

Panel Products Guide



Softwood Plywood

Blanks

Particle Board

MDF

Products

16 17 19 22 23 24



International Decorative Surfaces

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- F 02476 326806
- E nuneatonsales@idsurfaces.co.uk

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- T 01925 852200
- F 01925 852999
- E warringtonsales@idsurfaces.co.uk

GATESHEAD

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- T 0191 4917000
- F 0191 4917007
- **E** gatesheadsales@idsurfaces.co.uk

STOKE

Parkhouse Interchange, Parkhouse Industrial Estate, Newcastle-under-Lyme ST5 7FB

- T 01782 567222
- **F** 01782 567223
- E stokesales@idsurfaces.co.uk

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- T 0208 5508899
- F 0208 5503918
- E woodfordsales@idsurfaces.co.uk

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- T 0238 0698950
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International Decorative Surfaces

PANEL PRODUCTS GUIDE

Welcome to the **International Decorative Surfaces Panel Products Guide**. This guide introduces you to our current extensive product range and also acts as a quick reference manual to the most common issues you may come across on a daily basis within the panels industry.

RANGE DEVELOPMENT

Our comprehensive range has been developed from customer requirements to be able to source all of their panel product requirements from one supplier. We now have the facility to deliver all of your panel product needs.

LOCAL SERVICE / NATIONAL COVERAGE

Our branches offer a nationwide delivery service. Whether your requirement is full loads ex quay, full packs or half packs ex stock our service levels remain dedicated to meeting your expectations. For further information on minimum order quantities please contact your local IDS branch.

EUROPEAN TIMBER REGULATIONS

The European Timber Regulation (EUTR) came into force in March 2013. This is designed to prohibit the trade of illegally logged timber within the EU. Importers who bring timber products into the EU are required to collect relevant information on products and carry out a due diligence process to reduce the risk of placing illegal timber on the EU market. All panel products sold and distributed by International Decorative Surfaces comply with the EUTR.

SUSTAINABLE PANEL

International Decorative Surfaces takes its responsibilities as a sustainable business very seriously. As a company we have a Timber Sourcing Policy which is available to view.

To download a copy, visit our website at **www.idsurfaces.co.uk**. As a company we ensure that all timber products we source are from a minimum legal source and preferably a fully certified chain of custody supply.

Timber is one of the most sustainable and versatile construction products available due to its ability to absorb carbon during its life time and also the wide range of species that are available. It is also readily recyclable. We are however very aware as a company of the issues that can surround timber - specifically that of illegal logging and the damage that this impacts on the biodiversity and the indigenous people in the areas in which it takes place. For this reason we work to ensure that we implement a robust due diligence system in order to reduce the risk of International Decorative Surfaces or its supply chain contributing to the world's deforestation. International Decorative Surfaces has chosen not to buy timber or wood products from certain countries and not to market certain species, specifically by following the recommendations of CITES or the IUCN's Red list.

SUSTAINABLE BUSINESS

We have also set ourselves a series of in house targets to save water, reduce our waste to landfill and our carbon foot print and we strive to promote diversity within our employees and ensure we provide a safe working environment.

We are constantly reviewing our policy to ensure that International Decorative Surfaces remain a supplier that can be trusted to provide good quality product from a sustainable source.









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FAR EASTERN PLYWOOD

Tropical hardwood throughout plywood manufactured in Indonesia. Producing plywood from legitimate well managed forests.

PROPERTIES

PHYSICAL/STRUCTURAL PROPERTIES

GLUE LINE

Exterior E1

TYPICAL APPLICATIONS

Floors, Walls, Ceilings, Furniture

CE2+ 9mm and above

ORIGIN

Indonesia

DURABILITY

EN 636-2

ENVIRONMENTAL CREDENTIALS

FSC® and PEFC™

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

FAR EASTERN HARDWOOD PLYWOOD

| Product | Environmental Credentials |
|-------------------|------------------------------|
| 2440 x 1220 BB/CC | |
| 3.6mm | FSC® and PEFC™ |
| 5.5mm | FSC® and PEFC™ |
| 9mm | FSC® and PEFC™ |
| 12mm | FSC® and PEFC™ |
| 15mm | FSC® and PEFC™ |
| 18mm | FSC® and PEFC™ |
| 25mm | FSC® and PEFC™ |
| | |

Additional specifications, sizes, chain of custody and specials are available to order.





Precise colour and texture should be judged from the actual material



CHINESE Q-MARK PLYWOOD

A plantation grown Eucalyptus species with faces suitable for numerous end uses.

PROPERTIES

BOTANICAL NAME Eucalyptus grandis

PHYSICAL/STRUCTURAL TRADA Q Mark and CE Marked

PROPERTIES CE2+ 9mm and above

GLUE LINE Exterior E1

TYPICAL APPLICATIONS Structural and general applications

ORIGIN China

DURABILITY EN636-2

ENVIRONMENTAL FSC®

STORAGE ADVICE Transport in uniform stacks on a flat base to

avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

CHINESE Q-MARK PLYWOOD

| Product | Environmental Credentials |
|-------------------|------------------------------|
| 2440 x 1220 BB/CC | |
| 3.6mm | FSC® |
| 5.5mm | FSC® |
| 9mm | FSC® |
| 12mm | FSC® |
| 15mm | FSC® |
| 18mm | FSC® |
| 25mm | FSC® |



party product certification scheme operated by BM Trada Certification Ltd.

The scheme covers factory production control, documentation and test/assessment evidence and the resulting certification is specific to clearly defined products and their constituant component.

One of the main objectives of the scheme is to provide specifiers, regulators and inspection authorities with the appropriate information for them to identify suitable products for structural use.





Precise colour and texture should be judged from the actual material



The benefit of this hardwood plywood offer is in the range of panel sizes, both 10×4 and 10×5 panels are available.

PROPERTIES

PHYSICAL/STRUCTURAL PROPERTIES

GLUE LINE

Exterior E1

TYPICAL APPLICATIONS

Van Lining, Furniture, Packaging

CE2/CE 9mm and above

ORIGIN

China

DURABILITY

EN636-2

ENVIRONMENTAL CREDENTIALS

FSC®

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

HARDWOOD PLYWOOD

| Product | Environmental Credentials | |
|--------------------------------|------------------------------|--|
| 3050 x 1220 BB/CC (10ft x 4ft) | | |
| 3.6mm | FSC® | |
| 5.5mm | FSC® | |
| 9mm | FSC® | |
| 12mm | FSC® | |
| 15mm | FSC® | |
| 18mm | FSC® | |
| 25mm | FSC® | |
| 3050 x 1525 BB/CC (10ft x 5ft) | | |
| 3.6mm | FSC® | |
| 5.5mm | FSC® | |
| 9mm | FSC® | |
| 12mm | FSC® | |
| 15mm | FSC® | |
| 18mm | FSC® | |
| 25mm | FSC® | |
| | | |





Precise colour and texture should be judged from the actual material



PARAPLY

PARAGUAYAN EUCALYPTUS PLYWOOD

100% rotary cut eucalyptus panel with phenolic glue throughout.

