

polytec




Installation Guide

XENOLITH

premium solid coloured core

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Product Introduction, Safety & Tools

Machine Capabilities

Cabinetry Requirements for Installation

Waterfall Installation

Drop-in Sink & Cooktop Cutout

Mason's Mitre Installation

Securing the Benchtop & Finishing Off

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XENOLITH PRODUCT INFORMATION PORTAL**

HANDLING & STORAGE

- When moving sheets ensure care is taken to avoid scratching of decorative surface.
- Store **polytec** Xenolith in an enclosed area protected from moisture and heat.
- When storing vertically, place side exactly vertical and support over full height.
- When storing horizontally, support bearers should be no more than 600mm apart.
- Ensure the pooling of water on the surface of **polytec** Xenolith cannot occur and allow sufficient ventilation and drainage in enclosed spaces.
- Maximum overhang must not exceed 300mm.

PROCESSING

TOOLING

Standard tools can be used for machining and processing such as sawing, drilling and routing.

SAWING

- To achieve optimum finishing always use trial pieces to test before actual operation. Always ensure the decorative surface is facing upwards to prevent damage and chipping edges of the surface. A carbide or diamond tipped saw blade should be used.
- Saw blades must always be sharp and if necessary, remove the blade to sharpen or change to a new blade before continuing. All sharp sawn edges should be removed with fine sand paper or router to achieve a smooth finish.

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ROUTING

Routing of edges require hard metal or diamond cutter at slow speed to achieve proper finishing without burn marks.

Routing can be done with either a CNC machine or manual operated tooling.

MANUAL OPERATED ROUTING

BIT DIAMETER	REVOLUTIONS	SPEED	FEEDING SPEED
mm	rpm	m/s	m/min
20	18 000	20	5
25	24 000	30	-

FIXING

DRILLING

is a very hard material. Use high quality screws and ensure to pre-drill pilot holes, or follow the directions as recommended by the screw manufacturer. Be cautious not to over tighten.

- The use of support sheets is recommended.
- When drilling parallel to the surface (edge drilling) at least 3mm must remain from the hole.
- When working with **polytec** Xenolith, the resilience of your tooling and hardware is very important. Discuss with your hardware supplier about suitable screws, hinges and brackets to provide the required strength and corrosion resistance.

SUPPORTS

- The under-bench cabinets must be manufactured with supports no larger than 600mm apart at the top of the cabinets. Xenolith should not be installed on large flat panels as air is required to flow freely around the top and bottom of both surfaces.
- The supporting cabinets must be manufactured in a

ladder style, Xenolith should not be installed on large flat panels as air is required to flow freely around the top and bottom surface.

- Xenolith must be held in place by pre-drilled 10 gauge screws as mechanical fasteners in final application no more than 600mm apart.
- All joins must be mechanically fixed together and screwed to the supporting substrate at each end and throughout the joint.

SCREW LOCATION

Screws should be carefully positioned to prevent splintering (minimum 20mm to edge). Screwing directly into the edge of a panel is not recommended. Metal brackets are recommended when fixing two panels together. Mitring of edges should be avoided as they are vulnerable to damage, a chamfered edge or crescent shaped edge will avoid edge chipping.

GLUING

- Xenolith panels must be glued with a suitable high-strength flexible adhesive. The snaking of flexible adhesive over all cabinet surfaces in contact with the Xenolith top is required.
- Slightly roughen surface and ensure all foreign matter has been removed before applying adhesive.
- Pressure must be applied using a mechanical fastener for approximately 4–8 hours at 20°C as recommended by the adhesive manufacturer to ensure proper adhesion to the joining part. For added strength, adjoining parts can be channelled prior to gluing.
- It is advisable to acclimate the product to the same environment condition before gluing together.

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5mm XENOLITH SPLASHBACKS

PREPARATION

- Ensure the installation surface is clean, dry, and free from dust, grease, or any contaminants.
- Verify that the wall is flat and structurally sound to support the splashback.

SURFACE PREPARATION

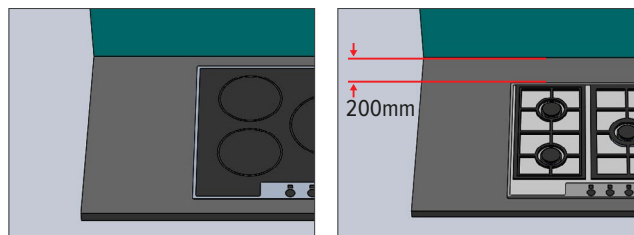
- Using coarse sandpaper (recommended grit: 60-80), roughen the entire rear surface of the Xenolith panel to enhance adhesive bonding.
- Remove all sanding dust using a clean, dry cloth.

ADHESIVE APPLICATION

- Use a high-quality, flexible construction-grade adhesive suitable for non-porous surfaces.
- Apply the adhesive in a continuous snaking pattern across the entire rear surface of the Xenolith panel, ensuring even distribution.

PANEL INSTALLATION

- Carefully position the Xenolith splashback against the wall, aligning it with the marked guidelines.
- Press firmly across the entire panel surface to ensure good adhesion and eliminate air pockets.
- Use temporary supports if necessary, until the adhesive fully cures as per the manufacturer's recommendations.



CLEARANCES & COMPLIANCE

- As Xenolith is classified as a Group 3 product, ensure compliance with Australian Standards for cooktop installations:
 - Gas Cooktops:**
Maintain a minimum clearance of 200mm from the closest burner to the Xenolith splashback.
 - Induction & Electric Cooktops:**
Please refer to the appliance manufacturer for minimum set-out distances when using Group 3 splashbacks.
- Always refer to local building codes and appliance manufacturer recommendations to ensure compliance with safety regulations.

FINISHING & MAINTENANCE

- Allow the adhesive to cure fully before exposing the splashback to heat or moisture.
- Seal any visible edges using a suitable sealant to prevent moisture ingress.
- Clean the Xenolith surface with a soft cloth, warm water, and mild detergent. Avoid abrasive cleaners or harsh chemicals.

CONTACT

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