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ROUGH ACCOYA® WOOD
4 sides primarily clear with total allowance (combination of all sides) of the following:

**LESS THAN 50 MM THICKNESS:**

Up to 3 of the following defects or equivalent:
- Knot (pin): 8 mm or less
- Bark or resin pocket: 8 mm wide, 50 mm long or equivalent

**50 MM THICKNESS AND GREATER:**

Up to 6 of the following defects or equivalent:
- Knot (intergrown, partially intergrown and tight encased): 15 mm
- Bark or resin pocket: 10 mm wide, 100 mm long or equivalent

**RESIN STREAKS**

Three up to 8 mm wide, 100 mm long or equivalent, slightly more for a short distance.

**SURFACE CHECKS**

- Three up to 1 mm wide, 250 mm long or equivalent, slightly more for a short distance.
- For boards 200-300 mm wide the following additional allowance applies: Up to 1 surface check per 50 mm width, no wider than 1 mm, 250 mm long or equivalent, slightly more for a short distance.

**SPLITS**

Short split, up to width of board and not to exceed 200 mm.

**NEEDLE FLECK / BIRDS EYE**

Medium birds eye or fleck.

**WARP**

As given in tables 1,2,3,4.

**WANE**

Up to 8mm in depth, ¼ length of board of equivalent, slightly more for short distance. Transport damage is permitted within the same wane limits.

**SURFACE FINISH**

Supplied sawn.
A1

SURFACED FRONT SIDE

SURFACED BACKSIDE
Accoya® finger jointed is bonded with EPI adhesive. It offers fixed width, engineered sections for joinery under the KOMO joinery certificate for finger joint quality. Accoya® has been finger jointed under the KOMO scheme successfully since 2007, predominantly for the Dutch market.

NOTE: Finger joints are rated for use as joinery and not in-ground.

FINGER JOINT QUALITY CERTIFICATION FOR OPAQUE JOINERY USE:

PERMITTED:
- Sound knots, diameter <5mm near the finger joint, are not considered defects
- Bigger sound knots, up to 15mm diameter are only within grade if the distance from knot to finger joint is at least 3 times the diameter of the knot, with a maximum of 2 knots on a block.
- Maximum size (diameter) of the knots are: up to 15mm diameter for board widths to 150mm and up to 20mm for board widths of 200mm
- Calibrated on at least 2-sides (one square angle)
- Thickness: +/- 1.0mm
- Width: -1mm / +3mm
- Surface discolouration

NOT PERMITTED:
- Wane
- Cracks and checks or shell shake on the surface
- Collapse, end-, heart-, felling- or ring shake
- Unsound knots
- Knots with cracks
- Surface Resin pockets
- Rough surfaces
- Open fingers
- Jointed blocks of <250mm length
FINGER JOINTED

FINGER JOINTED
AS DELIVERED
A2 MINIMUM GRADE DEFINITION

A2 THINNER DIMENSIONS < 50 MM

**BETTER FACE AND EDGE COMBINED TOTAL:**
Up to 4 of the following defects or equivalent:
- Knot (intergrown, partially intergrown and tight encased): 15 mm or equivalent smaller.
- Bark or resin pocket: 10 mm wide, 100 mm long or equivalent.

**REVERSE FACE AND EDGE COMBINED TOTAL:**
Up to 6 of the following defects or equivalent:
- Knot (intergrown, partially intergrown and tight encased): 30 mm or equivalent smaller.
- Bark or resin pocket: 10 mm wide, 100 mm long or equivalent.

**COLLAPSE**
Insufficient to affect dry-dressed dimensions.

**RESIN STREAKS**
One, 1/5 width, 1/3 length or equivalent, slightly more for a short distance.

**SURFACE CHECKS**
- Three up to 1 mm wide, 250 mm long or equivalent, slightly more for a short distance.
- For boards 200-300 mm wide the following additional allowance applies: Up to 1 surface check per 50 mm width, no wider than 1 mm, 250 mm long or equivalent, slightly more for a short distance.

**SPLITS**
Short split, up to the width of board and no more than 200 mm.

**NEEDLE FLECK / BIRDS EYE**
Medium birds eye or fleck.

**WANE**
Up to 8 mm in depth, ¼ length of board of equivalent, slightly more for short distance. Transport damage is permitted within the same wane limits.

**SURFACE FINISH**
Supplied sawn.

A2 THICKER DIMENSIONS ≥ 50 MM

**FRONT 1 (GOOD) SIDE AS A1:**

**KNOTS AND RESIN POCKETS**
Up to 6 of the following defects or equivalent:
- Knot (intergrown, partially intergrown and tight encased): 15 mm or less.
- Bark or resin pocket: 10 mm wide, 100 mm long or equivalent.
- Resin streaks, three up to 8 mm wide, 100 mm long or equivalent, slightly more for a short distance.

**SPLITS**
Short split, up to width of board and not to exceed 200 mm.

**SURFACE CHECKS**
- Three up to 1 mm wide, 250 mm long or equivalent, slightly more for a short distance.
- For boards 200-300 mm wide the following additional allowance applies: up to 1 surface check per 50 mm width, no wider than 1 mm, 250 mm long or equivalent, slightly more for a short distance.