PROPERTIES

BOTANICAL NAME Eucalyptus grandis

PHYSICAL/STRUCTURAL

PROPERTIES

CE2+ 9mm and above

GLUE LINE Exterior E1

TYPICAL APPLICATIONS Furniture, Linings, Soffits, Cladding

ORIGIN Paraguay

DURABILITY EN636-2

ENVIRONMENTAL CREDENTIALS

FSC®

STORAGE ADVICE Transport in uniform stacks on a flat base to

avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

PARAGUAYAN EUCALYPTUS PLYWOOD

| Product | Environmental Credentials |
|-------------------|------------------------------|
| 2440 x 1220 BB/CC | |
| 5.5mm | FSC® |
| 9mm | FSC® |
| 12mm | FSC® |
| 15mm | FSC® |
| 18mm | FSC® |
| 22mm | FSC® |
| 25mm | FSC® |





Precise colour and texture should be judged from the actual material



MARINE GRADE HARDWOOD PLYWOOD

Marine grade plywood from Morocco and Paraguay.

PROPERTIES

PHYSICAL/STRUCTURAL

PROPERTIES

BS1088-1:2003

GLUE LINE

Exterior E1

TYPICAL APPLICATIONS

General moisture resistant applications: Bathrooms, kitchens and external applications but

not intended for boat-building.

ORIGIN

Morocco / Paraguay

DURABILITY

EN636-3

ENVIRONMENTAL CREDENTIALS

FSC®

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

MARINE GRADE PLYWOOD TO BS1088

| Product | Environmental Credentials | |
|----------------------------|------------------------------|--|
| 2440 x 1220 Okoume | | |
| 6mm | FSC® | |
| 9mm | FSC® | |
| 12mm | FSC® | |
| 18mm | FSC® | |
| 25mm | FSC® | |
| 2440 x 1220 Paraply Marine | | |
| 6mm | FSC® | |
| 9mm | FSC® | |
| 12mm | FSC® | |
| 18mm | FSC® | |
| 25mm | FSC® | |





Precise colour and texture should be judged from the actual material



BIRCH FACED WISA TWIN PLYWOOD



A lightweight sustainable multi-purpose panel consisting of a spruce core and birch faces.

PROPERTIES

BOTANICAL NAME Betula pendula / Picea abies

PHYSICAL/STRUCTURAL

PROPERTIES

CE2+ 9mm and above

GLUE LINE

Exterior E1

TYPICAL APPLICATIONS

Construction, Furniture and Joinery

ORIGIN

Finland

DURABILITY

EN 636-2

ENVIRONMENTAL CREDENTIALS

 $\mathsf{PEFC^{\mathsf{TM}}}$

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

BIRCH FACED WISA TWIN PLYWOOD

| Product | Environmental Credentials |
|-------------------|------------------------------|
| 2440 x 1220 BB/WG | |
| 5mm | PEFCTM |
| 9mm | PEFC™ |
| 12mm | PEFCTM |
| 15mm | PEFCTM |
| 18mm | PEFC™ |
| 21mm | PEFCTM |
| 25mm | PEFC™ |





Precise colour and texture should be judged from the actual material



BIRCH THROUGHOUT PLYWOOD

A range of both high grade and commercial grade birch throughout plywood.

PROPERTIES

BOTANICAL NAME

PHYSICAL/STRUCTURAL

PROPERTIES

GLUE LINE

TYPICAL APPLICATIONS

ORIGIN

DURABILITY

ENVIRONMENTAL CREDENTIALS

STORAGE ADVICE

Betula pendula

CE marked

Exterior E1

Construction, Furniture, Transport and Joinery

Latvia / Finland / Russia

BSEN 636-2

FSC® and PEFC™

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.



Precise colour and texture should be judged from the actual material

BIRCH THROUGHOUT PLYWOOD

| Product | Environmental Credentials |
|---------------------------|------------------------------|
| 1220 x 2440 S/BB 2440 x | 1220 S/BB |
| 4mm | FSC® and PEFC™ |
| 6.5mm | FSC® and PEFC™ |
| 9mm | FSC® and PEFC™ |
| 12mm | FSC® and PEFC™ |
| 15mm | FSC® and PEFC™ |
| 18mm | FSC® and PEFC™ |
| 24mm | FSC® and PEFC™ |
| 1220 x 2440 BB/BB 2440 | x 1220 BB/BB |
| 4mm | FSC® and PEFC™ |
| 6.5mm | FSC® and PEFC™ |
| 9mm | FSC® and PEFC™ |
| 12mm | FSC® and PEFC™ |
| 15mm | FSC® and PEFC™ |
| 18mm | FSC® and PEFC™ |
| 24mm | FSC® and PEFC™ |
| 1220 x 3050 BB/BB | |
| 4mm | FSC® and PEFC™ |
| 6.5mm | FSC® and PEFC™ |
| 9mm | FSC® and PEFC™ |
| 12mm | FSC® and PEFC™ |
| 15mm | FSC® and PEFC™ |
| 18mm | FSC® and PEFC™ |
| 24mm | FSC® and PEFC™ |
| 1525 x 3050 BB/BB | |
| 4mm | FSC® and PEFC™ |
| 6.5mm | FSC® and PEFC™ |
| 9mm | FSC® and PEFC™ |
| 12mm | FSC® and PEFC™ |
| 15mm | FSC® and PEFC™ |
| 18mm | FSC® and PEFC™ |
| 24mm | FSC® and PEFC™ |
| | |



SPECIALIST TECHNICAL PLYWOOD

A range of technical plywoods for the transport industry, playgrounds, stage and sports arena applications.

PROPERTIES

PHYSICAL/STRUCTURAL

PROPERTIES

CE marked

GLUE LINE

Exterior E1

TYPICAL APPLICATIONS

Trailer Floors, Walkways, Stages, Van Floors and

Flight Cases

ORIGIN

Finland / Latvia / Malaysia

DURABILITY

EN 636-2

ENVIRONMENTAL CREDENTIALS

PEFC™

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.





Riga Tex Precise colour and texture should be judged from the actual material

SPECIALIST TECHNICAL PLYWOOD

| Product | Environmental Credentials | |
|---|------------------------------|--|
| 1220 x 2440 Birch Riga Form Dark Brown 120grm | | |
| 12mm | PEFC™ | |
| 18mm | PEFC™ | |
| 1220 x 2440 Birch Riga Тех [| Dark Brown 220grm | |
| 12mm | PEFC™ | |
| 18mm | PEFC™ | |
| 1220 x 2500 Birch Riga Tex Dark Brown 220grm | | |
| 21mm | PEFC™ | |
| 24mm | PEFC™ | |
| 1220 x 2500 Birch Heksa Plus 220grm | | |
| 9mm Grey | PEFC™ | |
| 18mm Dark Brown | PEFC™ | |
| 18mm Black | PEFC™ | |
| 1525 x 3050 Birch Heksa Plus | | |
| 18mm Dark Brown | PEFC™ | |
| 2440 x 1220 Phenolic Faced 120grm | | |
| 18mm Dark Brown | PEFC™ | |

Additional specifications, thicknesses, sizes and specials are available. Please enquire.



