

efficiency



Garnica **Efficiency Poplar** Plywood surface appearance is developed to better serve customers who want a high-quality lamination with light-colored veneers and HPL, as well as for general decorative purposes in its raw form.

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

- Length/width tolerance is +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.
- Climatize the panels 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.





EFFICIENCY POPLAR – B

B face eminently light and uniform in colour, with isolated knots and repairs.



NATURAL CHARACTERISTICS¹

Pin knots	■ Allowed
Dead, tight and loose knots	■ Up to 10 knots, each ≤ 50 mm in diameter, are allowed
Natural colour variations	■ Allowed if they are light and cover less than 25% of the total surface area
Insect anomalies	■ Not allowed
Surface roughness	■ Allowed if smooth

MANUFACTURING DEFECTS¹

Unnatural colour variations Only Naturbind panels	■ Dark glue can eventually be visible on the surface
Knife marks	■ Allowed if they are smooth
Press marks, dents	■ A maximum of 5 properly filled small defects is permitted
Open splits	■ Up to 5 properly filled splits with a width less than 20 mm are allowed ■ Splits of less than 1 mm in width may not be repaired.
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
Wavy sanding	■ Not allowed
Sanding through	■ Small isolated areas are allowed
Unsanded areas	■ Small isolated areas are allowed
Delamination	■ Not allowed
Jointed faces	■ Not allowed

¹Open defects will be repaired with putty, except for thin panels (3-ply), in which only the top face is repaired



EFFICIENCY POPLAR – B



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.

**EFFICIENCY POPLAR – 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 30 knots, each ≤ 50 mm in diameter, are allowed
Natural colour variations	■ Allowed
Insect anomalies	■ Minor isolated imperfections are acceptable
Surface roughness	■ Allowed if smooth

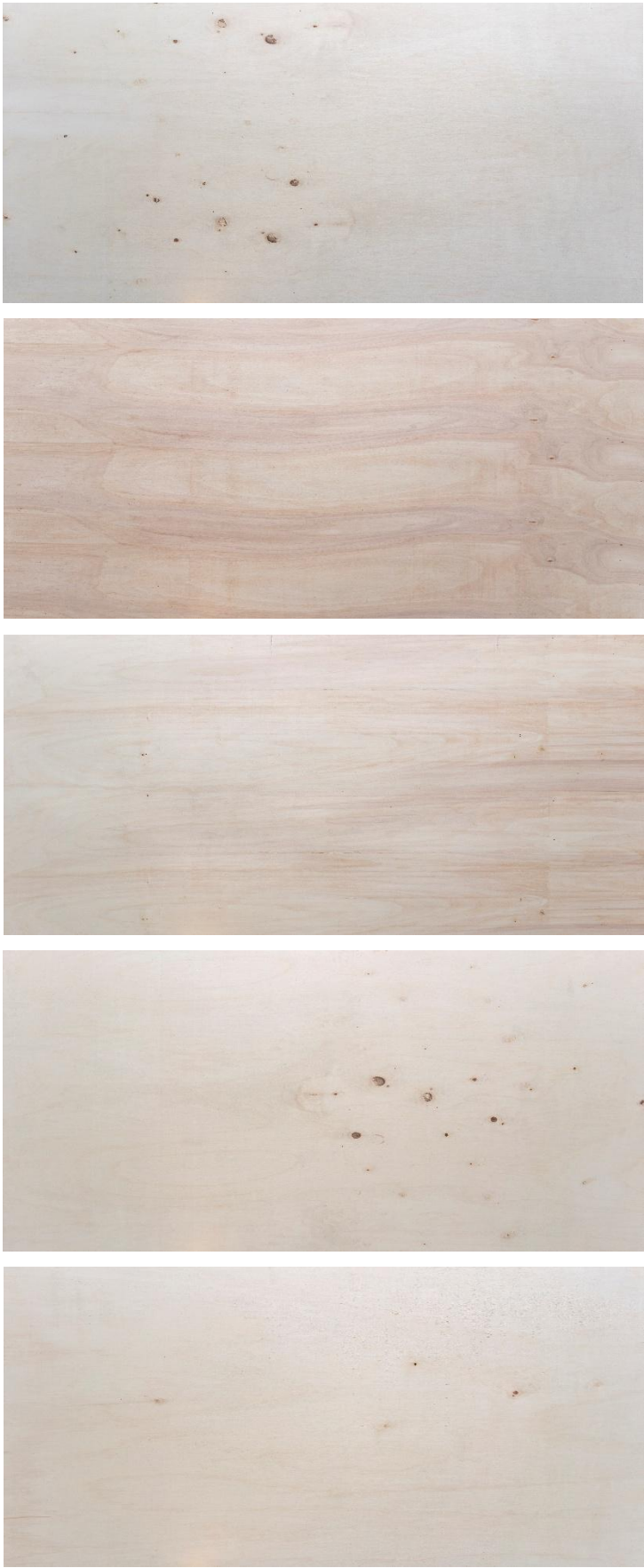
MANUFACTURING DEFECTS¹

Unnatural colour variations Only Naturbind panels	■ Dark glue can eventually be visible on the surface
Knife marks	■ Allowed if they are smooth
Press marks, dents	■ A maximum of 5 properly filled small defects is permitted
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.
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
Wavy sanding	■ Not allowed
Sanding through	■ Small isolated areas are allowed
Unsanded areas	■ Small isolated areas are allowed
Delamination	■ Not allowed
Jointed faces	■ Not allowed

¹Open defects will be repaired with putty, except for thin panels (3-ply), in which only the top face is repaired.