**NEEDLE FLECK / BIRDS EYE**
Medium birds eye or fleck.

**WANE**
Up to 12 mm in depth, 1/2 length of board or equivalent, slightly more for a short distance. Transport damage is permitted within the same wane limits.

**SURFACE CHECKS**
Checks in knots are allowed.

**BACKSIDE + SIDES:**

**KNOTS AND RESIN POCKETS**
Single large defect or defect area of any type allowed, provided it is covering a board length of <500 mm. Or, a maximum of 2 large defects (25 mm width).

**SPLITS**
Short split, up to width of board and not to exceed 200 mm.

**SURFACE CHECKS**
Checks in knots are allowed.
A2

SURFACED FRONT SIDE

SURFACED BACKSIDE
These boards are all below the A2 level. Both faces containing knots, bark or resin pockets with total allowance of the following:

50 MM THICKNESS AND GREATER:

**BARK OR RESIN POCKETS**

20 mm wide, 100 mm long or equivalent, slightly more for a short distance.

**CHECKS**

Knot checks and surface checks not more than 150 mm.

**SPLITS**

Up to twice the width of the board, not more than 300 mm.

**COLLAPSE**

Insufficient to affect dry-dressed dimensions more than 1 mm per side.

**HOLES, LOOSE KNOTS, AND DECAYED KNOTS**

20 mm (40 mm in pieces exceeding 150 mm wide or 50 mm in thickness, 4 per length).

**KNOTS (INTERGROWN, PARTIALLY INTERGROWN, TIGHT ENCASED)**

100 mm (singly), sum of sizes in any combination half of the width of the piece.

**SOUND SPIKE KNOTS AND SOUND DOUBLE SPIKE KNOTS, INTERGROWN OR PARTIALLY INTERGROWN**

50 mm wide, projected length two-thirds of width of piece.

**PITH**

Up to 12 mm wide, 50% of length or equivalent, slightly more for a short distance.

**RESIN STREAKS**

1/5 width, 1/3 length or equivalent, slightly more for a short distance.

**SHAKES OTHER THAN THROUGH SHAKES**

1/5 of length.

**NEEDLE FLECK / BIRDS EYE**

unrestriced.

**WARP**

As given in tables 1,2,3,4.

**WANE**

Up to 18 mm width, 50% of length or equivalent, slightly more for a short distance. Transport damage is permitted within the same wane limits.

**SURFACE FINISH**

Supplied sawn.
B

SURFACED FRONT SIDE

SURFACED BACKSIDE
SURFACE FINISH AND DIMENSION

Accoya® boards can be rough sawn or dressed to a smaller dimension. The dressed dimensions have been selected with the intent of enabling production of the same final products. Boards are sold and classified according to their original sawn (nominal) dimension. 25 and 32mm boards have one hit and miss back face and one smooth appearance face. The hit and miss back side will generally have more process discolouration. This orientation should be maintained in finished product manufacture.

ADDITIONAL GRADE SPECIFICATIONS

Internal Defects Not Visually Present on Surface: Accoya® wood is produced from a natural resource. All wood has natural variation from tree to tree and board to board. This natural variation results in a product that can have defects naturally present within the wood. Furthermore, the process of cutting trees into lumber and drying of the lumber can induce defects such as shakes, cracks and checks. Accoya® wood is produced from lumber visually inspected on the surface to meet the grade specifications, however upon further processing internal defects can be discovered.

MANUFACTURING IMPERFECTIONS

Lumber may have slight manufacturing related imperfections.

OVERALL DEVIATION FROM SPECIFICATIONS

Up to 5% of boards off grade shall be deemed acceptable.

PROPERTY SPECIFICATION

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<td>Thickness</td>
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<tr>
<td>Width</td>
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<tr>
<td>Length</td>
<td>No more than 20 mm shorter than nominal length.</td>
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<tr>
<td>Moisture Content</td>
<td>Less than 10%.</td>
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GENERAL SPECIFICATIONS

PROPERTY SPECIFICATION

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<td>Moisture Content</td>
<td>Less than 10%.</td>
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SURFACING CONSIDERATIONS

DISCOLOURATION

The acetylation process can result in discolouration and sticker marks up to 6mm in depth, and on occasion due to wood’s natural variation slightly deeper. This is typically overcome in an application such as decking by milling 1mm off the back side and a higher proportion from the appearance side. Removal of discolouration is not typically required when opaque coatings are used.
TABLE 1: ALLOWED BOW

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<th>LENGTH [M]</th>
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### TABLE 3: ALLOWED TWIST PER 100 MM WIDTH

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Accsys is a chemical company focused on the acetylation of wood. The company operates four wholly owned subsidiaries; including a commercial scale Accoya wood facility in the Netherlands, and offices in the Netherlands, USA and UK. Accoya wood has been produced by Accsys in the Netherlands continuously since 2007. Volume has grown each year and it is now sold through distribution and selected partners around the globe.

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Accoya® wood should always be installed and used in accordance with the written instructions and guidelines of Accsys Technologies and/or its agents (available upon request). Accsys Technologies accepts no liability for any defect, damage or loss that may occur where such written instructions and guidelines are not adhered to.

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