Heksa Plus Precise colour and texture should be judged from the actual material



Softwood Plywood

WISA-SPRUCE PLYWOOD



Wisa-Spruce softwood throughout plywood is intended for use as a structural panel within the context of the UK Building Regulations.

PROPERTIES

BOTANICAL NAME Picea abies

PHYSICAL/STRUCTURAL BS 5268 pt2 - CE2+ Structural

PROPERTIES
GLUE LINE

Exterior E1

BS EN 636-2

 $\mathsf{PEFC^{\mathsf{TM}}}$

ORIGIN Finland

ENVIRONMENTAL CREDENTIALS

DURABILITY

TYPICAL APPLICATIONS

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness.

Walls, Floor, Roofs, Packing and Furniture

When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

WISA-SPRUCE PLYWOOD

| Product | Environmental Credentials | |
|-----------------------|------------------------------|--|
| 2440 x 1220 Sq. Edged | | |
| 9mm II/III | PEFC™ | |
| 12mm II/III | PEFC™ | |
| 15mm II/III | PEFC™ | |
| 18mm II/III | PEFC™ | |
| 21mm II/III | PEFC™ | |
| 24mm II/III | PEFC™ | |
| 3050 x 1220 Sq. Edged | | |
| 18mm II/III | PEFC™ | |
| 2400 x 1220 TG 2LE | | |
| 18mm II/III | PEFC™ | |
| 21mm II/III | PEFC™ | |
| 2400 x 600 TG4 | | |
| 18mm II/III | PEFC™ | |
| 22mm II/III | PEFC™ | |





Precise colour and texture should be judged from the actual material



Softwood Plywood

CHILEAN RADIATA PINE PLYWOOD

A plantation grown species suitable for numerous structural end uses and packaging.

PROPERTIES

BOTANICAL NAME Pinus radiata

PHYSICAL/STRUCTURAL

TYPICAL APPLICATIONS

PROPERTIES

CE2+

GLUE LINE Exterior E1

ORIGIN Chile

DURABILITY BS EN 636-2

ENVIRONMENTAL CREDENTIALS

FSC®

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

Walls, Floors, Roofs, Packing and Furniture

CHILEAN RADIATA PINE PLYWOOD

| Product | Environmental Credentials |
|--------------------|------------------------------|
| 2440 x 1220 (S.E.) | |
| 9mm II/III | FSC® |
| 12mm II/III | FSC® |
| 15mm II/III | FSC® |
| 18mm II/III | FSC® |
| 21mm II/III | FSC® |
| 25mm II/III | FSC® |
| 2440 x 610 TG4 | |
| 18mm II/III | FSC® |
| 21mm II/III | FSC® |





Precise colour and texture should be judged from the actual material



Softwood Plywood





BRAZILIAN PINE PLYWOOD

A plantation grown species suitable for numerous structural end uses including structural, hoarding, packaging and furniture.

PROPERTIES

BOTANICAL NAME Pinus elliotti, Pinus taeda

PHYSICAL/STRUCTURAL CE2+ Structural/BBA
PROPERTIES CE4 Non-Structural

GLUE LINE Exterior E1

TYPICAL APPLICATIONS Walls, Floors. Roofs, Packing, Furniture plus

general applications

ORIGIN Brazil

DURABILITY BS EN 636-2

ENVIRONMENTAL FSC®
CREDENTIALS

STORAGE ADVICE Transport in uniform stack:

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

BRAZILIAN PINE PLYWOOD

| Product | Environmental Credentials |
|-----------------------|------------------------------|
| 2440 x 1220 C+/C CE2+ | |
| 9mm | FSC® |
| 12mm | FSC® |
| 15mm | FSC® |
| 18mm | FSC® |
| 25mm | FSC® |
| 2440 x 1220 C+/C CE4 | |
| 9mm | FSC® |
| 12mm | FSC® |
| 15mm | FSC® |
| 18mm | FSC® |





Precise colour and texture should be judged from the actual material



Flamebreak Door Blanks



DOOR BLANKS

Manufactured from lightweight low density plantation hardwoods.

PROPERTIES

PHYSICAL/STRUCTURAL PROPERTIES

ROPERTIES Flamebreak approximate weight of 31kg per 2135 x 915 blank.

TYPICAL APPLICATIONS

Lightweight firecheck door blanks for conversion into doorsets.

All blanks conform to BS 476:Part 22 1987.

ORIGIN

Indonesia

DURABILITY

EN 636-2 (Flamebreak)

ENVIRONMENTAL CREDENTIALS

FSC® available and SVLK (Timber Legality Verification System).

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

FLAMEBREAK DOOR BLANKS

| Product | Environmental Credentials |
|-----------------------------|------------------------------|
| FD30 2135 x 915 x 44mm | SVLK |
| FD30 2440 x 1220 x 44mm | SVLK |
| FD60 2135 x 915 x 54mm | SVLK |
| FSC® FD30 2135 x 915 x 44mm | FSC® |



Precise colour and texture should be judged from the actual material



Particle Board

FURNITURE GRADE CHIPBOARD

PROPERTIES

BOTANICAL NAME

Spruce (picea abies) /pine (pinus sylvestris) & recycled wood

PHYSICAL/STRUCTURAL **PROPERTIES**

BS EN 312: Parts 1 & 5 and BS EN 13986:2002/BBA

TYPICAL APPLICATIONS

Furniture and Shelving

ORIGIN

UK, Spain, Belgium

ENVIRONMENTAL CREDENTIALS

FSC® and PEFC™

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

FURNITURE GRADE CHIPBOARD

| Product | Environmental Credentials | |
|---------------------------|------------------------------|--|
| Furniture Grade Chipboard | 2440 x 1220 S/E | |
| 12mm P2 | FSC® and PEFC™ | |
| 15mm P2 | FSC® and PEFC™ | |
| 18mm P2 | FSC® and PEFC™ | |

Additional specifications, sizes, chain of custody and specials are available to order



Precise colour and texture should be judged from the actual material



Precise colour and texture should be judged from the actual material



Particle Board

FLOORING/MEZZANINE CHIPBOARD

PROPERTIES

BOTANICAL NAME

Picea abies (spruce) / Pinus sylvestris (pine) & recycled wood

PHYSICAL/STRUCTURAL PROPERTIES

BS EN 312; BBA; manufactured from Type P5 flooring grade chipboard faced with thermosetting impregnated kraft paper bonded to both sides of the chipboard. BBA approved and can be left exposed to the elements during the building process.

TYPICAL APPLICATIONS

Flooring (including mezzanine and access)

ORIGIN

UK, Belgium

ENVIRONMENTAL CREDENTIALS

FSC® and PEFC™

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

FLOORING/MEZZANINE CHIPBOARD

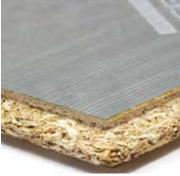
| Product | Environmental Credentials | | |
|----------------|------------------------------|--|--|
| 2400 x 600 TG4 | | | |
| 18mm P5 | FSC® and PEFC™ | | |
| 22mm P5 | FSC® and PEFC™ | | |
| 18mm Protect | FSC® and PEFC™ | | |
| 22mm Protect | FSC® and PEFC™ | | |
| 18mm Peelclean | FSC® and PEFC™ | | |
| 22mm Peelclean | FSC® and PEFC™ | | |
| 38mm Unilin P6 | FSC® and PEFC™ | | |
| 38mm Unilin P5 | FSC® and PEFC™ | | |

Additional specifications, sizes, chain of custody and specials are available to order









Precise colour and texture should be judged from the actual material



Medium Density Fibreboard

STANDARD GRADE MDF - FROM CABER, MEDITE, FINSA, KRONOSPAN

Our MDF offers a consistency of quality and thickness and is engineered to perform.