EFFICIENCY POPLAR – BBA



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EFFICIENCY POPLAR – 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 60 knots, each ≤ 50 mm in diameter, are allowed
Natural colour variations	■ Allowed
Insect anomalies	■ Isolated imperfections are acceptable
Surface roughness	■ Allowed

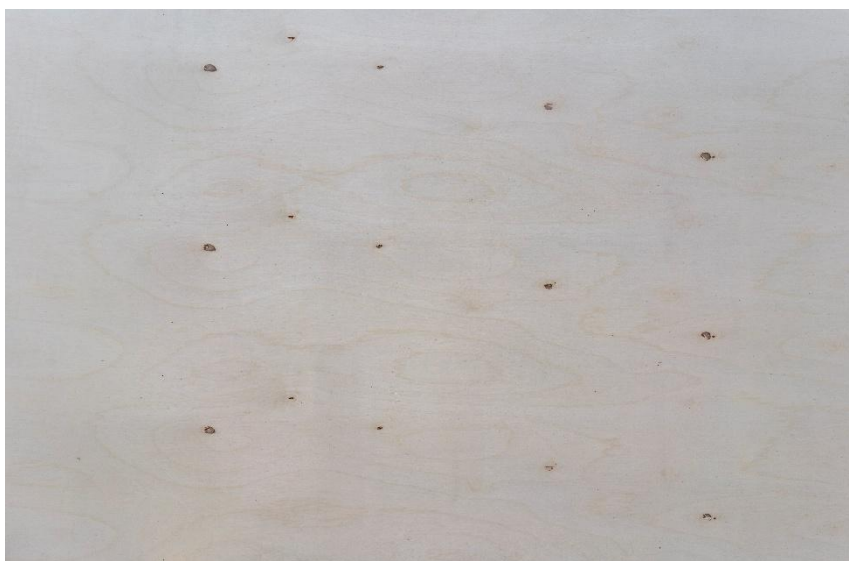
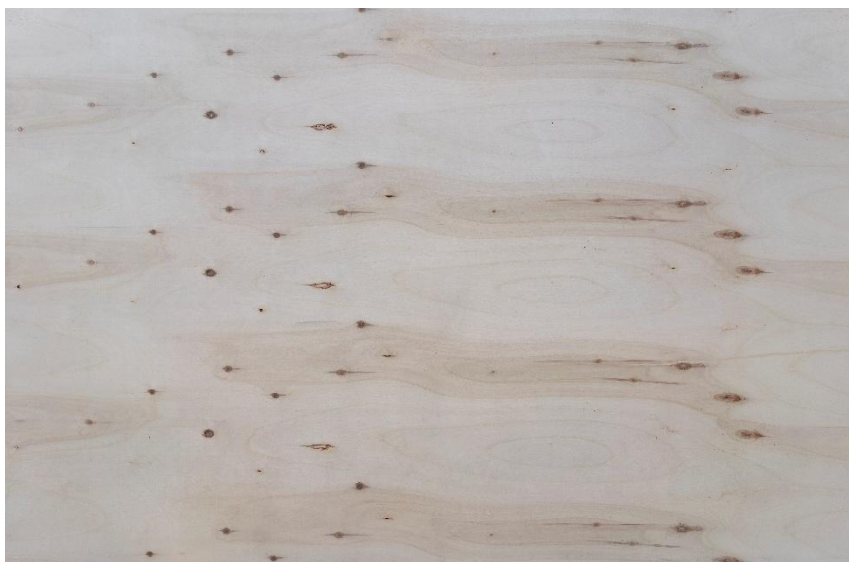
MANUFACTURING DEFECTS¹

Unnatural colour variations Only Naturbind panels	■ Dark glue can eventually be visible on the surface
Knife marks	■ Allowed provided there is no material loss
Press marks, dents	■ A maximum of 5 properly filled defects is permitted
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.
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
Wavy sanding	■ Not allowed
Sanding through	■ Small isolated areas are allowed
Unsanded areas	■ Small isolated areas are allowed
Delamination	■ Not allowed
Jointed faces	■ Not allowed

¹Open defects will be repaired with putty, except for thin panels (3-ply), in which only the top face is repaired.



EFFICIENCY POPLAR – BB



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EFFICIENCY POPLAR – BB



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