

CATALOG OF PLYWOOD GRADES

Norms of restrictions of plywood processing defects in accordance with the requirements of STO (corporate standard) 00255177-001-2013



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Part 1 DESCRIPTION OF GRADES

Allowable and not allowable defects

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Allowable the length up to 200 mm, 5 pcs/m of sheet width.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable among black knots with diameter up to 6 mm, 3 pcs/m².

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable without number limitation.

Live sound knots (light and dark) GO TO DEFECT DESCRIPTION

Light ones with diameter up to 15 mm with chap up to 0.5 mm, 5 pcs/m² are allowable.

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage

Allowable up to 30% of sheet area.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable among black knots with diameter up to 6 mm, 3 pcs/m².

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

The light one is allowable the length up to 175 mm, width up to 4 mm, 3 pcs/m^2 .

Sound color changes (stringers, traces of stringers) GO TO DEFECT DESCRIPTION

 \square The light ones are allowable the length up to 175 mm, width up to 4 mm, 3 pcs/m².

Sound color changes (veins groups) GO TO DEFECT DESCRIPTION

The light ones 30x30 mm are allowable, 1 per m².

Warpage GO TO DEFECT DESCRIPTION

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light GO TO DEFECT DESCRIPTION and dark bark pocket)

Only light bark pocket is allowable, dark bark pocket is allowable in the size and in the number among black knots.

- Beads from side plates (traces of side plates) GO TO DEFECT DESCRIPTION
- Blisters, delamination, bark GO TO DEFECT DESCRIPTION
- Color defects with partial wood defects GO TO DEFECT DESCRIPTION
- Dents GO TO DEFECT DESCRIPTION
- Double plug repair GO TO DEFECT DESCRIPTION
- Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage
- Glue seepage GO TO DEFECT DESCRIPTION
- Go TO DEFECT DESCRIPTION
- Grinding of outer layers GO TO DEFECT DESCRIPTION

- **□** Inserted glued veneer parts GO TO DEFECT DESCRIPTION
- **◯** Knots with bark inclusions, holes from fallen out knots **◯** GO TO DEFECT DESCRIPTION
- **◯** Manufacturing stains (beam traces, lines) **©** TO DEFECT DESCRIPTION
- Metal inclusions GO TO DEFECT DESCRIPTION
- Open splits, open seam on spliced veneer GO TO DEFECT DESCRIPTION
- Overlapping GO TO DEFECT DESCRIPTION
- Plug repair Go TO DEFECT DESCRIPTION
- Pocket (without bark) GO TO DEFECT DESCRIPTION
- □ Rippling (for sanded plywood), roughness of sawn surface GO TO DEFECT DESCRIPTION
- Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION

- Scratches, scars, pimples, ridges GO TO DEFECT DESCRIPTION
- Scuffleness non-smooth GO TO DEFECT DESCRIPTION
- Sound color changes (false core) GO TO DEFECT DESCRIPTION
- Split repair with patches or plug repairs GO TO DEFECT DESCRIPTION

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Allowable the length up to 200 mm, 5 pcs/m of sheet width.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable among black knots with diameter up to 6 mm, 3 pcs/m².

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable without number limitation.

Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage

Allowable width is up to 5 mm along the edge.

Glue seepage GO TO DEFECT DESCRIPTION

Allowable up to 1% of sheet area.

Live sound knots (light and dark) GO TO DEFECT DESCRIPTION

Light and dark ones with diameter up to 15 mm with chap up to 0.5 mm, 5 pcs/m² are allowable.

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage

Allowable up to 30% of sheet area.

Open splits, open seam on spliced veneer GO TO DEFECT DESCRIPTION

Allowable the length up to 200 mm, width up to 1 mm, 2 pcs/m of sheet width.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable among black knots with diameter up to 6 mm, 3 pcs/m².

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Plug repair GO TO DEFECT DESCRIPTION

1 pcs/m² is allowable with color and grain flow match.

Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION

Allowable 5 mm from the edge.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

The light one is allowable the length up to 175 mm, width up to 4 mm, 5 pcs/m².

Sound color changes (stringers, traces of stringers) GO TO DEFECT DESCRIPTION

The light ones are allowable the length up to 175 mm, width up to 4 mm, 5 pcs/m².

Sound color changes (veins groups) GO TO DEFECT DESCRIPTION

The light ones 30x30 mm are allowable, 1 per m².

Warpage GO TO DEFECT DESCRIPTION

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light GO TO DEFECT DESCRIPTION and dark bark pocket)

Only light bark pocket is allowable, dark bark pocket is allowable in the size and in the number among black knots.

- Beads from side plates (traces of side plates) GO TO DEFECT DESCRIPTION
- Blisters, delamination, bark GO TO DEFECT DESCRIPTION
- Color defects with partial wood defects GO TO DEFECT DESCRIPTION
- Dents GO TO DEFECT DESCRIPTION
- Double plug repair GO TO DEFECT DESCRIPTION
- Glue thread GO TO DEFECT DESCRIPTION
- Grinding of outer layers GO TO DEFECT DESCRIPTION
- **□** Inserted glued veneer parts GO TO DEFECT DESCRIPTION
- **◯** Knots with bark inclusions, holes from fallen out knots **◯** GO TO DEFECT DESCRIPTION
- **☐** Manufacturing stains (beam traces, lines) GO TO DEFECT DESCRIPTION

- Metal inclusions GO TO DEFECT DESCRIPTION
- Overlapping GO TO DEFECT DESCRIPTION
- Pocket (without bark) GO TO DEFECT DESCRIPTION
- Rippling (for sanded plywood), roughness of sawn surface GO TO DEFECT DESCRIPTION
- Scratches, scars, pimples, ridges GO TO DEFECT DESCRIPTION
- Sound color changes (false core) GO TO DEFECT DESCRIPTION
- Split repair with patches or plug repairs GO TO DEFECT DESCRIPTION

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Allowable the length up to 200 mm, 2 pcs/m of sheet width.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable with diameter up to 6 mm, 2 pcs/m².

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable excluding dark eyes.

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable among black knots with diameter up to 6 mm, 2 pcs/m².

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

The light one is allowable the length up to 100 mm, width up to 2 mm, 3 pcs/m^2 .

Sound color changes (stringers, traces of stringers) GO TO DEFECT DESCRIPTION

The light ones are allowable the length up to 100 mm, width up to 2 mm, 3 pcs/m².

Warpage GO TO DEFECT DESCRIPTION

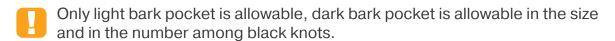
It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 10 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light and dark bark pocket)

GO TO DEFECT DESCRIPTION



GRADE B Sel/NOT ALLOWABLE DEFECTS

- Beads from side plates (traces of side plates) GO TO DEFECT DESCRIPTION
- Blisters, delamination, bark GO TO DEFECT DESCRIPTION
- Color defects with partial wood defects GO TO DEFECT DESCRIPTION
- Dents GO TO DEFECT DESCRIPTION
- Double plug repair GO TO DEFECT DESCRIPTION
- Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage
- Glue seepage GO TO DEFECT DESCRIPTION
- Go TO DEFECT DESCRIPTION
- Grinding of outer layers GO TO DEFECT DESCRIPTION

GRADE B Sel/NOT ALLOWABLE DEFECTS

- **☐** Inserted glued veneer parts GO TO DEFECT DESCRIPTION
- CO TO DEFECT DESCRIPTION
- **□** Live sound knots (light and dark) GO TO DEFECT DESCRIPTION
- Metal inclusions GO TO DEFECT DESCRIPTION
- Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage
- Open splits, open seam on spliced veneer GO TO DEFECT DESCRIPTION
- Overlapping GO TO DEFECT DESCRIPTION
- Plug repair GO TO DEFECT DESCRIPTION

GRADE B Sel/NOT ALLOWABLE DEFECTS

- Pocket (without bark) GO TO DEFECT DESCRIPTION
- Rippling (for sanded plywood), roughness of sawn surface GO TO DEFECT DESCRIPTION
- Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION
- **○** Scratches, scars, pimples, ridges GO TO DEFECT DESCRIPTION
- **○** Scuffleness non-smooth GO TO DEFECT DESCRIPTION
- Sound color changes (false core) GO TO DEFECT DESCRIPTION
- Sound color changes (veins groups) GO TO DEFECT DESCRIPTION
- Split repair with patches or plug repairs GO TO DEFECT DESCRIPTION

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Allowable the length up to 200 mm, 2 pcs/m of sheet width.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable with diameter up to 6 mm, 2 pcs/m².

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable excluding dark eyes.

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage

Allowable on 5% of sheet area.

Open splits, open seam on spliced veneer GO TO DEFECT DESCRIPTION

Allowable the length up to 200 mm, width up to 1 mm, 2 pcs/m of sheet width.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable among black knots with diameter up to 6 mm, 2 pcs/m².

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Plug repair

GO TO DEFECT DESCRIPTION

1 pcs/m² is allowable with color and grain flow match.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

The light one is allowable the length up to 175 mm, width up to 2 mm, 3 pcs/ m^2 .

Sound color changes (stringers, traces of stringers) GO TO DEFECT DESCRIPTION

The light ones are allowable the length up to 175 mm, width up to 2 mm, 3 pcs/ m^2 .

Sound color changes (veins groups) GO TO DEFECT DESCRIPTION

The light ones 30x30 mm are allowable, 1 per m².

