



 **PaperStone[®]**
The Earth's Surface[™]

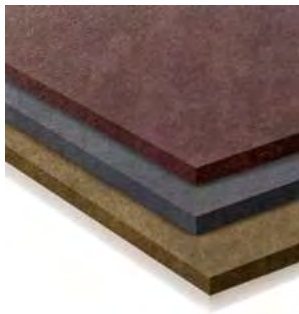


What is PaperStone®

PaperStone® is the first composite material to be made from 100% FSC® certified recycled* paper and cardboard impregnated with a proprietary resin called PetroFree™.

Its beauty is unique, its functionality and reliability represent a true eco-friendly alternative to traditional 'solid surfaces'. Natural pigments used in production, in place of chemical colourants, offer greater resistance to UV light, stable colours and a homogeneous colour throughout the density of the panel.†

PaperStone® complies with the toughest standards for the environment and holds **Forest Stewardship Council®**** certification in regard to the **Rainforest Alliance® Smartwood Program***** program. To bring out the beauty of **PaperStone®** in horizontal applications such as kitchen worktops and bathroom surfaces, we recommend applying a protective coating of Osmo® Top Oil to the surface. **PaperStone®** surfaces have a long life-span and is recommended for use in domestic kitchens and bathrooms, as well as being ideal for use in numerous commercial applications. It is also a suitable surface for use in the catering sector with **CE1935** and **NSF®** certifications making ideal for surfaces that come into contact with food.



- **ECO-SUSTAINABLE**

Made with 100% FSC® certified recycled paper and cardboard*, and impregnated with a PetroFree™ proprietary resin.

- **RESISTANT**

Strong as a steel, high resistance to impacts and high temperatures.

- **HYGENIC AND NON POROUS**

100% waterproof, non toxic (does not contain formaldehyde and VOC), easy to clean, certificated fot contact with food.

- **EASY FABRICATION**

Can be fabricated and installed using traditional wood working tools.

* LEATHER is not currently made with reciled paper

** Wood from responsibly managed forests

*** Global certification program fot the conservation of the tropical forests

PaperStone® "Solid Colors" panels range and Honey.

The new generation eco-surface

Sustainability is mainstream

When materials are made with this principle in mind, an earth friendly idea became as a natural choice. As a value it means clean air, water and responsible resource management.

Choosing green products means leaving, working, learning and playing in a healthier world.

PaperStone® is committed to innovative green products that contribute to an eco-friendly, holistic lifestyle that is smart, elegant and responsible.

PaperStone® is not just an attractive new material that is produced in a socially responsive manner. It is also strong and tough. It has steel-like strength in span, stone-like beauty and it can be worked like fine hardwoods.

PaperStone® is innovative and cost competitive.

It is a beautiful, heavy-duty composite known for its environmental sustainability, its contemporary appearance and its remarkable warmth to touch. PaperStone® is durable and recommended for residential kitchens, bath and many commercial uses.

Thanks to the certifications **CE1935*** and **NSF®** PaperStone® is also excellent for use as a restaurant food[†] preparation surface.

* Certification CE1935 performed on SLATE.





PaperStone®

The Earth's Surface™

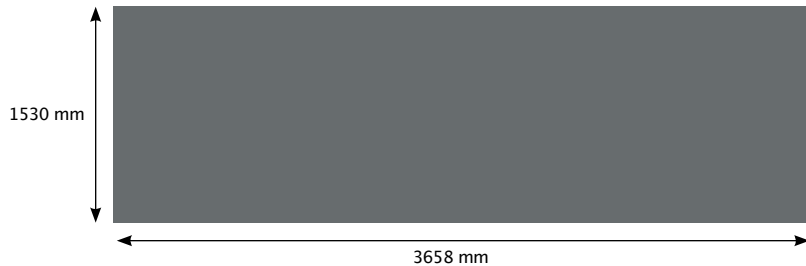
PaperStone® can be installed as full thickness panels or, because of its superior strength, as thinner panels with a built-up edge.

Every single sheet is guaranteed by Paneltech for a period of 10 Years starting from the date of purchase.



