

Congratulations on your purchase of Zenolite®. Here are a few handy hints to help with the install.

CAUTION

ZENOLITE IS SUITABLE FOR INTERIOR VERTICAL APPLICATIONS ONLY AND WILL NOT BE COVERED UNDER WARRANTY IF INSTALLED OUTSIDE THESE GUIDELINES.

⚠ Area Preparation

Ensure the walls are smooth, clean and dry. For wet areas (Zenolite HC) wall linings must be sealed with silicone or waterproofing compound at all joints.

Tip: *Painting the substrate underneath where the Zenolite panels will join (in a colour similar to the Zenolite being installed) minimises the appearance of the joins.*

Due to the semi-translucent nature of Zenolite LE, the substrate wall lining may require a consistent layer of paint to attain an optimum finish. White and light coloured paint will provide the brightest end result.

Note: *Use acrylic water-based matt paint without easy-clean additives.*

⚠ Marking Out

Mark all holes and cut lines on the Zenolite protective film using a soft pencil or felt tip pen. Do not use metal scribes. Do not mark out in direct sunlight, or in very hot or cold conditions, as thermal expansion and contraction can affect panel size.

⚠ Cutting

Circular saws will deliver a straight and accurate cut; bandsaws or router cutters are suitable for other shapes. Jigsaws can be used for cutting short distances, such as power point openings. All openings and cut outs should use rounded corners. During machining, best results are

achieved when the Zenolite is clamped to a supportive, sacrificial timber board.

⚠ Drilling

Prepare your drill bit by lightly sanding with 80-grit sandpaper on both cutting edges of the tip of the bit. Step drills are ideal for mid-size holes. Drill from the front-facing side of the Zenolite at a slow to medium drill speed.

⚠ Edge Finishing

All sawn edges must be sanded or planed prior to installation of Zenolite. Edges can be sanded using a sanding block or electric planer.

⚠ Panel Installation

Please see the reverse for instructions when installing behind a cooktop.

For Zenolite and Zenolite HC only:

- Identify the rear of the panel by observing the solid colour layer. Remove the film from this surface, and scuff with coarse ScotchBrite® pad or 240-grit sandpaper. Once done, use a clean cloth or tack cloth to ensure rear surface is free of dust. Do not scuff Zenolite LE.

- Apply 12mm x 1.6mm thick double-sided tape (with synthetic rubber adhesive) parallel to the panel's longest edges, at approximately 300mm spacings. Tape along edges should be inset 10mm.

- Apply a 6mm bead of adhesive (neutral

cure silicone) in a wavy pattern between each tape strip.

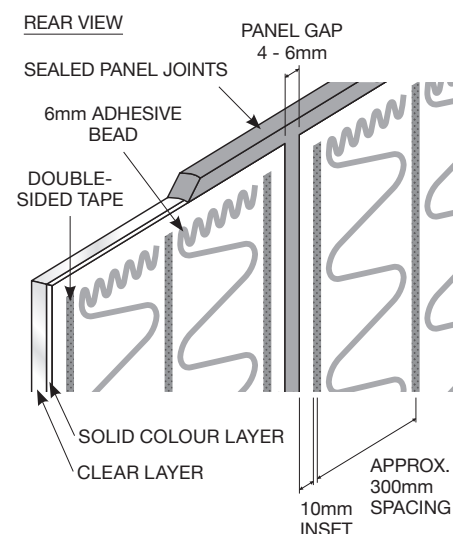
- Allow the following clearances to accommodate thermal expansion:

- **For 2440 x 1220mm panels:**
4mm gaps around all edges, and between panels
- **For 3620 x 1220mm panels:**
6mm gaps around all edges, and between panels

- Remove tape liner and install panels, resting on suitable spacers to ensure bottom clearance. Firmly rub down panels to ensure tape and adhesive contacts the wall.

- Allow adhesive to dry before sealing all joints with neutral cure silicone. Do not use acetic cure silicone.

- Immediately after joint sealing silicone is applied, carefully remove the protective film from the front face.



Splashback installation behind a cooktop

The following guidelines must be followed when installing Zenolite® behind an electric or induction cooktop.

