

*Arnold Laver*  
**Plywood Guide**









# Elliottis Pine Plywood Structural Grade



## **Elliottis Pine Plywood Structural Grade**

Elliottis plywood is a multi-use plywood manufactured from a single species of Elliottis pine and is used in structural applications such as hoarding, shuttering, packaging, structural & non-structural building work.

The front face of the veneered board contains knots which are filled and sanded to give a smooth finish, whilst the reverse face has open knots, leaving a slightly uneven finish. The directional grain of the face and reverse veneers is almost always in the direction of the longest dimension.

Alternatively known as: shuttering plywood, roofing plywood, sheathing plywood.

Note: Keep boards out of wet conditions during construction work.

## **Structural Composition**

Country of Origin	Brazil
Timber Species	Elliottis Pine
Structural Grade	CE2+
Face Veneer Grade	C+
Reverse Veneer Grade	C
Release of Formaldehyde Standard	E1
Glue Line Standard	EN 314-2 Class 3
Durability Standard	EN 636-2 S
Harmonized Standard	EN 13986: 2004
Surface Appearance Standard	EN 635-3
Certification	FSC® Certified

## **Dimensions / Pack Qty**

2440 x 1220 x 24mm		(37ppp)	2440 x 1220 x 12mm		(75ppp)
2440 x 1220 x 18mm		(50ppp)	2440 x 1220 x 9mm		(100ppp)

# Elliottis Pine Plywood Structural Grade BCX



Note: Image is for illustration purposes only.  
Product can be supplied sealed on all four edges.

## **Elliottis Pine Plywood Structural Grade BCX (Good One Side)**

Elliottis plywood (or BCX plywood) is made from Elliottis pine and is suitable for applications such as hoarding, shuttering, packaging, structural & non-structural building work.

BCX plywood has a smooth, well-sanded finish to the front face, with the reverse face has a slightly uneven finish whereby plywood plugs replace the knot holes. The face and reverse veneers are almost always oriented in the direction of the longest dimension.

Note: Keep panels out of wet conditions during construction work.

## **Structural Composition**

Country of Origin	Brazil
Timber Species	Elliottis Pine
Structural Grade	CE2+
Face Veneer Grade	B
Reverse Veneer Grade	C
Release of Formaldehyde Standard	E1
Glue Line Standard	EN 314-2 Class 3
Durability Standard	EN 636-2 S
Harmonized Standard	EN 13986: 2004
Surface Appearance Standard	EN 635-3
Certification	FSC® Certified

## **Dimensions / Pack Qty**

2440 x 1220 x 18mm | (50ppp)

# WISA-Spruce Softwood Plywood Structural Grade



## WISA-Spruce Softwood Plywood Structural Grade

WISA-Spruce is a truly versatile plywood panel for numerous end uses. The panel is light in weight yet strong and rigid – therefore most suitable in structural uses and load bearing applications like roofing, flooring, wall sheathing, packaging and joinery.

The wide size range with several thicknesses and sizes, the CNC machining possibilities in addition to three different surface qualities widen the usage potential beyond traditional end uses. Moreover, a key aspect is the sustainability of the product as it is made from sustainably certified Nordic Spruce and meets all the relevant sustainability requirements.

Note: Panels should be stored in a covered and dry place and to be kept flat.

## Structural Composition

Country of Origin	Finland
Timber Species	Spruce
Structural Grade	CE2+
Face Veneer Grade	11
Reverse Veneer Grade	111
Release of Formaldehyde Standard	E1
Glue Line Standard	EN 314-2 Class 3
Durability Standard	EN 636-2 S
Harmonized Standard	EN 13986: 2004
Surface Appearance Standard	EN 635-3
Certification	FSC® Certified / PEFC Certified

## Dimensions / Pack Qty

2440 x 1220 x 24mm	(40ppp)	2440 x 1220 x 12mm	(75ppp)
2440 x 1220 x 18mm	(50ppp)	2440 x 1220 x 9mm	(100ppp)
2440 x 1220 x 15mm	(60ppp)	2440 x 600 x 18mm TG4	(100ppp)
2440 x 600 x 22mm TG4	(82pp)		

# Hardwood Faced Plywood Structural Grade



## Hardwood Faced Plywood Structural Grade

Hardwood faced structural plywood is used in permanent structures where the board is likely to be used in humid or interior conditions. This high-grade structural panel is less prone to bending and twisting and with its great strength to weight ratio, makes it versatile and easy to handle. This general-purpose utility grade plywood is suitable for a wide range of applications.