Panel Dimensions

PANEL DIMENSIONS

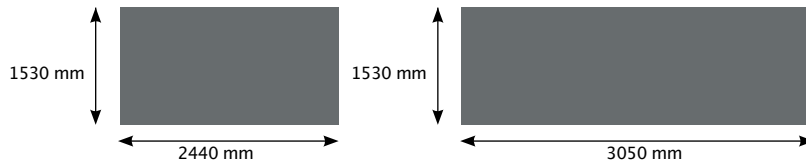


THICKNESSES

from 2 mm
up to 32 mm



CUSTOM-MADE DIMENSIONS



Truly ecological and environmentally friendly.



Built-up edge examples

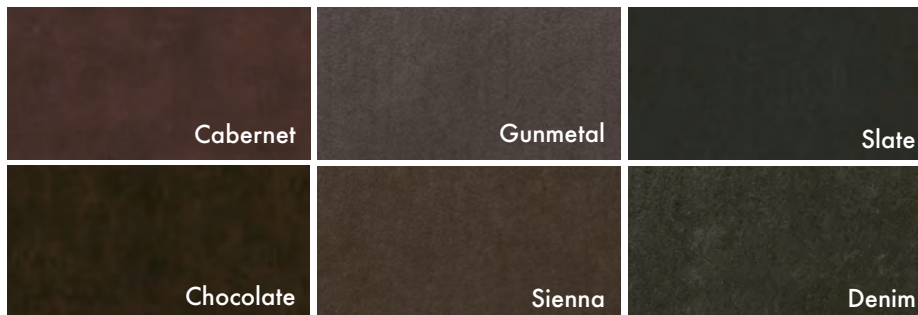


PaperStone® is easily worked with CNC-router to produce signs and other products containing intricately detailed architectural components.

Working with **PaperStone®** is much like working with fine hardwoods. **PaperStone®** is ideal for countertops in any room, restaurant food prep. surface, conference tabletops, signs and plaques, window sills, cutting boards, cutlery handles, furniture, restroom partitions, cabinets and many more creative uses.

A range of colours inspired by the intense earth tones.

Solid Colors



- Not recycled paper.

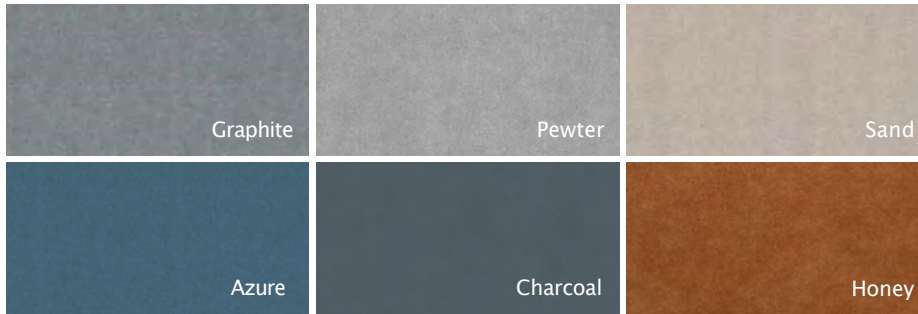
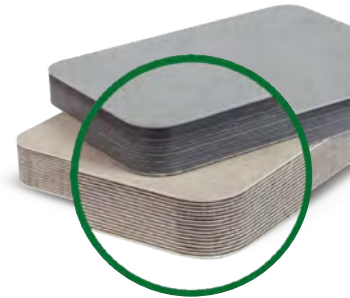


PaperStone® is a sustainable composite material made from 100% recycled paper impregnate with a proprietary resin called “PetroFree™”, in contrast to commonly used resins not derived from petroleum.

As **PaperStone®** is a material made from 100% recycled paper, it is not possible to guarantee an exact match between the colours shown or the panels produced. Over time the colours will gain a patination which is typical of natural products and largely due to the eco-friendly resin used as a binder during the production process. This resin is initially pale amber in colour which then turns closer to a ‘Terra di Siena’ shade. This process of colour aging is more pronounced in lighter shades. This is why the colour of **PaperStone®** products are left to ‘mature’, transforming it into an authentic product with all the features typical of a natural product.

Design Collection is a new range of lighter and bright shades.

Design Collection



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

Charcoal has got a black edge
omogeneous aspect

Honey is a color Throughout panel

As with the entire **PaperStone®** range, it maintains its environ- friendly features and is also **FSC®** certified. The Design Collection is differentiated from the main **PaperStone®** by its distinctive striped effect at the edges (excluding Charcoal and Honey) and it is not a homogeneous colour throughout the thickness of the panel.

