

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.

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, Rosewood, 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 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 EchoWood®
- 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 particle board 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 North American Distribution Centers

These stocking veneers are available for prompt shipment

INTRODUCING



Monterey
W.Oak-09S



Napa
W.Oak-801C



Malibu
WSW-536C



Santa Monica
WSW-529C



PS Rosewood
RW-3350C



Qtr. Maple
MP-168S



Rift White Oak
Oak-12-1S



Qtr. Wenge
WG-111Q



Qtr. Teak
TK-016S



VG Fir
Fir-3Q



Qtr. Cherry
CH-311S



Qtr. Champagne
Champ-2Q



Qtr. African Wenge
TD-5843S



Qtr. Walnut
WT-139S



Qtr. Gun Metal Ebony
WT-2450S



PS Walnut
WT-3160C



Slate
BA-03S



Qtr. Macassar Ebony
EB-7001S



Qtr. Zebrano
ZB-011S

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.

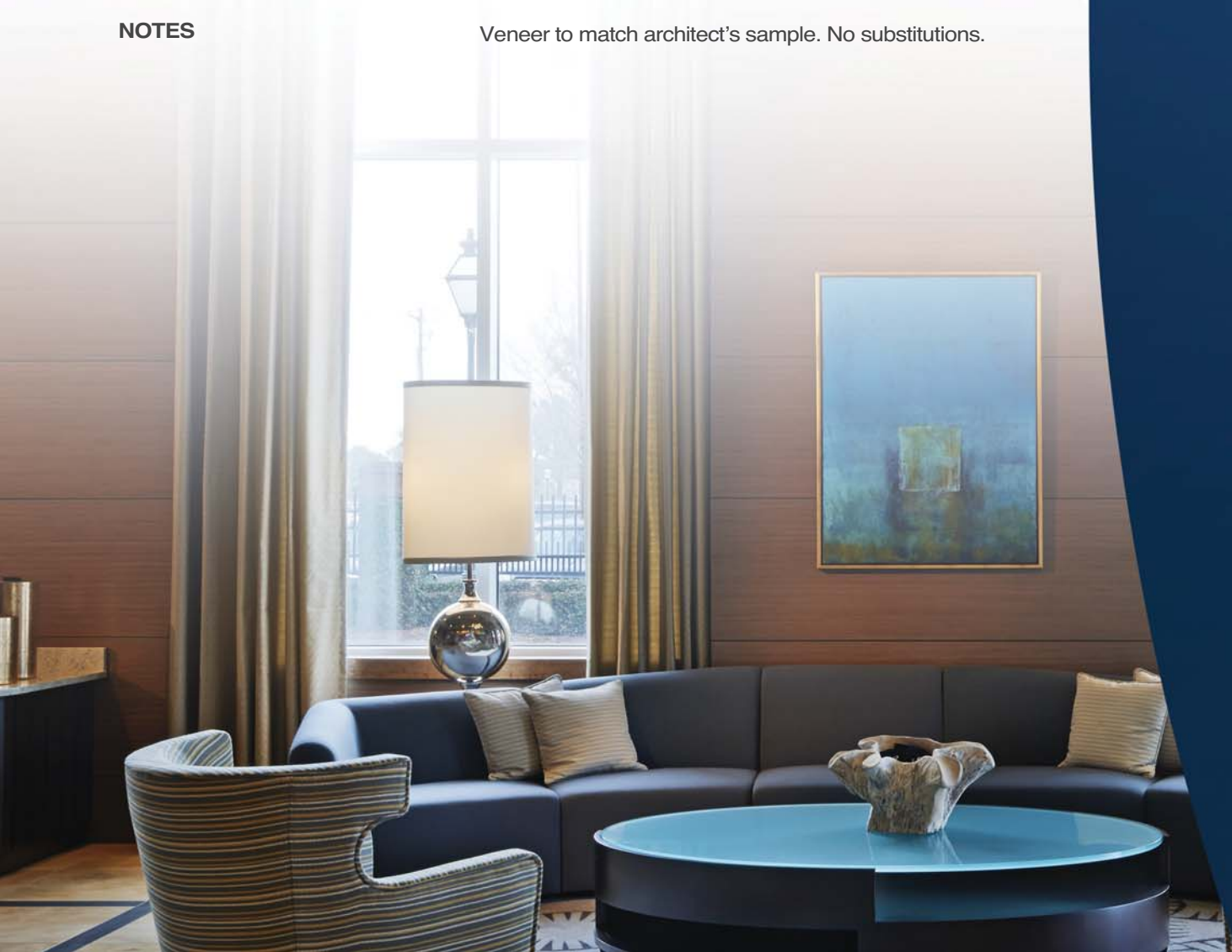
Specification

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

Item	
DESCRIPTION	Reconstituted Wood - Echo Wood®
NAME	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 12% 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.
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NOTES	Veneer to match architect's sample. No substitutions.
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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 manufacture's specifications.