This plywood has hardwood faced veneers and a core that comprises of mixed light hardwoods, Poplar or a combination of these.

Note: Suitable for humid conditions but not fully permanent exterior conditions.

## Structural Composition

Country of Origin	China
Timber Species (face)	Eucalyptus / Mixed Red Hardwood
Structural Grade	CE2+ (except in 3.6mm / 5.5mm which is CE4)
Face Veneer Grade	B
Reverse Veneer Grade	BB
Core Veneer Species	Eucalyptus / Poplar
Release of Formaldehyde Standard	E1
Glue Line Standard	EN 314-2 Class 2
Durability Standard	EN 636-2
Harmonized Standard	EN 13986: 2004
Surface Appearance Standard	EN 635-3
Certification	Non-Certified / FSC® Certified

## Dimensions / Pack Qty

2440 x 1220 x 25mm	(36ppp)	2440 x 1220 x 12mm	(75ppp)
2440 x 1220 x 22mm	(40ppp)	2440 x 1220 x 9mm	(100ppp)
2440 x 1220 x 18mm	(50ppp)	2440 x 1220 x 5.5mm	(165ppp)
2440 x 1220 x 15mm	(60ppp)	2440 x 1220 x 3.6mm	(250ppp)

# Hardwood Faced Plywood

## Structural Grade

### 72-hour Glued or TRADA Q Mark Verified



#### Hardwood Faced Plywood Structural Grade: 72-hour glued or TRADA Q Mark Verified

72-hour Hardwood faced plywood is used in permanent structures where the board is likely to be used in exposed conditions. This high-grade structural panel is less prone to bending and twisting and with its great strength to weight ratio, makes it versatile and easy to handle. This type of plywood is suitable for a range of applications including flooring, beams, roofing, formworks, soffit and fascias.

Structural grade hardwood plywood is manufactured using a eucalyptus core with a mixed red hardwood backing veneer to the front face and reverse face of the panel.

Note: Keep panels out of wet conditions during construction work. All exterior plywood should be sealed on all faces / edges to ensure longevity in use.

#### Structural Composition

Country of Origin	China
Timber Species (face)	Eucalyptus / Mixed Red Hardwood
Structural Grade	CE2+ (except in 3.6mm / 5.5mm which is CE4)
Face Veneer Grade	B
Reverse Veneer Grade	BB
Core Veneer Species	Eucalyptus / Mixed Light Hardwood
Release of Formaldehyde Standard	E1
Glue Line Standard	EN 314-2 Class 3
Durability Standard	EN 636-3
Harmonized Standard	EN 13986: 2004
Surface Appearance Standard	EN 635-3
Certification	FSC® Certified

#### Dimensions / Pack Qty

2440 x 1220 x 25mm	(36ppp)	2440 x 1220 x 12mm	(75ppp)
2440 x 1220 x 22mm	(40ppp)	2440 x 1220 x 9mm	(100ppp)
2440 x 1220 x 18mm	(50ppp)	2440 x 1220 x 5.5mm	(165ppp)
2440 x 1220 x 15mm	(60ppp)	2440 x 1220 x 3.6mm	(250ppp)



# Far Eastern Hardwood Plywood Structural Grade



## Far Eastern Hardwood Plywood Structural Grade

Far Eastern hardwood plywood is used in permanent structures where the board is likely to be used in exposed conditions. This high-grade structural panel is less prone to bending and twisting and with its great strength to weight ratio, makes it versatile and easy to handle. This type of plywood is suitable for a range of applications including flooring, beams, roofing, formworks, soffit and fascias.

Note: Keep panels out of wet conditions during construction work. All exterior plywood should be sealed on all faces / edges to ensure longevity in use.

