

GUIDE TO WISA® BIRCH PLYWOOD

Surface Appearance
WISA®-Birch
WISA®-Birch Special

WISA®-Birch Premium



PREMIUM - WISA®-Birch Premium

Premium is recommended for visually demanding applications, such as surfaces that are treated with wood stain or varnish.

| Categories of defect | Appearance class: Premium |
|---|--|
| Pin knots | Allowed |
| Sound intergrown knots | Allowed max. Ø 12 mm, sum Ø 50 mm/m² |
| Unsound or non-adhering knots and knot holes | Allowed repaired max. ∅ 8 mm, sum ∅ 25 mm/m² |
| Other holes | |
| Close split | Allowed 2 pcs/m, max. length 200 mm |
| Open split | Allowed repaired 1 pcs/m, length 200 mm, width 2 mm |
| Open joints | Not applicable |
| Overlap on surface veneer | Not allowed |
| Uneven grain formation | Allowed |
| Discolouration | Not allowed |
| Colour streaks/veins | Allowed slight |
| Dents and imprints | Not allowed |
| Roughness and torn grain | Not allowed |
| Sanding through | Allowed 5 mm from edge |
| Glue penetration | Not allowed |
| Repairs with wooden patches | Not allowed |
| Repairs with synthetic filler | Allowed |
| Joints at surface veneer (length wise) | Not allowed |
| Defects at the edges due to sanding or sawing | Allowed 5 mm from edge |
| Other defects | To be considered under the category which they most closely resemble |

UPM Plywood birch surface appearance Premium is developed to better serve customers who want a light-coloured, high quality birch plywood surface for lacquering or varnishing. Premium is defined by using the same natural characteristics inherent in wood as described by European Standard EN 635-2:1995 Plywood – Classification by surface appearance – Part 2: Hardwood.

Other defects to be considered under the category which they most closely resemble (in the table above).

Measuring of the defects according to EN 635-5.







S (II) – WISA®-Birch Special

The S quality is suitable as a base for high quality painting.

| Categories of defect | Appearance class: S (II) |
|---|--|
| Pin knots | Allowed |
| Sound intergrown knots | Allowed max. Ø 12 mm, sum Ø 50 mm/m² |
| Unsound or non-adhering knots and knot holes | Allowed repaired max. Ø 8 mm, sum Ø 25 mm/m² |
| Other holes | |
| Close split | Permitted 2 pcs/m, max. length 200 mm |
| Open split | Allowed repaired 1 pcs/m, length 200 mm, width 2 mm |
| Open joints | Not allowed |
| Overlap on surface veneer | Not allowed |
| Uneven grain formation | Allowed |
| Discolouration | Allowed by 50% of surface area |
| Colour streaks/veins | Allowed |
| Dents and imprints | Not allowed |
| Roughness and torn grain | Not allowed |
| Sanding through | Allowed 5 mm from edge |
| Glue penetration | Allowed 5% of surface area |
| Repairs with wooden patches | Not allowed |
| Repairs with synthetic filler | Allowed |
| Joints at surface veneer (length wise) | Not allowed |
| Defects at the edges due to sanding or sawing | Allowed 5 mm from edge |
| Other defects | To be considered under the category which they most closely resemble |

UPM Plywood birch surface appearance classification is based on former Finnish national standard SFS 2413. Classification comply with requirements of European Standard EN 635-2: 1995 Plywood – Classification by surface appearance – Part 2: Hardwood and are in part stricter.

Other defects to be considered under the category which they most closely resemble (in the table above).

Classification is according to characteristics inherent in the wood species.

Measuring of the defects according to EN 635-5.







BB (III) - WISA®-Birch

BB is for technical end uses where a sound and even surface is required. For example its light, smooth and even surface offers an optimal base for different overlaying methods.

| Categories of defect | Appearance class: BB (III) |
|---|--|
| Pin knots | Allowed |
| Sound intergrown knots | Allowed max. Ø 25 mm, sum Ø 60 mm/m² |
| Unsound or non-adhering knots and knot holes | Allowed repaired max. ∅ 6 mm, sum ∅ 25 mm/m² |
| Other holes | |
| Close split | Allowed 2 pcs/m, max. length 200 mm |
| Open split | Allowed repaired 1 pcs/m, length 200 mm, width 2 mm |
| Open joints | Allowed repaired 1 pcs/m, length 200 mm, width 2 mm |
| Overlap on surface veneer | Allowed 1 pcs/m, length 200 mm |
| Uneven grain formation | Allowed |
| Discolouration | Allowed |
| Colour streaks/veins | Allowed |
| Dents and imprints | Allowed slight |
| Roughness and torn grain | Allowed slight |
| Sanding through | Allowed max. 10 cm ² /m ² |
| Glue penetration | Allowed 5% of surface area |
| Repairs with wooden patches | Allowed max. 17 pcs/m² |
| Repairs with synthetic filler | Allowed |
| Joints at surface veneer (length wise) | Allowed |
| Defects at the edges due to sanding or sawing | Allowed 5 mm from edge |
| Other defects | To be considered under the category which they most closely resemble |

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Other defects to be considered under the category which they most closely resemble (in the table above).

Classification is according to characteristics inherent in the wood species.

Measuring of the defects according to EN 635-5.







WG (IV) - WISA®-Birch

The WG quality is used in applications where the surface will not be visible or does not have high visual requirements, for example in structures and in packaging. It is also used in applications where the technical qualities of birch, such as strength, bondability and hardness of the surface, are more important than the appearance of the panel.

| Categories of defect | Appearance class: WG (IV) |
|---|--|
| Pin knots | Allowed |
| Sound intergrown knots | Allowed max. Ø 65 mm, sum Ø 600 mm/m² |
| Unsound or non-adhering knots | Allowed max. Ø 20 mm, sum Ø 200 mm/m² |
| Knots and other holes | Allowed max. Ø 15 mm, sum Ø 100 mm/m² |
| Close split | Allowed |
| Open split | Allowed max. 2 pcs/m, width 4 mm |
| Open joints | Allowed, max. width 3 mm |
| Overlap on surface veneer | Allowed 2 pcs/m, length 500 mm |
| Uneven grain formation | Allowed |
| Discolouration | Allowed |
| Colour streaks/veins | Allowed |
| Dents and imprints | Allowed |
| Roughness and torn grain | Allowed |
| Sanding through | Allowed moderate |
| Glue penetration | Allowed |
| Repairs with wooden patches | Allowed |
| Repairs with synthetic filler | Allowed |
| Joints at surface veneer (length wise) | Allowed |
| Defects at the edges due to sanding or sawing | Allowed 5 mm from edge |
| Other defects | To be considered under the category which they most closely resemble |

UPM Plywood birch surface appearance classification is based on former Finnish national standard SFS 2413. Classification comply with requirements of European Standard EN 635-2:1995 Plywood – Classification by surface appearance – Part 2: Hardwood and are in part stricter.

Other defects to be considered under the category which they most closely resemble (in the table above).

Classification is according to characteristics inherent in the wood species.

Measuring of the defects according to EN 635-5.







