



2021

- Plywood
- OSB
- MDF/HDF/Hardboard
- Chipboard
- Blockboard/Timber Panels/Door Blanks
- Flexible Panels
- Decorative Panels
- Fire Retardant Panels/Building Boards
- Panel Processing



About Us

Hanson Plywood Ltd offer services which are aligned to the individual requirements of a varied, diverse and ever-growing customer base. Our clientele ranges from general construction companies to high quality

furniture manufacturers and all the way back to architects working on their initial specification.

Our company ethos is to strive to advise and assist at all levels to ensure the technical requirements of all industries can be met.

An extensive range of panel products

Timbers used are sourced from sustainable forests around the world with an objective to promote the use of fully certified and fit for purpose products.

Environment

We are members of the Timber Trade Federation (TTF) and as such, we are signatories to the Responsible Purchasing Policy. The policy has provided a strong foundation for our robust Due Diligence System, which allows us to ensure that all products are at negligible risk of originating from illegal sources under the EU Timber Regulation (EUTR).

We are compliant with both FSC® and PEFC™ Chain of Custody schemes and are closely involved with Indonesian companies exporting FLEGT licensed goods to the EU. Our implementation of an Environmental Management System that meets the requirements of ISO 14001 enables us to reduce and mitigate risks of any potential adverse impacts to the environment that can be caused by the operation of our business.

Involvement in the TTF's Forests Forever board means that Hanson Plywood are at the forefront of environmental issues and are proactive in promoting sustainable sourcing throughout the UK timber industry.

We are acutely aware of our responsibility to ensure a balance between the economic environment and social aspects of our business.

Using the latest business management software and supporting technologies we have never had greater control and transparency throughout our supply chain.

Staff

Investment in the latest technology helps us to deliver the goods you require on time, within budget and to the correct specification for the job.

The sales team has a wealth of experience ensuring that the products we supply are the products you require. Our accounts, administration, transport and warehousing departments work seamlessly in support.



Assured Performance

Continual investment in our head office and warehouse facility ensures that quality of product and the best service will be guaranteed for many years to come.

The company currently operates using a quality management system certified to the latest ISO 9001 standard. This enables us to consistently challenge ourselves to evolve, improve and adapt our business to meet the demands and requirements of our customers.

Additional Services

We also offer services such as cutting, machining, laminating and veneering. By working closely with market leaders within these specialist industries, we can offer the best available product and service.



Using Our Guide

We endeavour to produce a comprehensive and easily usable reference document for buying and specification purposes. It is an illustration of the main product lines and items of stock available from our Halifax base.

Our range of products is continually being expanded, so if there is anything you require that is not listed in this catalogue, please contact our sales team who will be able to assist you with your specific requirements.

Prices listed are not our quoted selling rates, they are intended as an indication of the prices per sheet for the various products based on pack quantities.

Our experienced sales team are on hand to advise in greater detail on product specifications, suitability for purpose, technical enquiries and competitive pricing.

Applicable Standards

Look out for our applicable standards on each product category page. This provides a concise list of key standards relevant to the range of products in that section.

Please contact our sales team for more information.

Hanson
PLYWOOD LIMITED



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Product Utilisation and Specification Guidance

The company has carefully considered information and publications available from recognised industry sources to produce the concise detailing which we now present in The Plywood Specifier's Guide:
www.theplywoodspecifiersguide.co.uk

This interactive guide, in conjunction with the Quick Reference Guides throughout this document and on our website, all aim to simplify the specification of plywood and other wood-based panel products.

Hanson Plywood Ltd also recommend that customers refer to the Panel Guide as a fully comprehensive and detailed document which covers all wood-based panel products.

The fourth edition was updated in 2015 to reflect changes under the Construction Products Regulation. A copy of this document is available to download via our website:
www.hanson-plywood.co.uk/media

Construction Products Regulation



The Construction Products Regulation (CPR) has been in force since 1st July 2013.

From this date, all wood-based products covered by a harmonised European Standard will be required to declare their performance characteristics via CE marking in order to be placed on the UK and EU construction products markets.

In the case of wood-based panel products, 'BS EN 13986:2004 wood-based panels for use in construction' refers.

To reflect the new CPR, section 7 of UK Building Regulations has also been amended to adopt CE marking as the primary route to demonstrate that products are fit for purpose in UK construction.

