



COLLECTION

Plywood: The Specifier's Guide

A clear and concise reference for all applications.



H PERFORMANCE

Plywood®

The logical and reliable alternative to general commercial **Marine Plywood** offering full classification and performance in all conditions, **EN 636 Use Class 3, EN 314-2 Class 3 Exterior Glue**. (Please refer to our specification page for further information on glue bond and service classes within the harmonised standard EN 13896).

Applications - Construction, Roofing, Flooring, Wall Panelling, Joinery, Portable Buildings, Vehicle Body Building & all applications which demand full compliance with exterior classification standards.



HSP101

Flooring Plywood®

Manufactured with specific attention to accurate dimensional tolerances and surface quality. **Fully compliant with BS 8203:2017- Plywood Annex A.**

Applications - Flooring Underlay, Laminating, Veneering, Joinery, Furniture, Shop & Bar Fitting.

To find out more you can visit SP101.CO.UK




COLLECTION

Helping architects and specifiers to make the correct choices

Many architects are still in the habit of specifying Marine Plywood for construction applications in the belief that it is the correct material for the job.

We firmly consider this practice to be outdated and advise that all specifications should be satisfied with products that are fit for purpose taking into account the application and particular performance criteria required.

The  **COLLECTION** of plywood panels are very specific in their technical characteristics and meet all relevant industry standards.

All products are compliant with the Construction Products Regulation (CPR), are CE marked and carry a Declaration of Performance (DOP) in accordance with EN 13986.

Compliance with the European Union Timber Regulation ensures that the timber found in these products originates from legal and sustainable sources.

FSC® and PEFC™ Chain of Custody certification confirms that products are comprised of wood from managed forests that observe the balance of social, ecological and economical aspects of the environment and surrounding communities.

For full product details and further detailed technical information please call our office on **01422 330444** or visit our website **www.hanson-plywood.co.uk**

 **PERFORMANCE**
Plywood®

 **POPLAR PLYWOOD**
PANGUANETA Plywood

 **SP101**
Flooring Plywood®

 **BIRCH**
Plywood

riba
product
selector

nbsPlus

The collection of panels comply with all the latest industry technical and environmental standards, thus ensuring complete peace of mind for your specification. Our panels are listed on the RIBA Product Selector and NBS Plus as further aids to ensuring products can be specified using reliable sources of technical information.



A range of high grade birch plywood carrying very specific technical information including loading/bending strength data.

Thickness range 3mm up to 50mm.

Special thin panel range (0.4mm-6.0mm).

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.



Poplar/Ilomba construction giving significant weight saving and very high quality faces.

Fire Retardant (FR) and No Added Formaldehyde (NAF) variants of this product are also available.

Applications - Caravans, Motorhomes, Leisure Vehicles, Boat/Yacht Building, Laminating, Veneering, Furniture, Shop & Bar Fitting, Exhibitions, Scenery & Staging, General Joinery.

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.'

Dry conditions: for interior applications with no risk of wetting, defined in Use Class 1, with a moisture content corresponding to environmental conditions of 20°C and 65% relative humidity.

Humid conditions: for use in protected exterior applications as defined in Use Class 2, with a moisture content corresponding to environmental conditions of 20°C and 85% relative humidity.

Exterior conditions: for use in unprotected external applications, as defined in Use Class 3, where the moisture content will frequently be above 20%.

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

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

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









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 EN 13986, which also involves the application of a CE mark.

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

Property	Non-construction	Standard	Plywood Type to EN 636		
			Dry	Humid	Exterior
Dimensional Tolerance		EN315	✓	✓	✓
Bonding Quality		EN 314-2	Bonding Class 1	Bonding Class 2	Bonding Class 3
Mechanical Properties	Structural - characteristic values - bending strength	EN 636/EN 310/ EN 12369-1 or EN 789/EN 1058	✓	✓	✓
	Non structural - bending strength	EN 310	✓	✓	✓
Formaldehyde Emission*	Construction	EN 13986	E1 or E2	E1 or E2	E1 or E2
	Non-construction	EN 636/DD ENV 717-1/EN 717-2	E1 or E2	E1 or E2	E1 or E2

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

Quick Reference Guide - Plywood

Applicable Products	Typical Applications	Use Class (see definitions)	Applicable Standards	Minimum Requirement
 Performance Plywood®  Birch Plywood  SP101 Plywood®  Light Weight Plywood Far Eastern Type Plywood (Malaysian/Indonesian/Chinese)	Internal applications with minimal exposure to moisture All internal joinery, flooring underlay, pipe boxing, doors, hatches, weight saving applications etc.	1 - Dry	EN 13986 - Wood-based panels for use in construction	CE Marked
			EN 636:2012+A1:2015 Plywood-specifications	Class 1
			EN 314-2 - Plywood bond quality	Class 1
			EN 310 - Bending test	Refer to test data
 Performance Plywood®  Birch Plywood  SP101 Plywood® Far Eastern Type Plywood (Malaysian/Indonesian/Chinese) Softwood Constructional Plywood (Finnish Spruce, Elliotts Pine, etc)	Internal joinery with temporary exposure during construction Floors, flooring underlay, walls, roof decking, linings, hoardings, protection etc.	2 - Humid	EN 13986 - Wood-based panels for use in construction	CE Marked
			EN 636:2012+A1:2015 Plywood-specifications.	Class 2
			EN 314-2 - Plywood bond quality	Class 2
			EN 335 - Durability of wood and wood-based panel products	Class 2**
			EN 310 - Bending test	Refer to test data
 Performance Plywood® Marine Plywood BS1088 (Independently Verified)	All internal and external joinery which may be submitted to long term exposure to wetting/weather. Construction - Floors, walls, roof decking, soffits, linings, signs etc.	3 - Exterior	EN 13986 - Wood-based panels for use in construction	CE Marked
			EN 636:2012+A1:2015 Plywood-specifications.	Class 3
			EN 314-2 Plywood bond quality	Class 3
			EN 335 - Durability of wood and wood-based panel products	Class 3**
			EN 310 - Bending test	Refer to test data

Plywood for permanent use in construction must demonstrate compliance with the Construction Products Directive (CPD) via the use of CE Marking.

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

**Where durability cannot be confirmed, further treatment may be required to achieve satisfactory performance in these areas.

Please note, this table covers plywood products only. OSB, MDF and chipboard will be the best choice for certain applications.

Please contact us for expert technical advice relating to your particular project

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