PROPERTIES

BOTANICAL NAME

Picea abies (spruce), Pinus sylvestris (pine)

PHYSICAL/STRUCTURAL PROPERTIES

EN 622-5; BS EN 120 (E1)

TYPICAL APPLICATIONS

Furniture, Shopfitting, Laminating Substrates

ORIGIN

Scotland, Ireland, Spain, Wales

DURABILITY

EN636-2

ENVIRONMENTAL CREDENTIALS

FSC® and PEFC™

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

MDF - STANDARD GRADE

| Product | Environmental Credentials | | |
|-------------|------------------------------|--|--|
| 2440 x 1220 | | | |
| 3mm | PEFC™ | | |
| 3.2mm | FSC® | | |
| 6mm | FSC® | | |
| 9mm | FSC® | | |
| 12mm | FSC® | | |
| 15mm | FSC® | | |
| 18mm | FSC® | | |
| 22mm | FSC® | | |
| 25mm | FSC® | | |
| 30mm | PEFC™ | | |
| 36mm | PEFC™ | | |
| 38mm | PEFC™ | | |
| 40mm | PEFC™ | | |
| 45mm | PEFC™ | | |
| 50mm | PEFC™ | | |
| 3050 x 1220 | | | |
| 6mm | FSC® | | |
| 9mm | FSC® | | |
| 12mm | FSC® | | |
| 15mm | FSC® | | |
| 18mm | FSC® | | |
| 22mm | FSC® | | |
| 25mm | FSC® | | |

Additional specifications, sizes, chain of custody and specials are available to order



Precise colour and texture should be judged from the actual material



Medium Density Fibreboard

MOISTURE RESISTANT

Our moisture resistant MDF panel offer is designed for use in humid conditions.









PROPERTIES

BOTANICAL NAME

PHYSICAL/STRUCTURAL

PROPERTIES

GLUE LINE

TYPICAL APPLICATIONS

ORIGIN

ENVIRONMENTAL CREDENTIALS

STORAGE ADVICE

Picea abies (spruce) / Pinus sylvestris (pine)

EN 622-5; BS EN 120(E1)

Moisture Resistant

Kitchen and Bathroom Furniture, Window Sills,

Skirting Boards

Scotland / Ireland / Wales / Spain

FSC®

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

MOISTURE RESISTANT MDF

| Product | Environmental Credentials | | |
|-------------|------------------------------|--|--|
| 2240 x 1220 | | | |
| 6mm | FSC® | | |
| 9mm | FSC® | | |
| 12mm | FSC® | | |
| 15mm | FSC® | | |
| 18mm | FSC® | | |
| 22mm | FSC® | | |
| 25mm | FSC® | | |
| 3050 x 1220 | | | |
| 6mm | FSC® | | |
| 9mm | FSC® | | |
| 12mm | FSC® | | |
| 15mm | FSC® | | |
| 18mm | FSC® | | |
| 22mm | FSC® | | |
| 25mm | FSC® | | |

Additional specifications, sizes, chain of custody and specials



Precise colour and texture should be judged from the actual material



Medium Density Fibreboard



SPECIALS

Medite Tricoya is an extremely durable MDF that offers outstanding dimensional stability and comes with a 50 year guarantee. Exterior MDF is used as a substitute for softwood, hardwood, plywood, plastic and metal in non-stressed applications.

PROPERTIES

BOTANICAL NAME Picea Abies (Spruce) / Pinus sylvestris (Pine) / Pinus radiata

PHYSICAL/STRUCTURAL EN 622-5 ; BS EN 120(E1)
PROPERTIES

GLUE LINE Exterior E1

TYPICAL APPLICATIONS Exterior facades and cladding as well as door and sign manufacture. Lightweight is ideal for exhibition work along with shopfitting.

ORIGIN Ireland

ENVIRONMENTAL FSC®

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and

edges from moisture penetration and damage.

MDF SPECIALS

| Product | Environmental Credentials | | |
|----------------------------|------------------------------|--|--|
| 2440 x 1220 Tricoya | | | |
| 6mm | FSC® | | |
| 9mm | FSC® | | |
| 12mm | FSC® | | |
| 15mm | FSC® | | |
| 18mm | FSC® | | |
| 3050 x 1220 | | | |
| 15mm | FSC® | | |
| 18mm | FSC® | | |
| 2440 x 1220 Ecologique | | | |
| 18mm | FSC® | | |
| 2440 x 1220 Exterior Grade | | | |
| 6mm | FSC® | | |
| 9mm | FSC® | | |
| 12mm | FSC® | | |
| 15mm | FSC® | | |
| 18mm | FSC® | | |
| 2440 x 1220 Ultralite | | | |
| 18mm | FSC® | | |
| 3050 x 1220 | | | |
| 12mm | FSC® | | |
| 18mm | FSC® | | |







Compact Density Fibreboard



MOISTURE RESISTANT

The latest technology with high quality, sustainable, raw materials have combined to produce a brand new product with outstanding qualities from Kronoswiss. An environmental alternative to compact laminate. Kronoswiss CDF brings to market a revolutionary FSC® certified and recyclable panel solution. CDF offers 30% weight saving over standard Compact Laminate, is high impact resistant and is quicker to cut and profile, ensuring a significant cost saving.

PROPERTIES

PHYSICAL/STRUCTURAL PROPERTIES

TYPICAL APPLICATIONS

ORIGIN

ENVIRONMENTAL CREDENTIALS

STORAGE ADVICE

EN 622-5; BS EN 120 (E1)

Kitchen and Bathroom Furniture, Window Sills, Skirting Boards

Switzerland

FSC®

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

COMPACT DENSITY FIBREBOARD

| Product | Environmental Credentials | |
|-------------|------------------------------|--|
| 2800 x 2070 | | |
| 6mm | FSC® | |
| 8mm | FSC® | |
| 10mm | FSC® | |
| 12mm | FSC® | |
| 16mm | FSC® | |
| 19mm | FSC® | |

ALSO AVAILABLE EX STOCK PRE-LAMINATED BOARDS IN 17 DÉCORS.

Additional specifications, sizes, chain of custody and specials are available to order







Veneered Medium Density Fibreboard

A range of MDF with a real wood veneer on both sides. The most popular veneers are: American and European Crown Cut Oak, European Quarter Cut Oak, Ash, Maple, Cherry, Steamed Beech, White Beech, American Black Walnut, Crown & Quarter Cut Sapele and Pine. Many more species are available on request.

