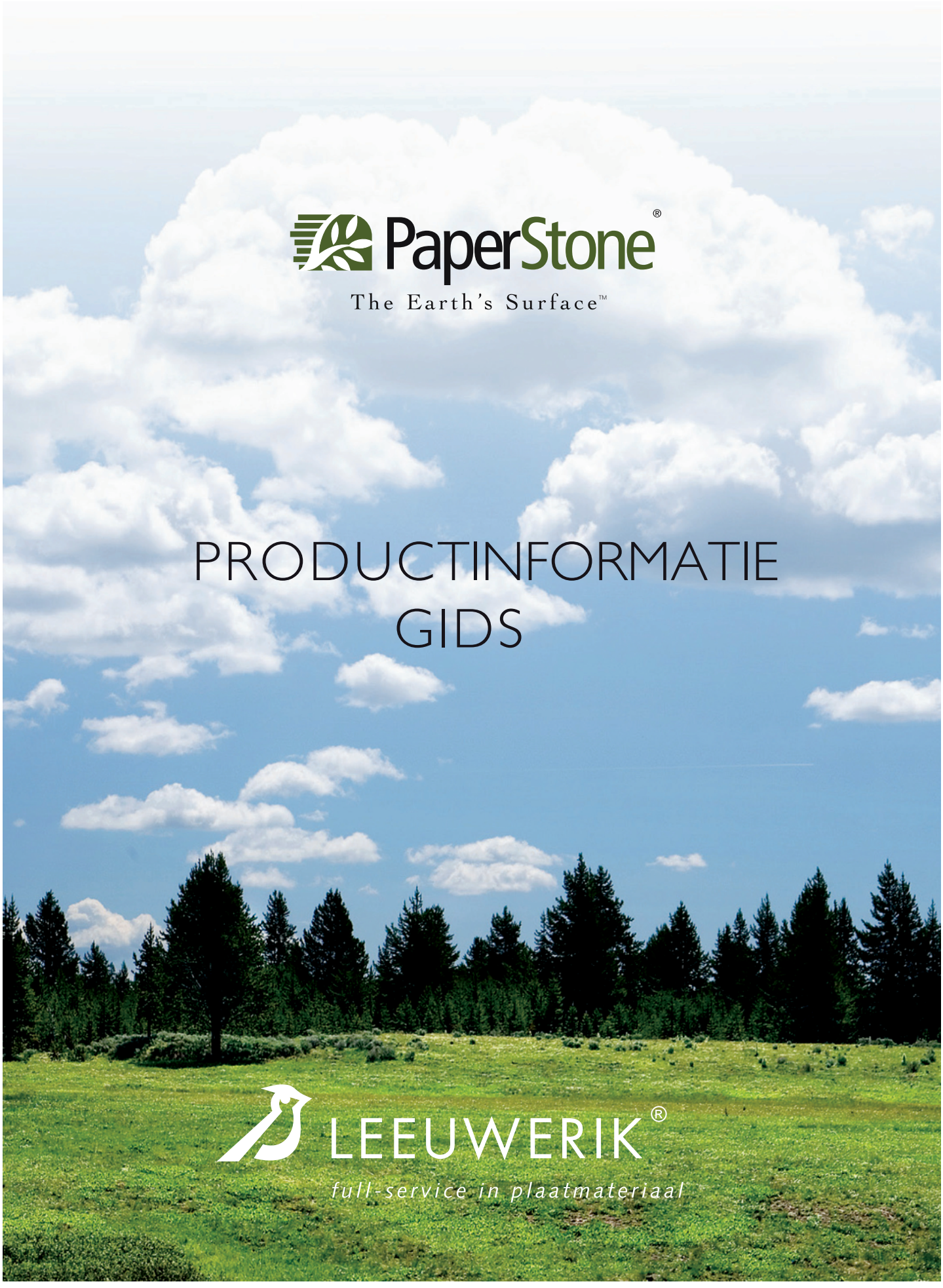
PaperStone®

The Earth's Surface™

PRODUCTINFORMATIE GIDS

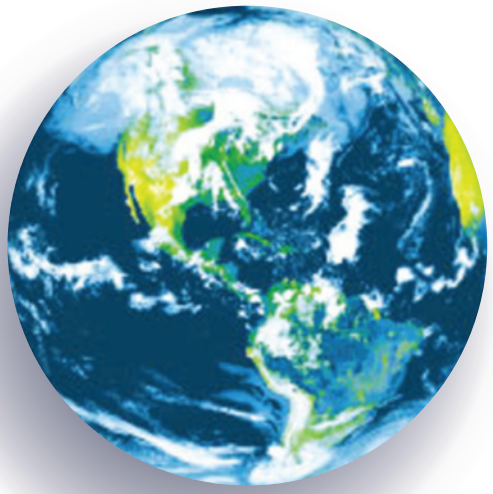


LEEUWERIK®

full-service in plaatmateriaal

PaperStone®

The kitchen counter top with an ecological coscience™



Eco-sustainability is a trend. A powerful concept.

