

PaperStone Rainscreen Cladding

'The Earth's Surface'

Innovative Durable Eco-friendly

Rainscreen Cladding is the newest generation of PaperStone innovation. It is the only FSC- Certified sustainable composite cladding product available to architects and designers today. Rainscreen offers all the benefits you have come to expect from our award-winning PaperStone sustainable solid surface products with enhanced weatherability and UV/Color Stability. Neither sun, rain, hail nor moisture have any effect on the panel's surface.

Environmentally Responsible

PaperStone Rainscreen is constructed using 100% recycled post-consumer waste paper. The paper is bonded together under pressure with a water based, non petroleum phenolic resin system which is VOC free. Selected organic pigments are mixed into our bio - resin system to ensure maximum color uniformity and UV resistance. A waterborne acrylic outer coating provides additional weather proof and lightfast protection ensuring virtually maintenance free performance – in all aspects an extremely eco-friendly and attractive cladding solution. Paperstone Rainscreen is certified by the Forest Stewardship Council or FSC, Smartwood and the Rainforest Alliance.

Innovation

PaperStone Rainscreen has established a new 'green benchmark level' for cladding products trying to emerge into the environmentally responsible market. Rain screen systems enable architects to meet every requirement in any climate and PaperStone's flat architectural cladding panels are ideally designed for exterior applications. The panels deflect most of the rain and the ventilated cavity carries away any moisture allowing air to circulate, drying out the air cavity between the building structure and cladding panels protecting the entire building from the elements for decades. Attractive, durable and fully weather proof, they offer excellent performance and a high degree of design freedom.

Durability

The modulus of elasticity and high tensile and flexural strength of PaperStone Rainscreen assures superior impact resistance and exceptional pull-out strength around mounting fasteners. Paperstone Rainscreen's composite panels are not affected by water and are not susceptible to weathering, mold or rot. Rainscreen panels can also be easily cut and drilled on the job site, using carbide tip wood working tools (after cutting all panels edges must be resealed).

Fire Protection

PaperStone Rainscreen offers maximum safety and protection against fire. It is the product of choice in cladding applications requiring high fire resistance. PaperStone Rainscreen will not melt, liquefy or explode and retains its stability for a long time in a fire. It has a UL Class A rating for both flame spread and smoked developed index in accordance with ASTM E84 testing.



Availability

PaperStone Rainscreen Cladding is manufactured in the USA just outside of Seattle, Washington and is offered in two packages:

- Standard size panel format – which need to be cut to size, drilled and edge sealed before installing ... or
- Ready to Install System – which includes pre-cut and drilled panels, galvanized rain screen mounting system and installation drawings.
- Standard panel thickness is 3/8” and comes in 4’ X 8’ & 10’ lengths. Other non-standard sizes are available on special order.

Maintenance & Care

PaperStone Rainscreen Cladding panels may be cleaned with a soft cloth and mild cleaning agents such as: White Mountain ‘Jobsite’ Cleaner or Dawn Detergent and hot water. Avoid us of harsh abrasives or ammonia cleaners.

Damage Repair – Should the surface of PaperStone Rainscreen Cladding become scratched or marred, it can be repaired by lightly cleaning the area with a scotchbrite pad and applying a light coat of PaperStone Waterborne Clearcoat.

PaperStone Technical Properties

Property	Value	Unit
Physical Properties		
Water absorption	0.82%	by weight
Density	1.4-1.45%	g/cm ³
Wt / square foot (3/8")	2.7	lb/sf
(1/2")	3.6	lb/sf
Mechanical Properties		
Internal Bond	1,225	psi
MOR (Flexibility)		
Face	24,320	psi
Edge	21,834	psi
Modulus of Elasticity	1,723,250	psi
Compressive Strength	45,324	psi
Coefficient of Thermal Expansion	3.64	
Izod Impact Strength		
Face	3.29	
Edge	0.73	
Hardness Test	47 ave	Barcol Meter
Fire Test Results –ASTM E84		
Flame spread	(20) Class A rating	
Smoke developed	(110) Class A rating	