

ADVANCED TECHNICAL PANELS

Technical plywood for furniture, shopfitting, design and construction, sports, play and leisure equipment, grandstands, stages, decking and other outdoor applications...



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ADVANCED TECHNICAL PANELS

Advanced Technical Panels are the UK's leading specialist plywood distributors

Advanced Technical Panels (ATP) supplies a comprehensive range of pre-finished/overlaid panels for commercial vehicle building, playgrounds/sports, access platforms, construction and flight cases.

Sourced mainly from Europe, our truly independent range includes specially engineered phenolic faced birch flooring panels, standard mesh boards, polypropylene faced, hexagonal patterns and our own FSC certified Buffalo® Board now identified by the logo on the reverse.



Buffalo® Board

In early 2009 ATP celebrated the successful entry of its Buffalo Board logo in the UK Register of Trade Marks. Following this achievement, ATP registered Buffalo® in its own right and now offers its customers a wide range of products that stand for quality under the trusted brand of Buffalo®.

The Buffalo® collection includes a wide range of FSC products including Buffalo® Trans, Buffalo® Heksa, Buffalo® Melamine and new Buffalo® Heksa Blue, which has a UV stable face with a hexagonal pattern surface coating and is ideal for use in playgrounds and as flooring in vans. There are plans to further expand the range in the near future.

ATP's branded Buffalo® panel range provides quality products for a wide range of industries and projects including commercial vehicles, trailers, vehicle floors and access platforms.

For a copy of our ATP brochure, please call the sales office on 01924 263655 (Ossett) or the Southern area office/technical department on 01442 849009 (Hemel Hempstead) or email atp@lathams.co.uk



ARCHITECTS, DESIGNERS AND FABRICATORS

At ATP we work closely with architects, designers and fabricators. With our wealth of technical expertise and our range of products, particularly birch-based plywood which is second to none, we are happy to help with specifications in order to ensure the right product is supplied for the job.

SPECIALITY PLYWOODS FIRE THE IMAGINATION

Red Futura Birch plywood has been innovatively used to create an impressive office interior at the Bankside Gallery in London, whilst Romb Heavy phenolic birch plywood has been used to give a more industrial edge to a contemporary storage system. (Both installations by Indika Perera)



*Evo Nort Architects.
Photograph by Janie Airey.*

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DESIGNING WITH BIRCH PLYWOOD



Although birch plywood has been around for well over a century it is still the ultimate 'contemporary' design material.

University of Sheffield's School of Architecture students Lukas Barry and Patrick Skingley's winning design for a Centenary Bar successfully encapsulates the versatility and simple beauty of birch plywood. Grade S/BB European Birch plywood was CNC machined to create the landscape contour effect and WISA-Hexagrip birch plywood was used for the floor.



Phil Lardner produced units for The Royal College of Art, using birch plywood bonded with bright spangled galvanised steel.

(Note: metal faced birch plywood is made to order!)



Some of the recent projects for which ATP has supplied coated birch plywood include:

- 1. Kingsdale School
- 2. MK Forty Tower

Images courtesy of dRMM Architects

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FUTURA PPL



Product	Finnish Birch plywood overlaid with a coloured polypropylene laminate both sides, or coloured face and grey-white reverse. Edges sealed.
Surface	Slight texture, taint and odour free, UV stable overlay.
Applications	Rebound boards and sports fencing, playground equipment, furniture, offices, cladding, flightcases, kitchen units, horse trailers, wall lining.
Thicknesses	6.5mm, 9mm, 12mm and 18mm. Other thicknesses available on request up to 30mm.
Sizes	Stock 1220 x 2440. Other sizes available on request. 18mm 1525 x 3050 in green also available from stock.
Colours	Blue - RAL 5003, Green - RAL 6005



1. Horse trailers made with Futura plywood. (Richardson Trailers)
2. CNC machined furniture in blue Futura. (Amdro)
3. Rebound boards made from green Futura. Suitable for inside or outside use. (SIS UK Ltd)
4. Adventure playground equipment constructed using brightly coloured Futura panels. (A&E Leisure)

