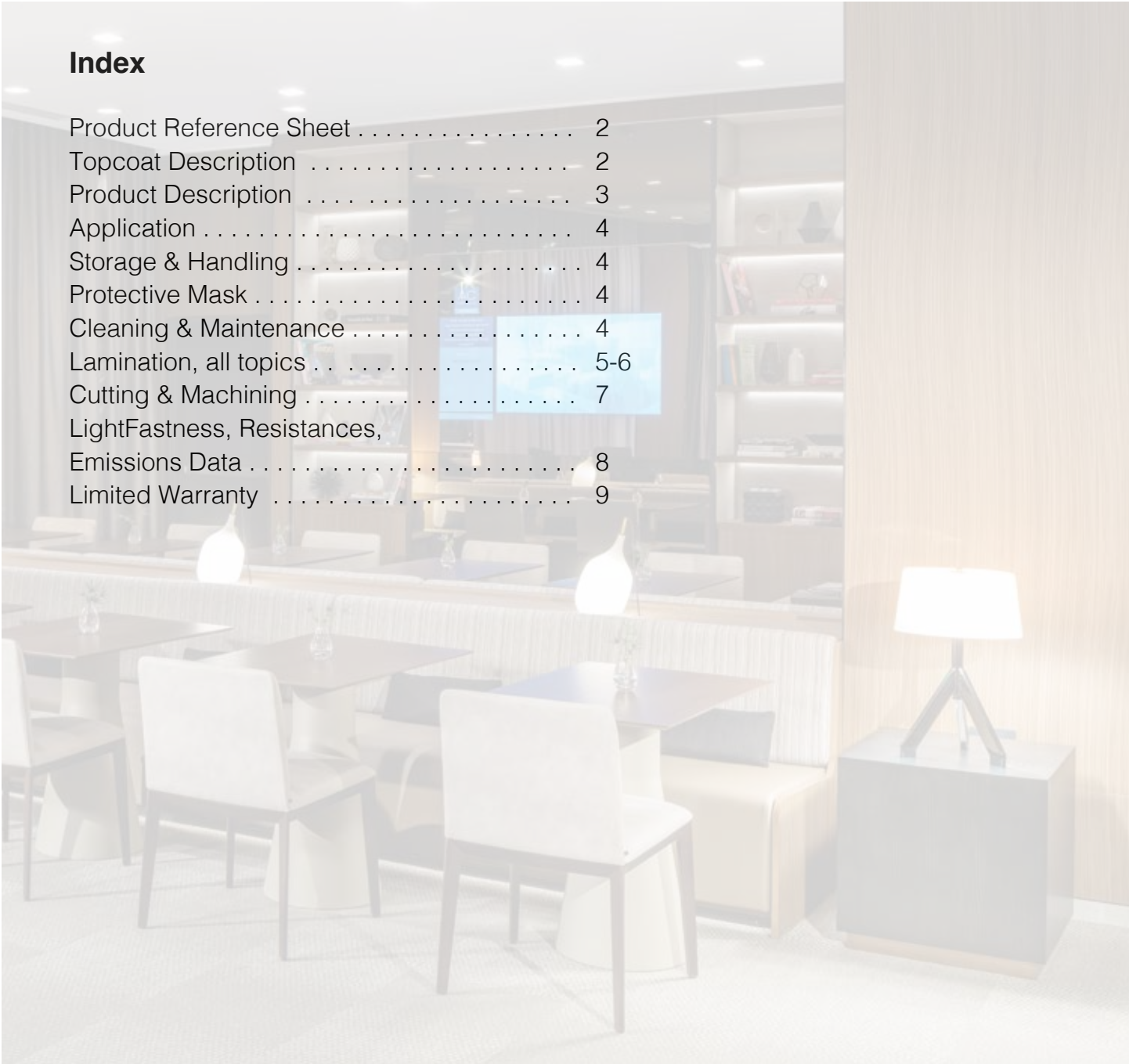


Treefrog Technical Information Guide

updated 3/24

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*NEW Treefrog Veneers

Product Number and Name	Topcoat/ Finish*	Size
Treefrog Prefinished and Groove		
1805F ALPI Xilo 2.0 Striped XL White*	Touch	4' x 10'
1850F ALPI Xilo 2.0 Flamed White*	Touch	4' x 10'
40222 White Oak Touch*	Touch	4' x 10'
40204 White Oak Straight Grain	Wax Effect	4' x 8'
40219 White Oak Groove	Groove	4' x 10'
40213 White Oak Planked Groove	Groove	4' x 10'
44717 Ash Lati Groove	Groove	4' x 10'
40211 Fine Oak Groove	Groove	4' x 10'
43004 Natural Oak*	Touch	4' x 10'
44922 Blasted Oak Planked*	Touch	4' x 10'
1873F ALPI Sottsass Grey*	Touch	4' x 8'
45104 Golden Oak*	Touch	4' x 10'
40816 Teak Groove	Groove	4' x 10'
40411 Fine Walnut Groove	Groove	4' x 10'
1806F ALPI Xilo 2.0 Striped XL Sand*	Touch	4' x 10'

Product Number and Name	Topcoat/ Finish*	Size
Treefrog Prefinished and Groove		
44816 Washed Walnut Groove	Groove	4' x 10'
40420 American Wavy Walnut Groove	Groove	4' x 10'
1212F ALPI Xilo Noce Italiano Striped*	Wax Effect	4' x 10'
40416 Walnut Groove	Groove	4' x 10'
40404 Walnut Straight Grain	Semi-Gloss	4' x 8'
40405 American Walnut Crown	Wax Effect	4' x 8'
1226F ALPI Santos*	Wax Effect	4' x 10'
45016 Latte Walnut Groove	Groove	4' x 10'
42211 Fine Grey Oak Groove	Groove	4' x 10'
42217 Grey Oak Lati Groove	Groove	4' x 10'
42204 Grey Oak Straight Grain	Wax Effect	4' x 8'
40704 Wenge Straight Grain	Wax Effect	4' x 8'
42316 Black Oak Groove	Groove	4' x 10'
