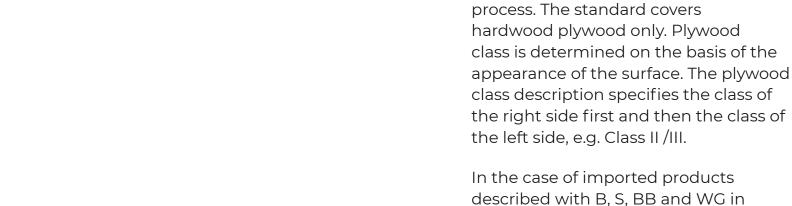


Synergy of nature and technology

Interior and exterior plywood grades

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### Surface appearance classification of hardwood plywood according to European norm PN-EN 635-2



The standard gives general

classification rules for the surface appearance of hardwood plywood according to both: defects inherent to wood characteristics and defects resulting from the manufacturing

accordance with SFS 2413, the following class relationship shall be noted: Class B (I), Class S (II), CLASS BB (III) and Class

WG (IV).



Surface appearance classification determined by **wood characteristics** 

Surface appearance classification determined by manufacturing process

### **ALLOWED**

- ✓ Pin knots
  Allowed with diameter of 3 mm; up to 3 pcs./m2
- , moved with diameter of 5 mm, up to 5 post, me
- Knots: sound, intergrown, light and dark Allowed up to 15 mm in diameter, with shake, 5 pc/m2
- ✓ Black knots, intergrown knots, loose knots, knot holes
  Allowed up to 6mm in diameter, 2 pcs/ m²
- Open shakes, open splits in spliced veneer
   Allowed up to 1/10 of the sheet's length and up to 3mm width,
   3 pcs/m when filled
- ✓ Close shakes
- Timber structure flaws (diagonal grain, swirly grain, burls. bud traces)
- ✓ Sound discoloration

  Allowed light-coloured

### ALLOWED

- Knotting and patching:
  - a) Wooden inserts
  - b) Wedges

Allowed when filled and complete, 3 pcs/m2

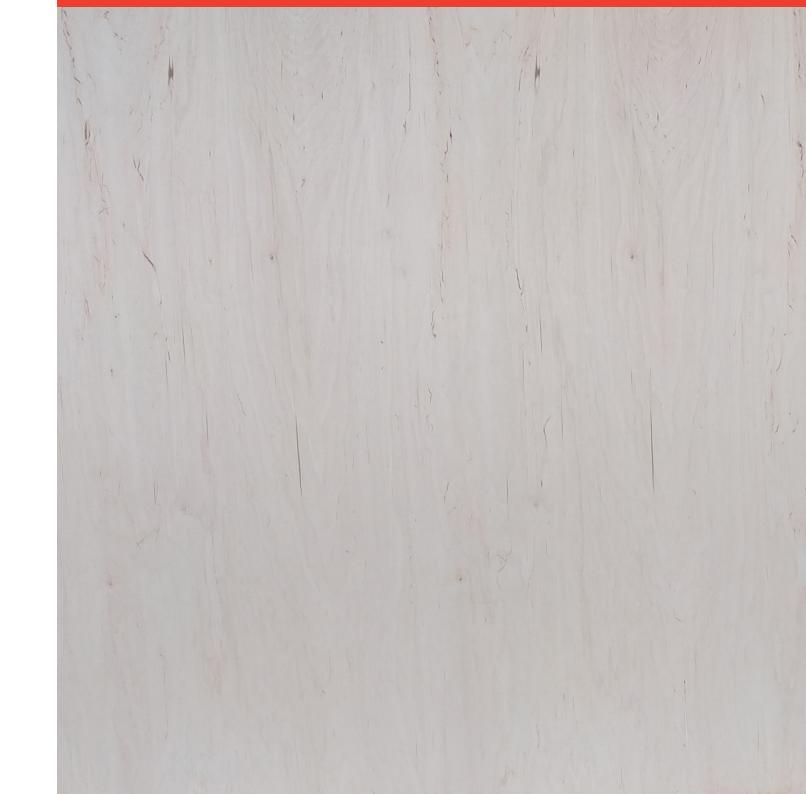
 Edge defects caused by sanding, cutting (fringe), veneer shortage

Allowed: up to 5 mm wide along the edge

#### **NOT ALLOWED**

X Inbark, light and dark

- X Overlap ridges
- X Air pockets
- X Scratches, grooves, ridges
- X Uneven sanding
- Face veneer oversanding
- Glue stains
- Metal inclusions





Surface appearance classification determined by **wood characteristics** 

Surface appearance classification determined by **manufacturing process** 

### **ALLOWED**

- **∀** Pin knots
- Knots: sound, intergrown, light and dark

Allowed up to 35 mm in diameter, with shakes.