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PRE-PRIMED BIRCH PLYWOOD FOR PAINTING



Product	Designed to give an excellent paint finish, this material is faced with a special paintable film which has been primed. The edges are sealed and the plywood is fully exterior bonded.
Surface Coating	The impregnated primed overlay ensures a smooth base for painting.
Reverse	Smooth dark brown phenolic film.
Applications	Playground equipment, sign boards, sports equipment, wall panels and narrowboats.
Thicknesses	9mm, 12mm and 18mm. Other thicknesses available on request.
Sizes	Stock 1220 x 2440 and 1525 x 3050mm. Other sizes available on request, please check for availability.



BUFFALO® MELAMINE FACED BIRCH PLYWOOD



Product	Birch plywood overlaid with a white Buffalo® Mel laminate one or both sides. Edges sealed.
Surface	Smooth white melamine or phenolic film reverse.
Applications	Kitchen units, furniture, play and sports equipment, internal wall lining, vehicle doors and trailers.
Thicknesses	12mm, 18mm and 24mm. Other thicknesses available on request.
Sizes	Stock 1220 x 2440 and 1220 x 2745. Other sizes available on request.



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WISA MULTIWALL



Product	Finnish Birch plywood overlaid with a tough polypropylene coating.
Overlay	Polypropylene coating both sides. Edges Sealed.
Surface	Decorative, slightly embossed. Easy to clean with water and detergent. No taint or odour.
Applications	Kitchens, trailers, horseboxes, sports equipment, van linings, furniture, sports halls and shopfitting.
Thicknesses	4mm, 6.5mm, 9mm, 12mm and 18mm. Other thicknesses available on request.
Sizes	Stock 1220 x 2440, and 4mm in 1525 x 3050mm. Other sizes available on request.
Colours	White - RAL 9010, Black - RAL 9005, Grey - RAL 7001, Green - RAL 6005, Yellow - RAL 1018, Blue - RAL 5003, Red - RAL 3002. Check availability on colour range

Bespoke kitchen units manufactured with white Wisa Multiwall, used in an eco-home development.



BUFFALO® HEKSA PLUS

Hexagonal Pattern Flooring

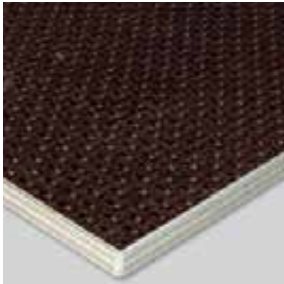


Product	Birch throughout plywood faced one side with a hexagonal textured phenolic coating, with a smooth film reverse. Edges sealed.
Surface Coating	Hexagonal pattern - various overlays available, eg Wisa Hexa Grip.
Taber Value	500 to 700
Applications	Playground equipment, narrowboat flooring, trailer floors, decking, flight cases, stages, van floors, walkways and spectator grandstands.
Thicknesses	6.5 mm, 9mm, 12mm, 15mm, 18mm, 21mm and 24mm.
Sizes	Stock 1220 x 2440, 1220 x 2500 and 1525 x 3050.
Colours	Standard colour dark brown. Also available in black and grey. Grey/black in 9mm and 12mm ex stock. Now available in blue!

Tried and tested and widely used for narrowboat flooring.

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BUFFALO® BOARD



Product	Birch throughout plywood faced one side with a 220g/m ² dark brown mesh pattern and smooth film reverse, which has the Buffalo® logo imprinted into the film. Edges sealed brown.
Taber Value	700 revolutions.
Applications	Playground equipment, scaffolding, narrowboat decking, vehicle flooring, trailers, grandstands, stages, walkways, platforms and other applications requiring a tough slip-resistant panel.
Thicknesses	9mm, 12mm, 15mm, 18mm, 21mm, 24mm, 27mm and 30mm.
Sizes	Stock 1220 x 2440, 1220 x 2500 and 1525 x 3050. Other sizes available on request. Can also be cut and CNC machined.
Options	Also available in grey and green to order.



Tough, weather-resistant, slip-resistant Buffalo® Board has been used for this grandstand floor.

