



Naturbind poplar plywood is manufactured using a tannin-based bio-based bonding system with no added formaldehyde, providing high bond strength while contributing to improved indoor air quality. It is particularly suited for painted, coated or veneered applications, where the colour of the bio-based bonding system does not affect the final aesthetic appearance.

DIMENSIONAL AND MOISTURE CHARACTERISTICS

Thickness tolerance

- Thickness tolerance for panels up to 20 mm is +0,3/-0,5 mm, while for thicker panels it is +0,5/-0,7 mm.
- Thickness differences within the same panel are allowed up to ≤ 0.3 mm.

Valid ex works based on a moisture content of about 6 to 14 %

Length/width

- +2/-0 mm.

Edge straightness

- Allowed 1mm/m length

Squareness

- Allowed 1mm/m length

Flatness

Full panel size measured on a flat surface

- Flatness tolerance for standard panels is 20 mm for thicknesses ≤ 6 mm, and 15 mm for thicknesses > 6 mm.
- Flatness tolerance for XL panels is 20 mm.

Adequate climatization is recommended to obtain the best results

Moisture content

- Typical moisture content is between 6 - 14 % when leaving the factory

The moisture content may change during warehousing and transportation.



NATURBIND – Face veneer quality BBA

BBA face with natural colouring of the poplar heartwood and occasional presence of knots.



NATURAL CHARACTERISTICS¹

Pin knots	■ Allowed
Dead, tight and loose knots	■ Up to 7 knots/m ² , each ≤ 50 mm in diameter, are allowed
Open splits	■ Up to 8 properly filled splits with a width less than 20 mm are allowed ■ Splits of less than 1 mm in width may not be repaired.
Natural colour variations	■ Allowed
Anomalies caused by fungi	■ Minor isolated imperfections are acceptable
Surface roughness	■ Allowed if smooth

MANUFACTURING DEFECTS¹

- Localized darkening.



Unnatural colour variations²

- Colour variations between the ends and the centre of the panel.



Knife marks

Knife marks, lathe marks

- Allowed if smooth

Press mark, dents

- A maximum of 5 properly filled small defects is permitted

Gaps in veneers beneath the top layer

- Allowed if they measure less than 20 mm in width

Sanding marks

- Allowed if they are not clearly detectable by touch or sight

¹Open defects are repaired with filler.

²The dark coloration is an inherent characteristic of the bio-based adhesive used.



NATURBIND – Face veneer quality BBA

BBA face with natural colouring of the poplar heartwood and occasional presence of knots.



MANUFACTURING DEFECTS¹

Wavy sanding

■ Not allowed

Unsanded areas

■ Small isolated areas are allowed

Sanding through

(due to core defect)

■ Small isolated areas are allowed

Delamination

■ Not allowed

Jointed faces

■ Not allowed

¹Open defects are repaired with filler.

²The dark coloration is an inherent characteristic of the bio-based adhesive used



This photos are intended to show the natural variability of the Wood within the same Quality grade, in the batches photographed. The different Quality grades have a wide range of admissible defects; consequently, these photos do not imply any guarantee from Garnica that they are representative of other batches. They are simply examples of what might be found in each Quality grade.



NATURBIND – Face veneer quality BB

BB face with natural colouring of the poplar heartwood and frequent presence of knots.



NATURAL CHARACTERISTICS¹

Pin knots	■ Allowed
Dead, tight and loose knots	■ Up to 14 knots/m ² , each ≤ 50 mm in diameter, are allowed
Open splits	■ Up to 8 properly filled splits with a width less than 25 mm are allowed ■ Splits of less than 1 mm in width may not be repaired.
Natural colour variations	■ Allowed
Anomalies caused by fungi	■ Isolated imperfections are acceptable
Surface roughness	■ Allowed

MANUFACTURING DEFECTS¹

- The dark adhesive may be visible on the surface.



Unnatural colour variations²

- Colour variations between the ends and the centre of the panel.



Knife marks

Knife marks, lathe marks

- Allowed provided there is no material loss

Press mark, dents

- A maximum of 5 properly filled defects is permitted

Gaps in veneers beneath the top layer

- Allowed if they measure less than 20 mm in width

Sanding marks

- Allowed if they are not clearly detectable by touch or sight

¹Open defects are repaired with filler.

²The dark coloration is an inherent characteristic of the bio-based adhesive used.

MANUFACTURING DEFECTS¹

Wavy sanding	■ Not allowed
Unsanded areas	■ Small isolated areas are allowed
Sanding through (due to core defect)	■ Small isolated areas are allowed
Delamination	■ Not allowed
Jointed faces	■ Not allowed

¹Open defects are repaired with filler.

²The dark coloration is an inherent characteristic of the bio-based adhesive used



This photos are intended to show the natural variability of the Wood within the same Quality grade, in the batches photographed. The different Quality grades have a wide range of admissible defects; consequently, these photos do not imply any guarantee from Garnica that they are representative of other batches. They are simply examples of what might be found in each Quality grade.