- Black knots, intergrown knots, loose knots, knot holes Allowed up to 6 mm in diameter without filling and up to 10 mm with filling, 3 pcs/ m²
- ✓ Open shakes

Allowed up to 1/5 of the sheet's length and up to 5mm width, 3 pcs/m when filled

- Closed shakes
- ✓ Inbark, light and dark

Allowed up to 5mm in width when filled

- Timber structure flaws (diagonal grain, swirly grain, burls, bud traces)
- ✓ Sound discoloration

  Allowed light-coloured

### **ALLOWED**

✓ Overlap ridges

Allowed with length of up to 100mm. 1 pc/m2

- ✓ Glue stains

  Allowed when moderate
- Knotting and patching
  - a) Wooden inserts
  - b) Wedges

Allowed when filled and complete, 6 pcs/m2

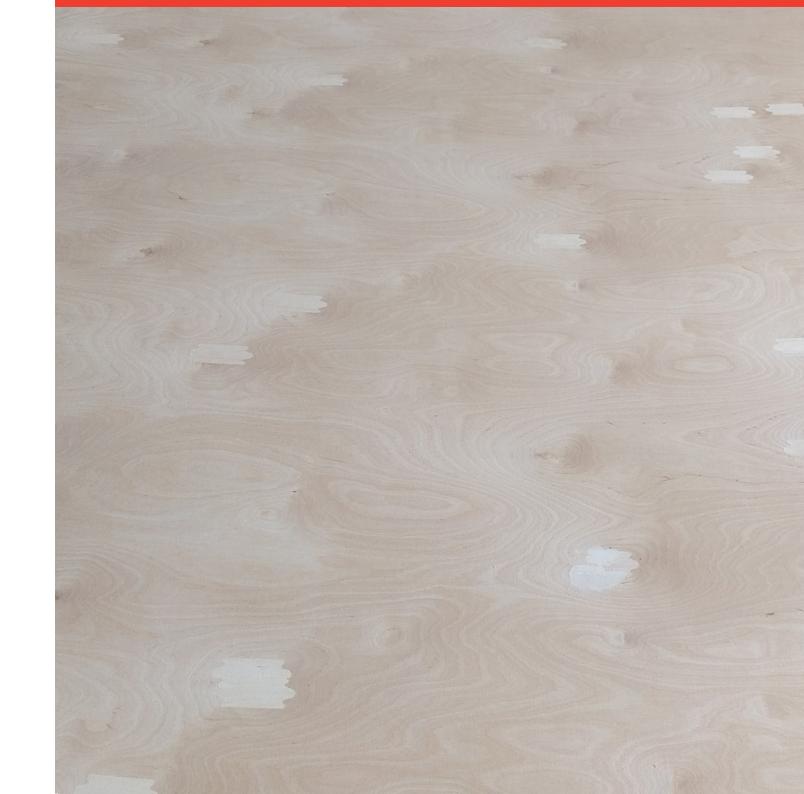
 Edge defects caused by sanding, cutting (fringe), veneer shortage

