

## Liberty Collection

Engineered Hardwood Flooring, Thickness 5/8"

<b>SPECIES</b>	White Oak (North American)
<b>WEAR LAYER, VENEER</b>	4mm, Sawn, Sanded 2 sides 80 grit, Tolerance +/- .01mm (.004")
<b>JOINT</b>	Tongue and Groove all sides
<b>THICKNESS</b>	5/8"
<b>LENGTHS AVAILABLE</b>	Random 2'-8'
<b>GRADES</b>	Select
<b>CUTS AVAILABLE</b>	Plain Sawn

<b>PLYWOOD</b>	<ul style="list-style-type: none"> <li>• 12mm thick overall, 9-ply Baltic Birch, approved structural rated hardwood plywood</li> <li>• Type 1, exterior rated adhesive   glue bond as per the NWFA bond line test standards</li> <li>• Thickness Tolerance: 12mm +/- .15mm</li> <li>• Moisture Content 6-9%</li> <li>• Stress relief cuts are made on the back side of each plank</li> </ul>
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<b>CONSTRUCTION</b>	<ul style="list-style-type: none"> <li>• Laminating top and bottom with water resistant PVA adhesive in bonding the wear layer to the plywood. The adhesive bond complies to the NWFA bond line test standards</li> <li>• Type: PVA pre-catalyzed Type 1 water resistant</li> <li>• Difference veneer and plywood moisture = +/- 2% (Max)</li> <li>• CARB compliant (no added urea formaldehyde) adhesive and plywood</li> </ul>
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<b>TOLERANCES</b>	<ul style="list-style-type: none"> <li>• Width +/- 0.25mm (.10")</li> <li>• Thickness +/- 0.125mm (.005")</li> <li>• Squareness : 0.18mm (.007") per 25.4mm (1") of width</li> <li>• Cup: Max. 0.20% across the width of a board</li> <li>• Edge Straightness : Max. 0.025% [0.7mm (.028") on 1200mm (47.25")]</li> <li>• Length Flatness: Max. 1.25% of length</li> <li>• Over wood: Max. 0.38mm (0.015")</li> </ul>
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<b>VISUAL AND SURFACE TOLERANCES</b>	<ul style="list-style-type: none"> <li>• Sanded 150 grit Surface chatter/belt marks not allowed</li> <li>• Tear out/Chip out/Surface defect: Not visible from 1.5m (60") distance viewing</li> </ul>
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<b>PACKAGING</b>	Per Order
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## Sustainability

### RAW MATERIAL SOURCING

Lacey Act Compliant , Made in USA

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### INDOOR AIR QUALITY / EMISSIONS

- CARB Phase 2 Compliant
  - EPA TSCA Title VI Compliant
  - CDPH CA1350 Compliant
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### PERFORMANCE & SAFETY TESTING

- Janka Rating: As Per Species
  - D3459 : Cycled Wood Environment Test
  - 4.2 Bond Line Test
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### GREEN BUILDING INITIATIVE CREDITS

*\*CAN POTENTIALLY CONTRIBUTE TO*

- LEED V4
- Living Building Challenge
- WELL
- Green Globes

According to the National Wood Flooring Association (NWFA), wood is hygroscopic in nature – meaning it will expand and contract as it gains or loses moisture due to changes in the ambient temperature and relative humidity. Wood flooring will perform best when the interior environment is controlled to maintain a consistent and adequate range in temperature and relative humidity, year-round.

Wood is a product of nature and, as such, will contain variations in color, grain, and character from plank to plank. Variations can include knots, cracks, sapwood, mineral streaks, burls, and other distinct features, none of which constitute a defect in the material. No single sample, display board, or photograph can fully depict the entire range of visual characteristics in a hardwood floor. Only the products that are identified as such on this document are FSC certified.