PaperStone® residential applications.



Arrital



Polaris Life



Waterproof Resistant

High Temperature
Resistance

Stain Resistant

Kitchen

Slow Food, Organic Foods, Vegan Cooking.

New cultures have recently taken hold, transporting our tastes towards new food trends that were hard to imagine only a few years ago. **PaperStone®** also represents its own cultural revolution, because it is a material created exclusively with ecological raw materials, including **FSC®** certified paper and cardboard, through advanced technologies that allow to impregnate the paper with a resin called **PetroFree™** resin. It is produced by saturating recycled paper and cardboard with a natural resin, given the name **PetroFree™** since it is not derived from petroleum or petroleum waste products. The final result is a material with a natural appearance, warm to the touch, easy to clean and impeccable from a hygiene standpoint. This is why **PaperStone®** is best described with only two words: "Nature & Technology". **PaperStone®** the new way of interpreting the environment and kitchen culture.





Waterproof Resistant



Cigarette Resistance



Stain Resistant

Bathroom

Nature, Wellness, Regeneration.

There are few spaces in our homes that have changed this much over the last several years. The bathroom is now a space dedicated the ultimate intimate experience. The ideal environment that we imagine for the bathroom is pleasant and relaxing, with all the necessary comforts, characterized by materials that make us feel good. **PaperStone®**, with its natural appearance and soft to the touch quality is perfect for this space. Its colors in warm and natural tones offer another reason to choose **PaperStone®**, for a relaxing and pleasant atmosphere. Furthermore, its resistance to superficial stains and scratches makes it the ideal material, practical and hygienic.



PaperStone® residential applications.



Cigarettes Resistance



Stain Resistant



Weight resistant

Furnishing

Over the course of recent years the concept of green building has radically transformed the philosophy and design behind construction.

New residential buildings sell the concept of "energy class" as a primary factor in the selection of a modern and efficient residence. The same principle can also be applied to the materials used for the interior furnishings; also in this case the trend is to produce and use furnishings without formaldehyde, or even better, with totally eco-sustainable materials. Today this new culture more and more diffused and in rapid expansion. **PaperStone®** fully represents this new cultural model, thanks to its particular features. Only ecological and recycled materials are used to produce it, including **FSC®** certified paper and cardboard saturated with a resin known as **PetroFree™**, which in contrast to traditional resins is not derived from petroleum products. The result is a unique, high-performing, natural and responsible material that fully respects the environment. For residential furnishings it offers its best aesthetic and technical features, with resistance to high temperatures and accidental impacts. It is totally waterproof and hygienic (European certification as suitable for contact with foods). **PaperStone®**, a technical and ecological choice at the same time.



Waterproof Resistant



High Temperature
Resistance



Washable in
Dishwasher



Stain Resistant



CE1935
Performed on SLATE

Items

Its high density composition provides unique performance on products made from it: resistance to high impact and high temperatures, as well as being completely waterproof. It can also be worked using common carpentry tools. Its warm and natural surface gives designers and engineers the ability to create objects that are not only beautiful and durable, but also with excellent performance and environmentally friendly. **PaperStone®** is a new generation of materials that is created exclusively from environmentally friendly, recycled products such as paper and **FSC®** certified cardboard impregnated with a resin called **PetroFree™** as, in comparison with traditional products, is a non-petroleum derivative. **PaperStone®** is also certified as a material suitable for use in contact with food stuffs in both America and Europe (**NSF®** and **CE**), an important feature in the event the product is used in products destined for the restaurant and food sectors such as cutting boards and knives. **PaperStone®** is a technical and environmental choice of its time.



PaperStone® commercial applications.



Waterproof Resistant



Stain Resistant



CE1935*
Performed on SLATE

Restaurant

Slow Food, Organic Foods, Vegan Cooking.

New cultures have recently taken hold, transporting our tastes towards new food trends that were hard to imagine only a few years ago. **PaperStone®** also represents its own cultural revolution, because it is a material created exclusively with ecological raw materials, including **FSC®** certified paper and cardboard, through advanced technologies that use natural resins derived from natural products. It is produced by saturating recycled paper and cardboard with a resin called PetroFree™, since it is not derived from petroleum or petroleum waste products. The final result is a material with a natural appearance, warm to the touch, easy to clean and impeccable from a hygiene standpoint. This is why **PaperStone®** is best described with only two words: “Nature & Technology”. **PaperStone®** the new way of interpreting the environment and kitchen culture For commercial furnishings, it offers its best aesthetic and technical features. Resistant to high temperatures, to impacts, and humidity, and hygienic (European certification for contact with foods). Thanks to its composition using recycled raw materials and natural resins, it is the best technical and ecological choice at the same time.