When materials are produced in accordance with this principle, the ecological idea becomes a natural choice. This translates into attributing importance to clean air and water, and responsible management of resources. Choosing ecological products means living, working, learning and playing in a healthier world.

PaperStone® is committed to producing innovative and evolved ecological products that contribute to an ecological, holistic life style, which are therefore intelligent, modern and responsible.

Very strong, beautiful and warm to the touch.

PaperStone® is not only a new and beautiful material produced in a socially responsible way. It is also strong and resistant. It is as resistant as steel, as beautiful as stone, and it can be processed like solid wood. PaperStone® is innovative and has a competitive price point. It is an attractive composite material, suitable for heavy loads, known for its eco-sustainability, its modern aesthetics and warm feeling to the touch. PaperStone® is durable and highly recommended for residential kitchens, bathrooms and many other commercial applications. PaperStone® is also NSF® and EC1935 certified as suitable for contact with foods.

PaperStone® is made from 100% recycled paper or 100% recycled cardboard and our patented resin, PetroFree®. PaperStone® is certified in accordance with FSC* (Forest Steward-ship Council) standards in the scope of the SmartWood program of the Rainforest Alliance**. Indication of using PaperStone® in projects can contribute to obtainment of up to seven LEED credits.***

*note = wood sourced from responsibly managed forests - **note = global certification program for the conservation of tropical forests. - ***note = energy efficiency and ecological impact classification for buildings

paperstone.eu | leeuwerik.nl

The eco-sustainable surface for interiors

PetroFree™
Engineered Phenolic Resins
manufactured by
Paneltech International LLC

PaperStone® is made with products found in nature.

PaperStone® is made with 100% recycled cardboard or 100% recycled office paper, combined with the patented resin PetroFree® by Paneltech (producer of PaperStone®).

Phenolic resins...safe, reliable

Phenolic resins are used to produce PaperStone®. For nearly a decade, ever since Henry Baekeland invented Bakelite, phenolic resins have been used to create the original and universal black outer shell of the dial telephone. Phenolic resins have long been appreciated for their resistance to abrasion and even now are the most commonly used materials for high-quality brake pads on automobiles.

The People at Paneltech, makers of PaperStone®, designed and built resin manufacturing capacity and formulated its proprietary resins to utilize a substitute raw material for what otherwise would be a petroleum derivative. This substitute raw material is a by-product of another manufacturing process. Demand for this by-product was limited and excess was used for boiler fuel when the PaperStone® team identified it and proved it as a high quality substitute to eliminate the need for petroleum derivatives in PaperStone®, leading to the PetroFree™ designation.

PaperStone® is produced by Paneltech International LLC, a company committed to eco-sustainability

Cellulose is another primary component in PaperStone®. One of its recycled paper suppliers is Grays Harbor Paper, a small independent paper mill located close to Paneltech, where PaperStone® is produced - right at the edge of the beautiful rainforest near the city of Olympia, Washington. Both Grays Harbor and Paneltech are certified Chains of Production according to the FSC (Forest Stewardship Council) in the scope of the SmartWood program of the Rainforest Alliance.

PaperStone® transforms into a composite product when the sheets of recycled paper are processed through saturation with PetroFree® resins, and then pressed under heat and pressure. This permits three dimensional "crisscross" penetration of the polymer resin, thanks to which the result is a dense, even and above all non-porous composite material that will not peel apart. PaperStone® was tested according to the strictest standards. It does not contain identifiable formaldehyde and does not emit any VOC (Volatile Organic Compounds).

* certification performed on "Slate"

CERTIFIED ENVIRONMENTAL PRODUCT DECLARATION UL.COM/EPD

U.S. GREEN BUILDING COUNCIL MEMBER

RAINFOREST ALLIANCE CERTIFIED

FSC Recycled
Supporting responsible use of forest resources
Cert no. SW-COC-001678
www.fsc.org
© 1996 Forest Stewardship Council

Questo logo certifica che PaperStone® è un prodotto riciclato FSC™

PetroFree™
Engineered Phenolic Resins

NSF

Mechanical properties

PaperStone® can withstand up to 20.41 kg of pressure every 6.5 cm2; a panel with a thickness of 2.54 cm requires a support every 61-66 cm, with a minor deflection of 0.16 cm.

