

H COLLECTION

Sustainable and technically approved
wood panel solutions for all applications



H PERFORMANCE
Plywood®

H SP101
Flooring Plywood®

H POPLAR PLYWOOD
PANGUANETA

H BIRCH
Plywood

H IDL
Plywood™

H FIRE RETARDANT
Panels



H PERFORMANCE Plywood®

Optimum performance classification and fully compliant for multiple applications which require internal and external use. As with all exterior products we would recommend further treatment before use.

BS EN 636 Use Class 3 S, BS EN 314-2 Class 3 Exterior Glue

Applications: construction, roofing, flooring, wall panelling, joinery, portable buildings, vehicle body building and all applications which demand full compliance with exterior classification standards



H SP101 Flooring Plywood®

Manufactured with specific attention to accurate dimensional tolerances and surface quality.

Fully compliant with BS 8203:2017 Plywood Annex A

To find out more you can visit www.sp101.co.uk

Applications: flooring underlay, laminating, veneering, joinery, furniture, shop & bar fitting



H POPLAR PLYWOOD

PANGUANETA
PLYWOOD FOR LIFE

A unique range of the very highest quality poplar plywood.

Sustainable, lightweight, and extremely versatile for applications across many industries.

A No Added Formaldehyde (NAF) variant of this product is available.

Photo by: Ana Galloway

Applications: caravans, motorhomes, leisure vehicles, laminating, veneering, furniture, shop & bar fitting, exhibitions, scenery & staging, general joinery



Helping architects and specifiers to make the correct choices

The quality of plywood available on the market can vary significantly, making it challenging for specifiers to choose high-quality plywood that meets both the intended use and performance criteria.

This guide details specialist panels which have stringent environmental and technical characteristics which meet all relevant industry standards.

A comprehensive specification guidance service is provided to ensure the plywood product selected fully meets the requirements of the intended application.

1 - Dry

Typical Applications

Internal joinery, flooring underlay, pipe boxing, doors, hatches, weight saving applications etc

Applicable Standards and Regulations:

- CPR - Construction Product Regulation 2013
- BS EN 13986:2004+A1:2015 – Wood-based panels for use in construction (CE/UKCA Marked)
- BS EN 636:2012 (Class 1)
- BS EN 314-2 Plywood bond quality (Class 1)
- BS EN 335 - Durability of wood and wood-based panel products (Use Class 1)



2- Humid

Typical Applications

Floors, flooring underlay, walls, roofs, roof decking, linings, hoardings, protection etc

Applicable Standards and Regulations:

- CPR - Construction Product Regulation 2013
- BS EN 13986:2004+A1:2015 – Wood-based panels for use in construction (CE/UKCA Marked)
- BS EN 636:2012 (Class 2)
- BS EN 314-2 Plywood bond quality (Class 2)
- BS EN 335 – Durability of wood and wood-based panel products (Use Class 2)



3- Exterior

Typical Applications

Floors, walls, roof decking, soffits, linings, signs etc

Applicable Standards and Regulations:

- CPR - Construction Product Regulation 2013
- BS EN 13986:2004+A1:2015 – Wood-based panels for use in construction (CE/UKCA Marked)
- BS EN 636:2012 (Class 3)
- BS EN 314-2 Plywood bond quality (Class 3)
- BS EN 335 – Durability of wood and wood-based panel products (Use Class 3)



BIRCH Plywood



Applications: construction, roofing, flooring, wall panelling, shop & bar fitting, furniture, pattern making, vehicle body building, laminating, veneering, musical instruments, laser cutting, toy & model making, engineering

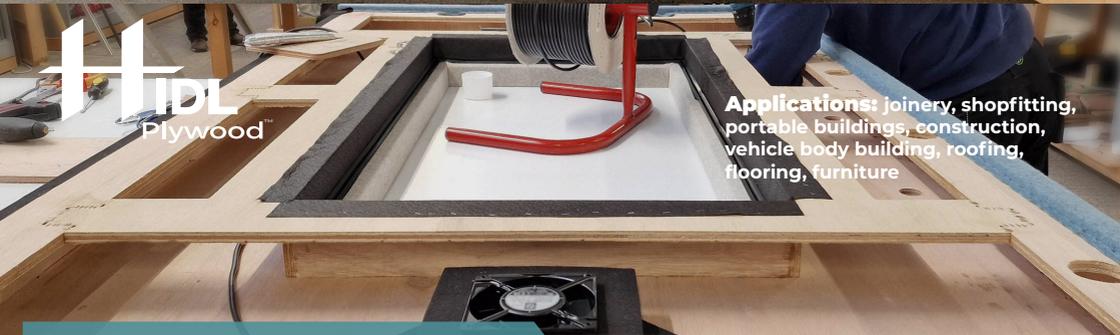
An extensive range of birch plywood carrying specific technical information including loading/bending strength data.