1808F ALPI Xilo 2.0 Striped XL Black*	Touch	4' x 10'
42016 Macassar B/W Groove	Groove	4' x 10'

***Topcoat / Finish Descriptions**

All Treefrog veneers are prefinished with an acrylic topcoat. There are several standard options that best bring out the beauty of each veneer. Topcoat cannot be changed. Description of each below:

Touch (New): Touch is a new, more natural topcoat that's soft and pleant to the touch. Low sheen, matte.

Wax Effect: A long-standing favorite, Wax Effect is akin to a matte rubbed wax effect wood effect. It's smooth and low sheen.

***Topcoat / Finish Descriptions (cont.)**

Groove: The most textured finish Treefrog offers. Groove is a deep (relative to the veneer thickness) wood brushing with a matte finish that feels like raw veneer. It's not a barn wood feel, it's still quite refined, but you wouldn't want to use as a writing surface.

Semi-Gloss: Like the name says a medium gloss finish that makes wood grains pop. Offered on only 1 prefinished veneer, #40404 Walnut Straight Grain.

Size: 4' x 8', 4' x 10', depending on veneer

Thickness: 0.39"

Weight: 4' x 8': 4.6 LBS. / 4' x 10': 5.7 LBS

Product Description:

Treefrog is an FSC® certified prefinished real wood veneer that can be applied on vertical and light duty horizontal wall and furniture faces in interior spaces. For example, furniture surfaces, interior-design surfaces, hotel interiors, surfaces in apartment buildings and residential complexes, boutiques, retail interiors, offices, public spaces, indoor facing and surfaces for yachts and cruise ships.