Common applications

Its product category is composite material for architecture. It is recommended by architects and interior designers for commercial and residential uses. PaperStone® is prepared for final use by installers of composite materials.

It is ideal for:

~ Table tops and kitchen counter tops

~ Bathrooms counter tops and partitions

~ Decorative interior panels

~ Room partitions

~ Vertical interior coverings

~ Surfaces for fire doors

~ Laboratory counters

~ Bar counters

~ Food carts

~ Seating bars

~ Furnishings

~ Interior signage

~ Cutting boards

PaperStone® is very resistant and practically waterproof.
It is highly resistant to chemicals, scratches and stains.
PaperStone® can tolerate temperatures up to approximately 180° C,
making it perfect for kitchen counter tops.

PaperStone® is NSF® certified as a surface suitable for
contact with foods, and is also Class C certified for reaction to flame. (European Certification)

Warm, natural colors...

Produced using 100% recycled paper and PetroFree™ resin

PaperStone® is an eco-sustainable composite material made from 100% recycled paper or recycled cardboard and natural phenolic resin.

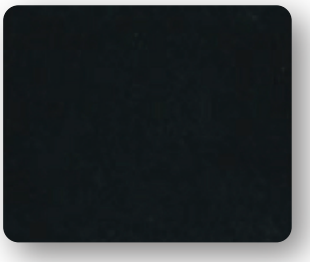
Because of the different contents in the types of paper and cardboard used in the production process, in addition to the natural phenolic resin, its color tones become more intense and warm over time, therefore we are unable to guarantee perfect color correspondence to samples. The natural progression of the color over time generates a truly authentic material with all the features of a natural product.

The colors presented on this page are made with 100% recycled*

CABERNET

DENIM

LEATHER *



SLATE

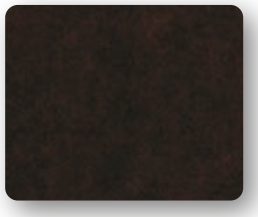
* certified by the SmartWood Program of the Rainforest Alliance in accordance with FSC® Mixed Sources standards.
The product is derived from responsibly managed forests, from controlled sources and from cellulose fiber or recycled wood (Cert. No. SCS-COC-001678.)

... a range of colors inspired by the intense tones of the earth

Produced using 100% recycled paper and PetroFree™ resin

PaperStone® in the intense tonal colors of the earth, perfect for a myriad of design styles for kitchens, bathrooms and offices, as well as for industrial and educational spaces..

The colors presented on this page are made with 100% recycled paper



CHOCOLATE

GUNMETAL

SIENNA

PaperStone®
FSC® Design Collection

PaperStone® Design Collection

PaperStone® Design Collection is the new assortment of PaperStone® that offers lighter colors not available in other ranges.
Like the rest of the PaperStone® assortment, it maintains its ecological features over time and is also FSC® certified.
In contrast to the other PaperStone® ranges, the panels from the FSC® Design Collection series offer a "striped" effect color in the panel thickness, and are therefore not evenly colored through the entire panel depth.

SAND

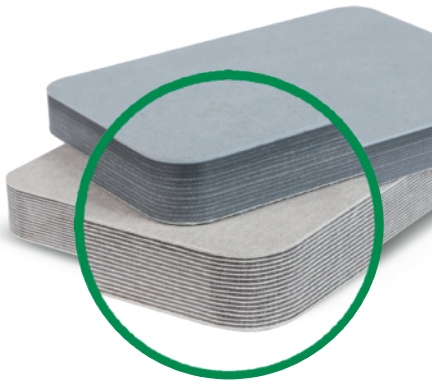
PEWTER

GRAPHITE

AZURE

CHARCOAL*

HONEY**



Graphite, Pewter, Sand, Azure have a distinctive striped effect.

*Charcoal offers a black edge omogeneous aspect.
Striped effect upon on request.

**Honey is a color through panel.

Characteristic antique effect in PaperStone® in various colors

Cabernet
Deep wine red color with consistent shading. Light mottling and unique paper characteristics become visible after sanding. Made with 100% recycled paper.

Chocolate
Very dark brown with little mottling. Similar sanding effect as Mocha, but less noticeable. Made with 100% recycled paper.