## Structural Composition

Country of Origin	Malaysia / Indonesia
Timber Species (face)	Mixed Red Hardwood
Structural Grade	CE2+ (except in 3.6mm / 5.5mm which is CE4)
Face Veneer Grade	BB
Reverse Veneer Grade	CC
Core Veneer Species	Mixed Light Hardwood (Pine if FSC® Certified)
Release of Formaldehyde Standard	E1
Glue Line Standard	EN 314-2 Class 3
Durability Standard	EN 636-3
Harmonized Standard	EN 13986: 2004
Surface Appearance Standard	EN 635-3
Certification	PEFC Certified / FSC® Certified

## Dimensions / Pack Qty

2440 x 1220 x 25mm		(36ppp)	2440 x 1220 x 12mm		(75ppp)
2440 x 1220 x 22mm		(40ppp)	2440 x 1220 x 9mm		(100ppp)
2440 x 1220 x 18mm		(50ppp)	2440 x 1220 x 5.5mm		(165ppp)
2440 x 1220 x 15mm		(60ppp)	2440 x 1220 x 3.6mm		(250ppp)



# Hardwood Marine Plywood (Third Party Verified BS 1088)



## Hardwood Marine Plywood (Third Party Verified BS 1088)

Marine plywood is manufactured from durable face and core veneers, with few defects so it performs longer in both humid and wet conditions and resists delaminating and fungal attack and is especially suited for use in the ship and boat building industries.

Its construction is such that it can be used in environments where it is exposed to moisture for long periods and where veneer durability is key such as trailer / van linings, external joinery, walkways and temporary structures.

Note: Seal and protect panels on faces and all edges before installation to increase performance and service life.

## Structural Composition

Country of Origin	Malaysia / Indonesia
Timber Species (face)	Selected Durable Hardwood
Structural Grade	CE2+
Face Veneer Grade	BB
Reverse Veneer Grade	CC
Core Veneer Species	Selected Durable Hardwood
Release of Formaldehyde Standard	E1
Glue Line Standard	EN 314-2 Class 3
Durability Standard	EN 636-3
Harmonized Standard	EN 13986: 2004
Surface Appearance Standard	EN 635-2
Certification	PEFC Certified / SVLK / FSC® Certified

## Dimensions / Pack Qty

2440 x 1220 x 25mm		(36ppp)	2440 x 1220 x 9mm		(100ppp)
2440 x 1220 x 18mm		(50ppp)	2440 x 1220 x 6mm		(150ppp)
2440 x 1220 x 12mm		(75ppp)			

# Birch Plywood



## Birch Plywood

Birch plywood is a high-quality panel with excellent physical properties. The smooth surface and durability of the panel makes it a perfect choice for various end uses. Birch plywood is known for its high-quality finish and makes it ideal for a range of applications, both interior and exterior, including furniture, joinery, sports equipment, toy making as well as building and construction.

Birch plywood is constructed using a Birch core with Birch veneers used as a backing to the front face and reverse face of the panel.

Note: Seal and protect panels before installation to ensure best performance in an external application.

## Structural Composition

Country of Origin	Russia / Latvia / Finland
Timber Species	Birch
Structural Grade	CE2+
Face Veneer Grade	B / S+ / BB / CP / C
Reverse Veneer Grade	BB / CP / C
Core Veneer Species	Birch
Release of Formaldehyde Standard	E1
Glue Line Standard	EN 314-2 Class 3
Durability Standard	EN 636-2
Harmonized Standard	EN 13986 +A1:2015
Surface Appearance Standard	EN 635-2
Certification	FSC® Certified

## Dimensions / Pack Qty

2440 x 1220 x 24mm	2440 x 1220 x 15mm	2440 x 1220 x 6mm
2440 x 1220 x 21mm	2440 x 1220 x 12mm	2440 x 1220 x 4mm
2440 x 1220 x 18mm		

Also available in large sheet format (1525 x 3050mm) and Interior Birch squares (1525 x 1525mm)  
Pack quantities vary according to country of origin / manufacturing mill



# Oriented Strand Board (OSB3)



## **Oriented Strand Board (OSB)**

OSB is a dimensionally stable and strong engineered wood panel, which with the combination of wood and adhesives creates a natural resistance to delamination and warping.

OSB is a versatile, strong and cost-effective panel ideal for use in structural and non-structural applications like roofing, flooring, site hoarding and wall sheathing as well as furniture, garden sheds and van linings.

OSB is made up of small thin strands of wood compressed into layers to form a mat. It has good dimensional stability with no knots or voids in the structure and is a lightweight panel with great load-bearing qualities, making it easy to install.

