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Plywood Guide

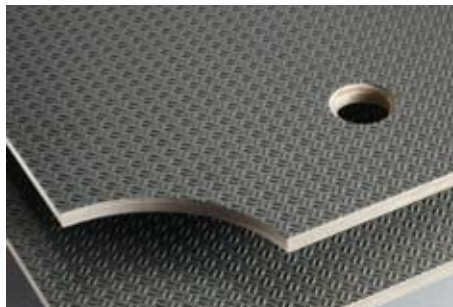
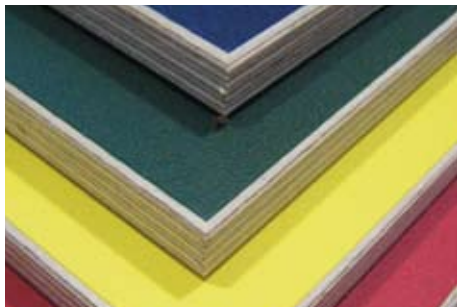
Technical Plywood for:-

Furniture, Shopfitting and Exhibitions, Flight cases, Design and Construction, Sports, Play and Leisure Equipment, Grandstands, Stages, Decking and Podiums, and many more outdoor applications...





Vintage at Goodwood 2010
 ATP Buffalo® Board was used for the ramps and steps.
 (photo courtesy of Losberger UK Ltd)



ADVANCED TECHNICAL PANELS

Advanced Technical Panels are the UK's leading supplier of Specialist Birch Plywood and offer the following items from stock. Call us on 01924 263655 or 01442 849009 to discuss your requirements

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* All products except Polystar* are either FSC or PEFC certified from European Forests and are CE structural quality.



1. Architectural 'POD' installation at Southwark Cathedral London - this was created using a range of ATP plywood, including White Multiwall and dark brown smooth phenolic birch plywood.
Created by Tim Greany.



2. Students bar at the Royal College of Art, created from dark brown phenolic film faced birch plywood and white gloss HPL bonded to birch plywood.
Courtesy of Markus Bergström.

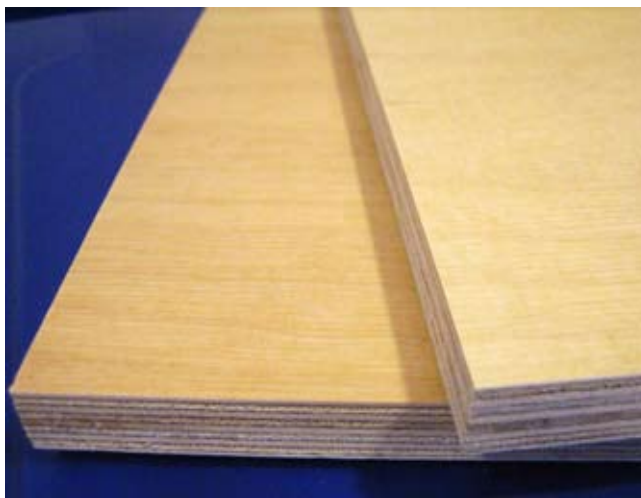
SMOOTH PHENOLIC FILM FACED BIRCH PLYWOOD

Product	Birch plywood overlaid with a smooth phenolic film on both sides. Available in dark brown, grey, light brown and clear phenol. Edge sealed with acrylic paint.
Applications	Formwork, interior design, furniture, shelving, banqueting tables, rebound boards, shopfitting, Joinery, sports fencing, pitch dividers, racing car splitters, jigs and van lining.
Thicknesses	6.5mm, 9mm, 12mm and 18mm. Other thicknesses available on request.
Sizes	1220 x 2440mm and 1525 x 3050mm in dark brown - other sizes available on request.

Note! *Although phenolic film faced plywood is widely used for external purposes it may fade over time when exposed to strong sunlight and the elements. This should be taken into account when specifying for aesthetic or decorative exterior uses.



