

# t r e e f r o g

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## Technical Information

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### Product Description

Treefrog is a prefinished real wood veneer laminate 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. It is supplied on a standard laminate backer and prefinished with a polyurethane topcoat. Treefrog Unfinished is an unfinished paper backed veneer.

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### Size

Treefrog is available in 2 sizes, depending on product.  
The majority of our veneers are available in 4' x 8' sheet size.  
Treefrog Groove is available in 4' x 10' sheet size.  
Some 4' x 8' veneers, usually more popular veneers, are available in 4' x 10' sheet size, but most often need to be custom ordered. Lead times and upcharges may apply.

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### Application

Treefrog is recommended for interior use on vertical and light duty horizontal surfaces.



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## LightFastness

Treefrog performs excellently and passes all Xenotests on lightfastness. However, slight color and pattern variation may occur because Tree Frog 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.

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## Storage & Handling

Treefrog should be stored horizontally, face to face, at a moderate ambient temperature, normally 72 F and relative humidity of approximately 60%. 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 due 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 in rolls.

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## 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.



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## 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 the vinyl type 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.

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## Lamination

Proper substrates must be used and careful bonding procedures must be observed. Treefrog may be laminated to most substrates if the proper adhesive is used. Typical substrates would be plywood, MDF, particleboard, and rigid plastics.

The more resistant the substrates are to dimensional change (shrinking and expansion from changes in humidity and temperature) the better the result. 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.

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. Also use adequate ventilation as a health aid.

Allow Treefrog sheets and the substrate to acclimate to the same ambient conditions (temperature and humidity) for a minimum of 48 hours prior to lamination. The laminated parts should be stored for at least 48 hours before exposure to extreme temperature and humidity changes.

We recommend the use of a balancing sheet. This will help prevent warping or cupping of the sheet.



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## 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 48 hours is recommended for pre-conditioning.

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.

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## Cutting & Machining

Panel saws, table saws 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 light or dark stain to the edge to hide the phenolic line.

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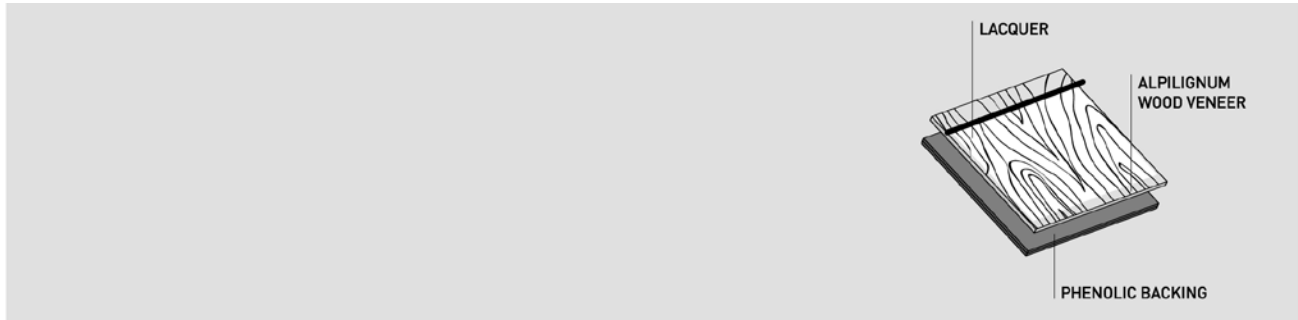
## Postforming

Treefrog can be post-formed utilizing similar equipment and techniques that are used with the 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 the gloss finish it is acceptable to leave the protective mask on the product. When post-forming with the 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.

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## 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 harsh solvents. 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.