BUFFALO® BOARD 6K

Wear Resistant Overlay



Product	As Buffalo® Board, but with additional wear resistant overlay. Edges are sealed with reddish brown paint.
Taber Value	6000 revolutions approx. The higher the value the more wear resistant it is!
Applications	Slip-resistant flooring, lorry decks, loading platforms, mezzanine floors, walkways, grandstands and many other applications requiring good wear properties
Thicknesses	15mm, 18mm, 21mm and 24mm, up to 30mm available on request.
Sizes	Stock 1220 x 2500. Other sizes available on request.
Properties	A tough, wear-resistant plywood for all demanding load-bearing flooring applications. Good strength to weight ratio and suitable for structural and external use.



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BEAR TEX PLYWOOD

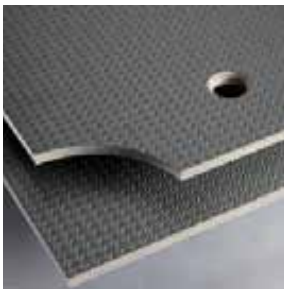
Wire Mesh Pattern for Flooring/Decking



Product	Birch throughout plywood faced one side with a dark brown mesh pattern phenolic film face, smooth phenol reverse. Edges sealed.
Surface Coating	120g/m ² or 220g/m ²
Applications	Van lining and floors, trailer flooring, decking, walkways, platforms, stages and scaffold decking.
Thicknesses	6mm, 9mm, 12mm, 15mm, 18mm, 21mm, 24mm and 27mm.
Sizes	Stock 1220 x 2440, 1250 x 2500 and 1220 x 2500.
Colours	Dark brown.
Note	Bear Tex is an economical solution for scaffold decks, van floors, lorry decks and other flooring applications.



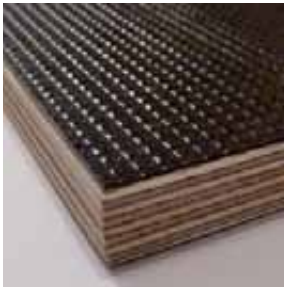
WISA MULTIFLOOR



Product	Finnish birch plywood with a tough thermoplastic slip-resistant overlay.
Surface Coating	800g/m ² Textured slip-resistant surface, (ripple) barley seed pattern. Edges sealed.
Taber Value	5000 cycles DIN 53799
Applications	Playground equipment, decking, stages, van floors, narrowboats, trailer flooring, platforms and other applications needing good wear resistance.
Thicknesses	9mm, 12mm and 18mm. Other thicknesses on request up to 24mm.
Sizes	1220 x 2440/2500.
Colours	Standard colours black or grey .

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BUFFALO® TRANS



Product	Birch throughout plywood with a tough phenolic overlay to improve surface wear. Exterior bonded. Edges sealed.
Surface Coating	Extra wear resistant film. Square Pattern.
Taber Value	5400 revolutions approx. Very high wear-resistance compared to standard phenolic films.
Applications	Trailer and vehicle flooring, particularly where high load bearing is likely to occur. Loading platforms, warehouse flooring, workbenches and mezzanine floors.
Thicknesses	18mm, 21mm, 24mm and 27mm.
Sizes	1220 x 2500. Other sizes available on request.
Colours	Dark brown.



SMOOTH PHENOLIC FILM FACED BIRCH PLYWOOD



Product	Birch plywood overlaid with a smooth phenolic film on both sides.
Edge Sealing	Edges sealed with acrylic paint.
Applications	Interior wall panels, interior design, furniture, banqueting tables, interior rebound boards and sports fencing, pitch dividers, trailer sides, flight cases, racing car components and formwork.
Thicknesses	6.5mm, 9mm, 12mm and 18mm. Other thicknesses available on request.
Sizes	1220 x 2440 and 18mm 1525 x 3050. Other sizes available on request.
Colours	Dark brown, light brown, clear and green.
Machining	CNC machined panels/cut-to-size also available.
Note	Although phenolic film faced plywood is widely used for external purposes, it may fade/change colour over time when exposed to strong sunlight and the elements. This should be taken into account when specifying for aesthetic or decorative exterior uses.