Light Brown Phenolic Birch Plywood



Clear Phenolic Birch Plywood

WISA-MULTIWALL AND KOSKIFUTURA. TOUGH, POLYPROPYLENE COATED BIRCH PLYWOOD

Product	Multiwall and Futura
Surface	Polypropylene laminate on both sides
Texture	Slight texture, no taint or odour from overlay
Thicknesses	4mm 6.5mm 9mm 12mm 18mm up to 24mm
Sizes	1220 x 2440 and 1525 x 3050 mm 12mm 1220 x 2990 mm Green Other sizes available on request
Colours	White and Grey in all thicknesses. Black, Red, Green, Blue and Yellow in 12mm and 18mm
Applications	Sports fencing and rebound boards, playground equipment, furniture, trailers, horseboxes, camper van conversions, shopfitting, joinery, flightcases, shelving, kitchen units, sports structures and lining panels
Properties	Tough, durable wear-resistant plywood for many indoor and outdoor applications. Easy to clean with water and detergent, good chemical resistance and UV resistant so that bright colours do not fade in exterior conditions.



Multiwall photo from UPM-Kymmene



A & E Leisure have used Futura for play equipment



Cricket scoreboard in Black Multiwall. By Andrew Ashworth

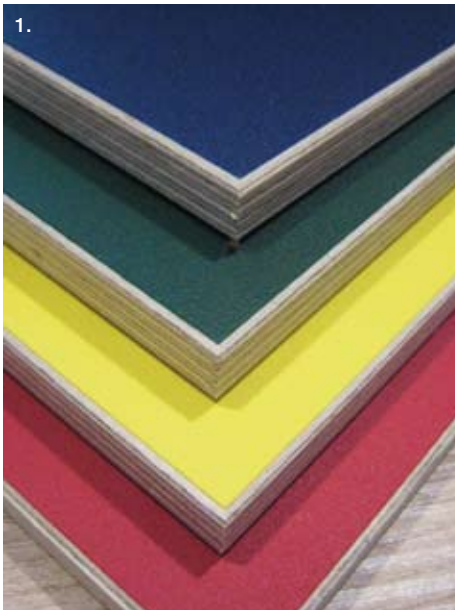


Horse trailers by Richardson Trailers



Rebound boards by SIS UK Ltd

WISA-MULTIWALL AND FUTURA



1. Multiwall colours



2. Grey Futura used for display 'bleachers' at Nike's destination retail space in Shoreditch designed by Ben and Oscar Wilson



(Photo courtesy of Smartfix UK Ltd).



3 & 4. White WISA-Multiwall has been used for van conversions and for kitchen units in an eco-home development.



1 & 2. White melamine birch plywood can be CNC machined and is used for a range of furniture and joinery items.

3 & 4. Pre-primed birch plywood, ideal for painting.

WHITE MELAMINE FACED BIRCH PLYWOOD

Product	European Birch plywood overlaid with a white melamine laminate on both sides. Edges sealed white.
Surface	Smooth white melamine – no texture!
Applications	Kitchen units, furniture, shelving, play and sports equipment, wall lining, shopfitting and POS, trailers.
Thicknesses	12mm, 18mm and 24mm
Size	Stock 1220 x 2440 and 1220 x 2745. Other sizes are available on request.

PRE-PRIMED BIRCH PLYWOOD

Product	Designed to give an excellent paint finish, this material is faced with a special paintable film on one side. Edges are sealed and the plywood is fully exterior bonded.
Surface Coating	Grey primed overlay ensures a smooth base for painting.
Reverse	Smooth dark brown phenolic film.
Applications	Playground equipment, sign boards, sports equipment, wall panels, narrowboats, and hoardings.
Thicknesses	9, 12, and 18mm, other thicknesses available on request.
Size	Stock 1220 x 2440 and 1525 x 3050mm, other sizes available on request.



Photograph courtesy of Creative Play UK Ltd



Hexagonal pattern boards are widely used for playground equipment, narrowboat decking and flight cases

BUFFALO® HEKSA PLUS / WISA-HEXA GRIP - HEXAGONAL PATTERN PHENOLIC PLYWOOD

Product	Heksa Plus and WISA-Hexa Grip
Surface	Hexagonal pattern face. Edges sealed.
Reverse	Smooth phenolic film
Thickness	6.5mm, 9mm 12mm, 15mm, 18mm and 24mm
Sizes	1220 x 2440 / 2500mm and 1525 x 3050mm
Colours	Dark Brown, Grey, Black and also in Blue
Applications	Play equipment, climbing walls, flight cases, stages and steps, grandstands, podiums, van and trailer flooring, industrial shelving, exhibition trailers, and narrowboat decking.
Properties	Tough, yet decorative appearance suitable for a wide range of demanding applications. Easily worked and CNC machined and also has good wear and chemical resistance and is easy to clean with water and detergent.