## **Structural Composition**

Country of Origin	UK / Ireland / Various EU countries
Timber Species	Picea Abies / Pinus Sylvestris
Structural Grade	CE2+
Release of Formaldehyde Standard	E1
Harmonized Standard	BS EN300 (OSB3 – Load bearing boards for use in humid conditions)
Certification	FSC® Certified

## **Dimensions / Pack Qty**

2440 x 1220 x 18mm	(50ppp)	2397 x 1197 x 18mm	(50ppp)
2440 x 1220 x 15mm	(60ppp)	2397 x 1197 x 15mm	(60ppp)
2440 x 1220 x 11mm	(82ppp)	2397 x 1197 x 11mm	(82ppp)
2440 x 1220 x 9mm	(100ppp)	2397 x 1197 x 9mm	(100ppp)
2440 x 600 x 18mm TG4	(100ppp)		

Also available in pre-coated site hoarding panels and machined grooved panels for plasterboard backing.

# Formwork Plywood



Note: Image is for illustration purposes only.  
Pourform 107 is supplied sealed on all four edges.

## Formwork Plywood

A wide range of plywoods are available for formwork applications. The type of plywood solution is dependent on the concrete finish required, and the number of re-uses required from the formwork plywood.

The following table contains general information on our formwork offering with links to specific manufacturers' websites for more detailed information on each type of formwork solution.

Further information on our formwork range can also be supplied by your local Sales Representative.

PRODUCT	DESCRIPTION	WEB LINKS
<a href="#">Arnold Laver Formworks Offer</a>	Formwork brochure	<a href="https://www.laver.co.uk/files/mydocs/downloads/formwork_bro.pdf">https://www.laver.co.uk/files/mydocs/downloads/formwork_bro.pdf</a>
<a href="#">Plastform MDO</a>	Radiata Pine (Brazilian) plywood core	<a href="http://www.thomasi.com.br/en-us/produtos/plastform-mdo-333/">http://www.thomasi.com.br/en-us/produtos/plastform-mdo-333/</a>
<a href="#">Pourform 107 MDO</a>	Douglas Fir (Canadian) plywood core	<a href="http://savonaspecialtyplywood.com/product-list/trim-blocks/">http://savonaspecialtyplywood.com/product-list/trim-blocks/</a>
<a href="#">Tulsa MDO and GIS BCX</a>	Radiata Pine (Chilean) plywood core	<a href="https://www.tulsaplywood.cl/productos-1">https://www.tulsaplywood.cl/productos-1</a>
<a href="#">Tulsa-Film</a>	Radiata Pine (Chilean) plywood core	<a href="http://www.tulsa.cl/ingles/filmstandard.php">http://www.tulsa.cl/ingles/filmstandard.php</a>
<a href="#">Ultraform MDO</a>	Douglas Fir (Canadian) plywood core	<a href="http://www.richply.com/pdf/Ultraform-Canada-English.pdf">http://www.richply.com/pdf/Ultraform-Canada-English.pdf</a>
<a href="#">Wisa</a>	Product catalogue	<a href="https://www.wisaplywood.com/downloads/brochures/?tag=233899">https://www.wisaplywood.com/downloads/brochures/?tag=233899</a>
<a href="#">Wisa Beto Film</a>	Spruce (European) plywood core	<a href="https://www.wisaplywood.com/products/product-catalogue/wisa-form-beto/">https://www.wisaplywood.com/products/product-catalogue/wisa-form-beto/</a>
<a href="#">Wisa Form Slab</a>	Spruce (European) plywood core	<a href="https://www.wisaplywood.com/products/product-catalogue/wisa-form-slab/">https://www.wisaplywood.com/products/product-catalogue/wisa-form-slab/</a>
<a href="#">Wisa MDO</a>	Spruce (European) plywood core	<a href="https://www.wisaplywood.com/products/product-catalogue/wisa-form-mdo/">https://www.wisaplywood.com/products/product-catalogue/wisa-form-mdo/</a>
<a href="#">Wisa Spruce</a>	Spruce (European) plywood core	<a href="https://www.wisaplywood.com/products/product-catalogue/wisa-spruce/">https://www.wisaplywood.com/products/product-catalogue/wisa-spruce/</a>
<a href="#">Wisa</a>	UPM WISA Site Guidance Brochures	<a href="http://www.wisaplywood.com/downloads/brochures/">www.wisaplywood.com/downloads/brochures/</a>