TECHNICAL FEATURES	GROOVE	SILK	WAX
NOMINAL THICKNESS	1,0 mm	1,0 mm	1,0 mm
GRADE	POSTFORMABLE	POSTFORMABLE	POSTFORMABLE
BENDING RADIUS* - LONGITUDINAL - TRANSVERSAL	20 mm 20 mm	20 mm 20 mm	20 mm 20 mm
POSTFORMING TEMPERATURE	145° C (288 F)	145° C (288 F)	145° C (288 F)
WEIGHT PER SQM	1,2 Kg	1,2 Kg	1,2 Kg
DIMENSIONAL VARIATIONS - LONGITUDINAL - TRANSVERSAL EN 438-2, 17(2005)	0,4 % 1,2 %	0,4 % 1,2 %	0,4 % 1,2 %
ABRASION RESISTANCE (AVERAGE VALUES) EN 438-2, 10(2005)	> 80 TABER TURNS	> 100 TABER TURNS	> 80 TABER TURNS
STAIN RESISTANCE EN 438-2, 26(2005)	NO EFFECT	HALO CAUSED BY ACETONE	NO EFFECT
LIGHTFASTNESS (XENOTEST) EN 438-2, 27(2005)	> 2 GREY SCALE	> 2 GREY SCALE	> 2 GREY SCALE
FORMALDEHYDE EMISSION EN 717-2	0,2 mg/m2h	0,2 mg/m2h	0,2 mg/m2h

\* average values



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**Treefrog Press** (Product #'s: 70101, 70103, 70105, 70106, 70107, 70108, 70110)

Treefrog Press is sourced from a different supplier (German, using Italian engineered wood) than other Treefrog products, and some of the Tech Info is different, and described below.

Most notable is that Treefrog Press has a light melamine coating, instead of polyurethane, and that it is non-postforming. Other info specific to Treefrog Press below.

Fabricating methods, including cutting and gluing remain the same except where noted.

**Product Description:**

Treefrog Press is a prefinished real wood veneer laminate. It has a surface of real wood veneer and an HPL laminate backer. The surface is coated with a light melamine coating, (heavier coating would make it too plastic-like in appearance). It is supplied with a removeable clear protective mask. It is recommended for vertical and light duty horizontal interior spaces.

Treefrog Press, like the rest of the Treefrog line, uses reconstituted veneers, or engineered wood, which ensures a reliable and consistent selection. All wood is sourced from sustainably cultivated areas.

**Size:** 4 x 8 foot sheet. Size tolerances are less than 1%.

**Thickness:** .039" (some variation since product is embossed)

**Weight:** Approx. 10 lbs. per sheet.

**Max Temp:** 140° F

**Fire Rating:** Class C

**Lightfastness:** 2 (EN 438-2.27) Treefrog Press is recommended for interior use only. Also, it is not recommended for indoor areas with direct sunlight (large glassed in areas, for example) since these can create or even amplify the sunlight exposure of outdoor environments.

**Postforming:** Treefrog Press is non-postforming. 2 (EN 438-2.31)

**Formaldehyde Emission:** .05 ppm, less than .1 ppm standard. Documentation next page.

**Resistance to Staining:** (EN 438- 2.26) Group 1,2 ,3 Open porous surfaces Group 1, 2, 3, Group 2 |

**Gloss Level:** 10 (85° - Grade of reflectometer acc. to DIN 67530) |

**Note:** Although a reconstituted veneer small variations of the wood veneer are unavoidable.



Treefrog Press (Product #'s: 70101, 70103, 70105, 70106, 70107, 70108, 70110)



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Test laboratory accredited by Deutsche Akkreditierungsstelle GmbH (DAkkS)  
(German Accreditation System of Testing) acc. to DIN EN ISO/IEC 17025



Deutsche  
Akkreditierungsstelle  
D-PL-11054-01-00

# TEST CERTIFICATE

CT-12-06-19-14

**Product:** Homapal-Wood-Laminate

**Company:** Homapal Plattenwerk GmbH & Co. KG  
Bahnhofstraße 30/32, D-37412 Herzberg

**Order:** Determination of the formaldehyde release of Homapal-Wood-Laminate according to test chamber method DIN EN 717-1

**Test method:** Test chamber method DIN EN 717-1  
Chemical analysis formaldehyde: Acetyl acetone method

**Test report:** Test report 251347 dated November 11<sup>th</sup>, 2011

**Test result:** The formaldehyde release of the tested Homapal-Wood-Laminate is 0.05 ppm (432 h).  
The Homapal-Wood-Laminate fulfils the limiting value of 0.1 ppm of the ChemVerbotsV § 1 (3) regarding formaldehyde.

Dresden, June 19<sup>th</sup>, 2012

Head of laboratory



Engineer in charge



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## 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. Buyer's 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 and 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.

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## 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](mailto:sales@treefrogveneer.com).