Stain Resistant



Cigarettes Resistance

Retails and Public Spaces

Over the last several years, the creation of spaces destined for public and commercial use is no longer only a planning issue, but above all a communication issue. Each single project is therefore strongly characterized by two main aspects: the first is linked to management of the space, and the second is generally motivated by the communication of the project and consequence of the selection of materials used to create it. Communicating through the use of eco-sustainable materials derived from recycled raw materials is more common than ever today and rapidly expanding. **PaperStone®**, thanks to its composition, perfectly responds to these new demands.

It is a new generation material, and only ecological and recycled materials are used to produce it, including **FSC®** certified paper and cardboard saturated with a resin known as **PetroFree™**, which in contrast to traditional resins is not derived from petroleum products. The result is a unique, high-performing, natural and responsible material that fully respects the environment. **PaperStone®**, a technological and ecological choice at the same time.

PaperStone® commercial applications.



Waterproof Resistant



Weight resistant

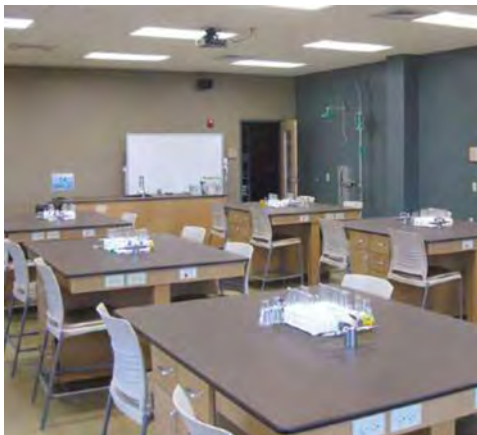


Impact Resistant

Public restroom and partitions

The features and productive flexibility of **PaperStone®** offer a practically unlimited range of uses to designers and planners. Another example is use as dividing partitions in public bathrooms with typical hanging doors. Thanks to its high-density construction, it is not susceptible to wear over long periods in humid environments.

Tests performed by independent laboratories confirmed its extraordinary resistance to impact (up to 10,000 kg) without showing any kind of damage. This makes **PaperStone®** especially suited for use in areas exposed to high risk of vandalism.



Waterproof Resistant



High Temperature
Resistance

Chemical laboratories

PaperStone® is not only a beautiful, natural material, but also a technologically advanced material. In applications where high performance is essential, it reveals its finest technical and professional features. For laboratory surfaces that require functionality, resistance to wear, humidity and high temperatures (up to 180°); **PaperStone®** is the natural choice.

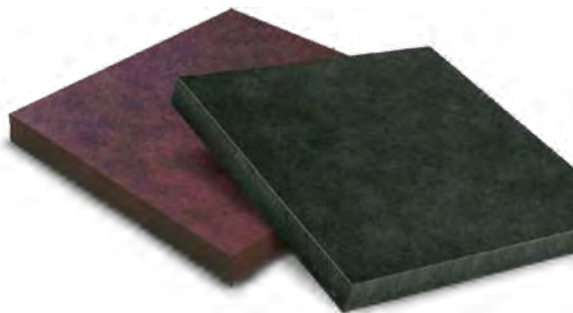
Surface treatment:

PaperStone's sheets originally have a pleasant relief surface due to the recycled paper used for its production and in most cases does not require any modification of the texture.

In case of use for the production of horizontal surfaces such as: kitchen or bathroom countertops, bar counters, tables for restaurants etc. We recommend a light sanding and a final waxing treatment, in order to facilitate cleaning and routine maintenance.

In all other cases, no special treatments are necessary, unless requested by the client.

For more information on surface treatment; refer to the PaperStone® ["Fabrication Manual"](#).



Environmental impact statistics

Depending on the project, using **PaperStone®** may contribute toward four **LEED** points in the categories of Materials and Resources, Indoor Environmental Quality and Innovation and Design.

