

The New Choice in Composite Veneer.

Choice is a wonderful thing.

Over 36 species of Engineered Natural Woods Veneers in stock

Choices include Teak, Rosewood, Ultra Birdseye, Zebrano, Macassar Ebony, Cherry, Maple, Wenge, Walnut, Mahogany, VG Fir and Burl. Most species are available in both Quarter Cut and Flat Cut veneers.

Raw Veneers

Ipir veneer species are available for customers who have the capability of producing their own veneer components or wrapping profiles. The veneer is available in the standard size sheets: 26" x 99" & 26" x 135", and spliced sheets 52" x 99" & 52" x 135".

Laminated Panels

Ipir veneers are available in a wide array of laminated panels. GREEN-FLEX Paperback, GREEN-FORM Polyback, and GREEN-WOOD Woodback or can be laminated on Particleboard, MDF, Fire Rated, NAUF, and/or Veneer Core.

Prefinished Panels

Panels are available with a Pre-finished UV surface in a 4' x 8' up to 5' x 11' sheet size.

Edgebanding

Ipir edgebanding is available in the following stock items: 7/8" x 0.5mm x 500 lin ft in all species. We also offer 1.4mm, 2.0mm & 2.8mm thickness in eight of our species.

The Choice is easy... Greenline

Choice is a wonderful thing.

The Ipir Line of Engineered Natural Wood Veneers brings together state-of-the-art manufacturing technology and the best of what nature has to offer. Through the use of environmentally friendly materials from managed forests throughout the world, comes the extensive line of real wood veneers that offer color and grain consistency from sheet to sheet. Greenline specializes in the distribution of Ipir Engineered Natural Wood Veneers, also referred to as reconstituted veneer. Ipir is available in a variety of species and cuts, offering our customers endless opportunities for design. Engineered Natural Wood Veneers are an economical alternative to expensive natural veneers which are becoming difficult to source due to production and environmental concerns.

Engineered Natural Wood Veneer
IPIR North American Partner
With in-Stock Program



V6 Fir FL-Q-1-304



Qtr White Oak FL-Q-3-251



Qtr Teak FL-Q-1-897



Fir Western FL-Q-1-306



Qtr Maple FL-Q-1-166



Macassar Ebony FL-Q-8-852



Qtr Zebrano FL-Q-4-882



FC Maple Classic FL-FA-5-221



Tonu Zebrano FL-Q-3-883



FC Maple FL-F-P1-184



Qtr Honey FL-QA-311



FC Walnut FL-F-5-445



Qtr Teak FL-Q-1-860



Haze FL-Q-1-259



Ultra Birdseye FL-B-9-241



FC Oak FL-F-5-553



Qtr Golden Teak FL-Q-1-839



Qtr Walnut FL-Q-4-438



Umber FL-Q-1-727



Chocolate FL-Q-1-948



Charcoal FL-Q-1-823



FC Teak FL-F-5-824



Qtr Mahogany FL-Q-4-853



Qtr Wenge FL-Q-4-958



Macassar Ebony FL-Q-8-852



FC Cherry FL-F-5-581



Caramel Burl FL-B-P1-983



Java Wenge FL-Q-2-957



Silver Ebony FL-Q-4-802



QTR Cherry FL-Q-3-585



Qtr Dark Walnut FL-Q-4-537



Qtr Rosewood FL-Q-4-795



Sapwood FL-Q-5-979



FC Royal Cherry F-4-447



Ribbon Sapele FL-Q-1-831



FC Rosewood FL-F-5-737



Creamy Zebrano FL-Q-5-305

Colors may not be exactly as shown



The FSC logo identifies products which contain fiber that comes from responsibly managed forests independently certified in accordance with the rules of the Forest Stewardship Council (FSC). For more information, visit www.fsc.org Cert no. SA-COC-1542. © 2011 Forest Stewardship Council, Inc.

www.greenlineforest.com

Fineline Engineered Wood Veneers

Fineline Engineered Wood Veneers from Greenline brings together the best of what nature has to offer and state-of-the-art manufacturing technologies. Together with the use of environmentally friendly materials, Greenline offers an extensive line of Engineered Real Wood Veneers.



