

## **PARKLEX 1000: Frequently Asked Questions**

Parklex 1000 is intended to be installed as a rainscreen system. Installation guidelines and information contained in this website are based upon the principles of rainscreen installation, requiring a continuous ventilated airspace behind the exterior panel system and allowing for expansion between the panels.

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### **GENERAL PRODUCT INFORMATION**

**1. Why choose Parklex 1000?**

Parklex has been used throughout the United States and Europe by architects looking for a product combining both durability and the warmth and beauty of wood. Parklex 1000 was developed for use as an exterior façade panel and is intended to be installed

as a rainscreen system.

See [Parklex 1000 Installation Guidelines](#) for General Installation Information and to learn more about the principles of the rainscreen technique.

## **2. What is the composition of the Parklex 1000?**

Parklex 1000 is an exterior grade wood composite panel intended for use as an exterior cladding; it is a high-density panel composed of a thermosetting phenolic resin-bonded cellulose fibre core faced with natural wood that has been coated with our in-house formulated acrylic resin-PVDF protective finish.

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## **3. How does the performance of the Parklex 1000 compare with that of typical wood siding?**

Parklex 1000 is an economical alternative for commercial and residential projects and is suitable for both new and restorative applications. The panels are prefinished and ready to install. Maintenance is limited to general periodic cleaning of superficial environmental dirt and the panels are specifically designed to resist attacks by graffiti and other chemicals.

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## **4. How long has Parklex been available in the United States?**

Finland Color Plywood Corporation has been the exclusive importer and distributor of Parklex products to the United States since 1999; Parklex 1000 has been available in Europe since 1994.

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## **5. Is Parklex 1000 protected by a product warranty?**

Parklex 1000 exterior panel products are protected by a Factory Limited 'Product Only' Warranty, available upon request.

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## **ENVIRONMENTAL, TECHNICAL AND SAFETY INFORMATION**

### **6. Is Parklex 1000 an environmentally 'green' product?**

Please refer to [Parklex 1000 Environmental Statement](#).

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### **7. Is Parklex 1000 non-toxic?**

Parklex 1000 is a non-toxic material. Its formaldehyde content meets a classification of Class 1, with <1mg/100g, which is the lowest possible rating (UNE-EN 312-1:1.997). Please refer to our [Toxicological Report](#) for detailed information.

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### **8. What is the fire rating for this product?**

Parklex 1000 has been tested for Surface Burning Characteristics determined by ASTM E-84 (twenty-five foot tunnel furnace test method) and meets Class B (Class II – 75 or under flame spread), with an actual flame spread of 40 and a smoke developed index of 35. It is possible to manufacture the product to achieve a Class A (Class I) rating, at an additional cost. Please contact us directly for information.

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## **PANEL DIMENSIONS AND WEIGHT**

### **9. What are the available thicknesses of Parklex 1000?**

Finland Color Plywood imports 8mm (5/16") panels for its warehouse inventory stock. Parklex is also available in thicknesses of 3mm, 6mm, 10mm, 12mm, 14mm and 18mm. These thicknesses can be special ordered; there are minimum container quantities and average lead times range from 10-12 weeks. All material is subject to availability; please contact us for additional information.

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## 10. What do the panels weigh?

An 8mm (5/16") x 1220mm (48") x 2440mm (96") Parklex 1000 panel weighs approximately 75 pounds (2.23 lb/ft<sup>2</sup>).

A 10mm (3/8") x 1220mm (48") x 2440mm (96") Parklex 1000 panel weighs approximately 90 pounds (2.8 lb/ft<sup>2</sup>).

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## PRODUCT DEVELOPMENT, DURABILITY AND PERFORMANCE INFORMATION

### 11. How has product research and development improved the performance of the panels?

The following product timeline outlines improvements of the manufacture of the panels.

**1994:** Parklex 1000 panels were introduced in Europe. The product initially consisted of timber panels internally impregnated with phenolic resin.

**1995:** Parklex 1000 is now manufactured with a bakelite core, consisting of layers of kraft paper impregnated with phenolic resin. The advantage of the kraft paper core is that during the impregnation process the kraft paper absorbs a much larger amount of phenolic resin than timber panels, which results in greater water resistant performance of the panels.

**2002-03:** Parklex 1000 is now manufactured to include a PVDF film in the surface layer of the panel. This film was specifically developed by our research and development scientists to protect the panel from UV rays. After a year of tests and trials of this product, both in our factory laboratory and in officially approved external laboratories, this new generation of panels began mass production in March 2003.

**2005:** Parklex 1000 is now manufactured with an improved impregnation process. In May 2005, with the modifications of the impregnation process we have managed to improve the impregnation of the wood with the phenolic resin. These improvements have led us to consider it unnecessary to use an edge protector in cases in which our material is used in environments with normal levels of moisture and rain. Edge protector may still be considered for use in environments with excessive rain and humidity for aesthetic reasons, as although the water may penetrate the panel edge and a slight change of color occurs on the edges of the panels, this moisture disappears after a few days of dry weather.

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### 12. Will the Parklex 1000 panel expand and contract over the change of seasons?

Parklex 1000 panels offer superior dimensional stability, with negligible water absorption; please refer to our [Specifications](#) for Technical Data and Product Testing Results and [Interpretation of ASTM Test Data](#) for more information.