Denim
Consistent, rich dark blue. Light amount of mottling becomes apparent after sanding. Made with 100% recycled paper.

Gunmetal
Fairly flat dark gray. Heavy amount of much lighter mottling becomes very apparent after a very light sanding. Mottling will 'brown' over time. Made with 100% recycled paper.

Leather
Dark warm tan. Varies in shade from panel to panel as well as within a single panel. Made with 100% recycled paper.

Sienna
Fairly flat medium brown. Heavy amount of much lighter mottling becomes apparent after a very light sanding. Made with 100% recycled paper.

Slate
Slate-N: NSF® certified and has a recycled OCC appearance with some mottling
and occasional speckling throughout, which become more apparent with sanding.
Slate-P: non-NSF® with minimal mottling and fewer recycled characteristics.
Onyx: non-recycled, non-NSF® with no mottling and no recycled characteristics

Azure
Consistently uniform warm ocean blue. Light amount of mottling becomes apparent after sanding. Distinctive layered edge grain with alternating light/dark colors.
Made with 100% recycled paper.

Charcoal
Consistent rich dark gray. Slight mottling becomes more apparent after sanding. A darker core creates a subtle contrast with the surface color. Made with 100% recycled paper.

Graphite
Consistent medium gray. Slight mottling becomes more apparent after sanding. Distinctive layered edge grain with alternating light/dark colors. Made with 100% recycled paper.

Honey
Warm, bright, golden brown . Slight mottling becomes more apparent after sanding. A darker core creates a subtle contrast with the surface color. Made with 100% recycled paper.

Pewter
Consistent light gray. Light amount of mottling becomes apparent after sanding. Distinctive layered edge grain with alternating light/dark colors. Made with 100% recycled paper.

Sand
Consistent light tan. Light mottling becomes apparent after sanding. Distinctive
layered edge grain with alternating light/dark colors. When profiling or
rounding edges, a very light transition may become apparent.
Made with 100% recycled paper.

Features of the colors and tone variations

Solid colors

The color of PaperStone® is derived from the natural color of paper and the pigments used in the productive process. PaperStone® is a composite material – its color is not derived from a superficial treatment, but is even all the way through the thickness of the material.

Antiqued sheen and effect

Over time, PaperStone® takes on an attractive aged appearance, and intrinsic quality of this material. The antiquing process develops over time and there may be glossier spots in areas with more intense use. In general, the color tonality will become softer and more intense.
To better understand the antique sheen and the process of aging, you must keep three fundamental points in mind:

- The antiquing process starts during production and completes over the course of a few years, similar to natural wood products, which over time take on a softer, more intense color tonality.
- The antique effect in PaperStone® is mainly a result of the color of the recycled paper or cardboard combined with the aging of the components in phenolic resin, where the color is initially light amber and then becomes an intense Sienna earth tone over time.
- The antiquing process and sheen develop naturally. It is therefore totally normal to see differences in the panels when they are installed, even if the panels come from the same lot. In any case, with the passage of time the differences tend to converge, creating an even appearance.

Tonal variations

Color and sheen may vary from one panel to the next, also inside of the same panel. This variation is normal in a product made with natural materials. Samples of PaperStone® may differ from the installed product, due to the age and sheen of the sample, as well as different thicknesses in the materials. An assessment of color variations from one panel to another is difficult and subjective, and comparison requires a certain objectivity.

Striping: — PaperStone® has a unique appearance, naturally uneven with a striped effect in the length of the panel. This effect is less evident in darker colors, but is always present. These features are due to the natural variations in the recycled paper used to make the product. The "Leather" finish, which currently is not produced using recycled materials, has minimum striping due to the even character of the natural wood fibers used to produce it.
Rough surface: - The tactile feeling and uniformity are variable. The tactile effect will be rougher when the panel is installed; it becomes more uniform and has more sheen as time passes and with use. There may also be slight irregularities in some areas; this is because the material used to produce the panels is treated with heat and pressure, not stamping.

FSC® Design Collection

PaperStone® Design Collection is the new assortment of PaperStone® that offers lighter colors not available in other ranges. Like the rest of the PaperStone® assortment, it maintains its ecological features over time and is also FSC® certified.
In contrast to the other PaperStone® ranges, the panels from the FSC® Design Collection series offer a "striped" effect color (except Honey) in the panel thickness, and are therefore not evenly colored through the entire panel depth.
They don't have the "aged appareance" typical of the Solid Color Range.

