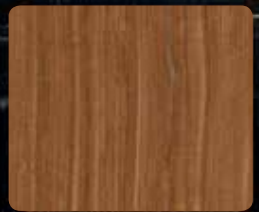
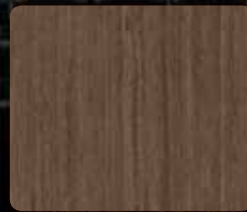


Echo Wood[®]

RECONSTITUTED WOOD VENEERS

Spectacular Interiors



Echo Wood®

RECONSTITUTED WOOD VENEERS

Hardwoods Specialty Products, one of North America's largest hardwood wholesale distributors, has teamed with Dehua TB Engineered Wood Co., LTD for the exclusive distribution of Echo Wood® in North America.

Together we are committed to provide sustainable alternatives to our natural wood resources. Echo Wood® provides endless opportunities in creating a range of looks from the most common, to the most exotic and rare species.

The process of manipulating common wood fiber through computer design and technology enables us to reproduce the natural appearance of nearly any species you desire. This environmentally responsible alternative produces architectural real wood veneers that are defect free and consistent in color and grain, time and time again.

Dehua TB Engineered Wood Co., LTD has quickly grown to one of China's largest wood processing companies with nearly 3 million square feet of manufacturing facilities, and 250,000 acres of forestry land.

The Hardwoods Specialty Products offices are located near the 395,000 square foot engineered wood veneer factory to ensure high standards of quality and strict adherence to environmental guidelines.

Dehua TB Engineered Wood Co., LTD is ISO 9001, and ISO 14001 certified for environmental management, and is certified by the Forestry Stewardship Council® (FSC®) for chain of custody.

For more than eight decades Hardwoods Specialty Products has been providing quality hardwood products to North America. We remain steadfast in our commitment to worldwide sourcing of high quality wood products, excellent customer service, competitive pricing and sustainable forestry management.



INSTALLATION

Echo Wood® can be ordered laminated to your choice of substrates, and delivered to the fabricator for further processing. The fabricator may also do their own lamination by following the installation instructions below.



SURFACE PREPARATION

Echo Wood® veneers should be bonded to a high quality backer, plywood, Medium Density Fiberboard (MDF), Particleboard (PBC) or similar product using a ridged glue line and following the directions of the adhesive manufacturer. The more resistant the substrates are to dimensional change (expansion and contraction due to humidity and temperature) the better the results. It is critical that Echo Wood® is properly acclimated a minimum of 48 hours along with the substrate and adhesive prior to fabrication. Contact cement can only be used with Echo Wood® veneers that have a phenolic backer or other backers that are approved for use with contact cement and should not be used with fleece or raw back veneer.

Before applying the Echo Wood® veneer, carefully inspect the face and back for oil, grease, wax, dirt, dust or other contaminate. The surface must be smooth, all holes, indentations, bumps or raised areas must be either filled or sanded smooth. For most panel products, a balancing backer should be used to avoid warping.

FINISHING

Echo Wood® veneers are primarily intended to have a clear lacquer, varnish, polyester or other standard finishing materials applied to them. Echo Wood® veneers can take a stain, but each species will have varying results. Test finishes on a sample before finishing a final product. Finish all edges to help prevent moisture absorption. All wood veneers will fade or change color with exposure to a strong light source. UV inhibiting finishes are necessary to retard fading or color change.

PROJECT CONDITIONS

Care should be taken to ensure that Echo Wood® veneers/panels are installed in a project that has suitable environmental conditions (ambient temperature exceeding 65 degrees Fahrenheit and relative humidity of 40-60%).

MAINTENANCE

Finished surface should be cleaned and maintained in accordance with the recommendations of the finish manufacturer's specifications.

Specification

Project specification sheets like the one below can be easily downloaded from our web site at www.hardwoods-inc.com

Item	
DESCRIPTION NAME	Reconstituted Wood - Echo Wood® Qtr Wenge (insert veneer name)
STYLE#	WG-111Q (insert veneer code)
FSC® CERTIFIED	Yes/No
LOCATION	See drawings for details
COLOR	Dark wood - Wenge
GRAIN - CUT	Straight grain cut (quartered)
THICKNESS	0.6mm
UV LIGHT RESISTANCE	UV inhibitor must be used in finish
FINISH	Clear lacquer 15% sheen
BACKING	Veneer is laminated to a substrate See drawings for details

ECHO WOOD® SPECIFICATION

Face veneer to match architect's sample. Veneers shall be cut from "A" grade Basswood or Ayous logs. Veneers shall be stacked in proprietary moulds to consistently produce grain pattern of architect's sample. Water soluble dyes shall be used to produce color of architect's sample. Wood block is cut into composite veneer, thus providing product equal to architect's sample. Finished veneer shall be dried to 10-12% moisture content.

NOTES Veneer to match architect's sample. No substitutions.



GENERAL INFORMATION

Our reconstituted wood products echo nature's most desired and rare species without impacting the sustainability of these great forests. The use of common wood fiber from well managed, plantation grown and FSC® certified forests, are used for the production of Echo Wood® products. Reconstituted veneer provides the same look as the most expensive and rare woods. Echo Wood® provides the highest quality, **architectural wood veneers, panels and edge tape that are defect free and consistent in color and grain.**

APPLICATIONS

Echo Wood® is ideal for interior applications where consistency of grain and color is the primary concern along with the warmth and beauty of real wood. Uses of Echo Wood® are for Finish Carpentry, Millwork, Store Fixtures, Display Cases, Contract Furniture, Residential Furniture, Kitchen Cabinetry, Interior Doors, Vanities and Wall Coverings.