# Glossary of Key Terms

<u>BS EN300</u>	Definition classification & specification
<u>CE2+</u>	For use in structural applications
<u>CE4</u>	For use in non-structural applications (in construction)
<u>E1</u>	Lower formaldehyde level
<u>E2</u>	Higher formaldehyde level
<u>EN636</u>	Classification of moisture resistance (wood species)
<u>EN636 – 1</u>	Suitable for use in Class 1 dry interior application only - where there is no exposure to moisture during construction
<u>EN636 – 2</u>	Suitable for use in Class 1 & 2 humid interior or covered exterior application offering limited resistance to moisture during construction phase
<u>EN636 – 3</u>	Suitable for use in Class 1, 2 & 3 for structural applications for interior and exterior construction offering resistance to weather during construction phase
<u>EN314-2</u>	Classification of bonding quality
<u>EN314-2 Class 1</u>	Dry conditions. Appropriate for normal interior climate
<u>EN314-2 Class 2</u>	Humid conditions. Appropriate for protected external applications, it is capable of resisting weather exposure for short periods of time
<u>EN314-2 Class 3</u>	Exterior conditions. Capable of withstanding exposure to weathering conditions

**NOTE: If using plywood in an exterior application, all plywood must firstly be sealed on all faces and edges**

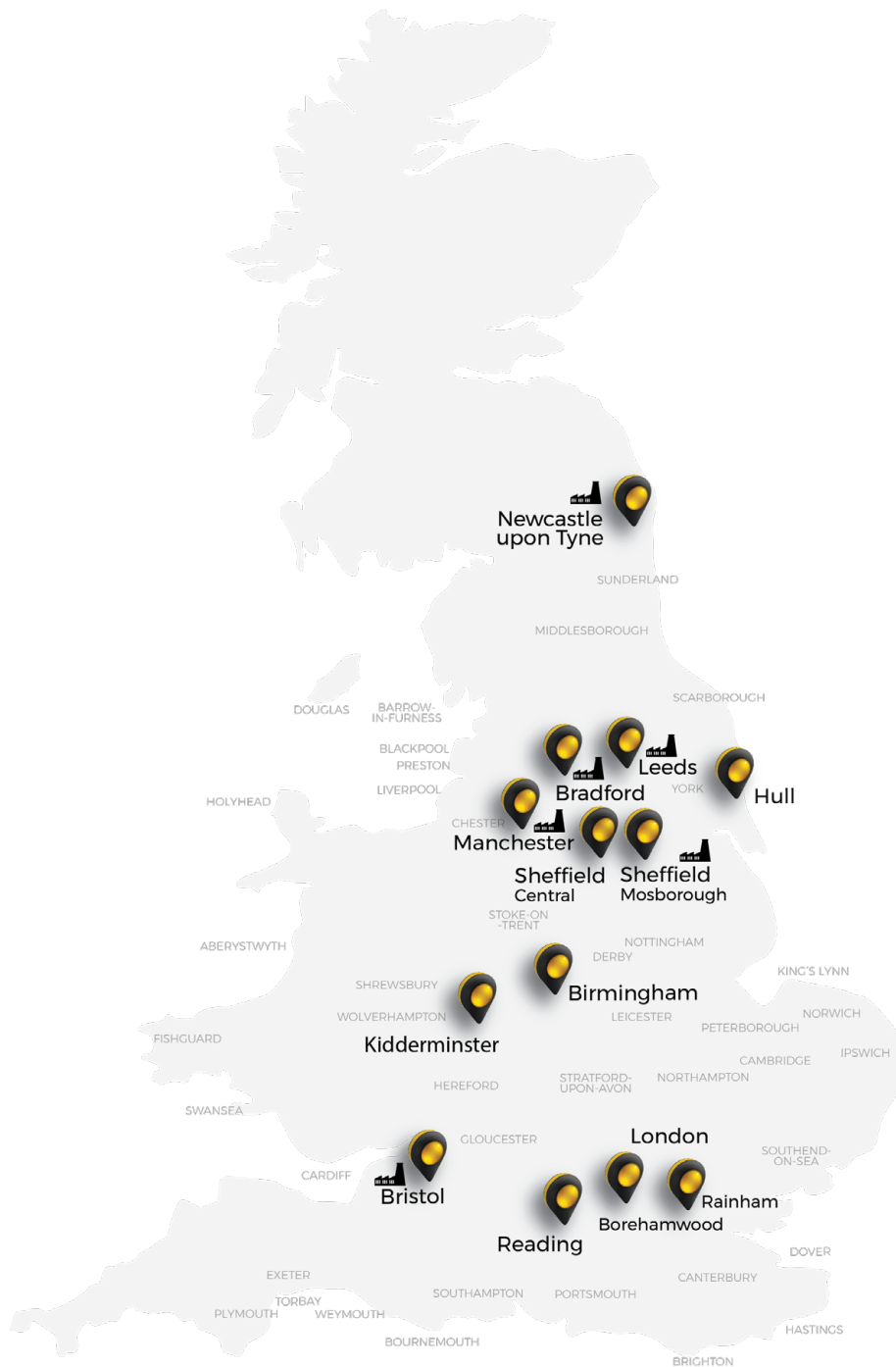
<u>ENVIRONMENTAL CERTIFICATION</u>	
<u>FSC®</u>	Forest Stewardship Council (scheme certifying sustainability)
<u>PEFC</u>	Programme for Endorsement of Forest Certification
<u>MTCS / MTCC</u>	Malaysian Timber Certification Scheme
<u>SVLK</u>	Indonesian Timber Legality Assurance System



