

# The Plywood Specifiers Guide

Birch Plywood



## PLYWOOD SUITED TO YOUR APPLICATION



### **An extensive range of birch plywood supported by specific technical information such as loading/strength data**

Plywood sheets comprising of birch veneers throughout which produces the most versatile of products. Suitable for applications such as; general construction, defined engineered structures, decorative panelling/furniture etc.

Birch as a species is pale or yellow coloured and very dense with short wood fibres. Its distribution is continuous throughout Europe.

Common birch is a medium-sized, deciduous tree that colonises open areas quickly through the use of its abundantly produced seeds. It is most abundant in Northern Europe.

Hanson Plywood source birch plywood from Finland, Poland and Latvia with the TDUK Responsible Purchasing Policy being applied in full.

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## B/S+ Face\*

The highest quality birch plywood commercially available. Solid veneers with limited discolouration, no open defects or plug repairs. Suitable for high quality paint, stain or lacquer finish where the end product is intended to be open to display.

\*Sometimes referred to as S+ grade dependant on manufacturer.



## BB Face

Mainly solid veneers with only small repaired veneer splits and pin knots allowed. Larger open knots are repaired with wooden plugs/patches.

The shape of the plug repair can be described as 'oval' or 'butterfly' dependant on manufacturer and the number of repairs is limited to eight per square metre. Some solid light and dark knots are admissible. Generally considered as 'paint grade' and used where a solid surface is needed but the visual aspects are not so critical.



## CP Face

Generally as BB grade but with the possibility of a greater number of repairs, open defects and discolouration. This grade can also arise from the rejects of higher grades. Suitable for applications where a strong, stable core is needed but where it is accepted the face quality can vary.



## C Face

The lowest quality birch plywood. Usually unsanded and allows unlimited open defects. Suitable for applications where a strong, stable core is needed but face grade is not important.



# BIRCH



Birch plywood manufactured with quality and consistency in mind. Suitable for a multitude of structural and decorative applications











**H** Birch Plywood is suitable for use in both interior and exterior applications. With a selection of grading options on surface quality and array of thicknesses and sheet sizes, the product range allows a defined route to your specific requirements.

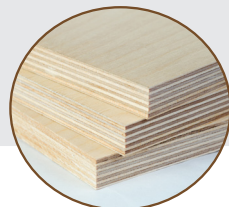
Birch veneers are bonded with an exterior, phenol-formaldehyde glue, allowing panels to be used in most humid environments and, if fully sealed, in many exterior uses.

## SPECIFICATION DETAIL

<b>Thickness range (mm)</b>	4 6 6.5 8 9 12 15 18 21 24 27 30 35 50
<b>Number of veneer layers</b>	3 5 5 6/7 7 9 11 13 15 17 19 21 25 36
<b>Dimensions (mm)</b>	2440 x 1220 ◆ 1220 x 2440 ◆ 1525 x 1525 ◆
<b>Average Density</b>	Approx. 700 kg/m <sup>3</sup>
<b>Product Classification</b>	EN 636-2
<b>Glue Bond</b>	EN 314-2 Class 3
<b>Formaldehyde Class</b>	E1 (CARB Phase 2 available on request)
<b>Moisture Content</b>	8%-10% at manufacture
<b>Face Grade Options</b>	B/BB, S+/BB, BB, BB/CP, CP, C
<b>Core</b>	Uniform and consistent core construction
<b>Chain of Custody Status</b>	FSC® or PEFC™ subject to availability
<b>DOP (Declaration of Performance)</b>	Available on request
<b>CE Marked</b>	BS EN 13986
<b>Material Safety Data Sheet</b>	Available on request

## APPLICATIONS

-  WALL PANNELLING
-  CONSTRUCTION/JOINERY
-  FURNITURE
-  SHOP/BAR FITTING
-  PACKAGING
-  VEHICLE BODY BUILDING
-  SHIP/BOAT BUILDING
-  TOY/MODEL MAKING
-  STAGING/EXHIBITIONS
-  THEATRE SETS



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## BIRCH LASER

Birch throughout plywood ideal for machining, routing and cutting for internal applications

**H** Laser Birch Plywood is a multiply, cross banded plywood made entirely from Birch veneers. The varied range of face qualities, thickness and sheet sizes available allows us to supply the ideal product to cover your needs.