PROPERTIES

PHYSICAL/STRUCTURAL **PROPERTIES**

TYPICAL APPLICATIONS

ORIGIN

DURABILITY

ENVIRONMENTAL CREDENTIALS

STORAGE ADVICE

A/B quality

Shopfitting, Furniture and Joinery

UK / Spain / Belgium / Ireland

EN 636-2

FSC® and PEFC™

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.











VENEERED MEDIUM DENSITY FIBREBOARD

| Product | Environmental Credentials | | | |
|---|------------------------------|--|--|--|
| Crown Cut White Ash (2440 x 1220 & 3050 x 1220) | | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm | FSC® and PEFC™ | | | |
| Steamed Beech (2440 x 1220 & 3050 x 1220) | | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm | FSC® and PEFC™ | | | |
| White Beech (2440 x 1220 & 3050 x 1220) | | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm | FSC® and PEFC™ | | | |
| Crown Cut Cherry (2440 x 1220 & 3050 x 1220) | | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm FSC® and PEFG | | | | |
| Crown Cut Maple (2440 x 1220 & 3050 x 1220) | | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm FSC® and PEFCT | | | | |
| Crown Cut White Oak (2440 x 1220 & 3050 x 1220 |) | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm | FSC® and PEFC™ | | | |
| Quarter Cut White Oak (2440 x 1220 & 3050 x 122 | 0) | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm | FSC® and PEFC™ | | | |
| Crown Cut Pine (2440 x 1220 & 3050 x 1220) | | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm | FSC® and PEFC™ | | | |
| Crown Cut Sapele (2440 x 1220 & 3050 x 1220) | | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm | FSC® and PEFC™ | | | |
| Quarter Cut Sapele (2440 x 1220 & 3050 x 1220) | | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm | FSC® and PEFC™ | | | |
| American Black Walnut (2440 x 1220 & 3050 x 122 | 20) | | | |
| 6mm / 10mm / 13mm / 16mm / 19mm / 26mm | FSC® and PEFC™ | | | |

Additional specifications, sizes, chain of custody and specials are available to order



Flexible Plywood & MDF

PLYWOOD & MDF

We offer a specialist range of flexible plywood and MDF sheets that are ideal for all curved surface structural applications. These sheets make an ideal substrate for postformed laminate and flexible veneer to provide innovative design features for all types of furniture.

PROPERTIES

PHYSICAL/STRUCTURAL PROPERTIES

TYPICAL APPLICATIONS

ENVIRONMENTAL CREDENTIALS

STORAGE ADVICE

EN 622-5, BS EN120(E1)

Office, Shopfitting

FSC®

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.

FLEXIBLE MDF

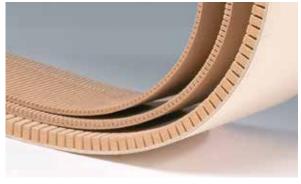
| Product | Environmental Credentials | |
|-------------|------------------------------|--|
| 2440 x 1220 | | |
| 6mm | FSC® | |
| 9mm | FSC® | |
| 1220 x 2440 | | |
| 6mm | FSC® | |
| 9mm | FSC® | |

FLEXIBLE PLYWOOD

| Environmental Credentials |
|------------------------------|
| |
| FSC® |
| FSC® |
| |
| FSC® |
| FSC® |
| |

Additional specifications, sizes, chain of custody and specials are available to order







Flexible Wood Veneer

What are flexible wood veneers?

Flexible wood veneers are natural veneer sheets backed with paper. The wood fibres have then been crushed and tenderised, making the sheets highly flexible.

Flexible wood veneers are ideal for veneering curved surfaces and due to their easy application are frequently used for flat surfaces, panelling, furniture making and interior shopfitting.

Flexible wood veneer sheets are available for immediate delivery in 8' x 4' sheets in all popular veneer species and are also available in 10' x 4' long grained and 4' x 8' cross grained sheets in selected species.

| VENEER STOCK AVAILABILIT | ГҮ | | |
|--------------------------|---------|----------|---------|
| SPECIES | 8' X 4' | 10' X 4' | 4' X 8' |
| White ash | 1 | 1 | 1 |
| Bamboo carbonised | 1 | N/A | N/A |
| Bamboo natural | ✓ | N/A | N/A |
| Beech steamed | 1 | 1 | 1 |
| Beech white | 1 | 1 | 1 |
| Cherry | / | 1 | 1 |
| Ebony | / | N/A | N/A |
| Elm | / | N/A | N/A |
| Maple (Crown cut) | 1 | 1 | 1 |
| Maple (Quarter) | ✓ | 1 | 1 |
| White oak (Crown cut) | / | 1 | 1 |
| White oak (Quarter) | / | 1 | 1 |
| Pear swiss | 1 | N/A | N/A |
| Pine | 1 | 1 | ✓ |
| Rosewood santos | 1 | N/A | N/A |
| Sapele (Crown cut) | / | 1 | 1 |
| Sapele (Quarter) | 1 | N/A | N/A |
| Teak | 1 | N/A | N/A |
| Walnut AM black | 1 | 1 | 1 |
| Wenge | / | N/A | N/A |
| Zebrano | / | 1 | 1 |





Pinboards

SUNDEALA BOARD

Sundeala economical pinboard is an environmentally sustainable board made from almost 100% recycled paper.

PROPERTIES

PHYSICAL/STRUCTURAL PROPERTIES

EN622-3

TYPICAL APPLICATIONS

Noticeboards, Dry wipe and Chalk boards

ORIGIN

UK

ENVIRONMENTAL CREDENTIALS

Recycled newsprint

STORAGE ADVICE

Store horizontally on a firm base with enough bearers to prevent sagging. Cover stack to protect top and edges from moisture penetration.

SUNDEALA BOARD

| Product |
|-----------------------|
| 2440 x 1220 K Quality |
| 6mm K Quality |
| 9mm K Quality |
| 12mm K Quality |
| |
| Green |
| Yellow |
| Lilac |
| Orange |
| Charcoal |
| Red |

Additional specifications, sizes, chain of custody and specials are available to order









Flame Retardant Products

We offer a range of panel products which are CPD compliant and CE marked. Our product offering includes plywood and MDF treated to both Euro Class C and Euro Class B.

PROPERTIES

PHYSICAL/STRUCTURAL PROPERTIES

EN 13501-1

TYPICAL APPLICATIONS

Government projects such as schools and hospitals, swimming pools, lifeboat stations, transport and rail requirements, listed buildings and churches.

ORIGIN

On Request

ENVIRONMENTAL CREDENTIALS

FSC® and PEFC™

STORAGE ADVICE

Transport in uniform stacks on a flat base to avoid damage. Protect against the weather; store on a rigid flat base with adequate ventilation. Insulate from the ground to avoid dampness. When wooden battens are used they shall be of uniform thickness and placed in line. The distance between the battens should be no greater than 700 - 1000mm. Cover stack to protect top and edges from moisture penetration and damage.