Products within the scope of the CPR can be identified via marks on the products and/or the delivery notes. Full CE marking information along with Declarations of Performance are available on request from our sales team.

Under the Construction Products Regulation we request and store Declarations of Performance on all stocked products.

Our staff are trained and knowledgeable about the regulation and can assist with all queries relating to product performance.

Introducing NBS Source

Backed by the RIBA, NBS Source is the new digital platform that integrates RIBA Product Selector, NBS Bim Library and NBS Plus providing a unified source of high quality, enhanced, manufacturer product data that will integrate seamlessly into your specification. source.thenbs.com

Hanson Plywood has a range of high-quality plywood products listed within NBS Source that provides specifiers with all the tools and digital information needed to find, select and specify the correct product to meet project requirements.

www.hanson-plywood.co.uk
www.theplywoodspecifiersguide.co.uk

RIBA CPD

Hanson Plywood is proud to form part of the Approved RIBA CPD Providers Network offering a unique and informative CPD entitled: Plywood: A Definitive Guide To Specification.

Please contact us for more information on 01422 330 444



Product Utilisation and Specification Guidance

Companies that import wood products from outside of the EU have a responsibility for ensuring their legality under the EU Timber Regulation (EUTR) No 995/2010.

Hanson Plywood Ltd are fully committed to this legislation and a robust Due Diligence System is in place to best ensure that we only source products from legal and sustainable sources.

This system is audited annually by both the Timber Trade Federation (TTF) and Soil Association to guarantee that our risk assessment methods and processes remain up-to-date and effective.

As an 'Operator' all purchases from outside of the EU are subjected to a thorough risk assessment process.

As a 'Trader' records of purchases including origin, timber species and country of harvest are requested from supplier as part of our standard purchasing approval process.









We are currently aware of plans to introduce the UK Timber Regulation (UKTR) on 1st January 2021 following Brexit. This would mean that EU (or non-UK) purchases would also be subjected to due diligence. We have adapted our Due Diligence System to meet these additional requirements.

Hanson Plywood's Due Diligence System uses the Timber Trade Federation's Responsible Purchasing Policy as its foundation. As members of the TTF we have had in place a Due Diligence System since 2007. It has since been developed into a framework to assist with EUTR compliance, enabling us to ensure that all of our products are sourced from legal and sustainable forests.

Connect with us on social media

Just search 'Hanson Plywood' or look at the links on our website at:
www.hanson-plywood.co.uk



Applicable Standards

- BS EN 313 – Plywood classification and terminology
- BS EN 314-2 – Bonding quality
- BS EN 635 – Plywood classification by surface appearance
- BE EN 636 – Plywood specification
- BS 1088 – Marine Plywood specification

Plywood

Plywood is manufactured by using multiple layers of wood veneer bonded together with an adhesive.

Each layer of veneer is usually oriented with its grain running at right angles to the adjacent layer in order to produce a strong, mechanically balanced and stable panel.

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Specification of Plywood and Performance Criteria

Plywood manufactured for construction purposes is specified in accordance with EN 636. Products claiming compliance with this standard must also carry the specified markings, which includes a reference to EN 636.

EN 636:2012+A1:2015: Plywood Specifications
The latest edition of 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 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 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, E30/40.

EN 636 gives 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, and therefore must carry a CE mark.

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

			1 - Dry	2 - Humid	3 - Exterior
Property	Application	Standard	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		EN 314-2	Bonding Class 1	Bonding Class 2	Bonding Class 3
Durability		EN 335	Use Class 1	Use Class 2	Use Class 3
Mechanical Properties	Structural - characteristic values - bending strength	EN 12369-1 or EN 789/EN 1058 EN 310	✓	✓	✓
	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
Dimensional Tolerance		EN 315	✓	✓	✓

*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.

Plywood for permanent use in construction must demonstrate compliance with the Construction Products Regulation (CPR) 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.

Specifying plywood for use in exterior conditions - EN 636-3

Understanding plywood and plywood specifications can be a complicated business. The following information will guide you through the process to ensure that your specification of plywood will indeed be fit for purpose.

EN 636 refers to plywood specifications and forms part of the harmonised standard for wood-based panels for use in construction **EN 13986:2004 +A1-2015**.

EN 636 - 3 specifies the requirements for plywood for use in external applications as defined in Use Class 3, where the moisture content will frequently be above 20%.

