

Treefrog Technical Information Guide

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treefrog®



Product Reference
Updated 5/18

Product Number and Name	Topcoat/ Finish*	Size	Product Number and Name	Topcoat/ Finish*	Size
Treefrog Prefinished and Groove			Treefrog Prefinished and Groove		
60211 Fine Oak Groove	Groove	4' x 10'	60416 Walnut Groove	Groove	4' x 10'
60213 White Oak Planked Groove	Groove	4' x 10'	62204 Grey Oak Straight Grain	Matté	4' x 8'
60411 Fine Walnut Groove	Groove	4' x 10'	62217 Grey Oak Lati Groove	Groove	4' x 10'
60420 American Wavy Walnut Groove	Groove	4' x 10'	60604 Cherry Straight Grain	Matté	4' x 8'
61216 Light Grey Oak Groove	Groove	4' x 10'	60816 Teak Groove	Groove	4' x 10'
62211 Fine Grey Oak Groove	Groove	4' x 10'	60804 Teak Straight Grain	Semi Gloss	4' x 8'
64621 Mocha Oak	Matté	4' x 10'	64204 Ebony Safari	Matté	4' x 8'
65016 Latte Walnut Groove	Groove	4' x 10'	60704 Wenge Straight Grain	Matté	4' x 8'
62807 Silver Ash Figured	Matté	4' x 8'	60717 Wenge Lati Groove	Groove	4' x 10'
60104 Maple Straight Grain	Matté	4' x 8'	60716 Wenge Groove	Groove	4' x 10'
60204 White Oak Straight Grain	Matté	4' x 8'	60719 Wenge Crown Groove	Groove	4' x 10'
60219 White Oak Groove	Groove	4' x 10'	63304 Wenge Gloss	Gloss	4' x 8'
64717 Ash Lati Groove	Groove	4' x 10'	64016 Madagascar Ebony Groove	Groove	4' x 10'
64916 Blasted Oak Groove	Groove	4' x 10'	62316 Black Oak Groove	Groove	4' x 10'
60916 Zebrawood Groove	Groove	4' x 10'	62304 Black Oak Straight Grain	Matté	4' x 8'
60405 American Walnut Crown	Matté	4' x 8'	62016 Macassar Black and White Groove	Groove	4' x 10'
64816 Washed Walnut Groove	Groove	4' x 10'	Treefrog Unfinished		
60404 Walnut Straight Grain	Gloss	4' x 8'	68009 Walnut SG Unfinished	Unfinished	4' x 8'

More complete technical data can be found at treefrogveneer.com.

Backer: All Treefrog veneers are supplied with a laminate backer except Treefrog Unfinished which is on 20 mil paperback.

Thickness: Prefinished: .039" Unfinished: .020"

Weight: 4' x 8': 8.1 LBS. 4' x 10': 10.13 LBS

***Topcoat / Finish Descriptions**

All Treefrog topcoats are polyurethane in various finishes except Treefrog Unfinished.

Matté: Matté (Flat) Polyurethane topcoat that emulates the appearance of a rubbed wax effect finish.

Gloss: Gloss (not High Gloss) Polyurethane

Groove: Denoted in product name. Matté Polyurethane topcoat with textured (Groove) finish.

Unfinished: No topcoat. Lightly sanded wood surface.



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Treefrog is a prefinished real wood veneer laminate ideal for commercial and residential interiors. It offers the beauty of real wood and the ease of laminate. Treefrog's unique process ensures consistency, sheet after sheet, in design spaces of any size.

Product Description:

Treefrog is a prefinished real wood veneer laminate from Europe with a protective mask that can be applied with the same ease as a HPL laminate. Treefrog features engineered wood, an innovative process that creates the look, feel and warmth of almost any wood species using more commonly occurring and faster growing wood species from sustainably managed, controlled and traceable forest sources. This technology eliminates many natural imperfections typically found in wood veneer and it allows for the creation of nearly identical sheets in volume quantities. Treefrog Prefinished is supplied on a standard laminate backer with a polyurethane topcoat. Treefrog Unfinished is an unfinished paper backed veneer.

Size:

Treefrog Veneers designated “Groove” are available in a 4’ x 10’ sheet.

All others are available in 4’ x 8’ sheet.

See Treefrog Veneer Product Chart for detailed info.

Popular 4’ x 8’ veneers, like Wenge, are sometimes available in 4’ x 10’ sheet size, but most often need to be custom ordered. Lead times and upcharges may apply.

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. When used on other horizontal surfaces the laminates 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.) when the surface will not be cleaned for lengthy periods of time.

Storage & Handling:

Treefrog should be stored horizontally, face to face or face up, at a moderate ambient temperature, normally 75° 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. Rolling against the grain may cause the

veneer to crack, and should be done with care. It is not recommended that the veneer be stored rolled or on edge. Treefrog should be stored face to face or face-up in a cool, dry area and in a completely supported flat position. Use a top sheet of chipboard 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. Do not allow any solvent to come in contact with the surface. Accidental spills, splatters 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.

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.