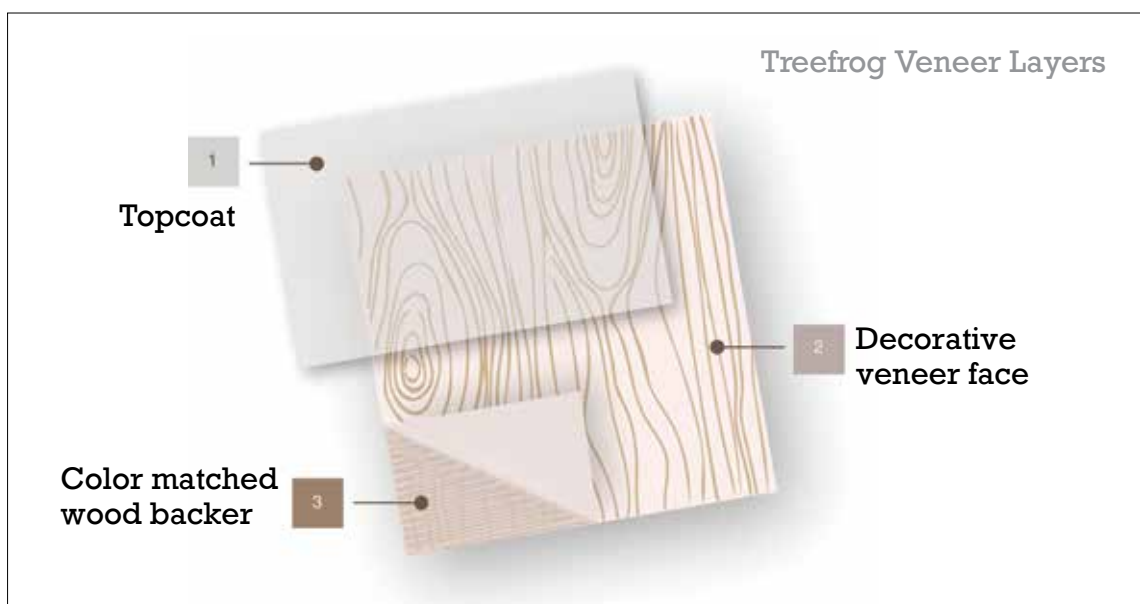
Treefrog features engineered, composite or recon veneer, an innovative process that creates the look, feel and warmth of almost any wood species by using more commonly occurring and faster growing wood species. This technology eliminates many natural imperfections typically found in wood veneer and it allows for the creation of nearly identical sheets in volume quantities.

The New Backer:

Beginning late 2023, Treefrog is supplied on a color matched wood backer. This replaces the previous laminate backer that was standard for many years. Thickness is the same, .039". The grain of the new wood backer runs perpendicular to the grain of the decorative veneer, creating a stable, more flexible prefinished veneer material. Because the backer is color matched to the veneer face color, it eliminates the brown laminate seam common in the laminate industry.

The Topcoat:

Treefrog is available as a prefinished wood veneer with a 2k acrylic topcoat. There are several variations, learn more about them on our **Product Reference Chart** on Page 2 of this document. Topcoat cannot be easily removed or coated over.



Application:

Treefrog is recommended for interior use on vertical and light duty horizontal surfaces. Please contact Treefrog regarding any uncertainty about the use of our product in an application. If used on high wear horizontal surfaces, Treefrog should be protected under glass or other equivalent materials. Caution should be taken on surfaces that may be exposed to harsh chemicals, acidic type acids or beverages (alcoholic, colas, etc.) or when the surface will not be cleaned for long periods of time.

Storage & Handling:

Treefrog should be stored horizontally, face to face, in a completely supported position at a moderate ambient temperature, normally 50° - 80° F and relative humidity of approximately 45-50%. Treefrog must be completely protected from sunlight or incandescent light with a dark, non-transparent product. The entire sheets of the veneer must be covered. This will protect the sheet from any color change do to the exposure of UV light, natural or artificial. Care should be taken to avoid bending or cracking if the sheets are to be rolled. It is not recommended that the veneer be stored rolled or on edge. Use a top sheet of thicker MDF, particleboard, plywood or similar material to hold stored sheets flat. Protect material from twist, rack and edge damage.

Protective Mask:

Treefrog is supplied with a clear protective mask. We recommend that you leave the mask on the surface while working the veneer. Color uniformity and quality checks should be carried out on the sheets before working with the veneer. The protective film is clear enough that you may inspect the material without removing the mask. When in doubt peel the mask in the area, or up to the area that is suspect.