BEAR TEX / WISA-WIRE - MESH FACED BIRCH PLYWOOD FOR DECKING AND SCAFFOLD PLATFORMS

Product	Birch throughout plywood faced one side with a dark brown mesh pattern film face, smooth phenolic reverse. Edges sealed.
Surface	Dark brown mesh pattern
Thickness	6mm, 9mm, 12mm, 15mm, 18mm, 21mm 24mm
Sizes	1220 x 2440mm and 1220 x 2500mm
Applications	Van and trailer floors, decking, walkways, platforms, stages and scaffold decking.

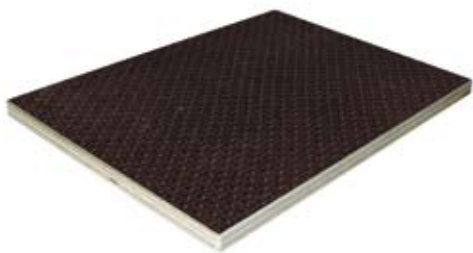


WISA-Wire F - Class 1, Surface Spread of Flame – is also available to order and can be used for a wide range of applications such as grandstands, tiered seating, train and carriage floors and other applications which require an enhanced fire rating.

*Please enquire for details
01442 849009*



Buffalo® Board used on climbing tower.
Photo courtesy of Vid Blakeney.



Photograph of visitors at the 'Vintage at Goodwood' festival in 2010, where the steps and ramps were constructed from ATP Buffalo® Board



Photo courtesy of Brian James Trailers



ATP Buffalo® Board has been specified for use in a wide range of applications including the ultra tough SupaCat military vehicles such as this 'Jackal' HMV vehicle

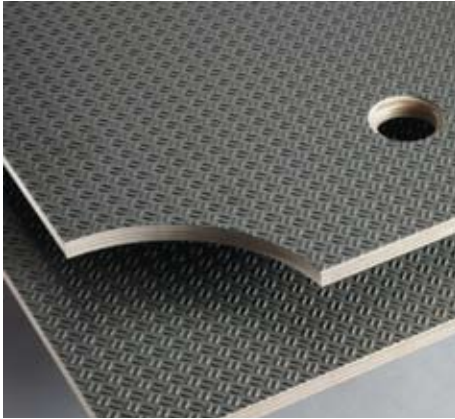
Buffalo® Board can also be used for play equipment, trailers, stages and is now one of the main decking boards utilised by vehicle manufacturers throughout the UK. Buffalo® Board also meets the relevant EN standards, is suitable for structural use and is procured from sustainable sources. Nearly all of our slip resistant panels are either FSC or PEFC certified & therefore suitable for government & council contracts.

ATP'S OWN BRANDED 'BUFFALO® BOARD'

Product	Buffalo® Board 220g/m ²
Surface	Large wire mesh pattern face. Edges sealed.
Reverse	Smooth dark brown phenolic film with Buffalo logo within film to authenticate the product
Thickness	6.5mm, 9mm, 12mm, 15mm, 18mm, 21mm, 24mm, 27mm and 30mm
Sizes	1220 x 2440 / 2500mm, 1250 x 2500, 1525 x 3050mm
Colours	Standard colour is Dark Brown. Also available to order in black, blue, grey, green and yellow – check availability
Applications	Vehicle flooring and decking, trailer floors, van conversions, steps, stages, podiums, ramps, platforms, play equipment, climbing walls, exhibition trailers, narrowboat decking.
Properties	Robust, slip-resistant birch plywood suitable for a wide range of demanding applications. Easily worked and CNC machined with the appropriate tooling. Also has good chemical and weather resistance and suitable for outdoor applications. Available from stock in a wide range of thicknesses and sizes.