PaperStone® is made from 100% post-consumer recycled paper and our proprietary **PetroFree™** phenolic resins.

A 1/2" by 5' by 12' (2.54 X 152.4 X 366 CM) slab of **PaperStone®** versus a tradi-tional phenolic composite manufactured from virgin fiber and typical, commercially produced resin saves ...

- 616.5 gallons (2,333.7 liters) of water
- 1,000,000 BTUs of energy
- 65.5 lbs (29.7 Kg) of solid waste
- 127 lbs (57.6 Hg) of greenhouse gases
- 27.5 lbs (12.5 Kg) of petroleum-based phenol

Data obtained by using an EPA energy use/savings calculator



EN 13501-1 2019:

Fire Test results: **CLASS C**



PaperStone® Specifications

Dimensions: 3658x1530 mm

Custom-made dimensions: 2440x1530 mm or 3050x1530 mm

Thicknesses: from 2mm up to 32mm

PROPERTY	RESULTS	METHOD
Specific c gravity density	1,328 gr/cm3	pycnomete UNI ISO 1183 – 1
Release formaldehyde	1 mgHCNO/(m2h)	EN 717 – 2 : 1994
Pullout strength of the screw to 90 ° from the surface	323 N/mm	EN 320 : 11993
Thickness variation after 1 hour in boiling	0,00 %	EN ISO 62 / 99 met.2
Thickness change after 24 hours in boiling	0,00 %	EN ISO 62 : 2001 met.1
Compressive strength	131,1 Mpa	EN ISO 604 : 1996
TENSILE STRENGTH		
Breaking load of	13.819 N	EN ISO 527 : 1996
Tensile Strength	71 Mpa	EN ISO 527 : 1996
Modulus of elasticity	7.467 Mpa	EN ISO 527 : 1996
Elongation at maximum	1,2 %	EN ISO 527 : 1996
BENDING RESISTANCE		
Flexural strength	114,5 Mpa	EN ISO 178 : 2003
Modulus of elasticity of	8.888 Mpa	EN ISO 178 : 2003
Resistance to impact by small diameter sphere	> 80 N no fingerprints	EN 438 – 2 : 2005, par 20
Resistance to impact by large diameter sphere	h 1600 N no fingerprints	EN 438 – 2 : 2005, par 21
Light fastness	> 6	EN 438 – 2 : 2005, par 27
Shore D hardness method	91°	EN ISO 868 : 2003
Brinell hardness method	–	EN EN 1534
Scratch resistance	3	EN EN 9428 : 1989
Resistance to cigarette	4	ENEN 9241 : 1978 UNI FA 275 : 1989
Resistance to temperature	5 no defect	EN 9429 : 1989
Surface resistance to dry heat	A (Class UNI 10944/00)	EN 12722 : 2009
Surface resistance to wet heat	A (Class UNI 10944/00)	EN 12722 : 2009
Surface resistance to cold liquids	E (Class UNI 10944/00)	EN 12720 : 2009
Index Flammability	Class A rating (20)	ASTM E84
Development Index smoke	Class A rating (110)	ASTM 84
Coefficient of Linear Thermal Expansion	– 10° ÷ 70° = 77,7µm/(m °C)	TMA ASTM E 831 : 2006
CONTACT WITH FOOD - TOTAL MIGRATION		
Distilled water	0,8 mg/dm2	UNI EN 1186 : 2003
Ethanol	1,3 mg/dm2	UNI EN 1186 : 2003
Acetic acid	2,1 mg/dm2	UNI EN 1186 : 2003
ACTION OF MICROORGANISMS		
Bacteria	1	EN ISO 846 : 1997
Mushrooms	2	EN ISO 846 : 1997

Testing performed by the  GVS SpA Laboratory

10 years Guarantee (Residential)

All **PaperStone®** panels are covered by the manufacturer's warranty to ensure that it is total free from manufacturing defects.



PaperStone® 10-Year Limited Manufactured Panel Warranty



Who is covered by this warranty

- This warranty applies to PaperStone® permanently and properly installed in the original purchaser's residence or commercial location during the warranty period.
- It is not transferable, except in the case of a builder who is not responsible, transferring ownership from builder to original resident occupants.

What is the period of coverage?

- The warranty remains in force for 10 years from the date of purchase.

What does this warranty cover?