Warpage GO TO DEFECT DESCRIPTION

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light GO TO DEFECT DESCRIPTION and dark bark pocket)

Only light bark pocket is allowable, dark bark pocket is allowable in the size and in the number among black knots.

GRADE S Sel/NOT ALLOWABLE DEFECTS

- Beads from side plates (traces of side plates) GO TO DEFECT DESCRIPTION
- Blisters, delamination, bark GO TO DEFECT DESCRIPTION
- Color defects with partial wood defects GO TO DEFECT DESCRIPTION
- Dents GO TO DEFECT DESCRIPTION
- Double plug repair GO TO DEFECT DESCRIPTION
- Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage
- Glue seepage GO TO DEFECT DESCRIPTION
- Go TO DEFECT DESCRIPTION
- Grinding of outer layers GO TO DEFECT DESCRIPTION

GRADE S Sel/NOT ALLOWABLE DEFECTS

- **☐** Inserted glued veneer parts GO TO DEFECT DESCRIPTION
- **◯** Knots with bark inclusions, holes from fallen out knots **◯** GO TO DEFECT DESCRIPTION
- **□** Live sound knots (light and dark) GO TO DEFECT DESCRIPTION
- **☐** Manufacturing stains (beam traces, lines) GO TO DEFECT DESCRIPTION
- Metal inclusions GO TO DEFECT DESCRIPTION
- Overlapping GO TO DEFECT DESCRIPTION
- Pocket (without bark) GO TO DEFECT DESCRIPTION
- Rippling (for sanded plywood), roughness of sawn surface GO TO DEFECT DESCRIPTION
- Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION
- **○** Scratches, scars, pimples, ridges GO TO DEFECT DESCRIPTION

GRADE S Sel/NOT ALLOWABLE DEFECTS

- Scuffleness non-smooth GO TO DEFECT DESCRIPTION
- Sound color changes (false core) GO TO DEFECT DESCRIPTION
- Split repair with patches or plug repairs GO TO DEFECT DESCRIPTION

Beads from side plates (traces of side plates) GO TO DEFECT DESCRIPTION

Allowable length is up to 200 mm; width is up to 10 mm, or 3 pcs/sheet.

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Allowable the length up to 300 mm, 5 pcs/m of sheet width.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable among black knots with diameter up to 6 mm, 3 pcs/m².

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable without number limitation.

Double plug repair GO TO DEFECT DESCRIPTION

Allowable max 1 pcs/m².

Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage

Allowable width is up to 5 mm along the edge.

Glue seepage GO TO DEFECT DESCRIPTION

Allowable up to 2% of sheet area (for 3 to 21 mm thickness).
Allowable up to 5% of sheet area (for thickness 24 mm and above).

Live sound knots (light and dark) GO TO DEFECT DESCRIPTION

Light and dark ones with diameter up to 25 mm with chap up to 1 mm, 10 pcs/m² are allowable.

Manufacturing stains (beam traces, lines) GO TO DEFECT DESCRIPTION

Allowable not more than 10% of sheets in pack.

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage

Allowable up to 50% of sheet area (with false core).

Open splits, open seam on spliced veneer GO TO DEFECT DESCRIPTION

Allowable the length up to 250 mm, width up to 2 mm, 3 pcs/m of sheet width.

Overlapping GO TO DEFECT DESCRIPTION

Allowable the length up to 100 mm, width up to 2 mm, 1 pcs/m of sheet width.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable among intergrown knots with diameter up to 15 mm, 10 pcs/m².

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Plug repair GO TO DEFECT DESCRIPTION

8 pcs/m² is allowable with color and grain flow match.

Pocket (without bark) GO TO DEFECT DESCRIPTION

Allowable in size of group stringers (60x40 mm) 1 pcs/m².

Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION

Allowable 5 mm from the edge.

Scuffleness non-smooth GO TO DEFECT DESCRIPTION

Allowable up to 5% of sheet area.

Sound color changes (false core) GO TO DEFECT DESCRIPTION

Allowable up to 25% of sheet area.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

Allowable the length up to 250 mm, width up to 10 mm, 10 pcs/m^2 .

Sound color changes (stringers, traces of stringers) GO TO DEFECT DESCRIPTION

The light and dark ones are allowable the length up to 250 mm, width up to 10 mm, 10 pcs/m².

Sound color changes (veins groups) GO TO DEFECT DESCRIPTION

The light ones 60x40 mm are allowable, 1 per m².

Split repair with patches or plug repairs GO TO DEFECT DESCRIPTION

Splits over 2 mm shall be filled with veneer sheet insertions with glue.

Warpage GO TO DEFECT DESCRIPTION

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light GO TO DEFECT DESCRIPTION and dark bark pocket)

Light bark pocket is allowable, dark bark pocket is allowable in the size of intergrown knots.

- Blisters, delamination, bark GO TO DEFECT DESCRIPTION
- Color defects with partial wood defects GO TO DEFECT DESCRIPTION
- Dents GO TO DEFECT DESCRIPTION
- Glue thread GO TO DEFECT DESCRIPTION
- Grinding of outer layers GO TO DEFECT DESCRIPTION
- **☐** Inserted glued veneer parts GO TO DEFECT DESCRIPTION
- CO TO DEFECT DESCRIPTION
- Metal inclusions GO TO DEFECT DESCRIPTION
- □ Rippling (for sanded plywood), roughness of sawn surface GO TO DEFECT DESCRIPTION
- **○** Scratches, scars, pimples, ridges GO TO DEFECT DESCRIPTION

Beads from side plates (traces of side plates) GO TO DEFECT DESCRIPTION

Allowable length is up to 200 mm; width is up to 10 mm, or 3 pcs/sheet.

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Allowable the length up to 300 mm, 5 pcs/m of sheet width.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable among black knots with diameter up to 6 mm, 3 pcs/m².

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable without number limitation.

Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage

Allowable width is up to 5 mm along the edge.

Glue seepage GO TO DEFECT DESCRIPTION

Allowable up to 2% of sheet area (for 3 to 21 mm thickness).

Allowable up to 5% of sheet area (for thickness 24 mm and above).

Live sound knots (light and dark) GO TO DEFECT DESCRIPTION

Light and dark ones with diameter up to 25 mm with chap up to 1 mm, 10 pcs/m² are allowable.

Manufacturing stains (beam traces, lines) GO TO DEFECT DESCRIPTION

Allowable not more than 10% of sheets in pack.

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage

Allowable up to 50% of sheet area (with false core).

Open splits, open seam on spliced veneer GO TO DEFECT DESCRIPTION

Allowable the length up to 200 mm, width up to 2 mm, 3 pcs/m of sheet width.

Overlapping GO TO DEFECT DESCRIPTION

Allowable the length up to 100 mm, width up to 2 mm, 1 pcs/m of sheet width.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable among intergrown knots with diameter up to 15 mm, 10 pcs/m².

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Pocket (without bark) GO TO DEFECT DESCRIPTION

Allowable in size of group stringers (60x40 mm) 1 pcs/m².

Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION

Allowable 5 mm from the edge.

Scuffleness non-smooth GO TO DEFECT DESCRIPTION

Allowable up to 5% of sheet area.

Sound color changes (false core) GO TO DEFECT DESCRIPTION

Allowable up to 25% of sheet area.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

Allowable the length up to 250 mm, width up to 10 mm, 10 pcs/m².

Sound color changes (stringers, traces of stringers) GO TO DEFECT DESCRIPTION

The light and dark ones are allowable the length up to 250 mm, width up to 10 mm, 10 pcs/m².

Sound color changes (veins groups) GO TO DEFECT DESCRIPTION

The light ones 60x40 mm are allowable, 1 per m².

Warpage GO TO DEFECT DESCRIPTION

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light GO TO DEFECT DESCRIPTION and dark bark pocket)

Light bark pocket is allowable, dark bark pocket is allowable in the size of intergrown knots.

GRADE BBX/NOT ALLOWABLE DEFECTS

- Blisters, delamination, bark GO TO DEFECT DESCRIPTION
- Color defects with partial wood defects GO TO DEFECT DESCRIPTION
- Dents GO TO DEFECT DESCRIPTION
- Double plug repair GO TO DEFECT DESCRIPTION
- Glue thread GO TO DEFECT DESCRIPTION
- Grinding of outer layers GO TO DEFECT DESCRIPTION
- Inserted glued veneer parts GO TO DEFECT DESCRIPTION
- Knots with bark inclusions, holes from fallen out knots GO TO DEFECT DESCRIPTION
- **Metal inclusions** Go TO DEFECT DESCRIPTION
- Plug repair GO TO DEFECT DESCRIPTION

GRADE BBX/NOT ALLOWABLE DEFECTS

- Rippling (for sanded plywood), roughness of sawn surface GO TO DEFECT DESCRIPTION
- **○** Scratches, scars, pimples, ridges GO TO DEFECT DESCRIPTION
- Split repair with patches or plug repairs GO TO DEFECT DESCRIPTION

Beads from side plates (traces of side plates) GO TO I

GO TO DEFECT DESCRIPTION

Allowable length is up to 600 mm; width is up to 10 mm, or 5 pcs/sheet.

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Edge and medial ones are allowable without number limitation.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable with diameter up to 6 mm and without number limitations.

Dents GO TO DEFECT DESCRIPTION

Allowable height (depth) is up to 0.5 mm, length is up to 120 mm, and width is up to 10 mm.