In detailing your wall system, the panels should be fastened in accordance with our installation guidelines. We recommend to provide a well ventilated system and appropriate joint conditions to allow for expansion. For more information on detailing your wall system, please refer to our [Installation Guidelines](#).

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### 13. Will the color of the panel change over time?

Parklex is composed of natural wood veneers, therefore variations in grain and tone are normal; as well, some degree of color change over time, due to UV ray exposure, is normal. Colors may change within normal parameters due to natural oxidation and exposure to natural elements; color change may be more or less depending upon the intensity of UV exposure. Product improvements strive to increase the color stability of the panel, such as our in-house formulated acrylic resin-PVDF protective finish, which ensures a panel colorfastness of 3-4 after a 3000-hour xenon lamp test. Parklex 1000 has been tested for its resistance to a multitude of stains; in each test performed there were no visible changes observed to the material (the highest rating was achieved).

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### 14. It possible to customize the color or species of veneer?

The product is manufactured using specific wood species due to their consistent quality and secure supply, therefore custom colors and species are not available. Parklex 1000 is currently available in Boak Natural, Boak Brown, Ayous Natural, Ayous Light Brown and Ayous Dark Brown.

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### 15. Are the panels graffiti resistant? - [Download Maintenance and Cleaning Instructions](#)

Parklex 1000 panels are specifically designed to resist attacks by graffiti and other chemicals.

Product improvements, such as our additional layer of PVDF (polyvinylidene fluoride) film, strive to provide increased chemical resistance and anti-graffiti and dirt repellent properties.

Ink graffiti can be cleaned with organic solvents, such as methanol or methyl ethyl ketone (MEK); please contact us directly for additional information.

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## INSTALLATION INFORMATION

### 16. Does the panel require specific installation details?

Parklex 1000 is intended to be installed as a rainscreen system. Installation guidelines and information contained in this website are based upon the principles of rainscreen installation, requiring a continuous ventilated airspace behind the exterior panel system and allowing for expansion between the panels.

Fasteners shall be spaced at intervals not to exceed 19-3/4" (500mm) on center for 8mm panels; 24" (600mm) on center for 10mm panels. Please refer to our [Installation Guidelines](#) for detailed and specific Installation information.

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### 17. Can the panels be cut down to a different module size?

Parklex 1000 is manufactured in full size (48" x 96") panels. Parklex 1000 has the ability to be easily adapted on site; panels may be readily cut in the field using a saw with a precision carbide or tungsten tipped blade.

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### 18. Is it possible to bend the panels for curved applications?

It is possible to bend the panels; we recommend using a 4mm, 6mm or 8mm thick panel for curved applications. The panels are generally capable of a 10m radius using the 8mm thick panel; we recommend acquiring extra panels to mock up and test your system in the field. Please note that if the panel is bent, the stress imposed on the panel may reduce its life due to the fatigue of the material.

<u>Panel Thickness</u>	<u>Minimum Bending Radius (inch)</u>	<u>Minimum Bending Radius (mm)</u>
1mm	16	410
3mm	45	1.140
4mm	65	1.650
6mm	100	2.500
8mm	130	3.300

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### 19. Can the panels be used indoors?

Parklex 1000 can be used for interior applications, such as walls and countertops. For interior wall, acoustic wall and ceiling panels, please see our interior surface product [Parklex 500](#).

Parklex 1000 is not recommended for use as a flooring material, as thickness tolerances may vary slightly from panel to panel. For flooring, please see our commercial wood flooring [Parklex 2000](#).

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## MAINTENANCE

### 20. Will the panels require maintenance or periodic cleaning? - [Download Maintenance and Cleaning Instructions](#)

Parklex 1000 panels are prefinished, however periodic maintenance may be necessary to clean the panel surface of superficial dirt resulting from typical exposure to dust and pollution. Cleaning should be done using a damp soft cloth and non-abrasive mild household detergent solution. Abrasive and highly acidic or alkaline products should not be used as they could scratch or damage the surface of the panel

### 21. Is it possible to refinish the surface of the panel in any way?

Due to UV exposure over a number of years, it is possible for the panels to gradually lose their original luster. This gradual dulling of the surface does not effect the panel performance, however, it is possible to renew the surface shine for aesthetic intent. For specific information on restoring the panel's original reflective quality, please click here to refer to the [Sikkens Procedure](#). Improvements to Parklex 1000, put into production in 2003, increase the age resistance of the panel, increasing the stability of the surface gloss of the finish and therefore, greatly reducing the effect described above and the need for surface restoration.

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### 22. Do the edges of the panels need to be finished in any way?

Improvements put into production in 2005 have improved the panels' behavior against humidity, through the impregnation of the veneers with a higher amount of phenolic resin. This new production of panels have led us to consider it unnecessary to require

the application of edge sealant in cases in which our material is used in environments with normal levels of moisture and rain. Edge protector may still be considered for use in environments with excessive rain and humidity for aesthetic reasons, as although the water may penetrate the panel edge and a slight change of color occurs on the edges of the panels, this moisture disappears after a few days of dry weather.

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Click to view [Factory Warning Label](#) included with material shipment.

See [Parklex 1000 Specifications](#) for Technical Data and Product Testing Results.

See [Parklex 1000 Installation Guidelines](#) for General Installation Information.

See [Parklex 1000 Sample Details](#) for General Details into Wood and Metal Subframe Support Systems.