Thickness range 3mm up to 50mm

Special thin panel range (0.4mm 0 6.0mm)



IDL Plywood™



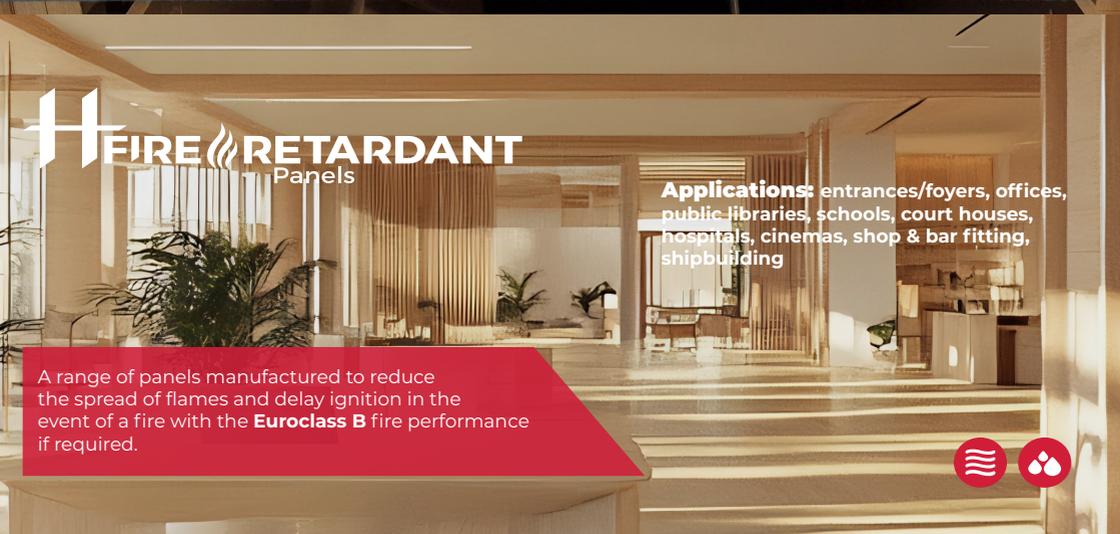
Applications: joinery, shopfitting, portable buildings, construction, vehicle body building, roofing, flooring, furniture

A well constructed, multi-use panel, suitable for a wide range of industries.

Photo by: AgileAcoustics



FIRE RETARDANT Panels



Applications: entrances/foyers, offices, public libraries, schools, court houses, hospitals, cinemas, shop & bar fitting, shipbuilding

A range of panels manufactured to reduce the spread of flames and delay ignition in the event of a fire with the **Euroclass B** fire performance if required.



Design & Technical Information

BS EN 636:2012+A1:2015 Plywood-Specifications

The most recent edition of BS EN 636 retains the designations -1, -2 and -3 from the previous three part standard to represent dry, humid or exterior conditions of use.

These conditions are defined according to the parameters laid down for Use Classes in BS EN 335 'Durability of wood and wood-based products - Use classes: definitions applicable to solid wood and wood products.'

BS EN 636 also introduces bending strength and modulus classes based on bending tests to BS EN 310.

These designate strength (F) and modulus (E) parallel and perpendicular to the face grain. An example designation would therefore be F10/20.

BS EN 636 provides minimum values for each of the classes and BS EN 12369-2 gives corresponding characteristic values for use with each of these classes.

In addition to strength and use condition classifications, BS EN 636 also distinguishes between panels intended for structural and non-structural use.

These are denoted by the letters S (Structural) and NS (Non-Structural), respectively. For example, a panel marked BS EN 636-2 S is suitable for humid conditions and structural (load-bearing) applications, while BS EN 636-3 NS would be appropriate for exterior use in non-structural (non-load-bearing) situations, such as interior wall linings or decorative cladding.

Plywood for use in construction must demonstrate compliance with the Construction Products Regulation (CPR). The most straightforward route to achieving this is by demonstrating compliance with BS EN 13986, which also involves the application of a CE or UKCA mark.

The properties required of panels in BS EN 636 are shown in the table below:

Property	Application	Standard	1-Dry	2-Humid	3-Exterior
			20°C with R/H 65% interior applications no risk of wetting	20°C with R/H 85% protected exterior applications or humid environments	Moisture content higher than 20% unprotected exterior applications
Bonding Quality	-	BS EN 314-2	Bonding Class 1	Bonding Class 2	Bonding Class 3
Durability	-	BS EN 335	Use Class 1	Use Class 2	Use Class 3
Mechanical Properties	Structural ♦ Characteristic Values ♦ Bending Strength	BS EN 636/ BS EN 310 BS EN 12369-2 or BS EN 789/BS EN 1058	✓	✓	✓
	Non Structural ♦ Bending Strength	BS EN 310	✓	✓	✓
Formaldehyde Class*	-	BS EN 13986, BS EN 717-1, BS EN 717-2	E1	E1	E1
Dimensional Tolerance	-	BS EN 315	✓	✓	✓

*All Timber Development UK (TDUK) members adhering to the TDUK Code of Conduct - Panel Products Code of Practice must trade in products that meet E1 Classification. Formaldehyde emissions higher than E1 are not acceptable.

This table is designed for guidance only and all specific performance requirements for particular projects should be cross checked in detail.

Key considerations for specifying products from our plywood range

- Consider the performance required of the component and duration of service life.
- Determine the Use Class of the situation in which the wood-component will be used and the biological agencies that threaten it.
- Assess whether the durability of the plywood to be used is sufficient. If not, select for the component a more durable type of panel or choose another solution such as design or preservative protection.
- The specification and application of plywood for Use Class 3 should take into account the importance of sealing the edges of panels in order to achieve optimum levels of performance.
- Where a project has specific requirements in terms of face grade, grain and colour please contact us directly to discuss details.



Our showroom is a virtual platform which is intended to be ideal for Architects, Designers & Specifiers to view a range of the products and services we offer, along with accompanying technical data/information



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