Timbmet offers a collection of high-quality engineered stair parts available in money-saving packs. Designed and manufactured in line with our commitment to sustainability and the innovative standards of the TEC range, our easy-to-install Pack TEC products are sold unfinished and ready to be stained, varnished or painted to suit.

The stairparts TEC range includes spindles, handrails, baserails, newel posts and newel caps. For more information on these products please contact the TEC team on **01865 862223**.

NEW

Red Grandis



Generic specific name: *Eucalyptus grandis*

Geographical area: South America

Durability: Durable to moderately durable

Appearance: light red to pinkish brown, mild grain with even texture

Uses: furniture, mouldings, joinery



Window sections – ideal for sash, casement and frame manufacture. 3ply and 4ply scantlings 63, 72 or 96mm thickness x 75 or 95mm wide. All lengths are 2.0m and longer.

Door sections – ideal for stile, muntin, rail and head manufacture. 3ply and 4ply scantlings at 48, 63 or 72mm thickness x 95 or 120mm wide. Mid and bottom rails available in 200mm widths. All lengths are 2.0m and longer.

Frame sections. 4ply construction at a thickness of 96mm x 63mm and 96mm x 75mm face. Lengths supplied are all 2.0m and longer.

Red Grandis is a 100% FSC certified South American species, it is a high-grade clear timber with superior consistency in colour, appearance, grain and workability. Often used in furniture, cabinets, mouldings and within the window and door frame industry, Red Grandis can easily be finished to resemble other species such as Oak and Mahogany. Alternatively, if left untreated it will weather into an attractive silver grey colour.

Timbmet customer, Fairoak Timber has been using the species in the manufacture of their windows and doors. Fairoak Production Manager, Chris Johnson comments: *“Red Grandis is an excellent alternative to Sapele; it has similar properties but is less expensive - saving us, and ultimately our customers, money”.*



Red Grandis window with a light oak stain



Red Grandis window with a rosewood stain

Bespoke TEC


What is Bespoke TEC?


Timbmet’s bespoke TEC range includes laminated beams, passive window and door components, Air-o-therm, Thermally Modified Timber and Taurus doorblanks. We are always expanding our range and are able to find customised solutions to meet specific requirements so please contact us if you have a need you can’t see the answer to here.





Custom design


Timbmet is a service-driven company. Central to our success is our ability to offer bespoke solutions designed to overcome the most exacting brief. Bespoke TEC is a demonstration of our position as the leading specialists in high-quality, bespoke engineered products. Our long-standing partnerships with suppliers, our national distribution network and the sheer breadth of our expertise ensure we can design and deliver specially created materials, guaranteed to perform to your exact specifications.


- 


Insulated window component
- 


Veneer-wrapped aluminium louvre
- 

Two timbers engineered together into one component
- 

A highly engineered door blank contains steel, insulation and satisfies high acoustic levels
- 

Evron – a rigid exterior grade PVC
- 

Passive components
- 

Thermally Modified Timber (TMT)
- 

Air-o-therm

NEW

Laminated Beams

Bespoke

Laminated beams with strength and aesthetic properties are now available from the Timbmet Bespoke TEC range.

Strong, attractive laminated beams are now available as part of the Timbmet Bespoke TEC range.

Our laminated beams are tested to BS11 (GL24) standards with a minimum 11,000N² modulus of elasticity strength measurement. With load bearing capabilities, these beams are ideal for use in conservatory ceilings and post/bolt constructions, while the high-quality timber finish makes them suitable for façades and internal cladding. For a luxury finish to internal aluminium window frames, simply click the laminated beams on. An aluminium and timber composite like this can also create a curtain wall solution which benefits from an exterior aluminium face and a strong, aesthetically superior laminated beam interior finish. We simply incorporate a groove for the aluminium curtain walling to click into.

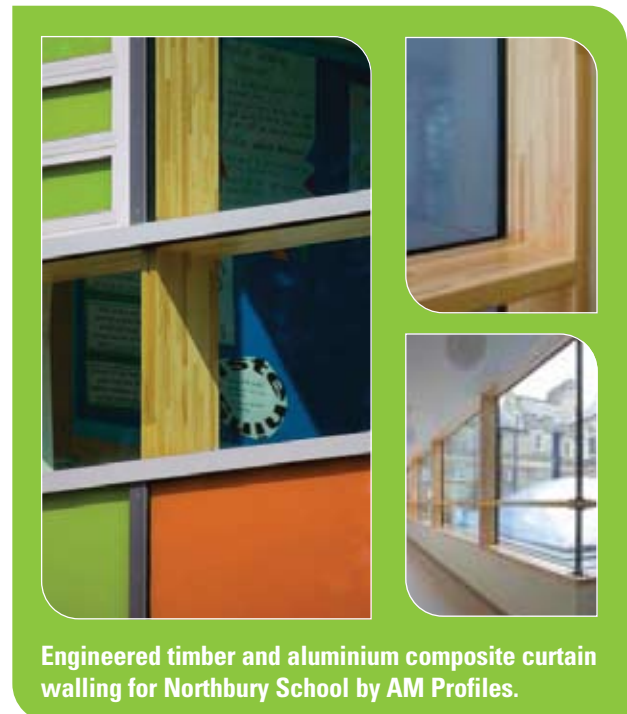
This is particularly suitable for schools, colleges, offices and municipal buildings.