FLAME RETARDANT PRODUCTS

| Product | Environmental Credentials | |
|--|--|--|
| Hardwood faced plywood 2440 x 1220 | | |
| 3.6mm Euro Class C | FSC® | |
| 5.5mm Euro Class C | FSC® | |
| 9mm Euro Class C | FSC® | |
| 12mm Euro Class C | FSC® | |
| 15mm Euro Class C | FSC® | |
| 18mm Euro Class C | FSC® | |
| 25mm Euro Class C | FSC® | |
| 9mm Euro Class B | FSC® | |
| 12mm Euro Class B | FSC® | |
| 15mm Euro Class B | FSC® | |
| 18mm Euro Class B | FSC® | |
| 25mm Euro Class B | FSC® | |
| Hardwood faced plywood 2745 x 1220 | | |
| 3.6mm Euro Class C | FSC® and PEFC™ | |
| Sundeala FRB Board 2440 x 1220 | | |
| Sanacata FRB Board 2 Fro X | 1220 | |
| 9mm | FSC® and PEFC™ | |
| | | |
| 9mm | | |
| 9mm Medite 2440 x 1220 | FSC® and PEFC™ | |
| 9mm Medite 2440 x 1220 6mm Euro Class C | FSC® and PEFC™ | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C | FSC® and PEFC™ FSC® FSC® | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C | FSC® and PEFC™ FSC® FSC® FSC® | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C | FSC® and PEFC™ FSC® FSC® FSC® FSC® FSC® | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C 18mm Euro Class C | FSC® and PEFC™ FSC® FSC® FSC® FSC® FSC® FSC® | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C 18mm Euro Class C 25mm Euro Class C | FSC® and PEFC™ FSC® FSC® FSC® FSC® FSC® FSC® FSC® FSC | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C 18mm Euro Class C 25mm Euro Class C | FSC® and PEFC™ FSC® FSC® FSC® FSC® FSC® FSC® FSC® FSC® | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C 18mm Euro Class C 25mm Euro Class C 12mm Euro Class C | FSC® and PEFC™ FSC® FSC® FSC® FSC® FSC® FSC® FSC® FSC® | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C 18mm Euro Class C 25mm Euro Class C 12mm Euro Class B 18mm Euro Class B | FSC® and PEFC™ FSC® FSC® FSC® FSC® FSC® FSC® FSC® FSC | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C 18mm Euro Class C 25mm Euro Class C 12mm Euro Class C 12mm Euro Class B 18mm Euro Class B | FSC® and PEFC™ FSC® FSC® FSC® FSC® FSC® FSC® FSC® FSC | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C 18mm Euro Class C 25mm Euro Class C 12mm Euro Class B 18mm Euro Class B Medite 3050 x 1220 6mm Euro Class C 9mm Euro Class C | FSC® and PEFC™ FSC® FSC® FSC® FSC® FSC® FSC® FSC® FSC | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C 18mm Euro Class C 25mm Euro Class C 12mm Euro Class B 18mm Euro Class B 18mm Euro Class B Medite 3050 x 1220 6mm Euro Class C 9mm Euro Class C | FSC® and PEFC™ FSC® FSC® FSC® FSC® FSC® FSC® FSC® FSC | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C 18mm Euro Class C 25mm Euro Class C 12mm Euro Class C 12mm Euro Class B 18mm Euro Class B Medite 3050 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C | FSC® and PEFC™ FSC® FSC® FSC® FSC® FSC® FSC® FSC® FSC | |
| 9mm Medite 2440 x 1220 6mm Euro Class C 9mm Euro Class C 12mm Euro Class C 15mm Euro Class C 25mm Euro Class C 12mm Euro Class C 25mm Euro Class C 12mm Euro Class B 18mm Euro Class B 18mm Euro Class B Medite 3050 x 1220 6mm Euro Class C 9mm Euro Class C 15mm Euro Class C 15mm Euro Class C | FSC® and PEFCTM FSC® FSC® FSC® FSC® FSC® FSC® FSC® FSC | |



PLYWOOD

Plywood is a wood based panel product consisting of layers of veneers glued together, with the direction of the grain in adjacent layers at right angles. It is available in various species and qualities dependent upon the end use.

MDF

MDF is a wood based sheet material manufactured from wood fibres bonded together with a synthetic resin adhesive and suitable for a wide variety of interior uses. For more demanding situations MDF is also available in moisture resistant, flame retardant, high density and exterior grades.

PARTICLE BOARD OR CHIPBOARD

Particle Board is an engineered wood product manufactured from wood chips, shavings and/ or sawdust then pressed and bonded together with a synthetic resin. This product is mainly used as a carcassing material in the furniture trade or as a flooring product.

USEFUL TIPS

THE NEED FOR SEALING BOTH FACES AND EDGES OF WOOD BASED PANEL PRODUCTS.

Many of the problems that can beset any wood-based panel products in situ could be avoided if the faces and edges were sealed against any moisture absorbtion before being installed. Water penetration can lead to the premature failure of any wood-based panel products. Water is absorbed much faster on the edges of an unprotected panel because most of the wood exposed can be end grain.

The effect of water penetration through non protected edges/faces can lead to the following faults:

- 1. Edge swelling
- 2. Discolouration
- 3. Mould development
- 4. Staining
- 5. Delamination

It is important to remember that even where a fully exterior adhesive has been used in manufacture repeated wetting and drying of the board can give rise to splitting, cracking and delamination. When choosing a sealant the most important factor is that it is impervious to water.

PANEL PRODUCTS FOR USE IN EXTERNAL CONDITIONS

Some wood-based panel products can be used in demanding exterior conditions. However, to be fully fit for purpose they must be correctly specified, installed and maintained. The term exterior use covers a wide range of situations from where the panels may be in contact with water to where the panels are only subject to occasional wetting. There are two important concepts to consider when specifying a panel product for exterior use:

- 1. Service class
- 2. Hazard class

Service classes are used in structural design to define the environmental conditions in service which affect the mechanical performance of a panel under certain conditions.

Hazard classes deal with the risk of biological attack. Both of these classes are used to determine the suitability and correct treatment of a product for constructional purposes.

The fact that a plywood may have been manufactured with an exterior glue does not mean or imply that it is suitable for long term exposure to exterior conditions. Most situations will require a durable veneer species along with an effective coating or preservative treatment.

SPECIFYING PANEL PRODUCTS FOR STRUCTURAL USE

The most effective way of specifying a panel product for structural use is to require compliance with the harmonized standard BS EN 13986. Most panel products that are intended for structural use are internationally traded and therefore are likely to carry a CE mark. Products that meet the requirements of the structural standards should be marked FLOORS/ROOFS/WALLS. These panels should meet the requirements of BS EN 12871. For a plywood to be CE marked for Service Class 2 conditions it must comply with grade EN 636-2S.

