

# Technical info

Shinnoki laminates – [www.shinnoki.com](http://www.shinnoki.com)

# SHINNOKI laminates

Ready-to-use wood veneered laminates, brushed, stained and lacquered, requiring no additional finishing. Available in a range of 16 different designs, adapted to all styles. Thanks to the unique mixmatch technique where veneers from different trees with varying slicing techniques are randomly jointed, the result is a high quality sheet with the looks of a solid panel. Matching prefinished veneered panels and edge bandings are also available.

1	DESCRIPTION
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**Type:** Shinnoki prefinished veneered laminates are made up of stained and lacquered real wood veneers laminated to a paper impregnated with a phenolic resin. The result is a firm but still flexible product that can be applied as easy as a HPL decorative laminate. They are ideal for applications such as interior doors and where specific substrates are required and thus a perfect complement to Shinnoki panels.

**Thickness:** backing: 0,4 mm; veneer: 0,6 mm<sup>(1)</sup>

**Splicing method:** mixmatch

**Finishing:** Stained with water-based colorants and protected with six layers of ultra-low emitting acrylate urethane UV-cured varnish (99.5% solids), applied sequentially by means of a rolling technique and intermediate curing; Matt finish (10% gloss, tolerance +/- 3%).


**Applications:** Shinnoki laminates are only suited for interior applications. Most common applications are home cabinetry, kitchen fronts, dressings, fixed furniture, reception desks, office cabinets, hotel closets, etc... Shinnoki is not suitable for horizontal use in kitchens, bathrooms or similar humid areas. This product is ideal for laminating the most common wooden substrates and for (re)decorating doors. It is not recommended to glue Shinnoki laminates on solid wood. Shinnoki laminates are slightly bendable and can therefore be used to decorate large arches. Postforming is not possible. Maximum radius = 100mm.

**Sizes:** Shinnoki laminates are available in two dimensions: 3050x1220x1mm - 4' x 10' x 1/25" (48.0" x 118.1" x 1/25") and 2150x1000x1mm - 3' x 7' x 1/25" (39.3" x 84.6" x 1/25"). Tolerance on dimensions: ± 20mm; Tolerance on flatness: 60mm/m.

### Storage:

It is advisable to keep Shinnoki laminates in a dry place with a constant temperature of at least 18°C and maintain a constant relative humidity between 50% and 60%. The products should be acclimatized for 7 days before processing. We recommend to store Shinnoki laminates horizontally, face-to-face. Avoid direct contact with the floor. The top layer of Shinnoki laminates is prefinished real wood veneer, which is likely to discolor over time. Therefore, always store Shinnoki laminates in a dark place or cover the sheets so that they are not exposed to light. Occasionally, Shinnoki laminates are delivered in a cardboard package (parcel service). We recommend that you remove the sheets as quickly as possible from this package and store them flat as described previously. Thus, problems with the processing of the laminates are avoided. Be aware of the sharp edges when manipulating Shinnoki laminates and always carry the sheets with 2 people.

<sup>1</sup> Keep in mind that this is the thickness of the veneer before we process it. The final thickness may vary.

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laminates

## Application:

Always apply Shinnoki laminates on both sides of the core you wish to enoble to ensure a good stability. It is possible to use another type of backing that matches the characteristics of Shinnoki laminates. Whenever chosen, any responsibility of the manufacturer expires. Under all circumstances, it is recommended to test the adhesion and stability before proceeding to full production.

Shinnoki laminates, glue, substrates and finishing products should be stored in the same area or at least at the same temperature and humidity for at least 48 hours. The recommended temperature is at least 18°C and the relative humidity is between 50% and 60%. If these parameters are not respected, this can lead to ridges between the Shinnoki laminates and the substrate.

Shinnoki laminates can be manually glued with contact glue or in a press (hot and cold). Always pay carefully attention to the instructions of the glue manufacturer. When using a spray-gun it is recommended to spray several thin layers instead of 1 thick layer onto both the Shinnoki laminates and the substrate, with the necessary waiting time between the different layers. If the gluing is done by a press (hot = max 70°C or cold), then it is recommended to use a PVAC-glue or a UF-glue.