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable without number limitation.

Double plug repair GO TO DEFECT DESCRIPTION

Allowable without number limitation but not in color and orientation.

Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage

Allowable width is up to 5 mm along the edge.

Glue seepage GO TO DEFECT DESCRIPTION

Allowable up to 5% of sheet area (for 3 to 21 mm thickness).
Allowable up to 10% of sheet area (for thickness 24 mm and above).

Glue thread GO TO DEFECT DESCRIPTION

Allowable

Grinding of outer layers GO TO DEFECT DESCRIPTION

Allowable up to 1% of sheet area (for 3 to 21 mm thickness).

Allowable up to 2% of sheet area (for thickness 24 mm and above).

Inserted glued veneer parts GO TO DEFECT DESCRIPTION

Allowable length is up to 150 mm, width is up to 30 mm; 1 pcs per sheet.

Live sound knots (light and dark) GO TO DEFECT DESCRIPTION

Light and dark ones with no limitation in diameter with chap up to 1 mm are allowable.

Manufacturing stains (beam traces, lines) GO TO DEFECT DESCRIPTION

Allowable

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Metal inclusions GO TO DEFECT DESCRIPTION

Nonferrous metals staples are allowable.

Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage

Allowable up to 75% of sheet area (with false core).

Open splits, open seam on spliced veneer GO TO DEFECT DESCRIPTION

Allowable the length up to 600 mm, width up to 2 mm, 2 pcs/m of sheet width. Allowable the length up to 600 mm, width up to 5 mm, providing patching with mastic.

Overlapping GO TO DEFECT DESCRIPTION

Allowable the length up to 300 mm, width up to 2 mm, 2 pcs/m of sheet width.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable among intergrown knots with diameter up to 15 mm, 10 pcs/m².

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Plug repair GO TO DEFECT DESCRIPTION

Insertions with gap on one side up to 1 mm (or on both sides 0.5 mm) are allowable without number limitation but not in color and orientation.

Pocket (without bark) GO TO DEFECT DESCRIPTION

Allowable

Rippling (for sanded plywood), roughness of sawn surface

GO TO DEFECT DESCRIPTION

Allowable

Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION

Allowable up to 5% of sheet area.

Scratches, scars, pimples, ridges GO TO DEFECT DESCRIPTION

Allowable height (depth) is up to 0.5 mm, length is up to 120 mm, width is up to 10 mm.

Scuffleness non-smooth GO TO DEFECT DESCRIPTION

Allowable up to 15% of sheet area.

Sound color changes (false core) GO TO DEFECT DESCRIPTION

Allowable up to 75% of sheet area.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (stringers, traces of stringers) GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (veins groups) GO TO DEFECT DESCRIPTION

Allowable without limitations.

Split repair with patches or plug repairs GO TO DEFECT DESCRIPTION

Splits over 5 mm shall be filled with veneer sheet insertions with glue.

Warpage GO TO DEFECT DESCRIPTION

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light GO TO DEFECT DESCRIPTION and dark bark pocket)

Light bark pocket is allowable, dark bark pocket is allowable in the size of intergrown knots.

- Blisters, delamination, bark GO TO DEFECT DESCRIPTION
- Color defects with partial wood defects GO TO DEFECT DESCRIPTION
- **◯** Knots with bark inclusions, holes from fallen out knots **◯** GO TO DEFECT DESCRIPTION

Beads from side plates (traces of side plates) GO TO DEFECT DESCRIPTION

Allowable width is up to 10 mm.

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Edge and medial ones are allowable without number limitation.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable with diameter up to 15 mm, 7 pcs/m².

Dents GO TO DEFECT DESCRIPTION

Allowable width is up to 120 mm.

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable without number limitation.

Double plug repair GO TO DEFECT DESCRIPTION

Allowable without number limitation but not in color and orientation.

Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage

Allowable width is up to 5 mm along the edge.

Glue seepage GO TO DEFECT DESCRIPTION

Allowable up to 10% of sheet area (for 3 to 21 mm thickness).

Allowable up to 15% of sheet area (for thickness 24 mm and above).

Glue thread GO TO DEFECT DESCRIPTION

Allowable

Grinding of outer layers GO TO DEFECT DESCRIPTION

Allowable up to 1% of sheet area (for 3 to 21 mm thickness).
Allowable up to 2% of sheet area (for thickness 24 mm and above).

Inserted glued veneer parts GO TO DEFECT DESCRIPTION

Allowable length is up to 150 mm, width is up to 30 mm; 1 pcs per sheet.

Live sound knots (light and dark) GO TO DEFECT DESCRIPTION

Light and dark ones with no limitation in diameter and number are allowable.

Manufacturing stains (beam traces, lines) GO TO DEFECT DESCRIPTION

Allowable

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Metal inclusions GO TO DEFECT DESCRIPTION

Nonferrous metals staples are allowable.

Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage

Allowable up to 75% of sheet area (with false core).

Open splits, open seam on spliced veneer GO TO DEFECT DESCRIPTION

Allowable the length up to 600 mm, width up to 5 mm, 2 pcs/m of sheet width.

Overlapping GO TO DEFECT DESCRIPTION

Allowable the length up to 600 mm, width up to 4 mm, 2 pcs/m of sheet width.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable among intergrown knots with diameter up to 15 mm, 10 pcs/m².

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Plug repair GO TO DEFECT DESCRIPTION

Insertions are allowable without number limitation but not in color and orientation.

Pocket (without bark) GO TO DEFECT DESCRIPTION

Allowable

Rippling (for sanded plywood), roughness of sawn surface

GO TO DEFECT DESCRIPTION

Allowable

Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION

Allowable up to 5% of sheet area.

Scratches, scars, pimples, ridges GO TO DEFECT DESCRIPTION

Allowable width is up to 120 mm.

Scuffleness non-smooth GO TO DEFECT DESCRIPTION

Allowable up to 15% of sheet area.

Sound color changes (false core) GO TO DEFECT DESCRIPTION

Allowable up to 75% of sheet area.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (stringers, traces of stringers) GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (veins groups) GO TO DEFECT DESCRIPTION

Allowable without limitations.

Split repair with patches or plug repairs GO TO DEFECT DESCRIPTION

Splits over 5 mm shall be filled with veneer sheet insertions with glue.

Warpage GO TO DEFECT DESCRIPTION

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light GO TO DEFECT DESCRIPTION and dark bark pocket)

Light bark pocket is allowable, dark bark pocket is allowable in the size of intergrown knots.

- Blisters, delamination, bark GO TO DEFECT DESCRIPTION
- Color defects with partial wood defects GO TO DEFECT DESCRIPTION
- ► Knots with bark inclusions, holes from fallen out knots GO TO DEFECT DESCRIPTION

Beads from side plates (traces of side plates) GOT

GO TO DEFECT DESCRIPTION

Allowable length is up to 600 mm; width is up to 10 mm, or 5 pcs/sheet.

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Edge and medial ones are allowable without number limitation.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable with diameter up to 6 mm and without number limitations.

Dents GO TO DEFECT DESCRIPTION

Allowable height (depth) is up to 0.5 mm, length is up to 120 mm, and width is up to 10 mm.

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable without number limitation.

Double plug repair GO TO DEFECT DESCRIPTION

Allowable without number limitation but not in color and orientation.

Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage

Allowable width is up to 5 mm along the edge.

Glue seepage GO TO DEFECT DESCRIPTION

Allowable up to 5% of sheet area (for 3 to 21 mm thickness).
Allowable up to 10% of sheet area (for thickness 24 mm and above).

Glue thread GO TO DEFECT DESCRIPTION

Allowable

Grinding of outer layers GO TO DEFECT DESCRIPTION

Allowable up to 1% of sheet area (for 3 to 21 mm thickness).
Allowable up to 2% of sheet area (for thickness 24 mm and above).

Inserted glued veneer parts GO TO DEFECT DESCRIPTION

Allowable length is up to 150 mm, width is up to 30 mm; 1 pcs per sheet.

Live sound knots (light and dark) GO TO DEFECT DESCRIPTION

Light and dark ones with no limitation in diameter with chap up to 1 mm are allowable.

Manufacturing stains (beam traces, lines) GO TO DEFECT DESCRIPTION

Allowable

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Metal inclusions GO TO DEFECT DESCRIPTION

Nonferrous metals staples are allowable.

Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage

Allowable up to 75% of sheet area (with false core).

Open splits, open seam on spliced veneer GO TO DEFECT DESCRIPTION

Allowable the length up to 600 mm, width up to 2 mm, 2 pcs/m of sheet width.

Allowable the length up to 600 mm, width up to 5 mm, providing patching with mastic.

Overlapping GO TO DEFECT DESCRIPTION

Allowable the length up to 300 mm, width up to 2 mm, 2 pcs/m of sheet width.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable among intergrown knots with diameter up to 15 mm, 10 pcs/m².

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Plug repair GO TO DEFECT DESCRIPTION

Insertions with gap on one side up to 1 mm (or on both sides 0.5 mm) are allowable without number limitation but not in color and orientation.

Pocket (without bark) GO TO DEFECT DESCRIPTION

Allowable

Rippling (for sanded plywood), roughness of sawn surface

GO TO DEFECT DESCRIPTION

Allowable

Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION

Allowable up to 5% of sheet area.

Scratches, scars, pimples, ridges GO TO DEFECT DESCRIPTION

Allowable height (depth) is up to 0.5 mm, length is up to 120 mm, width is up to 10 mm.

