

PanelPiedra[®] PanelStone[®]

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TECHNICAL DATA SHEET

PanelPiedra[®]- PanelStone[®]
Panel -"PR"-

(Polyurethane + Stone)

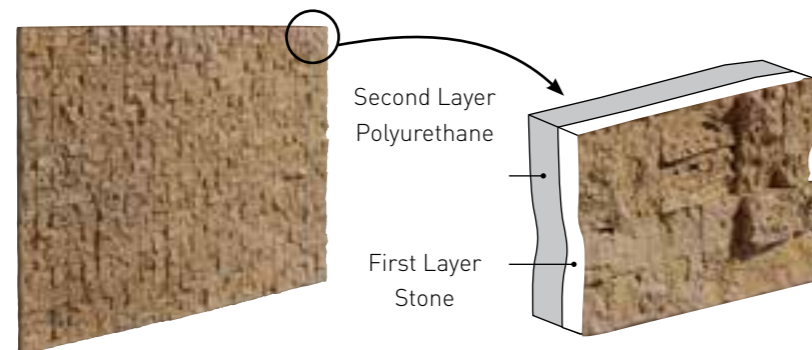
Description of the Product

It's a dovetail panel system like a puzzle suitable for Inside and outside wall's coverings:

Composition of the Panel:

First Layer: It's a layer of 3-5 millimeters of concrete polymer in a base of stone called "STONE" composed of a mix of 15% of resin with their appropriate catalyst and the 85 % of arids (calcium carbonate, dolomites, silicates, alumines, melanins and fire-resistant additives)

Second Layer: The second Layer is composed of an injection of polyurethane foam with opened cell that provides to the panel a very good thermic and acoustic insulation. Called "Polyurethane"



Applications of the Product

Panels are in great demand by Architects, Decorators, Designers, Promoters, DYS centers, Decoration Shops...

INSIDE INSTALLATION: All kind of building: Houses, shops, restaurants, hotels, chain stores, Showrooms, Halls, Offices etc.,

OUTSIDE INSTALLATION: All kind of building: Facades, terraces

Advantages

Great Quality: One of StonePanel®- PanelPiera® key properties is its high quality (re :textures, colors, strength). This combined with the creativity of our designers and innovations of our engineers allow us to differentiate us in the market-place and be one of the most competitive panel manufacturers worldwide.

Installation: It is quick and easy. Due to the panels size (1 Sqm) and lightweight panels are easy to handle. It requires just one person to install them. It doesn't require professional labor for installation (*See installation instructions*)

Perfect Finish: Its composition (stone + polyurethane) together with the paint used (iron oxides), makes a perfect texture and high quality finish over time.

Good thermal and acoustic insulation: Panelpiedra® panels are made with polyurethane injection with open cell (This material, "polyurethane" is one of the best acoustic and thermal insulators that exists in the market.

Maintenance: No maintenance required. Panels' composition does not allow the generation of moisture and/or bacteria.

Transportation: Lightweight panel (6-7 Kg) and panels' size makes the product easy to transport. It does not require a special vehicle.

Density			
Applied Density Panel	UNE EN 1602	Kg. m3	700-800
Applied Density Polyurethane	UNE EN 1602	Kg. m3	300-350
Reaction to Fire and Heat Resistance			
Dimensional Stability	-30°	%Vol	←0,5
24 Hours	+90°	%Vol.	←1
Reaction to Fire	UNE EN 2327 EURO CLASE AS TM 84	CLASS CLASS CLASS	M-1 B S1 D0 B
Thermal Conductivity Coeficient	UNE EN 92202	W/m°C	0,022
10°C Initial			
Residue on ignition	DIN 53395	%	0,9
Mechanical Strength			
Traction Strength	ISO 527	MPa	97
Flexion Strength	ISO 178	MPa	250
Flexion module	ISO 178	MPa	9750
Deformation Temperature Under Load	ISO 75 A	°C	90
Shore hardness	DIN53505	%	60
Rebound	DIN53573	%	50
Compressive Strength	UNE EN 826	Kpa	200-250
10% Deformation			
Dielectric Properties			
Dielectric Constant 20°C	1000 Cycles	----	2,2
Dielectric Strength 23°C	-----	KV/cm	150-200
Power Factor		%	0,02
Electrical Resistivity	1000 Cycles	Ohnmios / cm	1.18 x10 ¹³
Resistance to the Outdoors			
Saline Resistance to the fog	Sodium Clorudo Water	Temperature	2000 hours
	5,0 ± 0,5%	35° / -2	OK
Camara Resistance Accelerated	Ultraviolet Light	2000 Hours	No caleado
Lamps U VB 313	Temp. +50° / 3°		No loss of gloss

Your Installation



Screwdriver with different tips for screws
Electric saw with wood cutting blade (a radial arm saw is recommended for professionals)
Cartridge Gun, Tape measure, Ruler, Paintbrush, brush for putty texturing, 3mm and 8 mm bits, Wall plugs & screws, Electric nail gun, Filler Putty (indoor), Exposy putty (outdoor installation), Paint & aged spray



Measure the surface to be covered and calculate how many panels will be needed. Each one is approx. one square meter.