CONVERSION TABLES

We have included the following conversion tables to help our customers make calculations between imperial and metric equivalents.

| MULTIPLY | ВҮ | TO EQUAL |
|-------------|--------|------------------|
| Inches | 25.4 | millimetres (mm) |
| | 2.54 | centimetres (cm) |
| Feet | 30.48 | centimetres (cm) |
| | 0.3048 | metres (m) |
| Yards | 0.9144 | metres (m) |
| Centimetres | 0.3937 | inches |
| Metres | 3.2808 | feet |

| EQUIVALENT PANEL SIZES | | |
|------------------------|-------------|--|
| 1220 x 610mm | 4' x 2' | |
| 1525 x 1525mm | 5' x 5' | |
| 1830 x 1220mm | 6' x 4' | |
| 1981 x 762mm | 6'6" x 2'6" | |
| 2058 x 838mm | 6'9" x 2'9" | |
| 2135 x 915mm | 7' x 3' | |
| 2440 x 1220mm | 8' x 4' | |
| 2745 x 1220mm | 9' x 4' | |
| 3050 x 1220mm | 10' x 4' | |
| 3050 x 1525mm | 10' x 5' | |
| 3660 x 1830mm | 12' x 6' | |

| THICKNESS EQUIVALENTS | | |
|-----------------------|---------|--|
| 3.6mm/4mm | 1/8" | |
| 5.5mm/6mm | 1/4" | |
| 9mm | 3/8" | |
| 12mm | 1/2" | |
| 15mm | 5/8" | |
| 18mm | 3/4" | |
| 21mm/22mm | 7/8" | |
| 24mm/25mm | 1" | |
| 27mm | 1 1/8" | |
| 30mm | 1 1/4" | |
| 32mm | 1 5/16" | |
| 35mm | 13/8" | |
| 38mm | 1 1/2" | |
| 45mm | 1 3/4" | |
| 50mm | 2" | |



MARINE PLYWOOD TO BS1088: 2003

Marine Plywood should meet the requirements of BS 1088:2003 (Marine Plywood). BS 1088 comes in two parts, Part 1 (Requirements) and Part 2 (Determination of Bonding Quality Using Knife Test). The key requirements from part 1 of BS 1088 are highlighted below. However, this is no substitute for purchasing and using the full version of the standard.

Requirements of manufacture include classification according to panel type, Standard (S) and Lightweight (LW). Standard marine plywood has veneers possessing outstanding durability with respect to fungal decay and bonding quality making it suitable for marine construction while lightweight marine plywood is of veneers from timber species of lower density/durability than those in standard marine plywood while all other requirements remain the same.

VENEER DURABILITY

Standard marine plywood as defined in BS 1088 should have outstanding resistance to bio-deterioration (durability) with time. The biological durability of marine plywood is expected to be greater than that of plywood of the same species that meets the requirements of BS EN 636-3. In this respect, Standard marine plywood should be made throughout of timbers having a durability rating of class 3, BS EN 350-2, or better and a nominal density of > 500kg/m3 and up to 5% sapwood per veneer is permitted.

NUMBER AND THICKNESS OF PLIES

According to BS 1088, Marine Plywood panels having a thickness of 6.5mm or less should have three or more plies. Panels having a thickness of greater than 6.5mm should have five or more plies. With 3-ply panels, the combined thickness of the two outer plies after sanding should be between 40% and 65% of the nominal unsanded thickness of the panel. With 5-ply panels, the combined thickness of the two outer plies after sanding, combined with those of the core and other inner plies with their grain direction parallel to the outer plies, should be between 40% and 65% of the nominal unsanded thickness of the panel. Additionally, for panels with nominal thicknesses of greater than 3.8mm, each outer ply should not be less than 1mm thick after sanding and each inner and core ply should not be more than 4.8mm thick.

MANUFACTURING DEFECTS

In accordance with BS 1088, all marine panels should not contain any of the following manufacturing defects: open joints (e.g. core gaps, overlaps and pleats, blisters, hollows, bumps and imprints), roughness (other than that due to the irregular structure of the wood), sanding through, foreign particles, defects in the edges of panels (e.g. due to sanding, sawing, missing wood).

BONDING QUALITY

All marine plywood as defined in BS 1088 should have outstanding resistance to loss of bond strength with time. When tested in accordance with BS EN 314-1, the bonding quality should meet a minimum requirement of BS EN 314-2, Bonding Class 3.

MARKING

Panels conforming to BS 1088 should be indelibly marked on the back or edge with the following information in the order shown:

- 1) The number and date of the British Standard "BS 1088-1:2003" and the word "MARINE"
- 2) The word "UNBALANCED" if panels are of unbalanced construction
- 3) The word "TREATED" if there has been any application of preservative treatment
- 4) The nominal panel thickness
- 5) The manufacturer's name or ID mark
- 6) The country of manufacture
- 7) The panel type (Standard (S) or Lightweight (LW))
- 8) The name of the timber species according to BS EN 350-2:1994

In addition, the documentation for each consignment of panels should include the marking information above and a list of all the species used in their construction and details of any preservative treatment which has been applied.

PLYWOOD STANDARDS: USEFUL DEFINITIONS

Plywood is produced in accordance with national and European standards. These standards ensure an appropriate marketing of the plywood.

1. CLASSIFICATION AND SPECIFICATION STANDARDS FOR PLYWOOD

EN 313-1

Plywood - Classification and terminology - Part 1: Classification (June 1996)

EN 313-2

Plywood - Classification and terminology - Part 2: Terminology (May 1995). Revision published in 1999.

EN 322

Wood based panels - Determination of moisture content (June 1993). (Confirmed in November 1998).

EN 635-1

Plywood - Classification by surface appearance - Part 1: General (April 1995).

EN 635-2

Plywood - Classification by surface appearance - Part 2: Hardwood (July 1995).

EN 635-3

Plywood - Classification by surface appearance - Part 3: Softwood (July 1995).

ENV 635-4

Plywood - Classification by surface appearance - Part 4: Parameters of ability for finishing, Guideline (December 1996).

EN 635-5

Plywood - Classification by surface appearance - Part 5: Methods for measuring and expressing characteristics and defects (May 1999).

EN 636

Plywood - Specifications (Published in 2003).

This European Standard specifies the requirements for plywood for general purposes or structural application in dry, humid or exterior conditions. It also gives a classification system based on bending properties.

EN 12369-2

Wood-based panels - Characteristic values for structural design - Part 2: Plywood (2004).

ENV 14272

Plywood - Calculation method for the determination of some mechanical properties (2002).



2. TEST METHODS SPECIFIC TO PLYWOOD

EN 314-1

Plywood - Bonding quality - Part 1: Test methods (June 1993). Revision published in 2004.

EN 314-2

Plywood - Bonding quality - Part 2: Requirements (June 1993).

EN 315

Plywood - Tolerances for dimensions (June 1993). Revision published in 2000.

EN 1072

Plywood – Description of the bending properties for structural plywood. (November 1995).

ENV 1099

Plywood - Biological durability - Guidance for the assessment of plywood for use in different hazard classes (February 1998).

3. GENERAL STANDARDS APPLICABLE TO PLYWOOD

EN 322

Wood based panels - Determination of moisture content (June 1993). (Confirmed in November 1993).

EN 323

Wood based panels – Determination of density (June 1993) (Confirmed in 1998).

EN 310

Wood based panels- Determination of modulus of elasticity in bending and of bending strength (June 1993) (Confirmed in November 1998).

EN 324-1

Wood-based panels - Determination of dimensions of boards - Part 1: Determination of thickness, width and length (June 1993). (Confirmed in November 1998).

EN 324-2

Wood-based panels - Determination of dimensions of boards - Part 2: Determination of squareness and edge straightness (June 1993). (Confirmed in November 1998).