Allowed: up to 5 mm wide along the edge

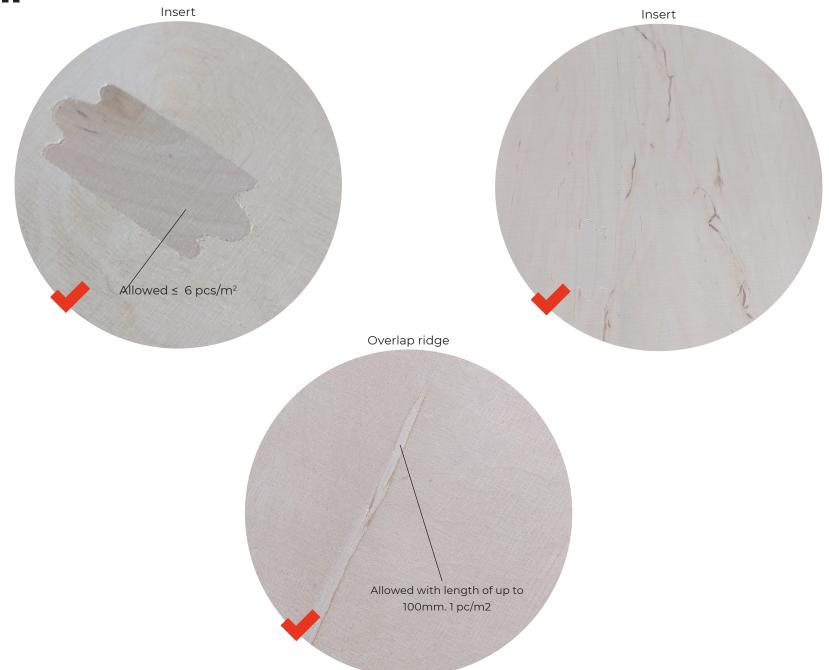
Scratches, grooves, ridges

Allowed when moderate

- X Air pockets
- X Face veneer oversanding
- Metal inclusions









Surface appearance classification determined by **wood characteristics** 

Surface appearance classification determined by **manufacturing process** 

### **ALLOWED**

✓ Pin knots

Allowed without restrictions

✓ Sound, ingrown knots

Allowed up to 50 mm in diameter, with shake.

- Black knots, intergrown knots, loose knots, knot holes
  Allowed up to 40mm in diameter
- ✓ Open shakes, open splits in spliced veneer

Allowed up to 1/3 of the sheet's length and up to 20mm width, 3 pcs/m. Allowed without restrictions when all shakes are filled.

Closed shakes

Allowed without restrictions

- ✓ Inbark, light and dark
  Allowed up to 25mm in width
- Timber structure flaws (diagonal grain, swirly grain, burls, bud traces)
- ✓ Sound discoloration

### **ALLOWED**

✓ Overlap ridges

Allowed, 2pcs/m2

- ✓ Scratches, grooves, ridges
- ✓ Uneven sanding
- ✓ Face veneer oversanding.

Allowed up to 10% of the panel's total surface

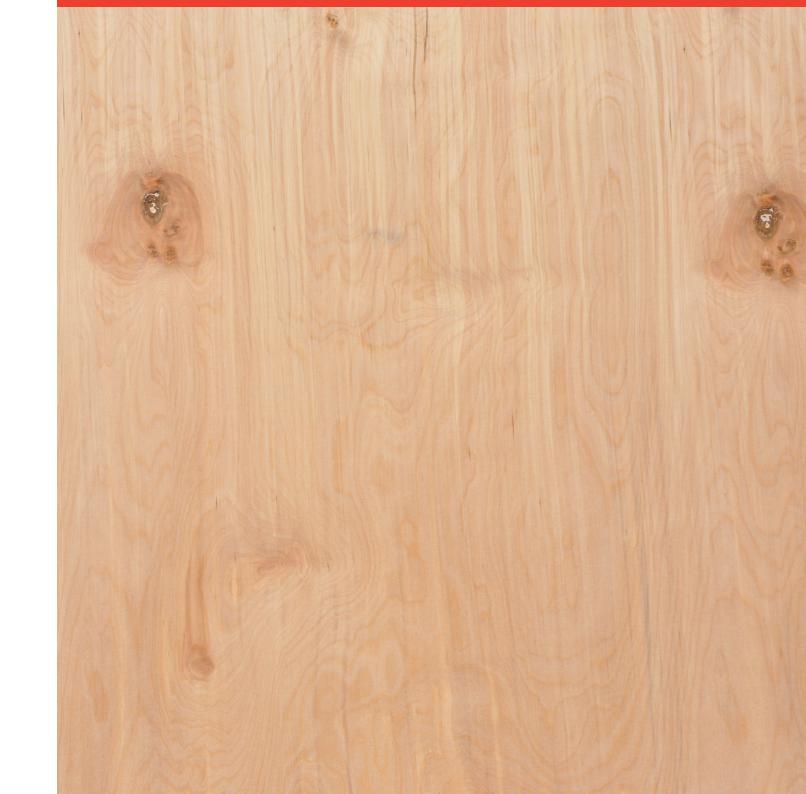
- ✓ Glue stains Allowed up to 5% of the panel's total surface
- Knotting and patching:
  - a) Wooden inserts
  - b) Wedges