CAUTION

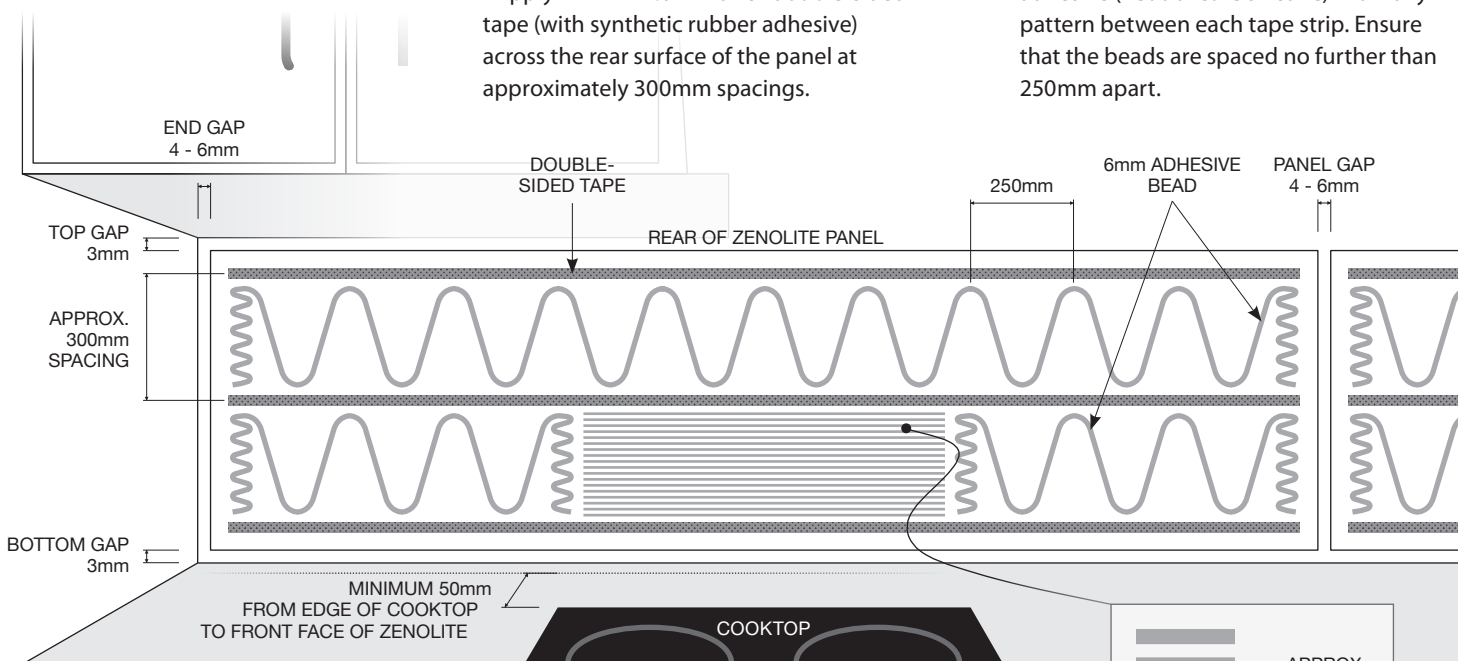
ZENOLITE SHOULD NOT BE INSTALLED DIRECTLY BEHIND A GAS COOKTOP.

- Ensure the wall is smooth, clean and dry before installation.

All adhesives to be applied to rear of Zenolite panel – not the wall substrate

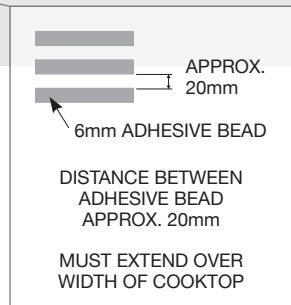
- Apply 12mm x 1.6mm thick double-sided tape (with synthetic rubber adhesive) across the rear surface of the panel at approximately 300mm spacings.

- On all areas of the Zenolite, excluding the section that will be positioned directly behind the cook top, apply a 6mm bead of adhesive (neutral cure silicone) in a wavy pattern between each tape strip. Ensure that the beads are spaced no further than 250mm apart.



- Check your splashback location – the distance between the edge of the cooktop and the front face of the Zenolite (once installed) must be at least 50mm.

- Ensure 24 hours are left for the adhesive to dry before sealing all joints with neutral cure silicone. Do not use acetic cure silicone.
- Immediately after joint sealing silicone is applied, carefully remove the protective film from the front face.

