

 **RockPanel**

Natural Beauty Of Stone Made Easy & Affordable

Product Technical Statement

Product Description;

RockPanel is a high-density moulded polyurethane panel primarily intended to be used as a decorative interior feature or exterior over-cladding system. The panel is moulded to give the appearance of natural rock or stone.

RockPanel is manufactured to form interlocking panels of 1205x295mm (.355m²) and incorporate trim and corner finishing components. The closed cell composition of the product is durable and therefore suitable for exterior applications, as it does not readily absorb moisture.

Scope:

- RockPanel is suitable for external use in buildings designed within the parameters of paragraph 1.1, NZS3604:2011
- RockPanel can be used for a number of decorative applications such as over-cladding applied to existing fireplaces, chimneys, walls and outdoor living or landscape applications.
- RockPanel can be fixed directly to substrates such as timber frame, fair face concrete and masonry. Compatibility of the substrate with the recommended adhesive, must be established.
- RockPanel is suitable for all residential construction and can be used in selected commercial applications. At this stage the product has not been tested in accordance with ISO9705:1993 or ISO9239-1:2010 and so compliance with C3.4 cannot be claimed.

- When installed near domestic heat sources e.g. fireplaces, bbqs, consult with the manufacturer's requirements concerning the distance heat sensitive material can be placed from the fireplace or heat source.

Installation

The installation of RockPanel can be carried out by DIY or skilled trades people provided the installation is in accordance with the installation manual.

RockPanel is simple to install using standard carpentry tools. RockPanel has a shiplap jointing system, which allows for a seamless face finish.

Fixing of RockPanel can be carried out with a combination of mechanical fixings e.g. durable screws and a recommended quality adhesive glue.

Where used as an over-cladding the existing exterior wall (to which the panel is applied to) must be weather-tight and in accordance with the New Zealand Building Code.

Refer: Installation Instructions on previous pages or the Pyramid Panels website www.pyramidpanels.co.nz

Quality Assurance

ISO 9001:2008, IAF Accredited

Warranty

20 year limited warranty from the date of installation. The owner is required to complete the warranty registration card.

New Zealand Building Code: Applicable Performance Criteria (NZBC)

INTERIOR & EXTERIOR USE

E3.3.1, E3.3.4, E3.3.5, E3.3.6

B2.3.1(c)

F2.3.1

B1.3.1, B1.3.2, B1.3.3 (a), (f), (h), (j), (m)

Comment

Maximum water absorption is 1.94%

Not less than five years

Weathering resistance of panel paint surface tested in accordance with the standard GB/T 1865-1997

The panel is non-toxic and does not pose any health or environment hazards

Density, surface hardness, and tensile strength of panel in accordance with standard Q/BA 1-2008

IMPORTANT NOTES

Transportation and Storage

Store all products in their boxes on the flat until ready to use. It is recommended that the panels be stored at 18 degrees Celsius (65 degrees Fahrenheit) prior to installation. Pyramid RockPanel panels have minimal expansion and contraction; however extreme heat or cold will affect expansion and contraction and these effects can be minimised by avoiding installation during periods of extreme heat or cold. **Do not store panels in direct sunlight. Do not stack panels face to face and always stack with cardboard or soft tissue in between.**

Cut edges

All cuts to Pyramid RockPanel panels, corners and sills must be sealed with recommended Resene RockPanel paint as exposed Polyurethane will discolour with exposure to sunlight.

Acclimatisation

Pyramid RockPanel products must be stored flat out of their respective packing at the place of installation for a minimum of 48 hours prior to installation to allow the product to acclimatise.

Installation

Best results are obtained by installing RockPanel products when they are dry and cool.

When initially installing, to avoid gapping expansion or contraction issues, do not install in extreme weather conditions including direct sunlight, wet weather or extremes of heat and cold.

RockPanel is not warranted against gapping claims caused by expansion or contraction.

 **RockPanel**

Natural Beauty Of Stone Made Easy & Affordable



- An affordable decorative interior or outdoor living feature & over-cladding system, that costs less than half the price of real stone.

- Cast from real stone, RockPanel has the look of natural stone without the cost of the stonemason.

- A faux stone panel with easy shiplap jointing system for a seamless face finish with a screw and glue fixing system.

- Easily installed by DIY or skilled trades people, saving time, money and mess.

- Ideal for pool, deck and landscaping areas, internal and external feature walls, including shop fitout and commercial applications.