Scuffleness non-smooth GO TO DEFECT DESCRIPTION

Allowable up to 15% of sheet area.

Sound color changes (false core) GO TO DEFECT DESCRIPTION

Allowable up to 75% of sheet area.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (stringers, traces of stringers) GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (veins groups) GO TO DEFECT DESCRIPTION

Allowable without limitations.

Split repair with patches or plug repairs GO TO DEFECT DESCRIPTION

Splits over 5 mm shall be filled with veneer sheet insertions with glue.

Warpage GO TO DEFECT DESCRIPTION

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light GO TO DEFECT DESCRIPTION and dark bark pocket)

Light bark pocket is allowable, dark bark pocket is allowable in the size of intergrown knots.

- Blisters, delamination, bark GO TO DEFECT DESCRIPTION
- Color defects with partial wood defects GO TO DEFECT DESCRIPTION
- ► Knots with bark inclusions, holes from fallen out knots GO TO DEFECT DESCRIPTION

Beads from side plates (traces of side plates) GO TO

GO TO DEFECT DESCRIPTION

Allowable without limitations.

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Edge and medial ones are allowable without number limitation.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable with diameter up to 40 mm and without number limitations.

Dents GO TO DEFECT DESCRIPTION

Allowable

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable without number limitation.

Double plug repair GO TO DEFECT DESCRIPTION

Allowable without number limitation but not in color and orientation.

Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage

Allowable width is up to 10 mm.

Glue seepage GO TO DEFECT DESCRIPTION

Allowable

Glue thread GO TO DEFECT DESCRIPTION

Allowable

Grinding of outer layers GO TO DEFECT DESCRIPTION

Allowable up to 5% of sheet area.

Inserted glued veneer parts GO TO DEFECT DESCRIPTION

Allowable

Knots with bark inclusions, holes from fallen out knots

GO TO DEFECT DESCRIPTION

Allowable with diameter up to 40 mm and no limitations in number (bark patch inclusions are allowable nearby knot with width 5 mm).

Live sound knots (light and dark) GO TO DEFECT DESCRIPTION

Light and dark ones with no limitation in diameter and number are allowable.

Manufacturing stains (beam traces, lines) GO TO DEFECT DESCRIPTION

Allowable

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Metal inclusions GO TO DEFECT DESCRIPTION

Nonferrous metals staples are allowable.

Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage

Allowable without limitation.

Open splits, open seam on spliced veneer GO TO DEFECT DESCRIPTION

Allowable the length up to 800 mm, width up to 10 mm, without number limitations.

Overlapping GO TO DEFECT DESCRIPTION

Allowable without limitation.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable with diameter up to 40 mm and without number limitations.

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Plug repair GO TO DEFECT DESCRIPTION

Insertions are allowable without number limitation but not in color and orientation.

Pocket (without bark) GO TO DEFECT DESCRIPTION

Allowable

Rippling (for sanded plywood), roughness of sawn surface

GO TO DEFECT DESCRIPTION

Allowable

Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION

Allowable up to 50% of sheet area.

Scratches, scars, pimples, ridges GO TO DEFECT DESCRIPTION

Allowable

Scuffleness non-smooth GO TO DEFECT DESCRIPTION

Allowable

Sound color changes (false core) GO TO DEFECT DESCRIPTION

Allowable up to 75% of sheet area.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (stringers, traces of stringers)

GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (veins groups) GO TO DEFECT DESCRIPTION

Allowable without limitations.

Split repair with patches or plug repairs

GO TO DEFECT DESCRIPTION

Allowable

Warpage **GO TO DEFECT DESCRIPTION**

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light and dark bark pocket)

GO TO DEFECT DESCRIPTION

Light bark pocket is allowable, dark bark pocket is allowable in the size of intergrown knots.

- Blisters, delamination, bark GO TO DEFECT DESCRIPTION
- Color defects with partial wood defects GO TO DEFECT DESCRIPTION

Beads from side plates (traces of side plates)

GO TO DEFECT DESCRIPTION

Allowable without limitations.

Biological defects (wormholes) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Closed cracks GO TO DEFECT DESCRIPTION

Edge and medial ones are allowable without number limitation.

Color defects with partial wood defects GO TO DEFECT DESCRIPTION

Allowable in the form of separate strips with width not more than 30 mm, length up to 200 mm, 2 pcs/m of sheet length.

Dead knots, falling out knots, holes from fallen out knots GO TO DEFECT DESCRIPTION (without bark)

Allowable with diameter up to 70 mm and without number limitations.

Dents GO TO DEFECT DESCRIPTION

Allowable

Deviations in wood structure (curly-grain, burl) GO TO DEFECT DESCRIPTION

Allowable with no limitation.

Deviations in wood structure (eyes) GO TO DEFECT DESCRIPTION

Allowable without number limitation.

Double plug repair GO TO DEFECT DESCRIPTION

Allowable without number limitation but not in color and orientation.

Edge defects because of grinding, GO TO DEFECT DESCRIPTION cuts (edging), veneer shortage

Allowable width is up to 25 mm.

Glue seepage GO TO DEFECT DESCRIPTION

Allowable

Glue thread GO TO DEFECT DESCRIPTION

Allowable

Grinding of outer layers GO TO DEFECT DESCRIPTION

Allowable up to 5% of sheet area.

Inserted glued veneer parts GO TO DEFECT DESCRIPTION

Allowable

Knots with bark inclusions, holes from fallen out knots

GO TO DEFECT DESCRIPTION

Allowable with diameter up to 70 mm and no limitations in number (bark patch inclusions are allowable nearby knot with width 5 mm).

Live sound knots (light and dark) GO TO DEFECT DESCRIPTION

Light and dark ones with no limitation in diameter and number are allowable.

Manufacturing stains (beam traces, lines) GO TO DEFECT DESCRIPTION

Allowable

Mechanical damage (splits, kerfs) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Metal inclusions GO TO DEFECT DESCRIPTION

Nonferrous metals staples are allowable.

Mineral streaks, sap stains (bluestain, color sap spots), GO TO DEFECT DESCRIPTION color change at wood storage

Allowable without limitation.

Open splits, open seam on spliced veneer

GO TO DEFECT DESCRIPTION

Allowable with the width up to 15 mm, without number limitations.

Overlapping GO TO DEFECT DESCRIPTION

Allowable without limitation.

Partially intergrown knots GO TO DEFECT DESCRIPTION

Allowable with diameter up to 70 mm and without number limitations.

Pin knot GO TO DEFECT DESCRIPTION

Allowable with no limitation in sizes and number.

Plug repair **GO TO DEFECT DESCRIPTION**

Insertions are allowable without number limitation but not in color and orientation.

Pocket (without bark) GO TO DEFECT DESCRIPTION

Allowable

Rippling (for sanded plywood), roughness of sawn surface GO TO DEFECT DESCRIPTION

Allowable

Sander skips (non-uniform sanding) GO TO DEFECT DESCRIPTION

Allowable

Scratches, scars, pimples, ridges **GO TO DEFECT DESCRIPTION**

Allowable

Scuffleness non-smooth GO TO DEFECT DESCRIPTION

Allowable

Sound color changes (false core) GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (mottles) GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (stringers, traces of stringers)

GO TO DEFECT DESCRIPTION

Allowable without limitation.

Sound color changes (veins groups) GO TO DEFECT DESCRIPTION

Allowable without limitations.

Split repair with patches or plug repairs GO TO DEFECT DESCRIPTION

Allowable

Warpage GO TO DEFECT DESCRIPTION

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

Wood defects (open inbark) GO TO DEFECT DESCRIPTION

It is allowable within the total number in accordance with the norms for black knots.

Wood structure defects (grown together light GO TO DEFECT DESCRIPTION and dark bark pocket)

Light bark pocket is allowable, dark bark pocket is allowable in the size of intergrown knots.

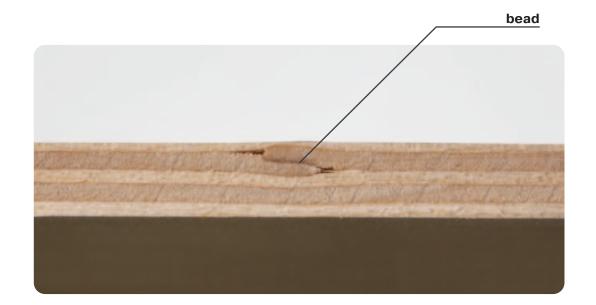
Blisters, delamination, bark GO TO DEFECT DESCRIPTION

1. BEADS FROM SIDE PLATES (TRACES OF SIDE PLATES)

Bead means a local thickening caused by overlapping of the inner layers of veneer sheet.



Both length and width shall be measured.





B, S, B Sel, S Sel Not allowable BB, BBx

Allowable length is up to 200 mm; width is up to 10 mm, or 3 pcs/sheet.

CP, WGE

Allowable length is up to 600 mm; width is up to 10 mm, or 5 pcs/sheet.

WG

Allowable width is up to 10 mm.

C, CCAllowable without limitations.

2. BIOLOGICAL DEFECTS (WORMHOLES)

Wormhole means channels or holes left in the timber by insects or larvae.



Wormhole shall be measured at the part with largest diameter.







B, S, B Sel, S Sel, BB, BBx, CP, WG, WGE, C, CC It is allowable within the total number in accordance with the norms for black knots.