Before applying the glue, ensure that all surfaces are free of grease, dust and other dirt. The surface can be cleaned efficiently by denaturated ethyl alcohol. For contact glue it is important that the glue is applied on both surfaces. If using a glue spatula, apply the glue on one surface at right angles to the other.


Start to press from the middle of the board (never begin from the sides). Once the two surfaces are making contact they can be properly pressed by using a roller with two grips. Use body weight for maximum pressure. Never use a hammer and block or rollers with only one grip!

## Maintenance:

Shinnoki laminates are finished with 6 layers acrylate urethane lacquer and thus easy to maintain. Normal maintenance involves no more than removing dust with a soft, dry cloth. A slightly damp cloth can also be used, but be careful not to use too much water. If liquids are spilled, it is recommended that they should be dried off immediately to avoid damp patches being left. Tough dirt can be removed using water and a mild cleaning agent or a detergent. Never use a cleaner based on acetone or ethyl butyl acetate; these substances can leave marks that cannot be removed. Wax and oil can also cause damage.

## Sustainability

Only green energy is used for the production of Shinnoki. During the production process, no urea formaldehyde is added nor products with harmful VOCs (Volatile Organic Compounds) are used. The MDF and wood veneer comes only from responsible forestry and are FSC® certified. When gluing the veneer layers on the panel, bio energy is used to generate heat.

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<b>2</b>	<b>TECHNICAL DATA MANUFACTURER</b>
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<b>GENERAL PROPERTIES</b>		
Dimensions	EN 14354	2150 x 1000 x 1 mm 3050 x 1220 x 1 mm
Thickness of the top layer	EN 14354	0,6 mm
Deviation of thickness	EN 14354	≤ 0,3 mm
Deviation of squareness	EN 324-2	± 5 mm/m
Cup in width direction	EN 14354	5 %
Flatness deviation	EN 14354	5 %
Internal bond	EN 319	-
Veneer gluing adhesion	EN 204/205	≥ 1 N/mm <sup>2</sup>
Density	EN 323/EN672	1300 kg/m <sup>3</sup>
Layer thickness varnish	EN ISO 2808	± 55 µm
Moisture content	EN 322	5 % - 9 %
Warranty	Decospan NV	2 years
<b>CLASSIFICATION PROPERTIES</b>		
Resistance to chemical agents	EN 423/part 2	class 4
Resistance to hot liquids	EN 12720	class 5*
Resistance to cold liquids: foodstuffs	EN 12720	class 5*
Resistance to cold liquids: household products - detergents, cleaning agents, disinfectants - acetone, ethyl butyl acetate, black ink, black pen	EN 12720 EN 438/2-5	class 5* class 2*
<b>ADDITIONAL PROPERTIES</b>		
Appearance of the lacquer		Ok
Gloss	EN 2813	10 % ± 3%
Hardness of the lacquer	DIN 53154	-
Impact resistance acc. to Wegner	EN 438-2/11	-
Elasticity of the lacquer	CEN/TC112 (Brinell)	2 Hb
Colour fastness	EN 105-B02	grade 6
Colour stability	EN 15187	class 4
Reflectance	EN 13721	45
Burning cigarette	EN 438-2,18	-
Thermal resistance	EN 13986	-
Thermal conduction	EN 13986	-
Biological durability	EN 335	-
Well managed forests		Pure Wood
Resistance to termites		good
<b>SAFETY PROPERTIES</b>		
VOC loss	EN 664	< 2,1 %
Formaldehyde emission	E1 (EN 717-1)	E1
Formaldehyde emission	E1 (EN 717-2)	E1
Excudation of plasticizers	EN 665	< 2 %
PCP (pentachlorophenol)	CEN/TR 14823	< 5 %

\* 5 No visible change


4 Barely visible change in gloss and colour

3 Small changes in gloss or colour; the structure of the tested surface was unchanged

2 Severe marking visible, but the structure of the tested surface was largely undamaged

1 Severe marking visible and the structure of the tested surface was affected

0 Test surface badly affected or destroyed

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<b>3</b>	<b>OTHER DOCUMENTS</b>
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- MSDS
- Pure Wood Charter
- FSC® Certificate
- PEFC Certificate

<b>4</b>	<b>CONTACT DETAILS</b>
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In case of clarity or additional questions, please contact Decospan NV.

**Decospan NV**

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