Use Class 3 is defined fully in **EN 335:2013** but essentially it outlines situations in which wood or wood-based product is above ground and exposed to the weather (particularly rain). Attack by disfiguring fungi and wood destroying fungi is possible as well as attack by wood boring insects, including termites.

Essential elements of plywood for EN 636-3 (Use Class 3)

Bonding quality - The bonding quality of the plywood needs to comply with the requirements of bonding class 3 of EN 314-2.

Biological durability - Plywood shall be appropriate for the prevailing climatic conditions. It is therefore important to assess whether the durability of the plywood to be used is sufficient and if not consider another solution such as design or preservative treatment. Guidance on factors affecting durability can be found in **CEN/TS 1099**.

When specifying plywood for Use Class 3 appropriate surface and edge coating should also be applied.

Relevant standards

EN 13986:2004+A1-2015 - Wood panels for use in construction - characteristics, evaluation of conformity and marking.

EN 314-2 Plywood Bonding Quality - part 2: Requirements.

EN 335:2013 - Durability of wood and wood-based products - Use Class definitions, application to solid wood and wood-based products (this supersedes EN 335-3:1995).

CEN/TS 1099 - Plywood: Biological Durability. Guidance for assessment of plywood for use in different Use Classes.

EN 635-2 - Classification by surface appearance Part 1: General, Part 2: Hardwood.

The factors of exterior exposure that can be significant to the performance of plywood are:

- Rain (particularly wind-driven) and where drying-out is slow.
- Fluctuations in relative humidity.
- Sunlight, particularly on south-facing aspects and dark coloured surfaces.
- Fungal organisms.
- Frost, insect attack and severe chemical pollution may sometimes also have an adverse effect on the service life of plywood.

Rain, either wind-driven or running down the facade of a building, can be rapidly absorbed by unprotected end grain of timber.

Plywood contains much end grain around the edges which must be protected if satisfactory performance is to be achieved. If the edges are not protected, water can enter and give rise to stresses which can eventually cause splitting of the wood and separation of the veneers around the edges even of 'exterior' bonded panels. In the shorter term, it often gives rise to unsightly staining behind a finish and can lead to mould growth, blistering of paint and ultimately decay.

It is therefore imperative that the edges of all panels are protected if satisfactory performance can be achieved.

Water usually penetrates much more rapidly than is lost. This is particularly the case if its entry is localised, such as through an area of improperly applied edge sealant. Under these conditions water can be trapped for long periods behind fairly impermeable finishes putting considerable demands on the durability or preservative treatment of plywood and the adhesion of the finish.

Durability of Glue Bonds

Plywoods are produced with glue bonds which range from those suitable for interior uses only, to those which will withstand full exposure for long periods.

BS EN 314-2 Plywood bonding quality requirements define three classes on the basis of test requirements that the plywood bond must meet:

- Class 1:** Dry conditions (interior, dry uses).
- Class 2:** Humid conditions (protected external service, damp internal uses and limited exposure during construction).
- Class 3:** Exterior conditions (exposure to weather over substantial periods or continuous exposure to relative high humidity).

Full Exterior Bonding

Class 3 bonds are a requirement for plywood to comply with BS EN 636-3. The bonds are largely comparable with what were known as WBP - weather and boil-proof bonds (to BS 6566 Part 8, now withdrawn), except that the requirement that effectively they be made with phenolic-type glues has now been dropped. To qualify the bond must now meet the stipulated test requirements.

Architects, Designers and Specifiers

We offer a full and comprehensive guidance service to ensure the correct products are used for all applications.



Scan me to find out more

Products are:

- ✓ Manufactured to the latest industry standards and are compliant with the Construction Products Regulation (CPR).
- ✓ CE marked and carry a Declaration of Performance (DOP) in accordance with EN 13986.
- ✓ Risk assessed under EUTR (European Union Timber Regulation) requirements to ensure legality of timber.

Decision Making Guidance

- Consider the performance required of the component.
- 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.



Take a look around our virtual showroom











View it now by following the link below:
www.hanson-plywood-showroom.co.uk



Our plywood panels are listed within NBS Source which provides specifiers with all the tools and digital information needed to find, select and specify the correct Hanson Plywood product to meet project requirements.