3. BLISTERS, DELAMINATION, BARK

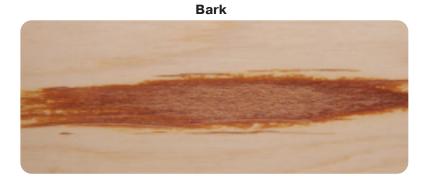
Blister is local plywood surface bulging due to delamination.

Delamination is separation of two adjacent veneer sheet layers along glue line.

Bark is part of bark or bast remaining on veneer sheet area.







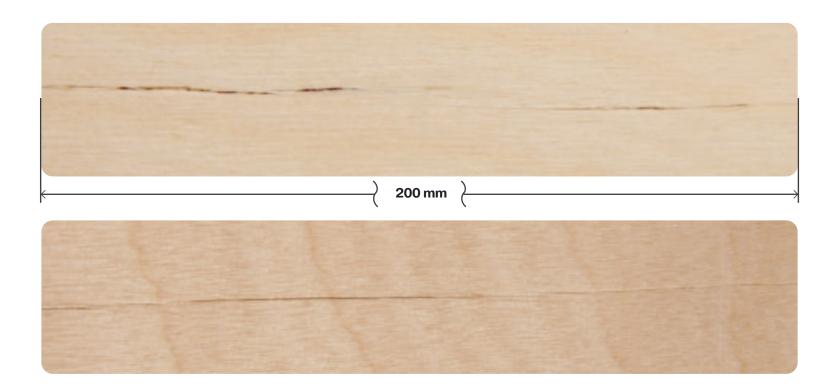


4. CLOSED CRACKS

Closed shake is a chap with width not more than 0.2 mm.



Closed shake is measured on maximal length and width.





B, SAllowable the length up to 200 mm, 5 pcs/m of sheet width.

B Sel, S Sel Allowable the length up to 200 mm, 2 pcs/m of sheet width. BB, BBx Allowable the length up to 300 mm, 5 pcs/m of sheet width. **CP, WG, WGE, C, CC**Edge and medial ones are allowable without number limitation.

5. COLOR DEFECTS WITH PARTIAL WOOD DEFECTS

Non sound color change means undue in color wood parts with reducing of hardness caused by wood-destroying fungi.









B, S, B Sel, S Sel, BB, BBx, CP, WG, WGE, C Not allowable

CC

Allowable in the form of separate strips with width not more than 30 mm, length up to 200 mm, 2 pcs/m of sheet length.

6a. DEAD KNOTS, FALLING OUT KNOTS, HOLES FROM FALLEN OUT KNOTS (WITHOUT BARK)

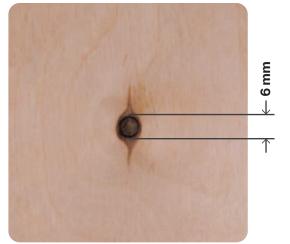
Black knot is a knot without intergrowth of annual rings with surrounding wood or intergrowth along less than 1/4 of knot size perimeter.

Fallen out knot is a knot without intergrowth with surrounding wood and tightly standing in it.

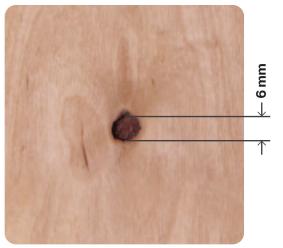


Arithmetical average of minimal and maximal diameters is set as knot (hole) diameter.

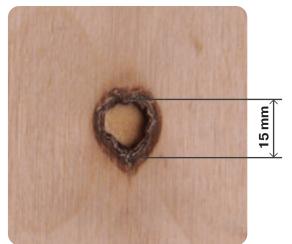




Hole of fallen out knot



Hole of fallen out knot





B, S, BB, BBxAllowable among black knots with diameter up to 6 mm, 3 pcs/.m².

B Sel, S Sel

Allowable with diameter up to 6 mm, 2 pcs/m².

CP, WGE

Allowable with diameter up to 6 mm and without number limitations.

WG

Allowable with diameter up to 15 mm, 7 pcs/m².

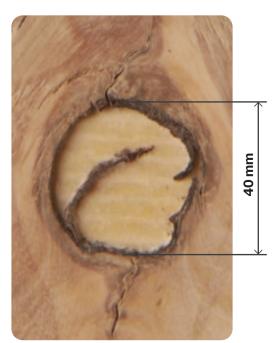
6b. DEAD KNOTS, FALLING OUT KNOTS, HOLES FROM FALLEN OUT KNOTS (WITHOUT BARK)

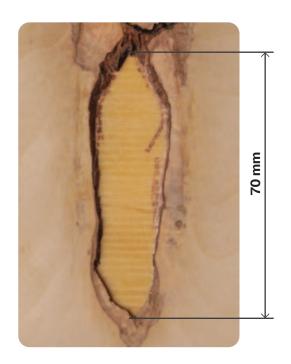
Black knot is a knot without intergrowth of annual rings with surrounding wood or intergrowth along less than 1/4 of knot size perimeter.

Fallen out knot is a knot without intergrowth with surrounding wood and tightly standing in it.



Arithmetical average of minimal and maximal diameters is set as knot (hole) diameter.







Allowable with diameter up to 40 mm and without number limitations.

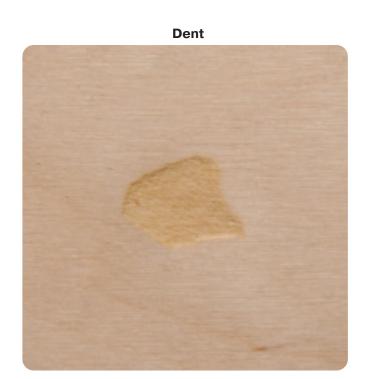
Allowable with diameter up to 70 mm and without number limitations.

7. DENTS

Dent means a local denting of the external layer.



Dent length, width and depth shall be measured.







B, S, B Sel, S Sel, BB, BBxNot allowable

CP, WGE

Allowable height (depth) is up to 0.5 mm, length is up to 120 mm, and width is up to 10 mm.

WG

Allowable width is up to 120 mm.

C, CC Allowable

8. DEVIATIONS IN WOOD STRUCTURE (CURLY-GRAIN, BURL)

Curly-grain is curved or disordered arrangement of wood fibers.

Burl is local curvature of annual rings caused by knots and bark pockets.



Curly-grain, eyes and burls are not measured. Their presence is registered as assortment making feature.







Allowable all sorts with no limitation.

9. DEVIATIONS IN WOOD STRUCTURE (EYES)

Eyes mean traces of non-deferred shoots. Eyes diameter is not more than 5 mm.

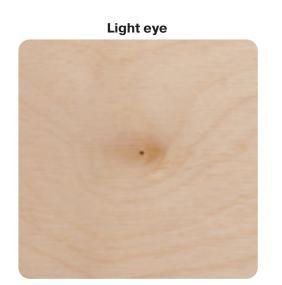
Dark eyes mean eyes with much darker wood than surrounding wood.

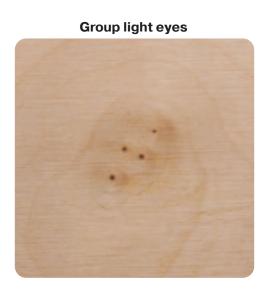
Light eyes mean eyes with wood color similar to surrounding wood.

Group eyes mean eyes grouped by three or more and separated in not more than 10 mm.



Curly-grain, eyes and burls are not measured. Their presence is registered as assortment making feature.









B, S, BB, BBx, CP, WG, WGE, C, CC Allowable without number limitation.

B Sel, S Sel Allowable excluding dark eyes.

10. DOUBLE PLUG REPAIR





BBAllowable
max 1 pcs/m².

CP, WG, WGE, C, CCAllowable without number limitation but not in color and orientation.

11. EDGE DEFECTS BECAUSE OF GRINDING, CUTS (EDGING), VENEER SHORTAGE

Veneer shortage means a defect characterized by lack of part of the veneer sheet in the plywood.

Edging means continuous or discontinuous area on the edge of the plywood with not completely separated wood fibers.



Edge defects because of grinding, cuts, veneer shortage measured along the max distance from the defect to the plywood sheet edge.

Veneer shortage



Veneer shortage



Veneer shortage in the inner layers



Shatters (defect due to cutting)





S, BB, BBx, CP, WG, WGE Allowable width is up to 5 mm along the edge.

C Allowable width is up to 10 mm.

Allowable width is up to 25 mm.

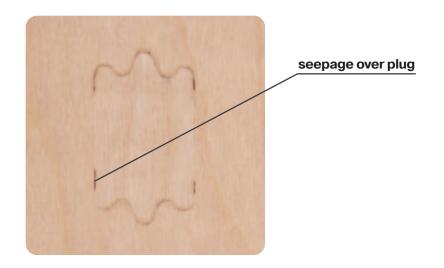
12. GLUE SEEPAGE

Glue seepage is a defect in the form of strips and spots on plywood surface caused by glue penetration from lower glue layer.



It is determined as sum of separate spots squares on plywood surface to whole sheet area.







B, B Sel, S SelNot allowable

Allowable up to 1% of sheet area.

BB, BBx

Allowable up to 2% of sheet area (for 3 to 21 mm thickness).

Allowable up to 5% of sheet area (for thickness 24 mm and above).

CP, WGE

Allowable up to 5% of sheet area (for 3 to 21 mm thickness).