We recommend that Treefrog sheets, and the adhesives and substrates they are to be bonded to remain in the same environment for a period of five to seven days for optimal pre-conditioning. A minimum of 72 hours is recommended for pre-conditioning.

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:

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.

We recommend the use of a balancing sheet. This will help prevent warping or cupping of the sheet. Treefrog offers second quality material at a significantly discounted price that are best to balance your construction.

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 and rigid plastics.

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.

The face of the substrate must be smooth and free of grease, wax, dust, oil, silicones, and other foreign matter. All raised areas must be sanded or filled so that the surface is smooth. The substrate must be uniform in thickness.

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:

The 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 metal 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. 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.

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.

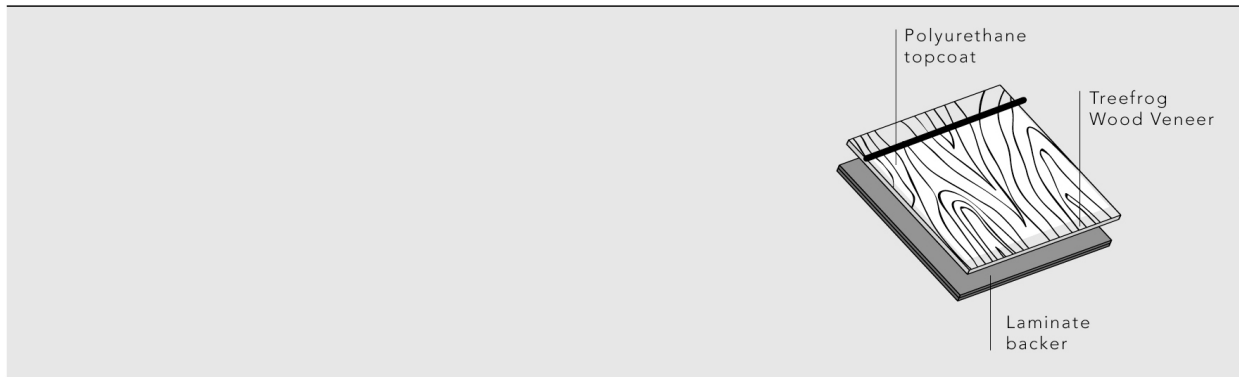
Postforming:

Treefrog can be post-formed utilizing similar equipment and techniques that are used with a plastic laminate. The post forming temperature is 145 degrees centigrade and 293 degrees Fahrenheit. It is also important to know that when post forming with a gloss finish it is acceptable to leave the protective mask on the product. When post-forming with a wax finish it is important to remove the protective mask prior to post-forming. If the protective mask is not removed prior to the post-forming the mask will burn and adhere to the veneer.

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.

	Groove /	Light Gloss-Bright Gloss /	Wax /
Dimensions	2500x1250/3050x1300 mm	2500x1250/3050x1300 mm	2500x1250/3050x1300 mm
Nominal Thickness	1.0 mm	1.0 mm	1.0 mm
Grade	Postformable	Postformable	Postformable
Bending Radius*			
Longitudinal	20 mm	20 mm	20 mm
Transversal	20 mm	20 mm	20 mm
Postforming Temperature	145°C (288 F)	145°C (288 F)	145°C (288 F)
Weight Per Sqm	1.1 kg	1.1 kg	1.1 kg
Dimensional Variations			
Longitudinal	0.4 %	0.4 %	0.4 %
Transversal	1.2 %	1.2 %	1.2 %
En 438-2, 17 (2016)			
Abrasion Resistance*	> 80 Taber turns	> 100 Taber turns	> 100 Taber turns
En 438-2, 10 (2016)			
Stain Resistance	No effect	Halo caused by acetone	No effect
En 438-2, 26 (2016)			
Lightfastness (Xenotest)	> 2 Grey scale	> 2 Grey scale	> 2 Grey scale
En 438-2, 27 (2016)			
Formaldehyde Emission	Code compliant	Code compliant	Code compliant
En 717			



TECHNICAL FEATURES	GROOVE	WAX
NOMINAL THICKNESS	1,0 mm	1,0 mm
GRADE	POSTFORMABLE	POSTFORMABLE
BENDING RADIUS* - LONGITUDINAL - TRANSVERSAL	20 mm 20 mm	20 mm 20 mm
POSTFORMING TEMPERATURE	145° C (288 F)	145° C (288 F)
WEIGHT PER SQM	1,2 Kg	1,2 Kg
DIMENSIONAL VARIATIONS - LONGITUDINAL - TRANSVERSAL EN 438-2, 17(2005)	0,4 % 1,2 %	0,4 % 1,2 %
ABRASION RESISTANCE (AVERAGE VALUES) EN 438-2, 10(2005)	> 80 TABER TURNS	> 80 TABER TURNS
STAIN RESISTANCE EN 438-2, 26(2005)	NO EFFECT	NO EFFECT
LIGHTFASTNESS (XENOTEST) EN 438-2, 27(2005)	> 2 GREY SCALE	> 2 GREY SCALE
FORMALDEHYDE EMISSION EN 717-2	0,2 mg/m2h	0,2 mg/m2h

* average values

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.