Use a ruler and a marker and draw a line along the surface to be cut.



For jagged panels, start cutting one end along the line you have drawn



Check panels are properly cut.



Place the panel on the wall and use the 3mm bit to drill through the joints across the panel till you get to mark the wall where wall plugs will be fixed later.



It's recommended to drill in areas easy to hide. Repeat the action 4 to 6 times per panel.



Remove the panel and drill with the 8mm bit where the wall has been previously marked with the 3mm bits



Stick all wallplugs



We will apply a few vertical lines of glue on the back of the panel. This is very important for panels installed outdoors



Place the panel on the wall and insert screws in the holes 2-3mm into the panel so we can then hide them with the putty



Assemble all panels one after the other



Keep repeating the action systematically until the wall is all covered, always bearing in mind to insert screws in easy to hide areas.



Once the surface is all covered with panels filled in assembly joints and drilled holes with the putty.



Then texture joints using a wet thin paintbrush



Once all joints are textured wait 2 to 4 hours before the next step



When the putty is dried paint the joints where putty was previously applied using different brushes



The spray is used to balance colours between joints and panels. So once the paint is dry spray over the joints one flash at a 40cm distance



Right after when the paint is still wet rub a wet cloth over the joints to cover the pores. Do it as many times as needed.



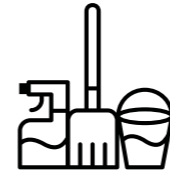
Once all process is finished the result should be perfect

Important Notes

- Once panels are cut we suggest using a grinder to get a fast and fine result, or to use a radial saw to cut them instead
- For a quick fixing (professional) it's also suggested to use a pneumatic nailer instead of screws.
- It is important to let the paint and mastics dry the suitable time. When applying aged paints make sure to do it at the right distance (40 cms) from the panel and always with a quick flash and rubbing right after with a damp cloth

SAFETY DATA SHEET

About the Product



Cleaning and maintenance of the Panels:

The best product for cleaning panels is water. Cleaning with water allows us to remove any dust from the product.

In case you have the need to disinfect any area, use neutral pH soap.

Do not use harsh chemicals such as bleach, acid-based products, ammoniac, lime scale removers, etc.

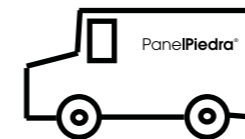
These products react with the panel ingredients creating white stains on them.

We do not recommend the use of any oily and harsh cleaning products.



Packaging

Panels and accessories are supplied in non returnable cardboard boxes and treated wooden pallets (see pricelist for amounts of panels per box and pallet), Last holder becomes responsible for the packaging disposal as a last holder according to the article 18.1 at the regulations of Spanish Law 11/79



Transportation

Goods are not dangerous for transportation by road, rail or sea



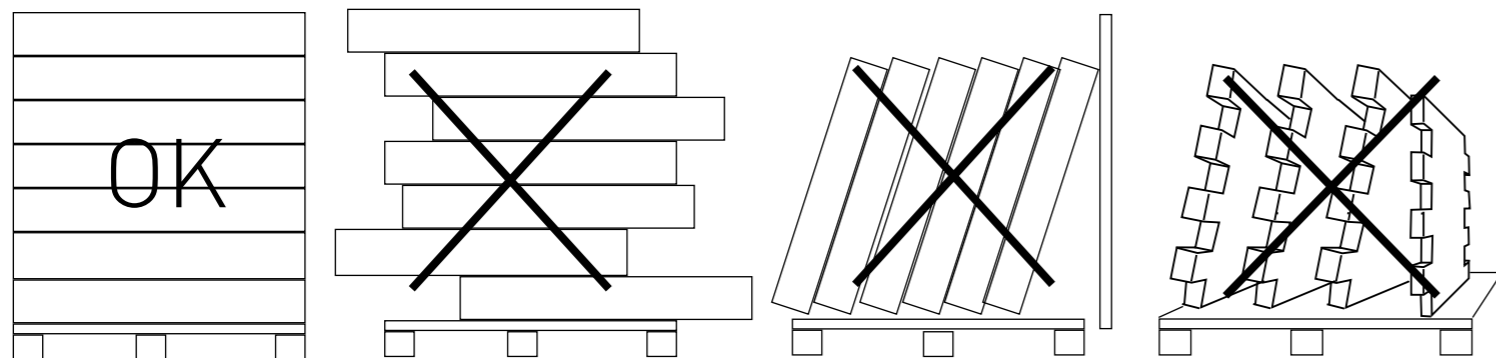
Environmental information:

Product does not constitute a hazard to human health (if not ingested) or to the environment. It's ecological and 75% is made of mineral quarries remains.

Recommendations

Storage Recommendations

Panels must be kept in an indoor warehouse the same way they were shipped from the factory inside their boxes on a flat and horizontal surface. Store at a temperature between 5°C and 45°C



Handling Recommendations

Product may generate dust so if needed during installation, use a suction machine, vacuum, dispose remain materials and rinse out the area after the installation.

Disposal Recommendations

Try to minimize or avoid generation of wastage. Disposals should be done through specialized companies so all regulations requirements established for environmental protection by local authorities are fulfilled. Avoid disposal through drainage.

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