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PRODUCT INFORMATION

Stacked Stone Panel - Black and White



Ledgestone Panel - Beige



Panel Dimensions:

- Overall Dimensions 1220x330mm
- Coverage Dimensions 1205x295mm
- Square Metre Coverage 0.355sqm

Corner



Corner Dimensions:

- Overall Dimensions 295x150x150mm
- Square Metre Coverage 0.045sqm

Trim



Trim Dimensions:

- Overall Dimensions 1220x95x95mm
- Square Metre Coverage 0.1159sqm

INSTALLING INSTRUCTIONS

The following are the basic installation guidelines for Pyramid RockPanel panels and associated corner and trim moulds. This is to be read and applied alongside applicable building codes for which the product is to be used.

For either interior or exterior installation it is recommended that all Pyramid RockPanel products be screwed to the substrate.

Plan your project *See Diagram next page*

The best way to maximise the natural stone wall effect of the panels is by offsetting each row of panels, the brick laying effect. This staggering of the vertical joints helps to create a more random appearance to the overall face of the wall and is a critical part of the product's design which creates a more natural appearance.

Pyramid Rockpanel is easily cut with a power saw and even a sharp hand saw. It is easily filed, sanded and shaped with tools such as a craft knife, chisel or rasp.

It is recommended that standard dust inhalation and protection precautions be taken when cutting or shaping the product.

Getting started

Level the first row

Take the time to ensure that the first row is level. (Or at least parallel with the ceiling, soffit or bench top to which the last panels will run up against.)

Panel orientation

The panels are designed to be laid with the lip to the top. The panels are manufactured with a shiplap edge to the top and to one side. This aids with fitting and with weather tightness. Ensure that the panels are laid in this manner and each successive row follows this method.

If using corner moulds

Start each row with the corner mould and lay your row away from it toward the next corner. Depending on the direction in which you will lay the panels (either right to left or left to right) it may be necessary to remove the side lip to ensure a good fit to the corner mould.

If mitring the corners

Start each row with the mitred panel and lay away from the mitred corner towards the next corner, door or intersection point. Use the recommended Holdfast Fixall 220 MS adhesive to bind a mitre joint while also fixing screws as close to the mitre as practical.

Finishing and Sealing Screws

Use approved weather proof paintable sealant (Holdfast Fixall 220 MS) to seal all exposed screws, unnatural edges or gaps and paint with approved colour matched Resene RockPanel paint from your local Resene paint shop.

Fixing RockPanel (see diagrams on opposite page)

Corners

Place corner mould to substrate and screw with stainless steel 80mm x 8 gauge counter sunk screws through the "mortar joint" into substrate, making sure that the screw does not interfere with the positioning of the panels. Two screws per side, per corner mould.

Panels

Place panels to substrate and screw fixing at 6 x 200 centres through the centre of the top lip (indicated by dots in the top lip) of each panel to the substrate or framing with 40mm x 8 gauge counter sunk screws. On the bottom panel it will be a requirement to "face fix" through the panels bottom edge to prevent the panel from moving off the substrate on its lower edge using stainless steel 50mm x 8 gauge counter sunk screws. Fix no closer than 50mm from the bottom of the panel to avoid the screw passing into the void created by the ship lap detail on the lower edge of the panel, which may potentially damage the panel. At the top of wall do the same to the top of the panel using stainless steel 50mm x 8 gauge counter sunk screws to prevent the panel from moving off the substrate or framing at its upper edge. Note: Use stainless steel screws for outside fixing.

When glueing panels to an internal wall it is recommended that Holdfast cleaning agents and approved glues are used. Please visit the website for appropriate glue fastening details.

Trim/Edges

The trim can be used as window, door edgings, sills and end caps. They are designed to frame any opening to which the panels are laid. Fix through the thickest part of the trim using 80mm x 8 gauge counter sunk screws as the thin part is designed to fit over the panels. Note that shiplap lip of the panel(s) will need to be removed to allow correct positioning of the trim.

Cleaning & Maintenance

The natural appearance of Pyramid RockPanel is maintained with little effort.

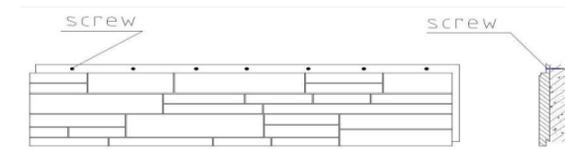
Pyramid RockPanel will get dirty, a heavy rain or a simple wash with a garden hose will do wonders. If additional cleaning is required use a soft brush and any liquid soap (test small area for colour fastness).