Allowable up to 10% of sheet area (for thickness 24 mm and above).

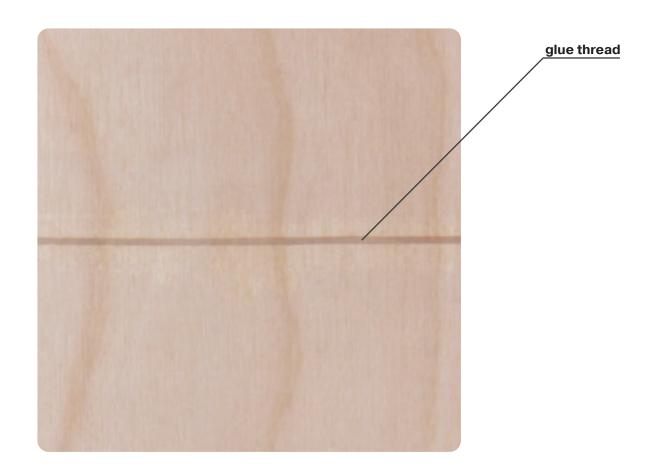
WG

Allowable up to 10% of sheet area (for 3 to 21 mm thickness).

Allowable up to 15% of sheet area (for thickness 24 mm and above).

C, CC Allowable

13. GLUE THREAD





CP, WG, WGE, C, CCAllowable

14. GRINDING OF OUTER LAYERS

Grinding of outer layers is local removing of veneer sheet external layer to glue layer.



Measured along the length and width of the area of their location, and shall be expressed in percentage of the plywood sheet square.

Grinding on MR-glue plywood



Grinding on WBP plywood





B, S, B Sel, S Sel, BB, BBx Not allowable CP, WG, WGE

Allowable up to 1% of sheet area (for 3 to 21 mm thickness). Allowable up to 2% of sheet area (for thickness 24 mm and above).

C, CCAllowable up to 5% of sheet area.

15. INSERTED GLUED VENEER PARTS

Inserted glued veneer parts mean parts of veneer sheet glued (pressed) on plywood surface.



Patched parts are measured by length and width.







B, S, B Sel, S Sel, BB, BBx Not allowable **CP, WG, WGE**Allowable length is up to 150 mm, width is up to 30 mm;
1 pcs per sheet.

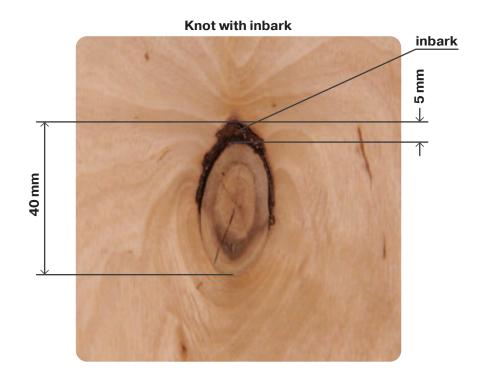
C, CC Allowable

16. KNOTS WITH BARK INCLUSIONS, HOLES FROM FALLEN OUT KNOTS

Inbark is part of bark remaining on knot surface.



Arithmetical average of minimal and maximal diameters is set as knot (hole) diameter.





B, S, B Sel, S Sel, BB, BBx, CP, WG, WGE Not allowable

C

Allowable with diameter up to 40 mm and no limitations in number (bark patch inclusions are allowable nearby knot with width 5 mm).

CC

Allowable with diameter up to 70 mm and no limitations in number (bark patch inclusions are allowable nearby knot with width 5 mm).

17a. LIVE SOUND KNOTS (LIGHT AND DARK)

Intergrown knot is a knot with annual rings intergrown with surrounding wood along not less than 3/4 of knot section perimeter.

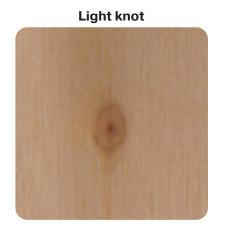
Sound knot is a knot with wood free of dote.

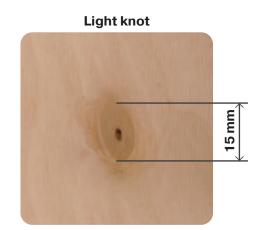
Light sound knot is a sound knot with light wood similar in color to surrounding wood.

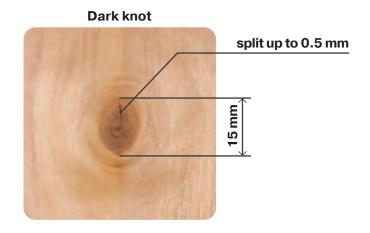
Dark sound knot is a sound knot with wood much darker than surrounding wood, richly saturated with tar, tanning and heart materials, often with mottling.



Arithmetical average of minimal and maximal diameters is set as knot (hole) diameter.









Light ones with diameter up to 15 mm with chap up to 0.5 mm, 5 pcs/m² are allowable.

S

Light and dark ones with diameter up to 15 mm with chap up to 0.5 mm, 5 pcs/m² are allowable.

B Sel, S Sel Not allowable

17b. LIVE SOUND KNOTS (LIGHT AND DARK)

Intergrown knot is a knot with annual rings intergrown with surrounding wood along not less than 3/4 of knot section perimeter.

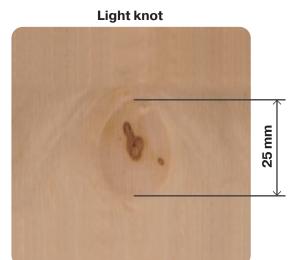
Sound knot is a knot with wood free of dote.

Light sound knot is a sound knot with light wood similar in color to surrounding wood.

Dark sound knot is a sound knot with wood much darker than surrounding wood, richly saturated with tar, tanning and heart materials, often with mottling.

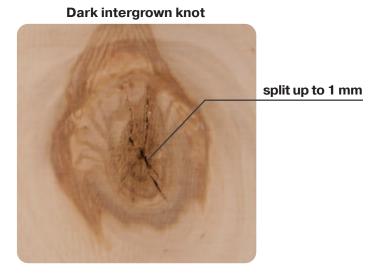


Arithmetical average of minimal and maximal diameters is set as knot (hole) diameter.



Dark knot with chap

We go to the control of the co



BB, BBx Light and dark ones with diameter up to 25 mm with chap up to 1 mm, 10 pcs/m² are allowable.

CP, WGELight and dark ones
with no limitation in diameter
with chap up to 1 mm are allowable.

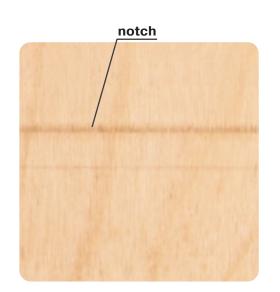
WG, C, CC
Light and dark ones
with no limitation in diameter
and number are allowable.

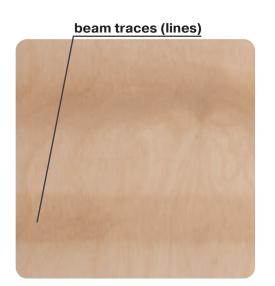
18. MANUFACTURING STAINS (BEAM TRACES, LINES)

Notch is a trace of cutter on material surface.



Determined as assortment making feature.







BB, BBx Allowable not more than 10% of sheets in pack. **CP, WG, WGE, C, CC**Allowable

19. MECHANICAL DAMAGE (SPLITS, KERFS)

Split is local damage by sharp object.

Kerf is local damage in sawing process.

Breaking out is surface cavity due to local wood removing during processing.



The largest diameter of pinhole is measured.





Kerf



Breaking out of grain





B, S, B Sel, S Sel, BB, BBx, CP, WG, WGE, C, CC It is allowable within the total number in accordance with the norms for black knots.

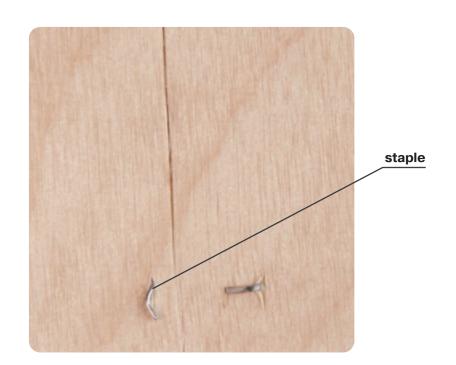
20. METAL INCLUSIONS

Metal inclusions mean metal inclusions such as nonferrous metals staples etc., in inner and external plywood layers.



Not measured, determined as assortment making feature.







CP, WG, WGE, C, CCNonferrous metals staples are allowable.

21. MINERAL STREAKS, SAP STAINS (BLUESTAIN, COLOR SAP SPOTS), COLOR CHANGE AT WOOD STORAGE

Mineral streak is wood coloration in pale shades not masking its structure.

Bluestain is sap grey coloration with faint bluish tinge greenish cast.

Color sap spots are orange, yellow, pink (to light-purple) and brown sap color.



The defects shall be measured along the length and width of the area of their location, and shall be expressed in percentage of the plywood sheet square.





B, SAllowable up to 30% of sheet area.

B Sel Not allowable **S Sel** Allowable on 5% of sheet area.

BB, BBx Allowable up to 50% of sheet area (with false core). **CP, WG, WGE**Allowable up to 75% of sheet area (with false core).