Quick Reference Guide - Plywood

Applicable Products	Typical Applications	Use Class (see definitions)	Applicable Standards	Minimum Requirement
<div> PERFORMANCE Plywood[®]</div> <div> BIRCH Plywood</div> <div> SP101 Flooring Plywood[®]</div> <div> POPLAR PLYWOOD</div> <div> SOFTWOOD Plywood</div> <div>Far Eastern Type Plywood (Malaysian/Indonesian/Chinese)</div>	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 EN 636:2012+A1:2015 Plywood-specifications EN 314-2 - Plywood bond quality EN 310 - Bending test	CE marked Class 1 Class 1 Refer to test data
<div> PERFORMANCE Plywood[®]</div> <div> BIRCH Plywood</div> <div> SP101 Flooring Plywood[®]</div> <div> SOFTWOOD Plywood</div> <div>Far Eastern Type Plywood (Malaysian/Indonesian/Chinese)</div>	Internal joinery with temporary exposure during construction. Flooring, walls, roof decking, linings, hoardings, protection etc.	2 - Humid	EN 13986 - Wood-based panels for use in construction EN 636:2012+A1:2015 Plywood-specifications. EN 314-2 - Plywood bond quality EN 335 - Durability of wood and wood-based panel products EN 310 - Bending test	CE marked Class 2 Class 2 Class 2* Refer to test data
<div> PERFORMANCE Plywood[®]</div> <div>Marine Plywood BS1088 (Independently Verified)</div>	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 EN 636:2012+A1:2015 Plywood-specifications. EN 314-2 Plywood bond quality EN 335 - Durability of wood and wood-based panel products EN 310 - Bending test	CE marked Class 3 Class 3 Class 3* Refer to test data

* This is a perforated pull out document *

Plywood for permanent use in construction must demonstrate compliance with the Construction Products Regulation (CPR) 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.



All products are reviewed by a robust Due Diligence System in line with EUTR (European Union Timber Regulation) requirements - FSC[®] and PEFC[™] certified material available on request



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www.hanson-plywood.co.uk



Plywood



PEFC™ and FSC® Certified

Combines significant weight saving with high quality faces. Extremely accurate thickness and dimensional tolerances.

Poplar Throughout Plywood

EN 636-1 EN 314-2 Class 1 Bond CE marked

Thickness	3mm	4mm	6mm	9mm	12mm	15mm	18mm	25mm	30mm
Grade	AB/AB	AB/AB	AB/AB	AB/BB	B/BB	B/BB	B/BB	B/BB	B/BB
2500 x 1220mm	£15.95	£20.95	£27.95	£27.34	£34.80	£38.50	£44.25	£61.45	£80.00
3120 x 1220mm	-	-	-	-	£49.30	£61.62	£67.95	£91.10	-
3120 x 1530mm	-	-	-	-	£61.80	£77.25	£85.20	£114.23	-

Uses

Veneering, laminating, joinery, shopfitting, furniture, exhibitions, stage sets, laser cutting, model making, automotive applications

3120 x 1870mm and 3120 x 2120mm also available. **Please enquire with our sales team for details.**

Ilomba Twin Plywood

EN 636-1 EN 314-2 Class 1 Bond CE marked

Thickness	3mm	6mm	9mm	12mm	15mm	18mm	25mm	30mm	40mm
Grade	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB
2500 x 1220mm	£20.70	£22.60	£28.70	£35.85	£41.50	£49.80	£67.20	£85.75	£120.00

Birch Twin Plywood

EN 636-1 EN 314-2 Class 1 Bond CE marked

Thickness	3mm	6mm	9mm	12mm	15mm	18mm	25mm	30mm	40mm
Grade	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB
2440 x 1220mm	POA	POA	POA	POA	POA	POA	POA	POA	POA

Speciality Poplar/Ilomba Panels

We are also able to offer a range of speciality Poplar Plywood panels that present a variety of solutions for many applications.

These products include:

- **Pangua** - Prime - Plywood primed on both sides with acrylic water based paint which eliminates a step in the finishing process.
- **Pangua** - Lam - Plywood coated with CPL or HPL with thicknesses from 0.3mm to 0.9mm.
- **Pangua** - Fire - Plywood impregnated and coated with reactive coatings to meet the needs of the Euro Class B-s1, d0 according EN 13501-1.

Please check availability with our sales team.