TECHNICAL INFORMATION

Veneer Thickness: 0.6mm (0.02in)

Veneer sizes

Widths: 630mm and 1260mm (24.8in and 49.6in)

Lengths: 2480mm and 3100mm (97.64in and 122.05in)

Edge Tape Sizes

0.6mm x 20mm-300mm (0.02in x 0.79in-11.81in)

2mm x 20mm-300mm (0.08in x 0.79in-11.81in)

All Echo Wood® veneers meet the California Air Resource Board Phase 2 (CARB2) requirements for formaldehyde emissions.

- 10 mil paper - moisture resistant flexible
- 2 ply wood backer - flexible
- Duraback - moisture resistant flexible
- Fabric - drywall friendly, flexible
- Fleece flexible, non moisture resistant
- Phenolic - moisture resistant, rigid
- Polyback - phenolic replacement, moisture resistant flexible
- PSA - peel and stick, flexible
- Plywood - all patterns are available laminated to the plywood core of your choice. Most products are available prefinished.

QUALITY ASSURANCE

Hardwoods warrants the product to be free of defects, consistent of color and grain at the time of delivery to you. SEE WARRANTY PAGE.

Environmental Attributes of Echo Wood®

SOURCING

By using readily available plantation grown and FSC® certified wood fiber, we can create the look of almost any exotic veneer such as Ebony, Zebrawood, Teak, and Wenge while saving these great forests for future generations. All wood fiber purchased for production is harvested in compliance with the CITES International Trade Agreement.

Echo Wood® is manufactured using two different species:

Ayous (Triplochiton Scleroxylon) also known as Obeche or Samba.
Basswood (Tilia) also known as Linden.

QUICK FACTS

- All of Echo Wood® veneers are offered FSC® certified
- All Echo Wood® veneers meet CARB Phase 2 formaldehyde emission standards
- All dyes used in producing Echo Wood® are water based and contain no heavy metals
- 100% of the harvested fiber is used in the production of Echo Wood®
- Defect free panels offer maximum yield and minimal waste

LEED CREDIT SUPPORT

- Echo Wood® Veneers can be laid up on any environmental substrate including recycled wood particleboard or MDF produced with no added Urea formaldehyde (NAUF) LEED credit support MR 4 and IEQ 4.4
- Echo Wood® can be laid up regionally to reduce fossil fuel emissions - LEED credit support MR 5
- Echo Wood® can be laid up on an FSC® certified platform - LEED credit support MR 7



EchoWood Supplied-world-wide from our
These stocking veneers are

North American Distribution Centers
available for prompt shipment

INTRODUCING

Monterey
W.Oak-09S

Napa
W.Oak-801C

Qtr. Cherry
CH-311S

Qtr. Champagne
Champ-2Q

Qtr. African Wenge
TD-5843S

Slate
BA-03S

Qtr. Macassar Ebony
EB-7001S

Qtr. Zebrano
ZB-011S

Qtr. Walnut
WT-139S

Qtr. Maple
MP-168S

Rift White Oak
Oak-12-1S

Qtr. Wenge
WG-111Q

Qtr. Teak
TK-016S

VG Fir
Fir-3Q

Qtr. Gun Metal Ebony
WT-2450S

PS Walnut
WT-3160C

ARCHITECTURAL DESIGN CREATIVE CONTROL PROGRAM

Create colors and grain patterns in the wood veneers to match, contrast or compliment your design. Normally a 20 day turn around on new design creation. Material supply requires approximately 8-10 weeks lead time and 16,000 sq/ft minimum. Contact us to learn more about this unique creative opportunity.

A NOTE ABOUT COLOR

Echo Wood® images show the beauty of these reconstituted wood veneers as they will appear when finished with a clear coating. Raw unfinished veneers are several shades lighter in color.

Echo Wood®

RECONSTITUTED WOOD VENEERS

STORAGE & HANDLING

All wood veneers are subject to ambient atmospheric conditions such as humidity and temperature. Optimum conditions for handling and storing Echo Wood® veneers are when ambient temperatures exceed 65 degrees Fahrenheit with a relative humidity of 40-60%. Echo Wood® veneers should be stored horizontally with a dark, non-transparent cover completely protecting them from UV light. Care should be taken to not fold, crease, dent, or scratch the veneers.

LIMITATIONS

Echo Wood® veneers are not recommended for exterior use or direct application to concrete or other similar products. Dyes used in the production of Echo Wood® veneers are sensitive to natural and artificial UV light. As with all natural woods, Echo Wood® may fade or change color with prolonged exposure to UV light. A UV inhibitor should be used with all wood products to help retain their original beauty.

LIMITED WARRANTY

Hardwoods Specialty Products US LP warrants that Echo Wood® veneers are free from defects in materials and workmanship at the time of their delivery to you. Hardwoods Specialty Products US LP will honor only those claims for defective material or workmanship that are reported to your distributor within 25 days from the date you accept delivery of the product in question. With respect to claims of defective product received within that period, your exclusive remedy for a loss or claim resulting from the use of Echo Wood® veneers shall be, at Hardwoods Specialty Products US LP's sole option, the repair or replacement of any such product proven to be defective. This warranty does not apply to damages resulting from faulty installation of the product or resulting from accident, alteration, misuse, tampering, negligence, or abuse. In no event shall Hardwoods Specialty Products US LP be responsible for any incidental, special, exemplary and/or consequential damages, and any such damages, regardless of the legal theory upon which they are based, are hereby specifically disclaimed. This limited warranty constitutes the sole warranty provided by Hardwoods Specialty Products US LP with respect to Echo Wood® veneers, and all other warranties of any kind, whether expressed or implied (including any implied warranties of merchantability or fitness for a particular purpose), are hereby excluded. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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