Grey Multifloor used to line the locker of this impressive horsebox and also used for the van floor below



Polystar was used for the van lining in above photo

WISA-MULTIFLOOR. TOUGH, WEAR-RESISTANT BIRCH PLYWOOD FLOORING

Product	WISA-Multifloor
Surface	800g/m ² Thermoplastic polyolefin laminate with raised 'ripple' pattern (barley seed)
Reverse	Grey RAL 7001 Polypropylene laminate
Thickness	12mm, 18mm and 24mm
Sizes	1220 x 2500mm. Other sizes on request.
Colours	Grey (RAL 7010) and Black also available
Applications	Trailer flooring, horseboxes, van flooring and conversions, stages, play equipment, bulkheads, exhibition trailers, narrowboat decking and many others applications.
Properties	Tough, durable wear-resistant plywood for flooring and decking applications. Easy to clean with water and detergent, good chemical resistance and UV stable. Elastic, coating resists cracking and has no taint or odour. All edges are sealed.

POLYSTAR – LIGHTWEIGHT LINING PLYWOOD

Product	Far Eastern MR Plywood coated one side with a polyester coating
Reverse	Uncoated plywood (wood) surface
Thickness	3.6mm and 5.5mm
Sizes	2440 x 1220 mm
Colours	White and Grey
Applications	*Interior wall lining for vans, motorhomes caravans, narrowboats, containers, horseboxes, van conversions and furniture backs.
Properties	Economical, lightweight lining plywood for lining walls, doors and ceilings in vehicles and containers. Easy to wipe clean with a damp cloth.

Note* This product is only suitable for interior use.



TECHNICAL INFORMATION

FSC & PEFC CERTIFIED PLYWOOD

ATP have a comprehensive Chain of Custody system set up to ensure that the plywood we supply has been sourced from sustainable, well-managed European forests such as Finland, Russia, Latvia and Poland. Plywood that has been manufactured from certified, sustainably sourced material can be identified by the PEFC and FSC logos.

As concern for the environment gathers momentum, demand for timber based products from certified sources is becoming the norm, and many local authorities and corporate establishments will only purchase timber items bearing the distinct logos above. At ATP and James Latham we hold a comprehensive range of certified birch and softwood plywood in stock and provide all the necessary documentation to confirm the origin of the goods, and to ensure transparency throughout the whole process.



CE PLYWOOD CONSTRUCTION, BOND QUALITY AND CE MARKING

All ATP birch plywood is constructed from 1.4mm birch veneers bonded with thermosetting phenolic resins (formerly known as 'WBP bonded') and the following standards apply as regards the bond quality:-

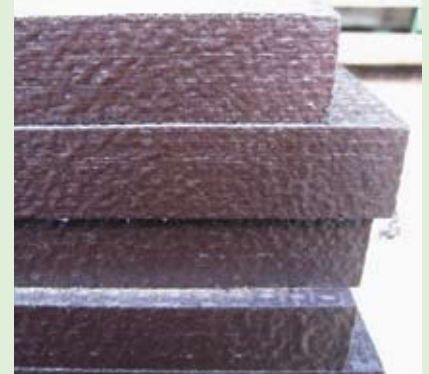
BS EN 314-2: 1993 Class 3. Bonding Quality. EN 636-3 Plywood for use in exterior conditions *Provided sawn edges are re-sealed properly – see below.

CE marking to EN 13986: Relates to plywood which is used in construction as part of a building, e.g. flooring, walls or roofing. **ATP birch plywood** is CE Structural and suitable for load bearing applications such as flooring and working platforms. Tabulated strength data is available on request, plus further information can be found in BS 5628: Part 2 - The Structural Use of Timber. 2002 and in The Finnish and Latvian Plywood Handbooks – electronic copies of these are available on request. This type of information is required when designing / using plywood for any structural applications.

OVERLAID PLYWOOD AND EDGE SEALING

ATP overlaid birch plywood can be used for exterior applications as the baseboard is protected by a phenolic film or polypropylene laminate which provides a moisture resistant barrier. All the edges of the plywood are sealed at the mill with acrylic resin paint - the paint colour normally matches the face colour.

If boards are cut or machined on site then the edges must be re-sealed with 2 or 3 coats of a suitable exterior quality paint, for example Acrylic or PU type paints can be used. Removing the sharp arris and rounding the edges can help to improve paint adhesion, and edge sealing is essential in order to achieve the desired service life.



For dark brown phenolic film faced boards such as buffalo® board, the edge sealing paint is a similar colour and a close match colour-wise is RAL 8017.

This colour code can be specified if large quantities of paint are required for re-sealing.