PLYWOOD MADE BY PANGUANETA

Renewable, ecological, sound, convenient, high performance and hi-tech. The best choice for a wide range of applications.



www.panguaneta.com



EN 636-1 EN 314-2 Class 1 Bond E1 Glue

Thickness	3mm	4mm	6mm
Grade	-	-	-
2500 x 1220mm	£19.95	£24.95	£31.95

Uses

Toy and model making, arts and crafts, printing, laser cutting

Pure Glue Eco Poplar Throughout Plywood

EN 636-1 EN 314-2 Class 1 Bond CARB Phase II - NAF (No Added Formaldehyde) Certified

All the attributes of Poplar Throughout Plywood with the added benefit of a scientifically formulated and eco-friendly. No Added Formaldehyde (NAF) certified resin. Available to forward order.

Thickness	3mm	6mm	9mm	12mm	15mm	18mm	25mm	30mm	40mm
Grade	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB
2500 x 1220mm	£16.55	£28.50	£31.58	£43.45	£49.72	£54.96	£74.88	£94.70	£130.56

Uses

Furniture, display, automotive, boat building, public buildings

Pure Glue Eco Poplar Throughout Plywood: Large Press Sheets

EN 636-1 EN 314-2 Class 1 Bond CARB Phase II - NAF (No Added Formaldehyde) Certified

All the attributes of Poplar Throughout Plywood with the added benefit of a scientifically formulated and eco-friendly. No Added Formaldehyde (NAF) certified resin.

Thickness	12mm	18mm
Grade	B/BB	B/BB
3100 x 1530mm	£81.95	£109.95

Uses

Furniture, display, automotive, boat building, public buildings

Fire Retardant Poplar Plywood

Euroclass B - EN 636-1 - EN 314-2 Class 3 Glue Bond - E1

Thickness	6mm	9mm	12mm	15mm	18mm	25mm
Grade	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB
2500 x 1220mm	£39.99	£47.30	£60.20	£71.75	£83.30	£115.70
3100 x 1530mm	£77.80	£91.87	£120.47	£139.51	£161.94	£224.88

Uses

Public buildings, construction, offices, schools, hotels

Pangua-Forte

EN636-3 EN314 -2 – CLASS 3 Glue

Pangua-Forte Plywood is an engineered innovative product of outstanding durability designed for resistance to wood decay agents.

Thickness	9mm	12mm	15mm	18mm	25mm	30mm
2500 x 1220	£45.70	£57.10	£59.50	£77.85	£108.10	£129.80

Uses

Typical applications include: wooden houses, urban furniture, marine industry, playground, garden structures, packaging



PANGUANETA

Plywood For Life



TUTTOPIOPPO

Panguaneta Poplar Plywood
100% Made in Italy

Lightweight, versatile, decorative.

Obtained from the selection of the best raw materials to ensure the application in the most demanding industries.



PURE GLUE



A Formaldehyde-Free Plywood
using a non-toxic bonding system.

This technology is designed to reduce formaldehyde emissions and help improve indoor air quality in schools, homes, RV- Caravans and offices.



FIRE PROOF

Fire retardant plywood classified **B-s1, d0** according to **European Standards EN 13501-1** and in conformity with **American Standards ASTM E-84 Class A.**

An innovative and modern treated material, to improve safety and reduce risk of fire.

