

The Plywood Specifiers Guide

Birch Plywood





An extensive range of birch plywood carrying very specific technical information including loading/ bending strength data.

Plywood suited to your application

Plywood sheets comprising birch veneers throughout which produces the most versatile of products. Suitable for applications: 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 and towards the far east of Russia. 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, Russia, Latvia and Ukraine with the TTF's Responsible Purchasing Policy being applied in full.



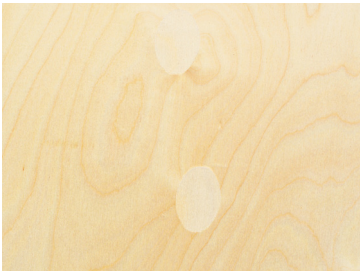
Birch Grades and Properties



B 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.



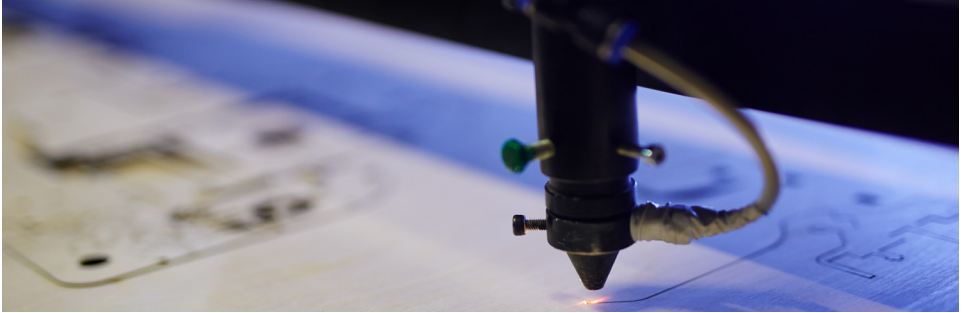
Birch plywood is a multi-ply, cross banded panel made entirely from birch veneers. Suitable for use in both interior and exterior applications.

Applications

-  FURNITURE
-  SHOP/BAR FITTING
-  THEATRE SETS
-  FLOORING
-  MUSICAL INSTRUMENTS
-  TOY/MODEL MAKING
-  LAMINATING/VENEERING
-  CONSTRUCTION/JOINERY/ENGINEERING




SPECIFICATION DETAIL:

| | |
|---|---|
| Thicknesses(mm) | 4 6 6.5 8 9 12 15 18 21 24 27 30 35 50 |
| Number of plies | 3 5 5 6/7 7 9 11 13 15 17 19 21 25 36 |
| Dimensions (mm) | 2440 x 1220, 1220 x 2440, 1220 x 3050, 1525 x 1525, 1525 x 3050 |
| Average density | Approx. 700 kg/m ³ |
| Product standard | EN 636-2 |
| Glue bond | EN 314-2 Class 3 (Exterior) |
| Formaldehyde release | Class E1 (Tested to EN 717-2) - CARB Phase 2 compliant (on request) |
| Moisture content | 8%-10% at manufacture |
| Grading | B/BB, S+/BB, BB, BB/CP, CP, C |
| Core | Uniform and consistent core construction |
| Environmental certification | FSC® & PEFC™ subject to availability |
| European Timber Regulation (EUTR) status: | Compliant |
| CE marked | BS EN 13986 |
| Material safety data sheet | Available |

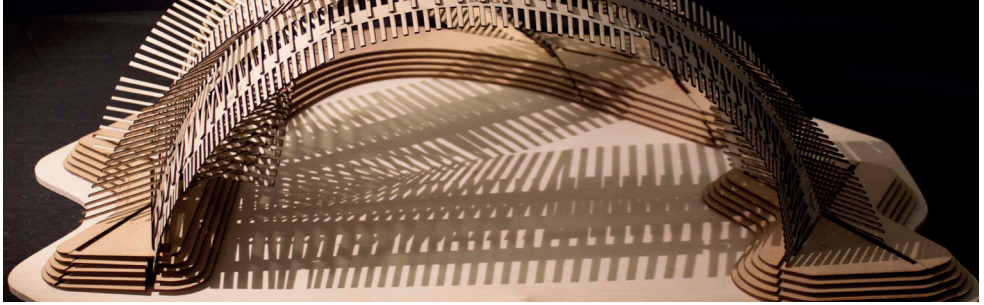


Birch laser Plywood is a multiply, cross banded panel made entirely from birch veneers. For use in interior applications.

Applications

-  LASER/DIE CUTTING
-  FURNITURE
-  SHOP/BAR FITTING

| SPECIFICATION DETAIL: | | | | | | | | | | | | |
|---|--|---|---|---|-----|-----|---|----|----|----|----|----|
| Thicknesses (mm) | 3 | 4 | 5 | 6 | 6.5 | 8 | 9 | 12 | 15 | 18 | 21 | 24 |
| Number of plies | 3 | 3 | 5 | 5 | 5 | 6/7 | 7 | 9 | 11 | 13 | 15 | 17 |
| Dimensions (mm) | 2440 x 1525, 2440 x 1220, 1830 x 1525, 1830 x 1270, 1525 x 1525, 1525 x 1270 | | | | | | | | | | | |
| Average density | Approx. 700 Kg/m | | | | | | | | | | | |
| Product standard | EN 636-1 | | | | | | | | | | | |
| Glue bond | EN 314-2 Class 1 (Interior) | | | | | | | | | | | |
| Formaldehyde release | Class E1 (Tested to EN 717-2) – CARB Phase 2 Compliant (on request) | | | | | | | | | | | |
| Moisture content | 8%-10% at manufacture | | | | | | | | | | | |
| Grading | B/BB, BB, C | | | | | | | | | | | |
| Core | Uniform and consistent core construction | | | | | | | | | | | |
| Environmental certification | FSC® & PEFC™ subject to availability | | | | | | | | | | | |
| European Timber Regulation (EUTR) status: | Compliant | | | | | | | | | | | |
| CE marked | BS EN 13986 | | | | | | | | | | | |
| Material safety data sheet | Available | | | | | | | | | | | |