Log Selection

FINELINE VENEERS are produced from timbers that are found in Central West Africa. Obachi, Ayous and Koto are the only trees selected for the manufacturing of FINELINE VENEERS. These species remain in abundance throughout its natural growth range. Legal regulations on Forestry and Wildlife have been put into place to insure that forestry operations are handled in an efficient manner to insure sustainability and conservation. Many FINELINE VENEERS are also produced from plantation-grown poplar found throughout Europe. The light color of these species along with their soft grain definition is perfectly suited to produce the many distinctive colors and patterns.

The process of converting timber into FINELINE VENEERS starts with the selection of logs. Once the logs have been selected, they are brought to the mill for processing. The timber is trimmed, sawn to length and debarked. The logs are now ready to be peeled.

Peeling of the Logs

The logs are mounted onto a giant lathe. Within minutes the timbers are peeled into rotary veneers. This is achieved by pressing a rotating log against a large blade, thinly peeling a continuous sheet of veneer off the log as outlined in the drawing.

As the log is being processed, the veneer is then clipped into 26" wide components that are called leaves. These leaves are stacked and dried. The veneer then goes through its first stage of quality control. The veneer is separated for various characteristics. The veneer that meets only the highest quality of standards is packed and shipped to the factory in Italy to be processed into FINELINE VENEERS.

Peeling of the Logs Cont'd

Once all of the veneer leaves arrive at the mill they are separated into two piles for color. The lighter leaves are used to produce lighter colored patterns and the darker leaves are used to produce the darker colored patterns. The veneer leaves are now ready for drying.



Dying

FINELINE VENEERS insure color consistency every time. This is achieved by dying the veneers to formulations that are created for each specific pattern. Depending on the item that is being produced, the selected raw veneer leaves are stacked into a stainless steel cage. To insure that each leaf of veneer is completely exposed to the dye, each leaf is separated by thin wires. Once completely loaded, the stainless steel cage is immersed into a pressurized, heated vat that is filled with water-soluble dye. This system is controlled by a computer to insure that each leaf is given the correct amount of time to allow the dye to completely penetrate each individual leaf of veneer. Once the desired color has been achieved, the leaves are unloaded from the vat, dried and given a final inspection before proceeding to the gluing stage.



Gluing

The gluing process is critical for the look of the finished product. Each pattern is created by following a formula to insure uniformity and repeatability. Depending on the pattern that is being produced, a combination of dyed veneers are glued together. When producing the various patterns, technicians follow the formula that outlines a sequence for the dyed veneers to be stacked together to create the desired pattern. There is a layer of dyed glue between each leaf of veneer. The dyed glue has two very important functions. The glue bonds the leaves of veneer together and it also creates the contrast as part of the grain definition. Once the

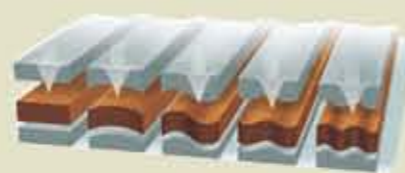
Gluing Cont'd

stack has been laid up with the exact specifications in the formula, it is then placed into a high pressure press to bond the leaves together creating a large rectangular block. The size of the block is approximately 27" x 135" x 30". This block is now ready to be sliced into sheets of veneer.



Creating the Mold

Uniformity and repeatability are the key characteristics to FINELINE VENEERS. The combination of dyed veneers and dyed glue insures color consistency. The repeatability of each pattern is achieved by the shape of the lamination block. The leaves of the dyed veneers are stacked into the center of a mold. The mold is pressed together forming the block of the desired pattern. Once the cycle is complete, the block is now ready to be sliced.



Mold Types - Straight - 1 Heart - 2 Hearts
3 Hearts - 4 Hearts

Slicing of the Block

The block is now ready to be sliced into veneer leaves. Once the block has been produced, it is mounted to the pitch table of the slicing unit. The block now runs across a large blade slicing thickness controlled leaves of veneer. The veneer leaves that are produced are 26" x 90" or 135". The process of creating FINELINE VENEER leaves is complete. The veneer is now ready to be further processed into spliced faces for lamination on to GREEN-FLEX Paperback, GREEN-FORM Polyback, GREEN-WOOD Woodback, Particleboard, MDF, Fire rated, NAUF, and Veneer Core. All veneers can be spliced into various combinations of widths and lengths.