VERSATILE ATP BIRCH PLYWOOD

Although Birch Plywood has been around for over a century it is still the ultimate 'contemporary' design material - as seen above, where it was used to create a unique 'Centenary Bar' at The University of Sheffield's School of Architecture. Another interesting design project, used phenolic film faced birch plywood for a bespoke DJ console and seating area for the students' bar (theme going on here!) at the Royal College of Art in London.

Both designs successfully encapsulate the versatility and simple beauty of birch plywood. High quality European Birch plywood was CNC machined to create the landscape 'contour effect' in the Sheffield bar. Phenolic film faced birch together with white high-gloss HPL bonded to birch plywood was used at the RCA. With birch plywood virtually anything is possible and many innovative designs and installations have been created using our plywood as can be seen in the range of photographs in this brochure.

If you need quality birch plywood or CNC machined components then please contact us.

For samples, brochures or technical information please call ATP in Ossett on **01924 263655** or our Southern area office / technical dept in Hemel Hempstead on **01442 849009**. Alternatively email us at: atp@lathams.co.uk. www.advancedtechnicalpanels.co.uk

Other Plywood products available from ATP include :-

- CNC Machining and drilling
- Bullet Resistant Plywood - For security installations
- B15 Densified Beech Plywood - jigs / racing car components
- Uncoated S+/BB or B/BB Birch plywood - for furniture / interior design / shopfitting
- Metal faced plywood, aluminium, stainless steel, made to order.



Another innovative use for phenolic film faced birch – used to create a bespoke DJ console and seating area in the students' bar at the Royal College of Art in London.
Photo courtesy of Markus Bergström

Advanced Technical Panels would like to thank the following for enabling us to use their photographs and information in the production this brochure:-
Andrew Ashworth, Creative Play (UK) Ltd, Highbury Horseboxes, Ben & Oscar Wilson, University of Sheffield, Markus Bergström, Tim Greany, Vid Blakeney, UPM-Kymmene, Latvijas Finieris, Amdro, A & E Leisure, Richardson Trailers, Losberger UK Ltd, Smartfix UK Ltd, SIS UK Ltd, for PlayFootball/Powerleague. Brian James Trailers Ltd. SupaCat Ltd

Details given represent a fair description of the products and are given without liability. Availability and sizes are subject to confirmation at the time of order.



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 Hemel Hempstead Office: 01442 849009
 Email: atp@lathams.co.uk
www.advancedtechnicalpanels.co.uk

Speciality Plywood you can count on...

UK locations for James Latham Branches

www.lathamtimber.co.uk

Marketing

Tel: 0116 257 3415 or 0116 257 3417
 Email: marketing@lathams.co.uk

Panel & Timber Products

1 Dudley

Unit 3, Yorks Park, Blowers Green Road
 Dudley, West Midlands DY2 8UL
 Tel 01384 234444
 Fax 01384 233121
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2 Fareham

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 Fax 01329 849585
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5 James Latham Scotland

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 Fax 01698 831452
 Email: scotland@lathams.co.uk

6 Wigston

Chartwell Drive off West Avenue
 Wigston, Leicester LE18 2FN
 Tel 0116 288 9161
 Fax 0116 281 3806
 Email: panels.wigston@lathams.co.uk
 Email: timber.wigston@lathams.co.uk

7 Yate

Badminton Road Trading Estate
 Yate, Bristol BS37 5JX
 Tel 01454 315421
 Fax 01454 323488
 Email: panels.yate@lathams.co.uk
 Email: timber.yate@lathams.co.uk

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8 Hemel Hempstead

Unit 2 Swallow Park, Finway Road
 Hemel Hempstead, Herts HP2 7QU
 Tel 01442 849000
 Fax 01442 239287
 Email: panels.hemel@lathams.co.uk

9 Thurrock

Unit 4, Dolphin Way, Purfleet
 Essex RM19 1NZ
 Tel 01708 869800
 Fax 01708 860900
 Email: panels.thurrock@lathams.co.uk

Timber Products

10 Purfleet*

Units 22/24, Purfleet Industrial Park
 Juliette Way, Aveley, South Ockendon
 Essex RM15 4YD
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Speciality Panels

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* Purfleet serves timber customers across the Thurrock, Hemel Hempstead and part of the Fareham panels sales areas