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DIAMOND PATTERN PHENOLIC FILM FACED BIRCH PLYWOOD

For Flight Cases



Product	Black diamond pattern face, smooth reverse.
Applications	Flight cases.
Thicknesses	9mm and 12mm. Other thicknesses available on request.
Sizes	1220 x 2440. Other sizes available on request.
Colours	Black diamond pattern.

CNC MACHINED AND CUT-TO-SIZE PANELS

We can also supply ready to install, cut-to-size, CNC machined panels for playground equipment, furniture, packaging, shelving and racing car components.

The blue Futura panels shown in the photograph were CNC machined in the UK to the customer's CAD drawings. CNC machining is very accurate and means that all panels are identical, which helps to save time and money, especially where multiple components or intricate detailing is required.

ATP also offers a standard cutting service on all birch plywood.



Blue Futura. (Amdro)



CNC machine. (Wup Doodle)

ENVIRONMENTAL INFORMATION



When you specify plywood, do you ever ask where it has been sourced from? Here at ATP we have a comprehensive Chain of Custody system set up to ensure that the plywood we supply has been legally sourced from sustainable, well-managed European forests in Finland, Poland and Latvia, for example.

Plywood which has been manufactured from sustainable sourced material can be identified by the PEFC or FSC logo and both of these certification schemes carefully monitor where timber-based raw material is sourced from, to ensure that the timber utilised has been obtained from legal, well-managed forests, plantations or even recycled material.



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TECHNICAL INFORMATION

Plywood construction and bond quality

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

BS EN 314-2: 1993 Class 3. Bonding quality. (*Suitable for external use*)

DIN 68705: 3 BFU 100 (*German standard*)

EN 636-3 Plywood for use in exterior conditions (*provided any cut/sawn edges are re-sealed properly*)

Edge sealing

ATP overlaid birch plywood can be used externally as the birch baseboard is protected by a phenolic film or polypropylene laminate, which provides a moisture resistant barrier, unlike uncoated plywoods.

All the edges of the plywood are sealed at the mill with acrylic resin paint. If boards are cut or machined on site, then the edges must be re-sealed with at least 2 to 3 coats of a suitable exterior quality paint, for example acrylic, PU or epoxy type paints. Note: Removing sharp arrises/rounding edges may help to improve paint adhesion.

CE marking to EN 13986 relates to plywood which is used as part of a building, eg flooring, walls or roofing. ATP birch plywood is CE Structural and suitable for load bearing applications such as roofing, flooring and working platforms, and tabulated strength data is available on request, and data for Finnish birch plywood can be found in BS 5628 Part 2 – The Structural Use of Timber, and in the Finnish Handbook of Plywood. This type of information is required when designing/using plywood for structural applications. Always check that the plywood you specify for load bearing applications is rated as CE Structural or is listed in BS 5628 Part 2:2002.

OTHER PLYWOOD PRODUCTS

Other plywood products available from ATP include:

- Wisa-wire 'F' – Class 1 fire rated panel for flooring applications
- Bullet Resistant Plywood – for all security installations
- B15 Densified Beech Plywood – for patterns, jigs and race car components
- Primed Aluminium/white Futura reverse
- Maxi size plywood where large 1-piece panels are required
- Worktops and Bench Tops – in solid beech or birch plywood
- Polystar, white/grey polyester coated plywood – for furniture backs/lining (interior use only)
- Uncoated S/BB or B/BB Birch Plywood – for furniture, interior design and shopfitting
- Metal faced Plywood, Aluminium, Stainless Steel and Galvanised – made to order

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Koskisen OY

Amdro

Wup Doodle

A&E Leisure

dRMM Architects

Phil Lardner

Richardson Trailers

Indika Perera

Evo Nort Architects

SIS UK Ltd for PlayFootball/Powerleague

For samples, brochures, technical information or advice and prices, please call the ATP office in Ossett on **01924 263655**, or our Southern area office/technical department in Hemel Hempstead on **01442 849009**. Alternatively email us at atp@lathams.co.uk.

www.advancedtechnicalpanels.co.uk

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