Eco-sustainable

PaperStone® is the only composite material for architecture that is certified as produced with 100% recycled paper. It is also certified in accordance with the standards of the Forest Stewardship Council (FSC®) for the Smartwood of The Rainforest Alliance. PaperStone® can contribute to qualifying a construction project for acquisition of points for certification in accordance with Leadership in Energy and Environmental (LEED®).

INFORMATION ABOUT LEED CERTIFICATION

Single materials and products used in the construction are not certified. Version 2.2 of the certification procedure is relative to the entire construction project. The project earns "credits" based on certifications. The categories where it is possible to accumulate Global partition products are based on LEED® Standards 2.2 as follows:

Recycled Content: LEED® V2.2 assigns points to buildings that contain recycled, recovered, reused or regenerated products, with credits attributed in proportion to the total weights of the materials in the building (10% = 1 credit; 20% = 2 credit). The credit is based on the sum of post-consumption recycled materials + 1/2 of pre-consumption recycled materials. This can contribute to reaching Credits 4.1 & 4.2 in the section "Materials & Resources".

Materials with low emissions: LEED® V2.2 assigns 1 Credit for composite wood and fibers originating from agriculture and not containing resins with urea and formaldehyde additives. PaperStone® does not contain urea-formaldehyde. Mechanical fastening devices are recommended for installing cabinets. Do not use adhesives. A substrate for assembling the 1.9 cm panels or higher is not necessary. This contributes to obtaining Credit 4.4 of the Interior Environmental Quality section.

There are **three** categories for obtaining LEED® Credits. **Materials & Resources** pertains to where the materials are derived from and at what distance. PaperStone® qualifies for the criteria **Interior Environmental Quality**, because it does not emit VOC or formaldehyde. The section **Innovative Procedures and Design** for LEED® Credits also assigns credits to PaperStone®.

*Certification performed on "Slate"

This logo certifies that PaperStone® is an FSCTM recycled product

Environmental Impact Statistics

RoRocks and caves at Cape Flattery at the extreme north of Washington State, the northernmost point of the continental United States

A slab of PaperStone® (3660 x 1530 x 12.7 mm), in respect to a traditional phenolic composite product made of virgin fiber and the classic resins available on the market, results in savings of:

- 2.333,7 liters of water
- 1.055.000.000 joules of power
- 29,7 kg of solid waste
- 57,6 kg of greenhouse gas
- 12,5 kg of phenols derived from petroleum

Ruby Beach, National Olympic Park, Washington.

Data obtained using an EPA calculator for energy consumption and savings. A version of this calculator and relative instructions for using it are available online at:*

http://yosemite.epa.gov/oar/globalwarming.nsf/content/ActionsWasteToolsRecon.html

**note = Environmental Protection Agency.*

PaperStone®

Technical specifications

PaperStone® is made with 100% recycled paper and cardboard saturated with our phenolic resin PetroFree® (obtained from natural materials like the oil from cashew shells) and pigments. Heat and pressure transform these elements into a compound of cellulose fiber, giving PaperStone® hardness, density and resistance, perfect for long-enduring projects.