Available in upto 12m lengths of Larch, Spruce, Pine, Oak and Meranti, the laminated beams have a virtually knot-free vertical grain, and are planed all round and chamfered on four sides. They can also be lacquered prior to delivery for a fully finished appearance ready to use. This is the optimum specification for savings in time, labour and money.

- **Suitable for construction**
- **Virtually free of knots**
- **Time, labour and money saving**



Laminated beam



Engineered timber and aluminium composite curtain walling for Northbury School by AM Profiles.

Passive Components & Air-o-therm

Bespoke

Passive housing is a concept very close to Timbmet’s heart. Buildings which are able to maintain a comfortable interior temperature without the use of energy-guzzling heating appliances conform exactly to our principles: they’re eco-friendly, modern, innovative, conducive to a high standard of living and cost- and resource-efficient.

Passive technology works and the market is primed for tremendous growth – government incentives are already encouraging zero-carbon houses and in time new-builds will have to comply by law. We are the only company to supply Passive window and door solutions in the UK: our highly engineered components have been specially designed to satisfy the low U-value demands of progressive projects of all types.

In addition to the passive components, we supply a range of Air-o-therm energy-saving scantlings. The Air-o-therm components improve the thermal performance of window designs offering an environmentally improved product.

Passive window and door components

Our specially designed, made-to-order, insulated TEC components are ideally placed to produce windows and doors that meet the U-value requirements of new energy efficiency housing regulations. The natural insulation that timber provides and the intricacy of TEC engineering means we can offer not just an A rating but also a Passive solution.

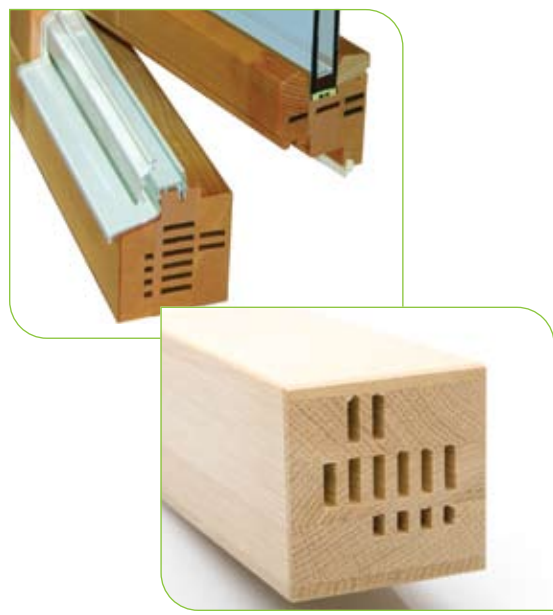
Our door components are available in an array of species and designs, all meeting the 0.8 passive U-value. Our window components are designed to your individual requirement with a choice of Purenit or cork for ultimate heat retention.



Air-o-therm

A new generation of energy-saving scantlings

Air-o-therm, an innovative window scantling with air chambers, combines energy-saving environmental benefits and affordability. It’s a totally natural product from PEFC certified forests available predominantly in Spruce but also other species. Designed for thermal-insulated window and door elements, Air-o-therm leads the way in energy-saving materials.



Thermally Modified Timber (TMT)

Bespoke

New high-quality, engineered window and door scantlings are now available in PEFC Certified TMT Beech and TMT Spruce.

The chemical-free thermal process improves the durability of timber, Beech (class 1) and Spruce (class 3), making it suitable for external use. Improved dimensional stability with a reduction in the swelling and shrinkage behaviour, increased resistance to fungi and easily worked in machines makes TMT an ideal option for external joinery manufacturers.

A duo-timber option is constructed using a combination of thermally modified Spruce and unmodified Spruce. The modified sections can be used externally to protect against the natural elements while the middle and internal sections, which don't need added durability, remain in their native state. This offers window manufacturers a lower cost option for a TMT product.



