

## What makes PaperStone® such a green product?

PaperStone® is a composite material produced with 100% FSC® recycled paper and a resin called PetroFree™ used as a binder, which is not derived from petroleum or its derivatives, and is therefore 100% ecological.

PaperStone® does not contain any VOC (Volatile Organic Compounds), including formaldehyde, and does not emit any radon gas, the second cause of cancer in the United States. PaperStone® is one of the few materials certified and approved by the stringent standards SmartWood® Program of the Rainforest Alliance® and FSC® because it is produced through the use of paper from eco-sustainable plantations, according to responsible methods with the primary objective of protecting the environment and sustainability over the long term.

And last but not least, PaperStone® plays an important role in the acquisition of LEED® credits.

PaperStone® was tested and validated as a suitable material for contact with foods. In fact, it is certified according to the most stringent and restrictive certifications, including the American NSF® and European standard EC 1935.

## What is LEED?

LEED® (Leadership in Energy and Environmental Design) Green Building Rating System is a new voluntary standard for the development of products and technologies with low emissions and high performance, for the construction of sustainable buildings and structures. It was founded and promoted by the U.S. Green Building Council® partnered with the U.S. Department of Energy. An Italian off-shoot was founded 2 years ago with offices in Turin called the Green Building Council Italia. ([www.gbccitalia.org](http://www.gbccitalia.org))

## How is PaperStone® produced?

Since it is a totally ecological material, the techniques used to produce PaperStone® are particularly sophisticated and environmentally sustainable.

The recycled FSC® paper used to make it is saturated with a patented resin by Paneltech, the same company that produces PaperStone®.

In contrast to commonly used resins, it is not derived from petroleum, chemical or synthetic products, and was given the name PetroFree™.

The saturated sheets of paper are then stacked and arranged under a press, where they polymerize under heat and pressure. Obviously, the number of recycled paper sheets determines the final thickness of the produced panel.



This logo certifies that PaperStone® is an FSC™ recycled product



## How does PaperStone® compare with other solid surfaces available today?

PaperStone® is the most ecological and eco-compatible composite material available on the market today. Nevertheless, its price is comparable to other solid surfaces, while its simple and rapid processing and installation in many ways make it even more advantageous and economical. Expert craftsmen equipped with carbon tools can easily transform and subsequently install PaperStone®.

PaperStone® offers a one of a kind visual and tactile experience thanks to its natural tones, reminiscent of the colors of the earth. In contrast to other materials like granite, marble and other solid surfaces, it feels warm to the touch. PaperStone® is a non-porous surface, and therefore is used to create horizontal surfaces that are not prone to staining, (for more information, consult the table "Resistance to Chemical Agents"). Furthermore, the product is also totally water repellent, with absorption rates virtually at zero. Any surfaces that may have been damaged or cut superficially can be easily resurfaced using Scotch-Brite® pads and then retreated with a specific product called Top Oil OSMO®, or possibly other natural wax-based products for wood care and maintenance. PaperStone® does not contain petroleum-based chemical products like polyesters and acrylics. The superior rigidity of PaperStone® makes innovative applications possible for projects that require high load capacities (cantilever rack concept) up to 50 cm. without the need for support with a 19 mm. thickness. In contrast to some types of granite surfaces, it does not emit radon. PaperStone® resists temperatures up to approximately 180 degrees and is certified as a surface suitable for contact with foods in accordance with the American Certifying Body NSF® and European EC1935.

## How does it react in the case of combustion?

PaperStone® is not only a natural and ecological material, but it also represents an excellent choice because of its high flame resistance. In the case of fire, PaperStone® maintains its stability for a long duration and has earned a Class A UL rating for flame propagation as well as smoke index according to testing based on ASTM E84. It does not melt, liquify or explode.

## It is used to make other materials?

... Yes, of course.

**Cladding:** a material from the PaperStone® range for covering the facades of commercial and residential buildings.

**CharredStone:** especially suited for covering interior walls, it offers a textured surface that combines the effect of charred wood with the aesthetics and durability typical of PaperStone.

**CoverPly™:** composite hard wood panels covered in PaperStone®.

**Deck™ and DiaScreen™:** panels in PaperStone® with diamond-shaped surface to obtain a slip-proof effect. Available in the entire PaperStone® color range.



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## Who can produce and install PaperStone® ?

PaperStone® is processed and formed using typical wood-working tools; numerical control pantograph machines are the most suitable solution for serial productions. For the production of kitchen counters, consult the Processing Manual.

## How is PaperStone® stored?

PaperStone® panels are shipped and delivered on pallets that can be returned for credit. It is important to keep the panels protected from humidity and flat on the pallet until they are installed. For more information, carefully read the instructions that accompany every pallet.

## How does PaperStone® perform in exterior applications?

Structurally, PaperStone® is extremely durable and water resistant. It can be used for furniture items destined for outdoor and garden use. However, prolonged exposure to UV light over time can cause fading; in this case the surfaces can be restored by applying a specific protective wax.

## Do the colors of PaperStone® change over time?

The colors from the "Original" PaperStone® color range, including Slate, Sienna and Mocha, as well as those from the "Design Collection" range, including Graphite, Pewter, Sand, Azure and Charcoal, do not undergo evident color variations over time in interior applications.

## What thicknesses and dimensions are available?

PaperStone® is produced in different sizes:

Ready for delivery:	3658 mm. X 1530 mm.
By request:	3050 mm. X 1530 mm. 2440 mm. X 1530 mm.

The thicknesses start at a minimum of 2mm. up to a maximum of 30mm. For more information about available "Ready for delivery" stock, please request an updated price list.



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## How long has Paneltech Products Inc. existed on the market?

The company was founded in 1996. Currently it is growing rapidly based on a productive process and philosophy that is focused on strong international leadership in the development of products and technologies for the home, work and education, creating ecologically responsible materials that can stand the test of time. Paneltech is located in Hoquiam, Washington at the edge of the Olympic Rainforest. The productive facility includes not only production of panels, but also a large laboratory dedicated to the development of resins, a large resin production plant, a continuous cycle press for panel production and a large warehouse.

## Conclusion

We hope we have provided a thorough presentation of the products and company that produces them, but if you still have not found answers to your questions please contact us by email at:

**[info@paperstone.eu](mailto:info@paperstone.eu)**

and we will be happy to reply to your questions and send you any requested documentation.



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