- PaperStone® panels 1/4 inch 1/8 inch thick or greater, permanently installed for residential or commercial countertops, wall cladding or similar uses (see uses not covered below).
- Manufacture defects in your PaperStone® countertops.
- The original color of Paneltech Ltd. to be replaced, limited, at their option, to repair or replace material found to be defective and includes costs of removal and reinstallation.
- Removal limited to repair, replacement of affected countertop piece, or reimbursement of original material value plus freight or material's cost, at discretion.

What this warranty does not cover...

- Any aspect of the installation of PaperStone®.
- This warranty covers manufacturing defects in the PaperStone® material only, it is not an "installation" warranty. This warranty does not include:
 - plumbing, gas, electrical, or, wall, ceiling, painted surface or trim work, incurred due to replacement of your countertop.
 - Paneltech Ltd. is not responsible for the cost of "industrial-grade" panels not covered by this warranty.
 - Countertops installed from other suppliers' permanent placement.
 - Normal deterioration of PaperStone®, such as, but not limited to: variations in color or mottling, gloss level and texture, depth and clarity.
 - Damage due to physical abuse, such as, but not limited to: excess weight, scratching, sitting, walking on, impacts, whether accidental or intentional, excessive heat, fire or flame.
 - Staining due to chemicals, such as, but not limited to: improper cleaning solutions, acids, salts, acids, oils or resins, such as, but not limited to: oven cleaners, solvents, and acids (see PaperStone® Care & Maintenance Guide).
 - Damage or injury caused in part or in whole by acts of God, job site conditions, structural movement or settling, deterioration or engineering design, accidents or conditions.
 - Seam placement or location, tone, color or appearance of seams, color match from
 - pieces to pieces, seam separation or opening due to movement, impacts, excess weight or settling.
- This warranty covers only the repair or replacement of the actual section of the material found to be determined to have a manufacturing defect. No other cost, expenses, materials,

labor, damages or reimbursements associated with the damaged products are covered under this warranty.

- PaperStone® installations in abnormal conditions, such as, but not limited to: use in showers, residential offices, boats, trains or aircraft. These "non-typical" uses may be covered under separate, application-specific, warranties.
- Appearance differences resulting from variations in sanding.

How to make sure this warranty remains in effect...

- Use only PaperStone® approved products and procedures as found in the PaperStone® Care & Maintenance Guide.
- Keep your countertop inspected and maintained. If necessary, to a Paneltech-approved expert every 10 years (the food and beverage table guidelines).
- For more care and use information please refer to the PaperStone® Care & Maintenance Guide available at www.paperstone.com.

How do you get service?

- To qualify under this warranty, the owner must provide the original sales receipt or other acceptable sales documentation, which demonstrates proof of purchase of the PaperStone® panel within the 10 year warranty period.
- The customer must immediately cooperate with the dealer or distributor as they seek to perform obligations under this warranty, including a visual inspection if deemed necessary by Paneltech Ltd. or agent.

Options for problem resolution...

- State from food and beverage will be treated by a Paneltech-approved expert. This may take more than one application. How Paneltech will be applied after the time remains.
- Paneltech will replace any area of the installation that is found to be defective. The replacement panel was installed properly.
- Paneltech will pay for the cost of the required product replacement. The customer will be responsible for any associated costs, including that of the replacement including proof of reimbursement take and materials, any plumbing or electrical disconnection charges, the cost of labor or cabinet repairs, or modifications that become necessary as a result of PaperStone® panel replacement.
- After repair, inspection is deemed to be in place or after other assessment panels confirmed, a standard service call charge may apply.

Excludes Canada & Mexico

Paneltech
INCORPORATED

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301.338.3013 | www.paperstone.com

Manufactured in England, Italy, Mexico, USA, Canada.

PaperStone® is a registered trademark, and Paneltech is a registered trademark of Paneltech, Inc.

paperstone.com | paperstoneproducts.com

PaperStone® General Info

Sectors it is Used In



Why PaperStone®
it's so Green



Let's Green
Your Projects™



Kitchen



Bathroom



Furnishing



Items



Food



Retail &
Public Spaces



Toilette



Laboratory
Furniture

Download

For more information please
visit our web site at:

www.paperstone.eu



The Earth's Surface™

Manufactured in Hoquiam, Washington, USA since 2004

PaperStone® is a beautifully finished, earth-friendly,
sustainable composite surface

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