PROPERTY	RESULTS	SYSTEM	
Specific Weight (density) *peso specifico densità*	1,328 gr/cm3	Picnometro UNI EN ISO 1183-1	
Formaldheyde *rilascio formaldeide*	1 mgHCHO/(m2*h)	EN 717-2:1994	
Screwing Capability (90° to the surface) *resistenza all'estrazione della vite a 90° dalla superficie*	323 N/mm	EN 320:11993	
Thickness Swelling (1 hour in boiling water) *variazione dello spessore dopo 1 ora in acqua bollente*	0,00%	EN ISO 62/99 met.2	
Thickness Swelling (24 hour 23°C in water) *variazione dello spessore dopo 24 ore in acqua a 23°*	0,00%	EN ISO 62:2001 met.1	
Compressive Strength *resistenza alla compressione*	131,1 Mpa	EN ISO 604:1996	
Tensile Strength ***resistenza alla trazione***		EN ISO 527:1996	
Breaking load *carico di rottura*	13.819 N	EN ISO 527:1996	
Tensile Strength *resistenza a trazione*	71 Mpa	EN ISO 527:1996	
Modulus *modulo di elasticità*	7.467 Mpa	EN ISO 527:1996	
Elongation at maximum load *allungamento al carico massimo*	1,2%	EN ISO 527:1996	
Bending Strength ***resistenza alla flessione***		EN ISO 178:2003	
Bending Strength *resistenza alla flessione*	114,5 Mpa	EN ISO 178:2003	
Modulus *modulo di elasticità*	8.888 Mpa	EN ISO 178:2003	
Impact Resistivity with small ball *resistenza all'urto con sfera di piccolo diametro*	> 80 N no sign > 80 N nessuna impronta	EN 438-2:2005, par.20	
Impact Resistivity with big ball *resistenza all'urto con sfera di grande diametro*	h > 1600 mm no sign h > 1600 mm nessuna impronta	EN 438-2:2005, par.21	
Lightfastness *resistenza alla luce*	> 6	EN 438-2:2005, par.27	
Shore D Hardness *durezza metodo Shore D*	91°	EN ISO 868:2003	
Brinell Hardness *durezza metodo Brinell*	1000N no sign 1000N nessuna impronta	UNI EN 1534	
Scratch resistance *resistenza alla graffiatura*	3	UNI EN 9428:1989	
Resistance to cigarette *resistenza alla sigaretta*	4	UNI EN 9241:1987 UNI FA 275:1989	
Tendency to retain dirt with Osmo Top Oil *tendenza a ritenere lo sporco con Trattamento Osmo Top Oil*	4	UNI 9300:1988+A276:1989	
Resistance to temperature *resistenza agli sbalzi di temperatura*	5 - no defetcs	UNI 9429:1989	
Surface resistance to dry heat *resistenza delle superfici al calore secco*	A (Classe UNI 10944/00)	EN 12722:2009	
Surface resistance to wet heat *resistenza delle superfici al calore umido*	A (Classe UNI 10944/00)	EN 12721:2009	
Surface resistance to cold liquids with Osmo Top Oil *resistenza delle superfici ai liquidi freddi con Trattamento Osmo Top Oil*	C (Classe UNI 10944/00)	EN 12720:2013	
Flamespread index *indice infiammabilità*	classe A rating (20)	ASTM E84	
Smoke Developed index *indice sviluppo fumo*	classe A rating (110)	ASTM 84	
Heat Insulation Coefficienth w / mxK = 0.13 *coefficiente di espansione termica lineare*	0°÷50° = 72,4 µm/(m*°C) -10°÷70° = 77,7 µm/(m*°C)	TMA ASTM E 831:2006 ---	
Food Contact ***Contatto con gli alimenti - migrazione totale***		UNI EN 1186:2003	
Distilled water *acqua distillata*	0,8 mg/dm2	UNI EN 1186:2003	
Ethanol 10% *etanolo 10%*	1,3 mg/dm2	UNI EN 1186:2003	
Acetic acid 3% (m/v) *acido acetico 3% (m/v)*	2,1 mg/dm2	UNI EN 1186:2003	
Vegetable oil (D2 simulant) *Olio vegetale (simulante D2)*	< 1 mg/dm2	UNI EN 1186:2003	*
Regulation (CE) n. 1935/2004 - art. 3 *Conforme alle direttive del regolamento (CE) n. 1935/2004 - art. 3*		UNI EN 1186:2003	*
Actions of microorganisms ***azione dei microorganismi***		EN ISO 846:1997	
Bacteria *batteri*	1	EN ISO 846:1997	
Fungus *funghi*	2	EN ISO 846:1997	

* Tests performed by Laboratorio Pack Co S.r.l.

* Tests performed by Catas S.p.a.

PaperStone®
The Earth's Surface™

Preparation in the laboratory and maintenance

PaperStone® can be prepared using the same tools and techniques used for processing solid wood and composite materials. The information reported herein must be followed by an expert installer. We recommend that installers who are not yet familiar with PaperStone® contact a distributor or qualified installer for additional information on the topics covered herein.

Check both sides of the panel to see if there is a preferable side for the upper part. Consider whether the surface shows veins.
If joints are necessary, establish where they will be. Sometimes a natural "curve" forms in the material, which is not a problem.
Make certain that the convex part is on the upper side and that the borders match the frame of the shell.

Cutting methods

PaperStone® is similar to solid wood and other composite materials. Always follow safety procedures and wear protective clothing and eye protection. Prevent dust inhalation.

Cut PaperStone® dry. Slow down the speed of the blade or increase the advancement speed if excessive heat occurs. Create supports for the entire PaperStone® panel prior to starting to cut, because the blade could become blocked when crossing the panel. If possible, we recommend using tools in Diamond PCD, Widia or HM.