Allowed without restrictions

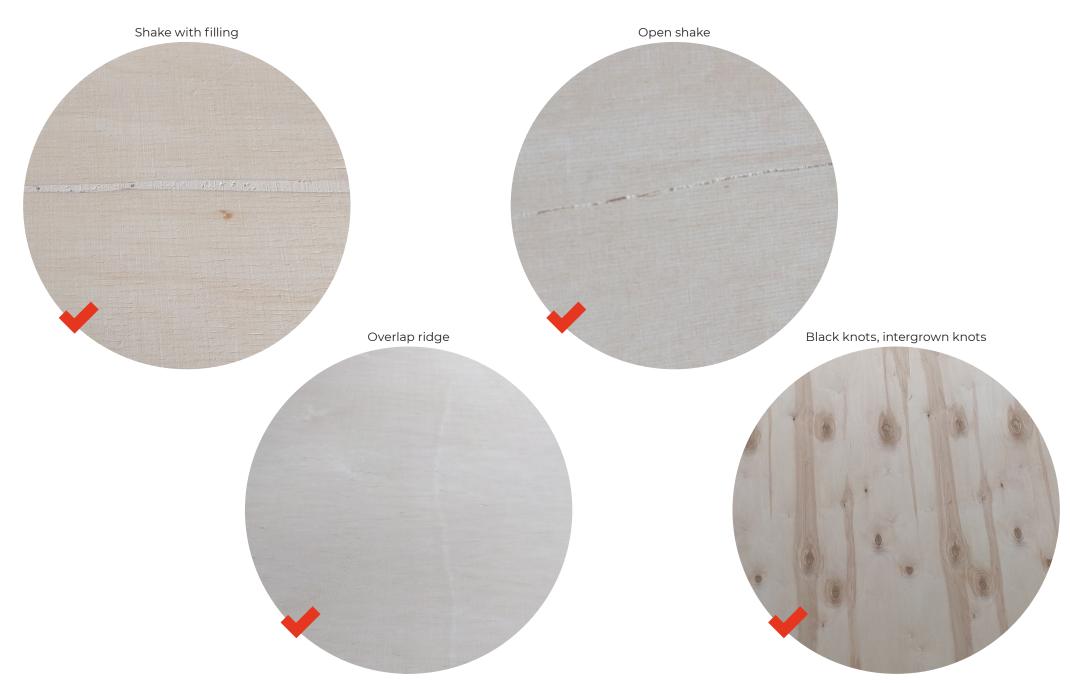
 Edge defects caused by sanding, cutting (fringe), veneer shortage

Allowed: up to 10 mm wide along the edge

- X Air pockets
- Metal inclusions







Surface appearance classification determined by **wood characteristics** 

Surface appearance classification determined by **manufacturing process** 

### **ALLOWED**

- **♥** Pin knots
- Sound, intergrown knots
  Allowed without restrictions
- → Black knots, intergrown knots, loose knots, knot holes
  Allowed without restrictions
- ✓ Open shakes
  Allowed without restrictions
- Closed shakes
- ✓ Inbark, light and dark Allowed without restrictions
- Timber structure flaws (diagonal grain, swirly grain, burls, bud traces)
- ✓ Sound discoloration

### **ALLOWED**

- ✓ Overlap ridges
  - Allowed without restrictions
- ✓ Scratches, grooves, ridges
- ✓ Uneven sanding
- Face veneer oversanding

  Allowed up to 20% of the panel's total surface
- **✓** Glue stains
  - Allowed without restrictions
- Knotting and patching:
  - a) Wooden inserts
  - b) Wedges
  - Allowed without restrictions when filled and complete
- Edge defects caused by sanding, cutting (fringe), veneer shortage

Allowed: up to 10 mm wide along the edge

- X Air pockets
- Metal inclusions