An interior glue line means that Laser Birch Plywood is bonded with a colourless, urea-formaldehyde glue which allows clean, burn-free cutting when cut with a laser and also allows use where a clear end grain is required.

### SPECIFICATION DETAIL

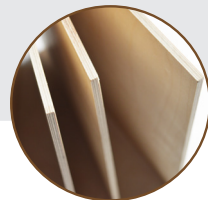
<b>Thickness range(mm)</b>	3 4 5 6 6.5 8 9 12 15 18 21 24
<b>Number of veneer layers</b>	3 3 5 5 6 6/7 7 9 11 13 15 17
<b>Dimensions (mm)</b>	2440 x 1220 ◆ 1525 x 1525 ◆ 1525 x 1220
<b>Average Density</b>	Approx. 700 kg/m <sup>3</sup>
<b>Product Classification</b>	EN 636-1
<b>Glue Bond</b>	EN 314-2 Class 1
<b>Formaldehyde Class</b>	E1 (CARB Phase 2 available on request)
<b>Moisture Content</b>	8%-10% at manufacture
<b>Face Grade Options</b>	BB
<b>Core</b>	Uniform and consistent core construction
<b>Chain of Custody Status</b>	FSC® or PEFC subject to availability
<b>DOP (Declaration of Performance)</b>	Available on request
<b>CE Marked</b>	BS EN 13986
<b>Material Safety Data Sheet</b>	Available on request

### APPLICATIONS

-  LASER/DIE CUTTING
-  TOY/MODEL MAKING
-  WALL PANNELLING
-  CONSTRUCTION/JOINERY
-  FURNITURE
-  SHOP/BAR FITTING
-  PACKAGING
-  VEHICLE BODY BUILDING
-  SHIP/BOAT BUILDING
-  STAGING/EXHIBITIONS
-  THEATRE SETS



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## SPECIAL COATED









Strong, stable, cross banded, exterior glued birch throughout plywood. Coated with a tough durable phenolic overlay and in most cases acrylic edge sealing

The Phenol coating on our **HH** Special Coated Plywood comes in a range of colours and is hot pressed to give both smooth and patterned faces. These can then be used in a wide and varied range of applications where durability, toughness, slip-resistance and resistance to chemicals and other liquids are of the up-most importance.

### SPECIFICATION DETAIL

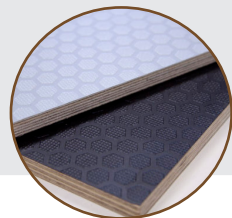
<b>Thickness range(mm)</b>	6 6.5 9 12 15 18 21 24 27
<b>Number of veneer layers</b>	5 5 7 9 11 13 15 17 19
<b>Dimensions (mm)</b>	1220 x 2500 ♦ 1220 x 2440 ♦ 1525 x 3050
<b>Average Density</b>	Approx. 700 kg/m <sup>3</sup>
<b>Product Classification</b>	EN 636-2
<b>Glue Bond</b>	EN 314-2 Class 3
<b>Formaldehyde Class</b>	E1
<b>Moisture Content</b>	8%-10% at manufacture
<b>Film Patterns</b>	Smooth, Mesh, Diamond, Hexa
<b>Film Colours</b>	Black, dark brown, grey
<b>Core</b>	Uniform and consistent core construction
<b>Chain of Custody Status</b>	FSC® or PEFC subject to availability
<b>DOP (Declaration of Performance)</b>	Available on request
<b>CE Marked</b>	BS EN 13986
<b>Material Safety Data Sheet</b>	Available on request

### APPLICATIONS

-  VEHICLE BODY BUILDING
-  STAGES
-  FLIGHT CASES
-  HORSEBOXES
-  PLATFORMS
-  WALKWAYS
-  PACKAGING
-  FURNITURE



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## SPECIAL THIN INTERIOR/EXTERIOR

Decorative, flexible and versatile thin birch throughout panels

**H** Hanson Special Thin Birch Plywood is a strong yet flexible cross banded plywood produced entirely from birch veneer with joint free faces.