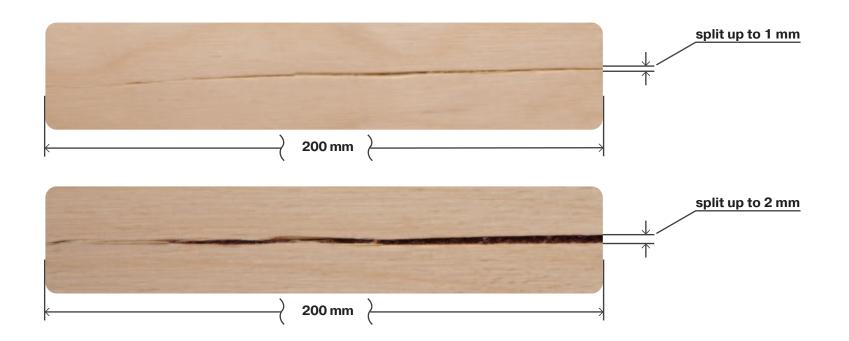
C, CCAllowable without limitation.

22a. OPEN SPLITS, OPEN SEAM ON SPLICED VENEER

Open splits is a split with width over 0.2 mm.



Open splits and open seam are measured by maximal length and width.





B, B SelNot allowable

S, S Sel

Allowable the length up to 200 mm, width up to 1 mm, 2 pcs/m of sheet width.

BB

Allowable the length up to 250 mm, width up to 2 mm, 3 pcs/m of sheet width.

BBx

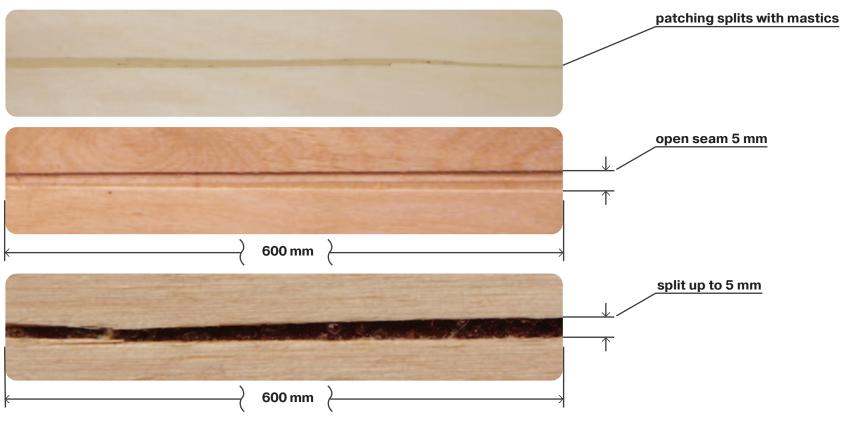
Allowable the length up to 200 mm, width up to 2 mm, 3 pcs/m of sheet width.

22b. OPEN SPLITS, OPEN SEAM ON SPLICED VENEER

Open splits is a split with width over 0.2 mm.



Open splits and open seam are measured by maximal length and width.





CP, WGE

Allowable the length up to 600 mm, width up to 2 mm, 2 pcs/m of sheet width.

Allowable the length up to 600 mm, width up to 5 mm, providing patching with mastic.

WG

Allowable the length up to 600 mm, width up to 5 mm,

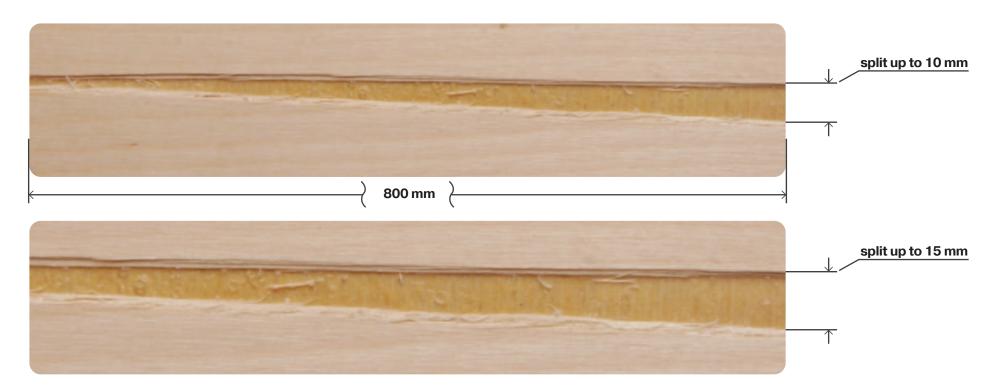
2 pcs /m of sheet width.

22c. OPEN SPLITS, OPEN SEAM ON SPLICED VENEER

Open splits is a split with width over 0.2 mm.



Open splits and open seam are measured by maximal length and width.





Allowable the length up to 800 mm, width up to 10 mm, without number limitations.

CC

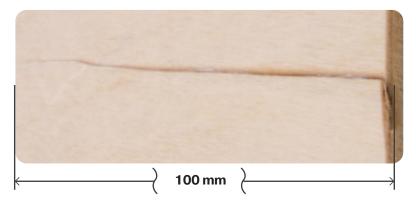
Allowable with the width up to 15 mm, without number limitations.

23. OVERLAPPING

Overlapping is a local thickening caused by overlapping of veneer sheets in the external layer of plywood.



Overlapping is measured on maximal length and width.







B, S, B Sel, S SelNot allowable

BB, BBx
Allowable
the length
up to 100 mm,
width up to 2 mm,
1 pcs/m of sheet width.

CP, WGE
Allowable
the length
up to 300 mm,
width up to 2 mm,
2 pcs/m of sheet width.

WG Allowable the length up to 600 mm, width up to 4 mm, 2 pcs/m of sheet width. **C, CC**Allowable without limitation.

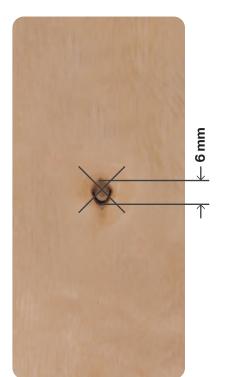
106

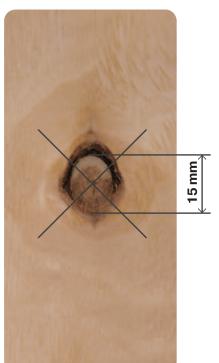
24. PARTIALLY INTERGROWN KNOTS

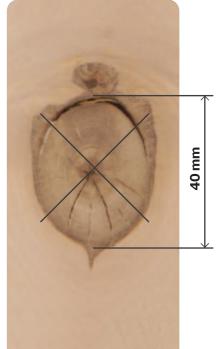
Partially intergrown knot is a knot with annual rings intergrown with surrounding wood along from 1/4 to 3/4 of knot section perimeter.

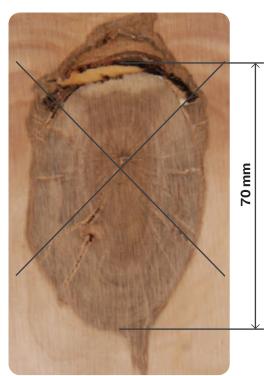


Arithmetical average of minimal and maximal diameters is set as knot (hole) diameter.











B, SAllowable among black knots with diameter up to 6 mm, 3 pcs/m².

B Sel, S Sel

Allowable among black knots with diameter up to 6 mm, 2 pcs/m^2 .

BB, BBx, CP, WG, WGE Allowable among intergrown knots with diameter up to 15 mm, 10 pcs/m².

Allowable with diameter up to 40 mm and without number limitations.

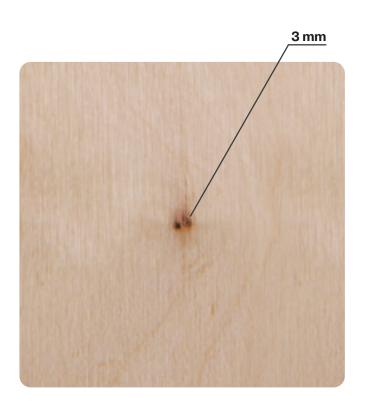
Allowable with diameter up to 70 mm and without number limitations.

25. PIN KNOT

Pin knot is a sound intergrown knot with diameter not more than 3 mm.



Arithmetical average of minimal and maximal diameters is set as knot (hole) diameter.







Allowable for all sorts with no limitation in sizes and number.

26. PLUG REPAIR

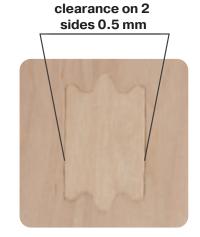








clearance on one





B, B Sel, BBxNot allowable

S, S Sel

1 pcs/m² is allowable with color and grain flow match.

BB

8 pcs/m² is allowable with color and grain flow match.

CP, WGE

Insertions with gap on one side up to 1 mm (or on both sides 0.5 mm) are allowable without number limitation but not in color and orientation.

WG, C, CC

Insertions are allowable without number limitation but not in color and orientation.

27. POCKET (WITHOUT BARK)

Pocket is a cavity within wood or between annual rings filled in with tar or gum.



Both length and width shall be measured for pockets.





BB, BBx Allowable in size of group stringers (60x40 mm) 1 pcs/m².

CP, WG, WGE, C, CCAllowable

28. RIPPLING (FOR SANDED PLYWOOD), ROUGHNESS OF SAWN SURFACE

Rippling means surface irregularities in the form of regularly alternating elevations and arch shaped hollows.