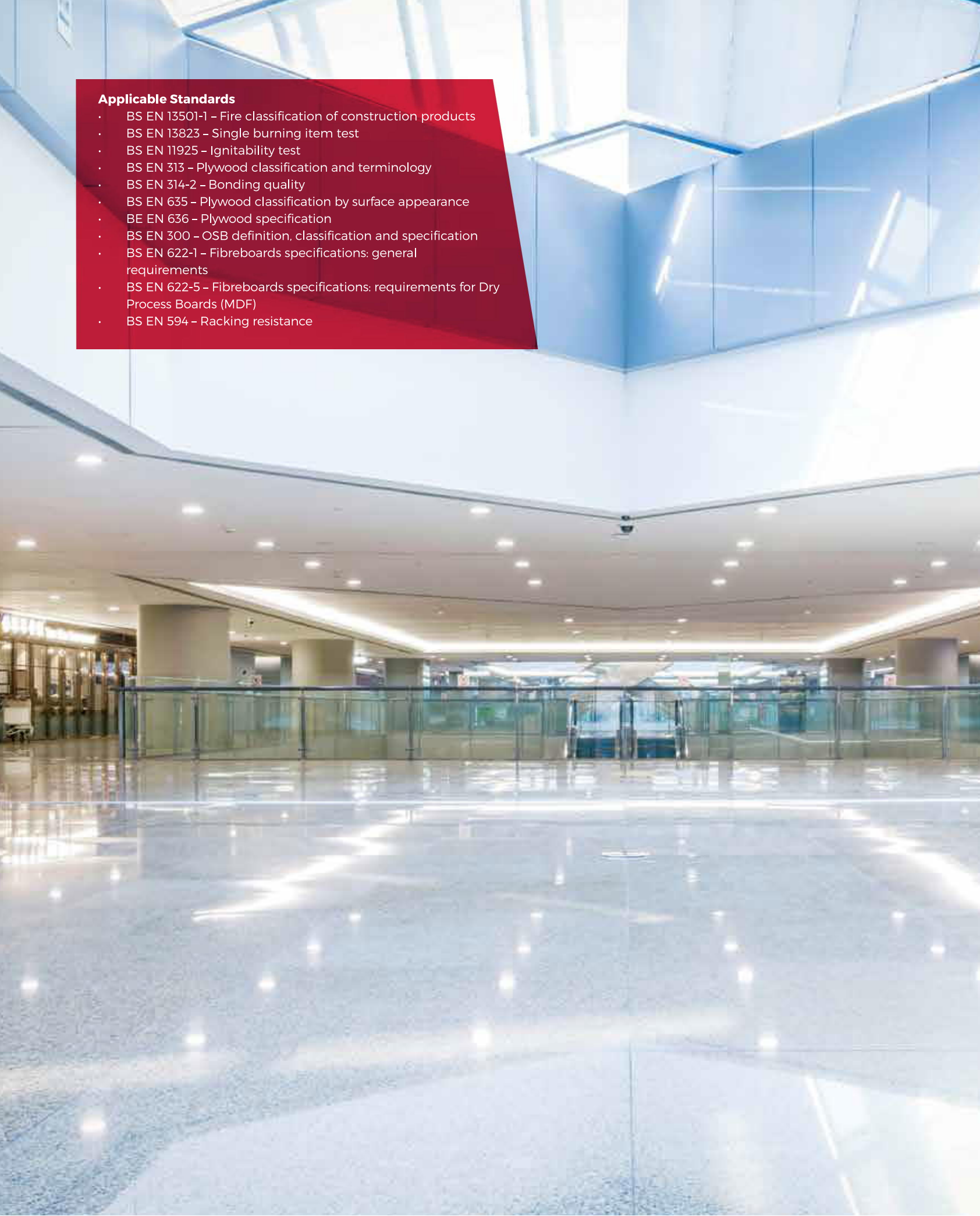


www.panguaneta.com

AND MORE...

Try the wide range of Panguaneta Plywood providing innovative solutions across a range of specific applications, such as:

BIRCH-TWIN
PRIMED PLYWOOD
PRE-PAINT PLYWOOD
LAMINATED PLYWOOD



Applicable Standards

- BS EN 13501-1 – Fire classification of construction products
- BS EN 13823 – Single burning item test
- BS EN 11925 – Ignitability test
- BS EN 313 – Plywood classification and terminology
- BS EN 314-2 – Bonding quality
- BS EN 635 – Plywood classification by surface appearance
- BE EN 636 – Plywood specification
- BS EN 300 – OSB definition, classification and specification
- BS EN 622-1 – Fibreboards specifications: general requirements
- BS EN 622-5 – Fibreboards specifications: requirements for Dry Process Boards (MDF)
- BS EN 594 – Racking resistance

Fire Retardant Panels - Building Boards



Fire retardant panel products are specified in a wide range of end use applications such as wall linings, partitions, display panels, ceilings etc. Typical installations are: hotel foyers, offices, public libraries, schools, court houses, hospitals, cinemas, shopfitting, barfitting and some shipbuilding applications.

Fire retardant panel products can delay ignition for a meaningful time and lower the heat release rate after ignition. Both of these strongly affect the potential for spreading fire beyond the location of original ignition.