Joints and fastening

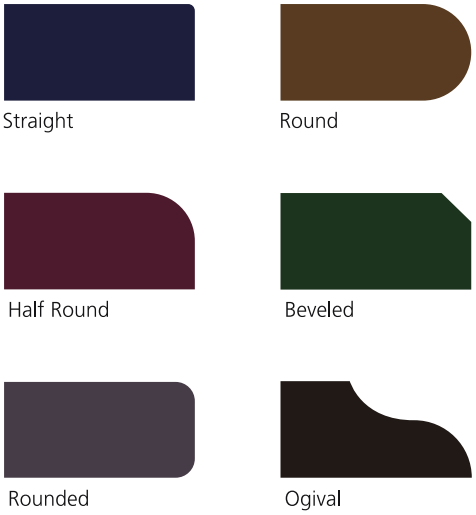
Joints is the PaperStone® assembly may be visible and must be integrated into the project. **Plan the joints so that they do not sit near sinks.**

On a strong, flat surface, arrange spacer bars with the same thicknesses and place the sections of PaperStone® on top of them. Leave a space between the two sections, slightly smaller than the width of the tip of an aligned pantograph. Fasten a ruler to the section and use it as a border to move the pantograph along the crack, so that the point cuts a thin section from both edges simultaneously. This procedure is known as mirror cutting/joint and will create perfectly matched edges.

Prepare the reinforcement and alignment of the joint using one of the following methods:
1) using a biscuit jointer, cutting standard biscuit joints for interlocking wood, or using a pantograph to cut the necessary holes for blocking a tight joint, only used for connecting the top to body sections in post-formed laminate. Glue the joint with a slow binding bi-component epoxy adhesive type 3M Scotch DP105. When the joint is dry, lightly sand it to even out the surrounding area. This sanding will alter the original PaperStone® finish, giving it more sheen.

2) The joints can be easily assembled using an epoxy adhesive type 3M Scotch DP105 and arranging the two clean, pre-sanded edges head to head and applying firm clamps. This will create very strong joints. Typical areas where this type of joint is used are the lower side of the back-splash riser and the area around sinks mounted under the counter.

THE MOST COMMON EDGE PROFILES



PaperStone® offers many possible edge types. These are the seven most common styles.

Standard dimensions of PaperStone® panels: 3660 x 1530 mm.

Other dimensions may be available through local distributors.

PaperStone® finishing treatment

Osmo® Top Oil 3058 is produced entirely using mineral oil for the foods industry, natural waxes (candelilla and carnauba) and plant derivatives (soybean oil, sunflower oil and cardo oil).

All of the ingredients are natural and safe for contact with foods. Waxes and soybean oil are normally used in the foods industry. Carnauba wax is a resin extracted from the carnauba palm (Copernicia prunifera), its origin in the tropical rainforests of northeast Brazil.

The wax is extracted from the palm leaves, where it acts as a protection from the extreme conditions of the tropical rainforest - intense heat, baking sun, constant condensation and humidity.

Surfaces treated with carnauba wax are protected in the same way. Carnauba wax has a very strong granular structure, long durability and a natural appearance when dry. It is the densest known wax. On the contrary, bee's wax, paraffin and many synthetic waxes tend to become opaque and occlude.

Osmo® Top Oil 3058 is recommended for all material applications, also in the food sector. It is a natural form of protection that renews and protects your composite materials, and is also ideal for all kinds of natural wood.

In contains only safe ingredients for contact with foods.

A 500 ml bottle of Osmo® Top Oil 3058 will cover approximately 8/10 square meters of material.

Recommend using Bee's Wax®, following the same procedure described for Osmo® Top Oil 3058.

Sanding and finishing

PaperStone® has a natural finish on both sides. The panel may be scratched during transport and movement. It is a natural product, which in contrast to other composite materials that are treated at very high tolerance levels, may have some small imperfections (minor tolerances in thickness). PaperStone® is composed of sheets of pressed paper, and therefore excessive grinding may arrive at the next layer. For this reason we recommend minimum sanding.

Natural products have intrinsic features that can result in slight differences from panel to panel. A natural sheen may also occur over time.

We have noted that the most beautiful surface, which has received only daily maintenance, is generally characterized by a satin sheen. If sanding is necessary to eliminate possible scratches, start with an abrasive pad like Scotch-BriteTM 3M red or gray (red = fine; gray = superfine). Place the abrasive pad on the surface and in the center of the sander disc. Sand the entire surface until the sheen is even. Clean thoroughly with a damp cloth to remove any dust and residue.

If residues remain on the cut edges, first use a sander with 80 grit sandpaper, then finish with 180 grit. For finishing the surface, sanding can start at 180 and conclude using an abrasive pad.