This plywood is produced using both exterior and interior film glues. The interior being the perfect partner for cutting with a laser.

Being sourced from Finland this product is allowed 100% PEFC accreditation (Programme for the Endorsement of Forest Certification).



### SPECIFICATION DETAIL

<b>Thickness range (mm)</b>	0.4 0.8 1.0 1.5 2.0 3.0 4.0 5.0 6.0
<b>Number of veneer layers</b>	3 3 3 3 4 6 8 10 12
<b>Dimensions (mm)</b>	1220 x 1220 ♦ 1525 x 1525 ♦ 1550 x 1550 ♦ 1220 x 2440 ♦ 1200 x 2400
<b>Average Density</b>	Approx. 700 kg/m <sup>3</sup>
<b>Product Classification</b>	EN 636-2 (Exterior) EN 636-1 (Interior)
<b>Glue Bond</b>	EN 314-2 Class 3 (Exterior) EN 314-2 Class 1 (Interior)
<b>Face Grade Options</b>	AB/B, BR/BR, C (Exterior) BR/BR (Interior)
<b>Formaldehyde Class</b>	E1
<b>Chain of Custody Status</b>	FSC® or PEFC subject to availability
<b>Further Testing</b>	EN 71-3 (Safety of Toys)
<b>Material Safety Data Sheet</b>	Available on request

### APPLICATIONS



ARCHITECTURAL MODELS



TOY/MODEL MAKING



FURNITURE



MUSICAL INSTRUMENTS



SHOP/BAR FITTING



JOINERY



ENGINEERING

\*Please get in touch with our Sales Team for further information on grading rules

Exterior

Interior



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# Quick Reference Guide - Birch Plywood

Typical values collated from Latvian, Polish and Finnish production standards								
Thickness	3mm	4mm	5mm	6mm	8mm	9mm	12mm	15mm
Typical grades	B/BB, S+/BB, BB/BB, BB/CP, CP/CP, C/C							
Density (kg/m <sup>3</sup> )	700kg/m <sup>3</sup>							
Weight/8x4 (kg)	6.2	8.3	10.4	12.5	16.6	18.7	25	31.2
Number of veneer layers	3	3	4/5	5	6/7	7	9	11
Gluing options	E1 Int	E1 Int/Ext	E1 Int	E1 Int/Ext	E1 Int	E1 Int/Ext	E1 Int/Ext	E1 Int/Ext
Thickness tolerance for sanded panels (mm)	+0.3/-0.4	+0.3/-0.5	+0.4/-0.5	+0.4/-0.5	+1/-0.5	+0.4/-0.6	+0.5/-0.7	+0.6/-0.8

Typical values collated from Latvian, Polish and Finnish production standards									
Thickness	18mm	21mm	24mm	27mm	30mm	35mm	40mm	45mm	50mm
Typical grades	B/BB, S+/BB, BB/BB, BB/CP, CP/CP, C/C								
Density (kg/m <sup>3</sup> )	700kg/m <sup>3</sup>								
Weight/8x4 (kg)	37.5	43.7	50	56.2	62.5	72.9	83.5	93.8	105
Number of veneer layers	13	15	17	19	21	25	29	31	36
Gluing options	E1 Int/Ext	E1 Int/Ext	E1 Int/Ext	E1 Ext	E1 Ext	E1 Ext	E1 Ext	E1 Ext	E1 Ext
Thickness tolerance for sanded panels (mm)	+0.7/-0.9	+0.8/-1.0	+0.9/-1.1	+1.0/-1.2	+1.1/-1.3	+1.05/-1.45	+1.2/-1.2	+1.4/-1.8	+1.5/-1.9



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