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Fire Retardant Panels - Building Boards

Fire Retardant Panels - Classifications and Standards

A request we commonly receive is for panels with 1 hour or ½ hour fire rating.

These ratings relate to the concept of fire resistance and are typically associated with the ability of an elevation or door to withstand the passage of a fully developed fire for said amount of time.

Euroclass relates to the concept of reaction to fire and focuses on initial fire growth phase. A Euroclass rated panel may form part of a fire barrier system requiring 30 or 60 minutes fire resistance overall. We recommend that suitability of a Euroclass rated panel within the design is based upon 3rd party assessment or independent testing specific to the project in question.

There are 7 Euroclass classifications ranging from A1 to F. In line with the Construction Products Regulation (2013) each Euroclass rating requires testing against the relevant European fire test methods.

Hanson Plywood offer a range of panels manufactured with an A1 rating.

Untreated wood-based panels such as plywood, OSB, MDF and chipboard typically achieve a Euroclass D or E rating. Fire rated panels can be supplied to a Euroclass B or Euroclass C fire performance as required depending upon regulatory requirements.

Smartply FR OSB3 is available to either a Euroclass B and Bfl (flooring) fire performance (see table below).

Note: Bfl is a fire specification applicable to flooring applications only.

Class	Performance description	National Class (England & Wales)	National Test Standard (England & Wales)
A1	BS EN ISO 1182 BS EN ISO 1716	Non-combustible	BS 476: Part 4
A2	BS EN ISO 1182 BS EN ISO 1716 BS EN 13823	Limited combustibility	BS 476: Part 11
B	BS EN 13823 BS EN 11925-2	0	BS 476: Part 6 BS 476: Part 7
Bfl (Flooring only)	EN ISO 9239-1 EN ISO 11925-2	N/A	N/A
C	BS EN 13823 BS EN 11925-2	1 & 2	BS 476 : Part 7
D	BS EN 13823 BS EN 11925-2	3	BS 476: Part 7
E	BS EN 11925-2	4	BS 476 : Part 7
F	No performance determined	Unclassified	No Test



How this differs from the old standards...

Prior to the implementation of the Construction Products Regulation in July 2013, fire testing and classification for plywood, MDF, OSB and Chipboard was carried out in accordance with the British National Standard, BS 476. The two main classifications were Class 1 and Class 0.

Class 1 was classified according to Part 7 of BS 476 which required testing on the surface spread of flame. For a Class 1 board, the spread of flame had to not be more than 165mm in 10 minutes.

Class 0 was classified according to Part 7 and Part 6 of BS 476 and required compliance with the Fire Propagation Index in addition to the surface spread of flame. The Fire Propagation Index measures the heat released when timber burns. Panels achieving a Class 0 specification needed to have a Fire Propagation Index of <12.

UK Building Regulations

In England and Wales the fire requirements for buildings are dealt with by Approved Document Part B to the Building Regulations. Following the implementation of the Construction Products Regulation, Class 1 and Class 0 for plywood used in permanent construction were phased out in line with the Harmonised Product Standard BS EN 13986.

Are the new Euroclasses as good as the old National Standards?

The simple answer to this is that they are different. Euroclasses are a new set of Reaction to Fire tests that are deemed as acceptable as the old British Standards by UK Building Regulations. Now, for the first time in UK Building Regulations, these new reaction to fire tests evaluate smoke emission for timber and plywood. Euroclasses are not time rated fire performance classifications so do not offer 30 or 60 minute fire resistance.







**FIRE RESISTANT**

**BREATHABLE**

**EASY TO CUT, FIT & FIX**

**MOISTURE RESISTANT**

**IMPACT RESISTANT & DURABLE**

**MOULD & DEGRADE RESISTANT**

APPLICATIONS

WALL, FLOOR & CEILING LININGS (UP TO 120MINS FIRE PROTECTION)
SEE PASSIVE FIRE PROTECTION GUIDE FOR FULL DETAILS

RENDER CARRIER BOARDS

TILE BACKER FOR BATHROOMS & WET AREAS

SOLID FUEL STOVE SURROUND

SUITABLE FOR TIMBER OR LIGHT STEEL FRAME SYSTEMS

SOFFIT & FASCIA BOARDS & MUCH MORE...