FSC® Certified timber from sustainable sources.  
Look for products which state FSC® Certified.



# Where to find us



Manufacturing Sites

## **Birmingham**

Dudley Road, Oldbury  
West Midlands B69 3DA  
T: 0121 552 7788 E: [birmingham@laver.co.uk](mailto:birmingham@laver.co.uk)

## **Bradford**

Canal Road, Bradford  
West Yorkshire BD2 1AR  
T: 01274 732861 E: [bradford@laver.co.uk](mailto:bradford@laver.co.uk)

## **Bristol**

Brabazon Hangar, West Bay  
Filton, Bristol BS34 7QS  
T: 0117 312 1160 E: [bristol@laver.co.uk](mailto:bristol@laver.co.uk)

## **Hull**

Crowle Street,  
Hull HU9 1RH  
T: 01482 761220 E: [hull@laver.co.uk](mailto:hull@laver.co.uk)

## **Kidderminster**

Firs Trading Estate, Oldington Lane  
Kidderminster DY11 7QN  
T: 01562 66557 E: [kidderminster@laver.co.uk](mailto:kidderminster@laver.co.uk)

## **Leeds**

Pontefract Road  
Leeds LS10 1SW  
T: 0113 270 4086 E: [leeds@laver.co.uk](mailto:leeds@laver.co.uk)

## **London – Borehamwood**

Hertsmere Industrial Park, Chester Road  
Borehamwood, Hertfordshire WD6 1WS  
T: 01923 336666 E: [borehamwood@laver.co.uk](mailto:borehamwood@laver.co.uk)

## **London – Rainham**

124 New Road, Rainham  
Essex RM13 8RS  
T: 01708 529500 E: [london@laver.co.uk](mailto:london@laver.co.uk)

## **Manchester**

Liverpool Road  
Cadishead M44 5BZ  
T: 0161 777 9000 E: [manchester@laver.co.uk](mailto:manchester@laver.co.uk)

## **Newcastle**

Wagonway Road  
Hebburn NE31 1SP  
T: 0191 428 6666 E: [newcastle@laver.co.uk](mailto:newcastle@laver.co.uk)

## **Reading**

Basingstoke Road  
Reading RG2 0QN  
T: 0118 975 1100 E: [reading@laver.co.uk](mailto:reading@laver.co.uk)

## **Sheffield Central**

Little London Road  
Sheffield S8 0UH  
T: 0114 255 7341 E: [sheffieldcentral@laver.co.uk](mailto:sheffieldcentral@laver.co.uk)

## **Sheffield Mosborough**

Oxclose Park Road North  
Sheffield S20 8GN  
T: 0114 276 4800 E: [sheffield@laver.co.uk](mailto:sheffield@laver.co.uk)

To request a sample of one of our Plywood products email us at [samples@laver.co.uk](mailto:samples@laver.co.uk)







*Arnold Laver*

T: 0843 382 1920

E: [enquiries@laver.co.uk](mailto:enquiries@laver.co.uk)

[laver.co.uk](http://laver.co.uk)