Thermally Modified Timber (TMT)

Taurus Doorblanks

Timbmet's Taurus doorblanks eliminate the traditional problems associated with timber front doors. Where once differing humidity and temperature levels caused bending from the wood swelling on one side and shrinking on the other, our components offer improved stability and thermal insulation. We also offer a product which meets passive insulation requirements.

The TEC Solution

Strong frame

A laminated timber frame with glued corner joint minimises twisting and bending.

Thermal insulation

The effects of high-quality insulating cork and non-rotting, CFC-free foam are further enhanced by a thermal barrier in critical areas.

Gluing techniques

The whole door blank is PU-glued for water and wind resistance, and a 6-ply Hotmelt layer guards against the permeation of water.

Corner security

Every corner is dowelled twice for unbeatable protection against twisting.

Stabilising layers

A thermal break between two aluminium edge plates is glued to the timber for enhanced stability, with a further HS 10 vertical line layer available.

Exterior layers

Choose from an MDF outer layer finished in a range of exclusive veneers with mouldings to match, or a beautiful solid wood layer of 2.5mm or 6mm thick.

CASE STUDY: Highbury Crescent, London

PROJECT DETAILS

Project Description: TEC products in a prestigious housing development in Highbury Crescent, London

Client: Murphy

Joinery Contractor: Soundcraft

Product Solution: doors, windows, panels for shutters, handrails and treads

Project Value: £1m

Timber Value: £120,000



“Highbury Crescent presented a number of unique challenges, not least because it’s built over an underground line which generates a fair amount of vibration,” explains Soundcraft’s Joinery Director Jeremy Murphy. “To help counteract this we recommended installing Timbmet TEC windows and doors, as from past experience they deliver the highest levels of insulation, acoustics and durability.”

“With its natural resistance to shrinking and warping plus great grain match, every component arrived in perfect condition with no wastage whatsoever – compared to solid timber where we’d expect to lose up to 40% in machining. Having used TEC engineered components on all our recent projects, there’s no way we’d contemplate a return to conventional timber.”

CASE STUDY: Kings College, London

PROJECT DETAILS

Project Description: Engineered vertical blinds

Client: King’s College

Joinery Contractor: Taylor Made Joinery

Product Solution: Engineered solution – White Oak veneered aluminium wrapped shutters

Project Value: £20m

Timber Value: £38,000



Taylor Made Joinery consulted Timbmet on the best material for the manufacture of timber shutters during the Kings College refurbishment. The shutters needed to be Oak, but the 3-metre length sections coupled with their close proximity to radiators posed a problem for solid timber. Timbmet’s engineered solution was an aluminium framed section wrapped with a white Oak veneer to give the uniform and natural appearance of Oak but with the strength and stability of aluminium.

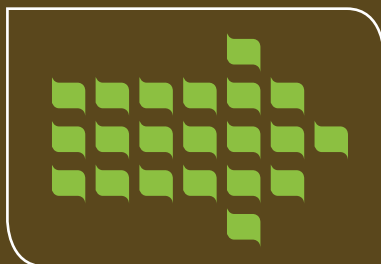
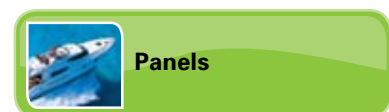
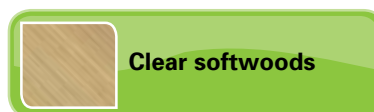
The product testing performed prior to delivery provided confidence that this solution would meet all their needs.



Wood is one of Mother Nature's greatest gifts – endlessly useful, spanning a wide spectrum of natural colours from the palest Ash to the richest Mahogany, and admired for centuries both in its raw state and shaped at the hands of master craftsmen. We dedicate every day to sourcing it, distributing it, engineering it, developing it, learning about it and promoting its responsible use, mindful of the weight of its substantial history and enthusiastically expectant of its exciting future.

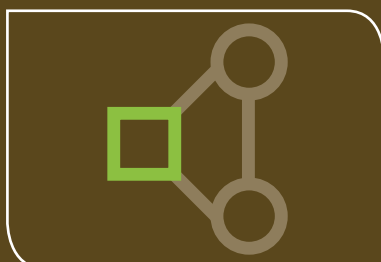
Timbmet Products

Timbmet offers one of the most extensive ranges of certified hardwoods, clear softwoods, panel products, flooring, decking, manufacturing services, door and window components and bespoke and highly engineered solutions in Europe.



Timbmet Innovation

We are dedicated to sourcing new and exciting timber products from around the world and applying our imagination and expertise to developing the application of wood through regular sector-specific focus groups.



Timbmet Intelligence

Our long-standing commitment to promoting sustainability, coupled with over 65 years experience in sourcing and working with wood, enables us to advise on some of the most progressive, demanding projects happening today.



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