BBA ACCREDITED MgO A1 NON-COMBUSTIBLE BUILDING BOARDS

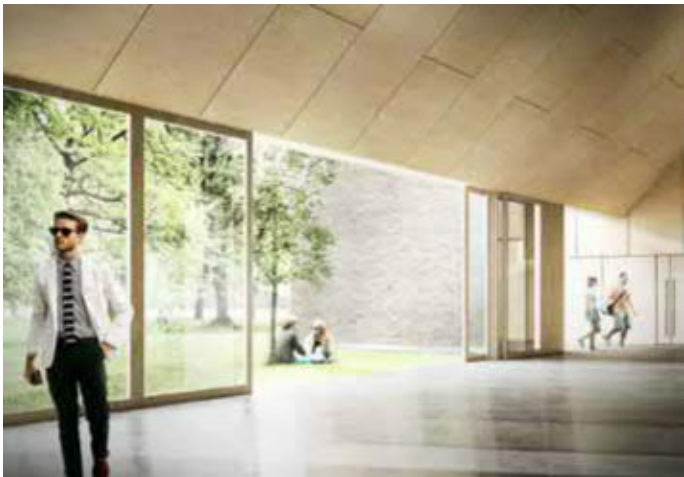
FIRE RESISTANCE

For technical data and further information, please visit www.resistant.co.uk or contact your local branch

Fire Retardant Panels - Building Boards



BIRCH PLYWOOD FOR DECORATIVE AND CONSTRUCTIONAL APPLICATIONS



Fire Retardant Birch Plywood - Decorative*

Euroclass B - EN 636-2 EN 314-2 Class 3 Bond E1 Glue CE marked**

Thickness	12mm	15mm	18mm	24mm
Grade	B/BB	B/BB	B/BB	B/BB
2440 x 1220mm	POA	POA	POA	POA

Fire Retardant Birch Plywood - Constructional*

Euroclass B - EN 636-2 EN 314-2 Class 3 Bond E1 Glue CE marked**

Size	12mm	18mm
Grade	BB/BB	BB/BB
1220 x 2440 / 2440 x 1220mm	£53.85	£85.50

* Other thicknesses available on request

** Declaration of performance for decorative applications available on request



Fire Retardant OSB

FSC® SmartPly – CE marked

Size	Product	Classification	11mm	15mm	18mm
2397 x 1197mm	FR OSB/3 Euroclass	Euroclass B	£43.50	£55.85	£65.95

*Structural, moisture resistant OSB/3 panel that achieves a Reaction to Fire Classification of B-s2, d0, and BfL-s1 (flooring) in accordance with EN13501-1.

Fire Retardant Poplar Plywood

Euroclass B - EN 636-1 - EN 314-2 Class 3 Glue Bond - E1

Thickness	6mm	9mm	12mm	15mm	18mm	25mm
Grade	B/BB	B/BB	B/BB	B/BB	B/BB	B/BB
2500 x 1220mm	£39.99	£47.30	£60.20	£71.75	£83.30	£115.70
3100 x 1530mm	£77.80	£91.87	£120.47	£139.51	£161.94	£224.88

Uses

Public buildings, construction, offices, schools, hotels

Fire Retardant Spano Antivlam Chipboard

Euroclass B - 70% PEFC Certified Material

Unique high pressure impregnation treatment specifically designed for use in dry INT1 situations.

Size	10mm	12mm	18mm
2500 x 1250mm	£20.73	£23.06	£33.06
3050 x 1250mm	£25.28	£28.15	£40.35

Uses

Stairwells, exit routes, lift shafts, corridors

Fire Retardant MDF

FSC® and PEFC™ Fire Retardant - CE marked

Made for use in public buildings and exhibitions and is designed to restrict the spread of flames in the event of fire. This form of MDF is usually dyed pink throughout the core.

Size	6mm		9mm		12mm		15mm		18mm		25mm	
Euro class	B	C	B	C	B	C	B	C	B	C	B	C
2440 x 1220mm	£26.46	£17.48	£32.29	£21.74	£36.33	£24.00	£39.85	£25.52	£44.89	£30.19	£52.90	£38.70
3050 x 1220mm	£33.08	£21.84	£40.32	£27.14	£45.41	£30.25	£50.35	£31.87	£56.07	£37.75	£66.10	£48.50

Uses

Public buildings, exhibitions



We recommend consulting our trained technicians for detailed advice and guidance on all specifications and applications.