EN 717-1

Wood-based panels - Determination of formaldehyde release - Part 1: Formaldehyde release - Part 1: Formaldehyde emission by the chamber method (Published in 2004).

EN 717-2

Wood -based panels - Determination of formaldehyde release - Part 2: Formaldehyde release by the gas analysis method (April 1995). (Corrigendum published in 2002).

EN 717-

Wood-based panels - Determination of formaldehyde release - Part 3: Formaldehyde release by the flask method (May 1996).

ENV 1156

Wood-based panels - Determination of duration of load and creep factors (May 1999).

EN 13986

Harmonized standard -Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking. (2004)

FN 318

Wood-based panels - Determination of dimensional changes associated with changes in relative humidity. (Revision published in 2002).

EN 12871

Wood-based panels - Performance specifications and requirements for load bearing boards for use in floors, walls and roofs (Published in 2001).

ENV 12872

Wood-based panels- Guidance on the use of wood bearing boards in floors, walls and roofs (2000).

EN 13879

Wood-based panels - Determination of edgewise bending properties (2002).

EN 13810-1

Wood-based panels - Floating floors - Part 1: Performance specifications and requirements (2002).

DD CEN/TS 13810-2

Wood-based panels - Floating floors - Part 2: Test methods (Published in 2003).

Further standardisation at the global level is done within ISO (International Standard Organisation). These standards are in general equivalent to the corresponding European standards.

EN 314-2: 1993 – PLYWOOD — BONDING QUALITY, REQUIREMENTS

EN 636: 2003 - PLYWOOD - SPECIFICATIONS

There are only two material components in plywood: wood & glue. How these components interact will ultimately define how the plywood performs. These two standards provide a relatively straightforward way of classifying the outcome.

EN 314-2:1993 PLYWOOD - BONDING QUALITY,

classifies plywood by bonding quality only and gives rise to 3 bond classes dependent upon the intended end use. Bonding quality is determined by the adhesive type and core veneer quality (physical defects such as knot holes and splits).

(Bond) Class I: suitable for dry interior use only (Bond) Class II: suitable for use in humid areas or exposure to occasional wetting (Bond) Class III: suitable for unprotected exterior use or exposure to frequent wetting.

Following exposure to a simulated hostile weather environment, accelerated in a laboratory, plywood is tested to destruction to assess how well the bond has survived the weathering process. Once bonding quality has been established to EN314, assessment to EN636 can begin.

EN 636: 2003, PLYWOOD — SPECIFICATIONS,

classifies plywood by taking into account the bond quality AND the biological durability* of the wood species used in the plywood:

EN636-1: suitable for dry interior use only EN636-2: suitable for use in humid areas or exposure to occasional wetting EN636-3: suitable for unprotected exterior use or exposure to frequent wetting

EN314 and EN636 are harmonised standards, so, to achieve EN636 Class II (frequently labelled EN636-2) the bonding quality, as a minimum, must be EN314 Class II. Some plywoods have a bonding quality of EN314 Class III but, because of limited biological durability of the timber species, can only achieve EN636-2. This is precisely the case with softwood plywood.

It is worth bearing in mind that, provided the EN314 bonding is Class III to start with, an otherwise EN636-2 plywood can be upgraded to EN636-3 by preservative treatment, to treatment class T3 (DD CEN/TS 1099:2007).

Most of the plywood sold in the UK will achieve EN314 Bond Class III yet, when assessed to EN636, will achieve EN636-2, because of limited biological durability of the wood. Exceptions to this might include Tropical Hardwood Throughout Plywood and Marine Grade Plywood, provided no sapwood is present. Sapwood is, however, difficult to eliminate.

* Biological Durability means: the natural capacity of the wood to resist the detrimental effects of fungal decay (rot) and beetle larvae (woodworm).



PLYWOOD IN CONSTRUCTION: INTRODUCTION

PLYWOOD is a widely used and well proven construction material made from a combination of wood veneers and resins

SPECIFYING CONSTRUCTIONAL PLYWOOD

There are two types of Constructional Plywood:

STRUCTURAL PLYWOOD: Structural Plywood has proof of strength performance provided by the Supplier in addition to other product performance information

GENERAL PLYWOOD: General Plywood has product performance information provided by the supplier but this will not include strength performance data and so should not be used in a structural application.

Both types of constructional plywood can be used in the three end use classes for plywood defined in the European Standard EN 636 as shown in below. The standard specifies the requirements for plywood for general purposes or structural application in dry, humid or exterior conditions.

Exterior Use - Permanently outside exposed to the weather:

STRUCTURAL EN 636-3 S GENERAL EN 636-3 G

Humid Use - Most construction uses fall into this category as they are covered or rarely exposed to weather, but still at risk of wetting:

STRUCTURAL EN 636-2 S GENERAL EN 636-2 G

Dry Use - Interior with no risk of wetting:

STRUCTURAL EN 636-1 S GENERAL EN 636-1 G

The most common types of plywood available for use in UK construction are structural plywood for humid uses (EN 636-2S) and general plywood for humid uses (EN 636-2G). These types of plywood are made from durable resins which are suitable for most construction uses.

Plywood for Exterior use is also available but may be less cost effective as both the resins and the wood veneers within the product must be durable in the long term. There is also a special type of exterior Plywood called Marine Plywood which has its own British standard BS 1088 2003, and as the name suggests must be durable enough to endure regular exposure to extreme weather conditions. However, Marine Plywood rarely has proof of strength performance provided by the supplier and so should not be used load bearing construction uses, unless this strength data is provided.

CONSTRUCTION PRODUCTS REGULATION

The construction industry is facing the most significant change for a decade in the way in which construction products are sold in Europe. From 1 July 2013, under the Construction Products Regulation (CPR), it will become mandatory for manufacturers to draw up a declaration of performance and apply CE marking to any of their construction products which is covered by a harmonised European standard for wood based panel products EN13986 when such a product is placed on the market. By definition a construction product is any product which is produced and placed on the market for incorporation in a permanent manner in construction works or parts thereof and the performance of which has an effect on the performance of the construction works with respect to the basic requirements for construction works. This is a major change as affixing of CE marking under the provisions of the existing Construction Products Directive (CPD) is currently voluntary in the UK. For those already CE marking under the CPD the transition should be straightforward. This publication is intended as a guide to the implications of CE marking under the CPR for manufacturers, importers, distributors, specifiers, certification and test bodies, and regulatory/enforcement authorities. The Regulation is directly applicable in UK law.

The CPR builds upon the CPD and aims to break down technical barriers to trade in construction products within the European Economic Area (EEA). To achieve this, the CPR provides for four main elements:

- a system of harmonised technical specifications
- an agreed system of conformity assessment for each product family
- · a framework of notified bodies
- · CE marking of products.

The CPR harmonises the methods of assessment and test, the means of declaration of product performance and the system of conformity assessment of construction products, but NOT national building regulations. The choice of required values for the particular intended use is left to the regulators and public / private sector procurers at the national level. However, such required values must be expressed in a consistent manner (technical language) as used in the harmonised technical specifications.