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Fixing details

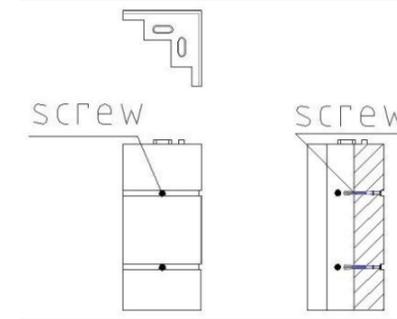
Stacked Stone Panel Ledgestone Panel



It needs at least 6 screws

- For cement wall : the length of expanded screw is ≥ 60 mm
- For Plywood wall: the length of general screw is ≥ 40 mm

Corners:



It needs 4 screws, 2 screws on each side.

- For Cement wall : the length of expanded screw is ≥ 100 mm
- For Wood or Plywood wall: the length of general screw is ≥ 80 mm

Trim:



It needs 3 screws

- For cement wall : the length of expanded screw is ≥ 100 mm;
- For Plywood wall: the length of general screw is ≥ 80 mm

Wall layout

Full Panel	Full Panel	Full Panel	1/4 or 1/2 Panel
1/4 or 1/2 Panel	Full Panel	Full Panel	Full Panel
Full Panel	Full Panel	Full Panel	1/4 or 1/2 Panel
1/4 or 1/2 Panel	Full Panel	Full Panel	Full Panel
Full Panel	Full Panel	Full Panel	1/4 or 1/2 Panel

Tools and materials for a professional finish

Table Use this to plan out your job.

Pencil To mark before cutting and gluing your panel.

Carpenters Square To ensure that you rule straight lines before you cut.

Tape Measure Remember the golden rule ... Measure twice, cut once!

Drill & Hole Cutting Bit Use this to cut holes for your taps and shower fittings.

Caulking Gun To apply the silicone and panel glue.

Wall Board Adhesive Recommend Holdfast Fixall 220 MS.

FAQs

Pyramid RockPanel, is an easy to install, great looking, transformational, natural stone faux panel. RockPanel is affordable and provides the natural beauty and look of real stone cladding without the cost of the Mason.

What is RockPanel?

RockPanel is the brand name of a 1205x295mm decorative construction panel, easy to install and made to look exactly like real stone cladding, rock and schist veneers.

What is RockPanel made of?

High-density Polyurethane. It is the same material Disney and various movie studios have used to produce synthetic rock formations. Polyurethane was developed early in the 20th Century. RockPanel has been developed from the automotive industry where many vehicle parts are made with high-density polyurethane, and polyurethane is now used across many industries.

How does RockPanel get the real rock & stone look?

High quality moulds have been constructed from the best of natural rock & stone available.

Is RockPanel easy to install?

RockPanel is VERY user friendly and quite simple to install with shiplap joints and standard woodworking tools and fixings. One panel provides 1205x295mm or .355 metres of cover and can typically be installed in a matter of minutes.

How durable is RockPanel?

It is a very durable product. Being UV stable, it is suitable for exterior and interior applications, with an impact resistance higher than most real rock & stone and comes with a 20 year limited warranty.

Is RockPanel Waterproof?

Yes, RockPanel is closed cell content meaning, it does not absorb moisture.

Does RockPanel Emit Toxic Fumes?

RockPanel is 100% inert and emits no Toxic fumes, even in a fire the smoke is less toxic than wood smoke.

Can I get RockPanel around my Fireplace or BBQ?

Yes you can but you must consult with the fireplace manufacturers requirements concerning the distance heat sensitive material can be placed from the fireplace. A fire rated RockPanel product is available on an indent order basis.

Where can I get RockPanel?

RockPanel is distributed by Plywood City under their Pyramid Building Panels Division. Plywood City is located at 525 Great South Rd, Penrose, Auckland and has been distributing building panels around NZ and the Pacific for over 45 years.

Spirit Level To ensure that the sheets line up correctly. It is important that all sheets are installed level.

Screws General screw - S/S for outside, expanded screw dynabolts.

Bog Standard builders bog or weatherproof filler.

Skillsaw/Jigsaw/Stanley Knife

Fine Toothed Saw Cut the panels FACE UP. Keep angle of saw less than 30 degrees to the sheet.