Engineered Natural Wood Veneer

IPR North American Partner



Protecting Our Earth

Saving the planet is no longer a politically correct cause we may choose to consider. Environmental awareness is an urgent necessity we all must support.

The state in which we leave this planet to future generations is our responsibility - a responsibility which extends beyond clever t-shirts and recycled garbage. If the children of tomorrow are not to suffer the effects of careless waste and depleted resources, then environmental awareness must become a natural part of our everyday lives.

Source and Supply of Sustainable Raw Material

Our line of Engineered Natural Wood Veneers is manufactured by IPR.

In the manufacturing of the IPR Wood Veneers, the specie of wood that is primarily used is Triplochiton scleroxylon (Ayous) as well as Obache or Samba. These trees are found in the tropical regions of Central West Africa, more specifically, Cameroon. Ayous remains in abundance and is secure throughout its natural growth range, with very little to no threat to its population. Italian poplar from managed forests throughout Europe is also used.

The raw material is harvested by IPR who work directly with the Government of Cameroon to comply with their Forest Management Plan (FMP) with their primary focus being sustainability. The FMP objectives are to supply a continuous supply of timber while at the same time ensuring that the yields do not exceed the net volume increment of the species to be harvested.

Triplochiton scleroxylon has been tested for cultivation because of its considerably fast growth. The Government of Cameroon's FMP initiated the set-up of plantations for this specie because of its ability to replenish itself so quickly. It is advances like this that have allowed our program to be so successful.

Source and Supply of Sustainable Raw Material

Legal regulations on Forestry and Wildlife (Law # 94-01) has been set to meet the objectives of the Cameroon New Forest Policy. A high tax rate is paid to the Government of Cameroon to ensure that forestry operations are handled in an efficient manner to ensure sustainable use and conservation of its forestry, wildlife and fishery resources.

IPR's compliance to all regulations and stipulations set forth by the Government of Cameroon has resulted in a long-term working relationship with continuous approval ratings and certificate renewals for harvesting of the raw materials they require.

Engineered Natural Wood Veneers

Greenline is the Exclusive North American Distributor of IPR Engineered Wood Veneers.

Greenline currently stocks a wide variety of patterns on a QUICK SHIP PROGRAM and has CUSTOM PROGRAMS of exclusive patterns and colors with many customers in a variety of industries throughout North America.

The IPR line of composite veneers brings together state-of-the-art manufacturing technology and the best of what nature has to offer. Through the use of environmentally friendly materials from managed forests in Europe and Central Africa, comes an extensive line of natural Engineered Wood Veneers that ensures uniformity and repeatability of grain and color sheet to sheet.

Technical Information	
Standard Widths	65cm
Standard Lengths	250cm, 340cm
Standard Lengths (Poplar)	250cm
Standard Thickness	0.6mm
Standard Thickness (Poplar)	0.6mm to 0.7mm
Thicknesses available	0.55mm to 2.8mm
Thickness tolerance	+/- 0.05mm
Moisture content	8% to 12%

Fineline Engineered Natural Wood Veneers

Components by Weight:
Wood Fiber 90%, Glue 8%, Dyes 2%

Adhesive:

The adhesive used in IPR Fineline composite veneers is made from a uretic resin that meets the allowable limits established by North American and International Laws.

Dyes:

Water soluble aniline dyes are used to produce the various shades found in IPR Fineline composite veneers.

How to Specify Greenline Fineline Reconstituted Wood Veneers

Understanding the many advantages of working with Fineline Veneers creates many opportunities for design professionals. These advantages include:

- * Environmentally Friendly Materials
- * Uniformity and Repeatability
- * Color and Grain Consistency
- * Custom Patterns & Colors

By the nature of this product and its unique characteristics, specifying Fineline Veneers is very easy. Choose from the many available patterns found in our sample binder that best suits your application for color and grain. Once a decision is made on a specific veneer pattern, simply reference the name and code number on your documentation.