Cleaning & Maintenance:

Treefrog Veneer may be cleaned with a soft cloth using mild soap and water or non-abrasive glass and wood cleaning products. Do not use abrasive cleaners, pads, or solvent based cleaning solutions including acetone or paint thinner. Do not allow any solvent to come in contact with the surface. Accidental spills, splatter, or over sprays should be wiped off immediately with a soft cloth and mild soap. If done immediately the solvents should not have an effect on the veneer. Alcohol, ammonia and other light solvents may be used for tougher stains.

Lamination – Substrates:

Proper substrates must be used and careful bonding procedures must be observed. Substrates should be high quality 5 ply plywood, medium or high-density fiberboard or high density particleboard. Acrylic plastics can be a suitable substrate, especially in smaller sizes, like in retail fixtures. The more resistant the substrate is to dimensional change (shrinkage and/or expansion from changes in humidity and temperature) the better the long-term results.

Drywall, gypsum board or sheetrock are not recommended substrates. These surfaces can be too irregular and will project imperfections. Plus, they eagerly absorb water and distort.

Substrate Preparation:

A warm and dry storage environment must be provided for Treefrog, substrates and adhesives prior to fabrication and installation. A normal temperature of 75° F and a relative humidity of 45 to 50% provide ideal storage conditions.

The substrate should be free of all foreign matter including dust, grease or oil. Any holes should be filled and sanded smooth, and any bumps should be sanded flat.

Following these recommendations will allow the adhesive to create a strong and firm bond between the substrate and Treefrog which will minimize potential dimensional change after lamination.

Lamination – Moisture:

Finish all edges to help prevent moisture absorption. Use adequate drying time to ensure that the solvents (or water if you use a water-based adhesive) can evaporate prior to finishing the exposed edges. Also use adequate ventilation as a health aid.

Balancing Sheets:

We highly recommend the use of balancing sheets. Balanced construction will help prevent warping or cupping of the sheet. When available, Treefrog offers second quality material at a discounted price that can help economically balance your construction.

Lamination – Conditioning:

It is recommended that all substrates, adhesives and Treefrog laminates be stored at room temperature (75°F) with a relative humidity of 45 to 50% for at least 72 hours prior to lamination. All materials should be stored in the same environment where fabrication or installation will take place under the above conditions. A five to seven day period of time is recommended for optimal pre-conditioning in a warm and dry environment. Lamination performed in cold temperatures may affect long-term results.

Lamination – Fabricated Parts:

Fabricated parts should be stored for at least 48 hours before exposure to extreme temperature or humidity changes. Most contact adhesives require this minimum time to reach initial bond strength. Following these procedures allows the wood veneer to bond firmly to the substrate. Sufficient spacing must be provided between and at each end of sheets or strips to accommodate possible linear expansion from the ambient temperature range at the installation site. Minimum spacing of 1/32" is recommended but a more accurate determination can be made by allowing 1/100" for each 96" of veneer surface for each 10 degrees Fahrenheit of anticipated temperature change.

Lamination – On and Off-Site:

These procedures should be followed when the lamination is to be completed on the job site. Any lamination that is completed in conditions that are different than the expected day to day living conditions may result in failure of the application as previously noted. All heating and air conditioning systems should be operating to achieve expected living conditions before any lamination or installation takes place on a job site. Direct exposure to heating and A/C unit vents may result in delamination due to significant changes in temperature and humidity. Failure to comply with these recommendations may cause failure of your application.

Lamination – Dimensional Change:

Most wood substrates experience a change in dimension that may be significantly different than that of the laminates. This difference may cause the wood to pull away from the substrate or buckle at the weakest point of adhesion. To prevent this, sufficient spacing must be provided between and at each end of sheets or strips to accommodate possible linear expansion from the ambient temperature range at the installation site. Minimum spacing of 1/32" is recommended but a more accurate determination can be made by allowing 1/100" for each 96" of veneer surface for each 10 degrees Fahrenheit of anticipated temperature change. If you are not sure how any laminate will work for your particular application, we suggest you test the application system you have selected under production and/or installation site.