A strong yet flexible cross banded plywood produced entirely from birch veneers with joint free faces.

Applications



MUSICAL INSTRUMENTS



TOY/MODEL MAKING



FURNITURE



SHOP/BAR FITTING



LASER CUTTING

SPECIFICATION DETAIL:

| | | | | | | | | | |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thicknesses (mm) | 0.4 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|----|----|
| Number of plies | 3 | 3 | 3 | 3 | 4 | 6 | 8 | 10 | 12 |
|-----------------|---|---|---|---|---|---|---|----|----|

| | |
|-----------------|--|
| Dimensions (mm) | 1220 x 1220, 1525 x 1525, 1550 x 1550, 1200 x 2400 / 1200 |
|-----------------|--|

| | |
|-----------------|------------------|
| Average density | Approx. 700 Kg/m |
|-----------------|------------------|

| | |
|------------------|---------------------|
| Product standard | EN 636-2 / EN 636-1 |
|------------------|---------------------|

| | |
|-----------|---|
| Glue bond | EN 314-2 Class 3 (Exterior)/ EN 314-2 Class 1 (Interior) |
|-----------|---|

| | |
|----------------------|-------------------------------|
| Formaldehyde release | Class E1 (Tested to EN 717-2) |
|----------------------|-------------------------------|

| | |
|----------------|----------------|
| Veneer grades* | AB/B, BR/BR, C |
|----------------|----------------|

| | |
|-----------------------------|------------|
| Environmental certification | PEFC™ 100% |
|-----------------------------|------------|

| | |
|--|-------------------------------|
| European Timber Regulation (EUTR) status | Compliant – sourced within EU |
|--|-------------------------------|

| | |
|-----------------|--------------------------|
| Further testing | EN 71-3 (Safety of Toys) |
|-----------------|--------------------------|

| | |
|----------------------------|-----------|
| Material safety data sheet | Available |
|----------------------------|-----------|

*Please get in touch with our sales team for further information on grading rules



Special Coated Birch Plywood is a multiply, cross banded panel made entirely from birch veneers. Coated with a tough durable phenolic overlay and in most cases acrylic edge sealing.

Applications

Smooth



SHUTTERING



FURNITURE



MOULDS

Diamond



FLIGHT CASES



PACKAGING

Mesh



VEHICLE BODIES



STAGING



WALKWAYS

Hexa



VEHICLE BODIES



FLIGHT CASES



PACKAGING

SPECIFICATION DETAIL:

| | |
|--|--|
| Thicknesses (mm) | 6 6.5 9 12 15 18 21 24 27 |
| Number of plies | 5 5 7 9 11 13 15 17 19 |
| Dimensions (mm) | 1220 x 2500, 1220 x 2440, 1525 x 3050 |
| Average density | Approx. 700 Kg/m |
| product standard | EN 636-2 / EN 636-1 |
| Glue bond | EN 314-2 Class 3 (Exterior)/ EN 314-2 Class 1 |
| Formaldehyde release | Class E1 (Tested to EN 717-2) |
| Moisture content | 8%-10% at manufacture |
| Film patterns | Smooth, Mesh, Diamond, Hexa |
| Film colours | Black, Dark Brown, Grey |
| Core | Uniform and consistent core construction |
| Environmental certification | FSC® & PEFC™ subject to availability |
| European Timber Regulation (EUTR) status | Compliant |
| CE marked | BS EN 13986 |
| Material safety data sheet | Available |

Quick Reference Guide - Birch Plywood

| Typical values collated from Russian, 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 ³) | 700kg/m ³ | | | | | | | |
| Weight/8x4 (kg) | 6.2 | 8.3 | 10.4 | 12.5 | 16.6 | 18.7 | 25 | 31.2 |
| Number of plies | 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 Russian, Polish and Finnish production standards | | | | | | | | |
|---|---------------------------------------|------------|------------|-----------|-----------|--------------|-----------|-------------|
| Thickness | 18mm | 21mm | 24mm | 27mm | 30mm | 35mm | 40mm | 50mm |
| Typical grades | B/BB, S+/BB, BB/BB, BB/CP, CP/CP, C/C | | | | | | | |
| Density (kg/m ³) | 700kg/m ³ | | | | | | | |
| Weight/8x4 (kg) | 37.5 | 43.7 | 50 | 56.2 | 62.5 | 72.9 | 83.5 | 105 |
| Number of plies | 13 | 15 | 17 | 19 | 21 | 25 | 29 | 36 |
| Gluing options | E1 Int/Ext | E1 Int/Ext | E1 Int/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 | + 1.5/- 1.9 |



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