These operations will alter the initial finish, giving it more sheen, and some colors may show slight spotting.

Even though PaperStone® has very low porosity, final treatment with Osmo® Top Oil 3058 is recommended. This is a totally natural, ecological and eco-sustainable product. All of its ingredients are natural and nontoxic.

Instructions for use

To use Osmo® Top Oil 3058, run hot water over the bottle to render the oil more fluid and easier to use. Apply a thin layer with a soft cloth. Let stand for 20 minutes, then remove any excess. Finish with a clean, soft cloth to obtain an even, intense sheen. For the best results, do not use the treated area for at least 10 hours, allowing the finish to harden.

Ordinary maintenance is the responsibility of the end client

For subsequent maintenance by the user, we recommend Bes's Wax® spray detergent. A product made with carnauba and candelilla waxes, suitable for contact with foods, it cleans and restores the surface. It is exceptional for removing stubborn stains.

For more information about using the products, carefully read the instructions reported on the back of the packages.

See the related videos on YouTube®

click to see the video.:

click to see the video.:

PaperStone® Finishing Video

PaperStone® Refinishing Video

PaperStone®
The Earth's Surface™

PaperStone®
Limited warranty

The kitchen counter top with an ecological conscience

Paneltech, the manufacturer of PaperStone®, guarantees that PaperStone® products installed permanently and correctly, sold by distributors authorized by Paneltech, are free from material defects for a period of 10 years. If the PaperStone® product is found to have a production defect, Paneltech, at its own discretion, and free of charge, will replace the defective PaperStone® panel. This warranty is only applicable to the original proprietor and is non-transferable.

This warranty is for PaperStone® panels with 6 mm. thicknesses and over, used for kitchen counter tops and for residential or commercial applications in a horizontal position. Any uses of PaperStone® in saunas, shower platforms, steam baths or outdoors, including, for example, barbeque tops, exterior counters and boats, are excluded. The clients who require a warranty for the aforesaid types of application must contact their distributor directly, who will examine these instances on a case by case basis.

This warranty DOES NOT COVER PaperStone® panels promoted and sold at a discount or as discontinued series. This is not an "installation" warranty and it DOES

NOT COVER any installation aspects for PaperStone® if the defect is derived from erroneous processing in the workshop or installation. Processing errors in the workshop include errors in matching panels with obvious color variations.

This warranty DOES NOT COVER damages caused by improper physical or chemical uses, or any other improper use, damages caused by excessive heat, uses in some applications, natural events or any other improper use by the client.

• **Improper physical or chemical uses:** This clause includes any irrational use of PaperStone® in consideration of its normal use foreseen in residential or commercial building, including, not in an exhaustive sense, damages from vandalism, use of improper detergents, substances like bleach or acid-based detergents left on the product without proper cleaning, falling heavy objects on the panel, or improper use and maintenance of the product.

Limited warranty, *continued*

Excessive heat: exposure to a level of heat that causes marks, burns or rupture in the PaperStone® panel. Possible cracks around the cook top may appear if cookware placed entirely or partially on the heating element flow over from the cook top and heat the counter top, or may be caused by high temperatures for long periods of time. Common sense is necessary. Hot plate holders can be easily mounted on the PaperStone® panel and hot pads of various types can be used when hot cookware is placed on the counter top.

Natural events: include, not in an exhaustive sense, exposure to the outdoors, weather, architectural projects and engineering, structural movements or settling, conditions in the workplace, freezing conditions and fires.

Replacement

Paneltech will replace any part of the installation with manufacturing defects if the panel is correctly installed. The cost of the required product will be the responsibility of Paneltech.
The client will be responsible for any other costs connected to or derived from the replacement, including removal of the panel, materials or labor costs for replacement, costs for plumbing and electrical hook-ups, tiles, wall coverings, repairs of changes in other furniture pieces that may be necessary as a result of the replacement of PaperStone® panels.

Specific rights
Without prejudice to all exclusions stated herein, Paneltech is not responsible for any direct or indirect damages caused by improper use of PaperStone®. To be covered by this warranty, the proprietor must present the original sales receipt or other valid sales documentation that demonstrates the purchase of the PaperStone® panel within the period covered by the warranty of 10 years. The client must reasonably collaborate with Paneltech in all actions to resolve the obligations of the warranty, including all inspections deemed necessary by Paneltech or its representatives.

PaperStone®
The Earth's Surface™

Distributed by

LEEUWERIK®

full-service in plaatmateriaal

www.leeuwerik.nl - info@leeuwerik.nl