Lamination – Adhesives:

Treefrog may be laminated with many of the conventional adhesives normally used with plastic laminates. A good vinyl adhesive is recommended for a stronger bond. A cold or hot press is recommended when working with vinyl tape adhesives. This type of adhesive may reduce dimensional movements that can be caused by changes in temperature or humidity. Always check with your adhesive supplier to make sure that the adhesive you select is suitable for your application. The adhesive manufacturer's instructions must be followed as to the use of the adhesive and the preparation of the substrate. It is recommended that you check your adhesive system with a Treefrog sample. Solvent based contact cements and water-based contact cements may also be used for bonding Treefrog. To bond Treefrog to your substrate after gluing, pressure must be firmly and evenly applied over the entire surface using a rotary or platen press. The use of hand or "J" rollers is not recommended for laminating full size sheets of Treefrog. They can be used for laminating strips as long as firm, even pressure is applied to the entire length.

Cutting & Machining:

In all cutting, machining and finishing procedures safety goggles, gloves, long pants and long-sleeved shirts must be worn and precautions must be taken to protect eyes. Panel saws, table saws and other woodworking equipment may be used to cut Treefrog before or after lamination. Routers for trimming edges after bonding must have a smooth, clean base plate, so that the surface of the veneer will not be scratched. Use carbide-tipped bits with ball bearing guide rolls. Keep the bits sharp. Drilling into Treefrog may be done with standard wood bits or with router bits. Use a flat, smooth or fine file for a final edge finishing. You may consider applying a matching stain to the edge to hide the laminate backer line.

Gluing with a steel-plate press:

The utmost care is needed in cleaning the plates of the press, in order to avoid dents or damage to the finished surface. A varnished surface that is damaged by particles pressed between the metal plate and the decorative surface is difficult to repair. The protective film must always be lying perfectly smooth on the surface of Treefrog, in order to avoid pressing folds into the surface.

Apply the veneer glue evenly, in the same quantity, on both sides of the panel. The quantity of glue must be dosed so that it does not leak out from the edges under pressure and damage the decorative surface.

Never allow the temperature to rise above 170° F for durations from 2 to 3 minutes when using thermosetting glue. The application of Treefrog on surfaces with an elevated coefficient of thermal expansion (metal and other surfaces) could lead to warping and delamination due to sudden changes in temperature and humidity.

LightFastness:

Treefrog performs excellently and passes all Xenotests on lightfastness. However, slight color and pattern variation may occur because Treefrog is manufactured with real wood. Exposure to direct or strong UV light (natural or artificial) can result in a change in the color over time. Either occurrence does not indicate a product defect or failure.

Size: 4' x 8' / 4' x 10' depending on veneer

Thickness: 1.0 mm / .039"

Weight: 4' x 8' 4.6 LBS / 4' x 10' 5.7 LBS

Resistance to Abrasion: >20/25 Taber turns
(UNI EN 438-2, 17:2019)

Resistance to cold liquids: A
(UNI EN 12720:2013)

Lightfastness (xenon arc lamp): >4/5 Grey scale
(UNI EN 438-2, 17:2019)

Formaldehyde Emission:
Compliance with Annex 1 of German
Chemical Prohibition Ordinance
(according to DIN EN 16516
and DIN EN 717-1)



Limited Warranty:

The technical information contained here and all related documents released by Treefrog are believed to be reliable. Treefrog disclaims the creation of any expressed or implied warranty including the warranties of merchantability and fitness for a particular purpose with respect to Treefrog products. In all cases, users must determine the suitability of such products for a particular use and shall assume the risk and liability whatsoever in connection herewith. Since we exercise no control in handling, storage, application and use of these products or the products of others with which they are used in combination, no warranty, express or implied, is made as to the results and effect of their use.

The user must establish his or her procedures and verify the finish of any product to be the one as ordered before use. We recommend testing all procedures before beginning production or installation. Buyers exclusive remedy for a loss or claim resulting from the use of Treefrog products shall be by replacement of product proven to be defective. In no event shall the Seller be liable for any special, incidental, consequential or exemplary damages.

Additionally, we recommend that you inspect the material before cutting or laminating. If any material proves to be defective, Treefrog will be liable for the cost of that material only. No other warranty is expressed or implied.

Technical Services:

Additional technical assistance may be obtained by contacting your local Treefrog distributor or by contacting Treefrog at (800) 807-7341, sales@treefrogveneer.com.