Roughness means on the surface there are often occurring not completely separated wood fibers.

Roughness of sawn surface means on the surface there are often occurring small hollows, oriented along the fibers.



The defects shall be measured along the length and width of the area of their location, and shall be expressed in percentage of the plywood sheet square.





B, S, B Sel, S Sel, BB, BBx Not allowable **CP, WG, WGE, C, CC**Allowable

29. SANDER SKIPS (NON-UNIFORM SANDING)



The defects shall be measured along the length and width of the area of their location, and shall be expressed in percentage of the plywood sheet square.







B, B Sel, S SelNot allowable

S, BB, BBxAllowable
5 mm from the edge.

CP, WG, WGEAllowable up to 5% of sheet area.

Allowable up to 50% of sheet area.

CC Allowable

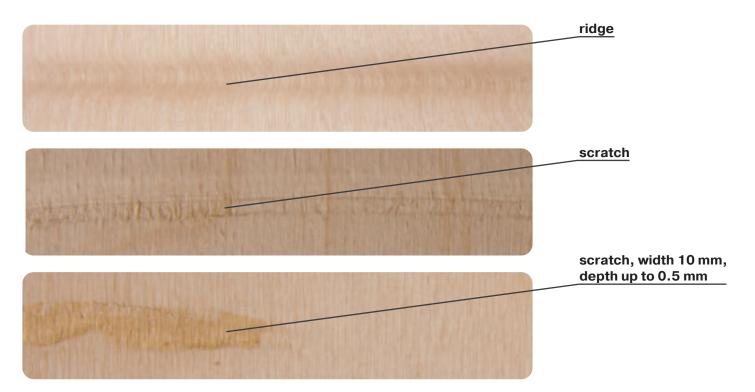
30. SCRATCHES, SCARS, PIMPLES, RIDGES

Scratch is surface damage in the form of long narrow cavity caused by sharp object.

Ridge is a section in the form of narrow strip projecting above the surface.



Dent length, width and depth shall be measured.





B, S, B Sel, S Sel, BB, BBx Not allowable CP, WGE
Allowable
height (depth) is up to 0.5 mm,
length is up to 120 mm,
width is up to 10 mm.

WGAllowable width is up to 120 mm.

C, CC Allowable

31. SCUFFLENESS NON-SMOOTH

Scuffleness non-smooth is a surface cavity due to local wood removing during processing.



The defects shall be measured along the length and width of the area of their location, and shall be expressed in percentage of the plywood sheet square.







BB, BBx Allowable up to 5% of sheet area. **CP, WG, WGE**Allowable up to 15% of sheet area.

C, CCAllowable

32. SOUND COLOR CHANGES (FALSE CORE)

False core is dark varicolored heart the border of that usually does not match with annual rings. It is separated from sapwood with dark (less often light) border and solid as surrounding wood.



The false core shall be measured along the length and width of the area of their location, and shall be expressed in percentage of the plywood sheet square.







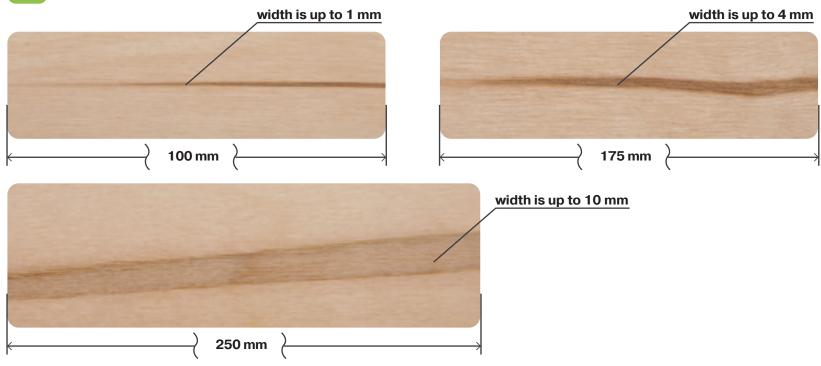
B, S, B Sel, S Sel Not allowable BB, BBx Allowable up to 25% of sheet area. **CP, WG, WGE, C**Allowable up to 75% of sheet area.

Allowable without limitation.

Mottles mean hardwood sap color in the form of spots and strips without reducing wood hardness occurring in growing trees and similar in color to core color.



Mottles length, width and number shall be measured.





The light one up to 175 mm, width up to 4 mm, 3 pcs/m^2 .

The light one is allowable the length | is allowable the length up to 175 mm, width up to 4 mm, $5 \,\mathrm{pcs/m^2}$.

B Sel The light one is allowable the length up to 100 mm, width up to 2 mm, $3 pcs/m^2$.

S Sel The light one is allowable the length up to 250 mm, up to 175 mm, width up to 2 mm, $3 \, \text{pcs/m}^2$.

BB, BBx Allowable the length | Allowable width up to 10 mm, 10 pcs/m^2 .

CP, WG, WGE, C, CC without limitation.

34. SOUND COLOR CHANGES (STRINGERS, TRACES OF STRINGERS)

Stringers mean mottling in the form of thin yellowish and brown strips of spongy tissue located along border of annual rings.

Traces of stringers are bleached or darkish strips on veneer sheet area due to stringers under it at a depth of not more than 1 mm.



Stringers length, width and number shall be measured.









The light ones are allowable the length up to 175 mm, width up to 4 mm, 3 pcs/m^2 .

The light ones are allowable the length up to 175 mm, width up to 4 mm, $5 \,\mathrm{pcs/m^2}$.

B Sel The light ones are allowable the length up to 100 mm, width up to 2 mm, $3 pcs/m^2$.

S Sel The light ones are allowable the length ones are allowable up to 175 mm, width up to 2 mm, $3 \, \text{pcs/m}^2$.

BB, BBx The light and dark the length up to 250 mm, width up to 10 mm, 10 pcs/m².

CP, WG, WGE, C, CC Allowable without limitation.

35. SOUND COLOR CHANGES (VEINS GROUPS)

Veins groups are stringers close spacing in the form of overlap strips.



Veins length, width and number shall be measured.







B, S, S SelThe light ones 30x30 mm are allowable,
1 per m².

B Sel Not allowable

BB, BBx
The light ones 60x40 mm
are allowable,
1 per m².

CP, WG, WGE, C, CCAllowable without limitations.

36. SPLIT REPAIR WITH PATCHES OR PLUG REPAIRS

Patch or plug repair if agreed with customer.





BB

Splits over 2 mm shall be filled with veneer sheet insertions with glue.

CP, WG, WGESplits over 5 mm shall be filled with veneer sheet insertions with glue.

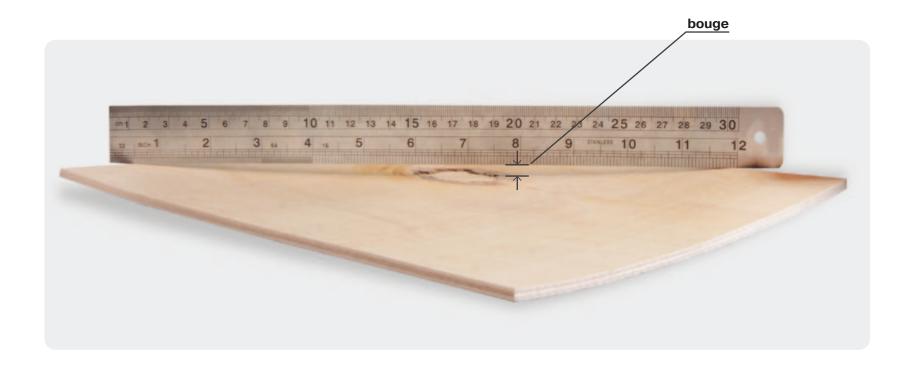
C, CC Allowable

37. WARPAGE

Warpage is a curvature of plywood sheet flatness.



It is measured by putting ruler on the cross of a sheet placed on the flat surface and measuring maximal bouge.





B, S, S Sel, BB, BBx, CP, WG, WGE, C, CC It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 15 mm by 1 m of sheet diagonal length.

B Sel

It is not considered in plywood with width up to 6.5 mm; it is allowable with width over 6.5 mm not more than 10 mm by 1 m of sheet diagonal length.

38. WOOD DEFECTS (OPEN INBARK)

Open inbark is healing streak with radial gap cavity generally filled in with bark waste and dead tissues.



Bark pocket length shall be measured.





B, S, B Sel, S Sel, BB, BBx, CP, WG, WGE, C, CC It is allowable within the total number in accordance with the norms for black knots.

39. WOOD STRUCTURE DEFECTS (GROWN TOGETHER LIGHT AND DARK BARK POCKET)

Bark pocket is healing streak or scab with radial gap cavity generally filled in with bark waste and dead tissues.

Grown together bark pocket is a trace of closed bark pocket in the form of elongated section (seam) of wave growth timber on veneer sheet area.

Light bark pocket is bark pocket with wood similar in color to surrounding wood without bark inclusions.

Dark bark pocket is bark pocket with wood much darker than surrounding wood or with bark inclusions.



Bark pocket length shall be measured.







B, S, B Sel, S SelOnly light bark pocket is allowable,
dark bark pocket is allowable in the size
and in the number among black knots.

BB, BBx, CP, WG, WGE, C, CCLight bark pocket is allowable,
dark bark pocket is allowable in the size
of intergrown knots.