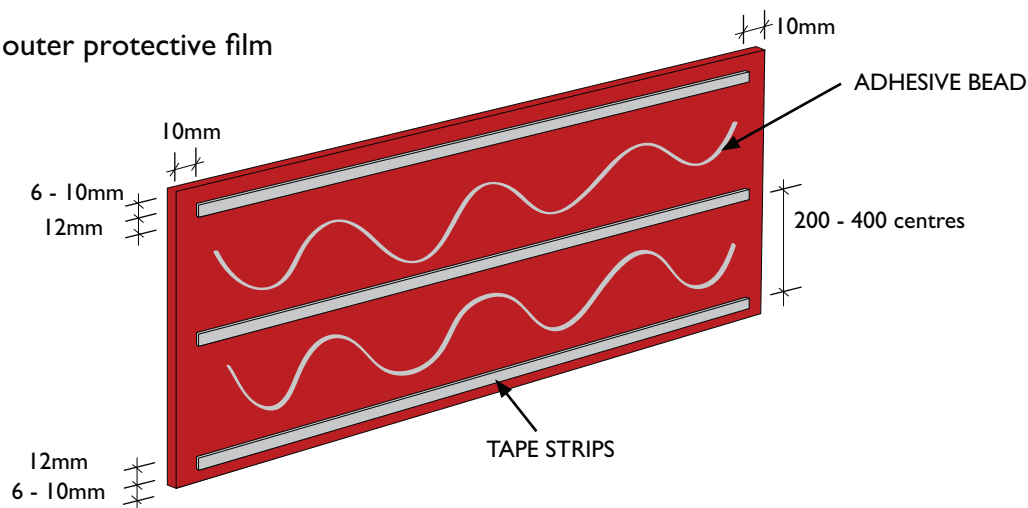


Please note that **Australian Gas Installation Standards AS/NZS 5601** precludes the installation of Zenolite (or any acrylic material) within 200mm of a gas burner.

Zenolite® Installation Guide

Panel Install cont.

- Dry fit each panel with tape applied to ensure trim size is correct
- Apply a 6mm bead of adhesive (neutral cure silicone) in wavy pattern between each tape strip
- Remove tape liner and install panel resting on 3mm spacers at the bottom and 6mm clear each end and 3mm clear between panels. Firmly rub down panel to ensure tape bonds and adhesive contacts the wall
- Allow to dry for 24 hours before sealing all joints with neutral cure silicone if required. Do not use Acetic cure silicone
- Remove outer protective film

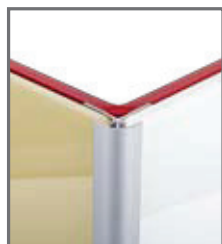


Quality Aluminum Edge Extrusions

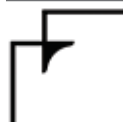
Zenolite 6mm can be installed and finished using a variety of profiles. There are 5 profiles, all are supplied in 2500mm lengths with a robust clear anodized finish. Zenolite edge profiles are designed to float at the joint by being secured to one Zenolite panel only using spots off neutral cure silicone at 200mm-300mm centres.

Allow 2mm -3mm clearance to the non-fixed Zenolite panel.

ZNEX0001
Outer Quad Corner



ZNEX0002
Internal Quad Corner



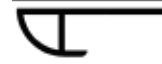
ZNEX0003
Straight Joiner



ZNEX0004
Square Edge Cap



ZNEX0005
Quad Edge Cap



Physical Properties

EGR Zenolite Panel

		Metric		US	
General					
Specific Gravity	ASTM D-792	1.19	-	1.19	-
Water Absorption	ASTM D-570	< 0.5	%	< 0.5	%
Dimensions					
Diagonal Difference	-	< 4	mm	< 0.16	in
Thickness	-	6	mm	0.24	in
		4	mm	0.16	in
Mass					
	6mm	7.14 kg / SQ M		1.4 lbs / SQ Ft	
	4mm	4.76 kg / SQ M		0.94 lbs / SQ Ft	
Mechanical					
Tensile Strength, Max.	ASTM D-638	70	MPa	10,000	psi
Elongation at Break	ASTM D-638	4	%	4	%
Tensile Modulus	ASTM D-638	3000	MPa	435,000	psi
Flexural Strength	ASTM D-790	100	MPa	15,000	psi
Flexural Modulus	ASTM D-790	3000	MPa	435,000	psi
Izod Impact Strength, Milled Notch	ASTM D-256	15	J/m	0.28	ft/lbs.in
Abrasion (Taber, 10 rots. CS10F 500g)	ASTM D-1044	11	% Haze	11	% Haze
Thermal					
HDT, 264psi, 1.82MPa	ASTM D-648	96	°C	203	°F
Specific Heat Capacity		1.47	J/gK	0.35	BTU/lb-°F
CTE, -30 to 30C	ASTM D-696	7	mm/(mm.°C)x10 ⁻⁵	4	in/(in.°F)x10 ⁻⁵
Thermal Conductivity	ASTM C-177	0.18	W/mK	1.25	BTU-in/hr-ft2-°F
Continuous service temperature	6mm	77	°C	170	°F
Max temperature, short term	6mm	95	°C	202	°F
Continuous service temperature	4mm	70	°C	158	°F
Max temperature, short term	4mm	80	°C	176	°F
Degradation Temperature		> 275	°C	> 530	°F
Flame Spread	ASTM E84	130*	-	130*	-

* As tested at Bodycote
(report 08-002-719) on 6mm (0.24")

Distributed By:



Allplastics Engineering Pty Ltd
Unit 20 , 380 Eastern Valley Way
CHATSWOOD NSW 2067
Tel: (02) 8038 2000
Fax: (02) 9417 6169
Web: www.allplastics.com.au

Add a Splash of Living Colour





IMPORTANT INFORMATION - READ BEFORE HANDLING ZENOLITE

Description

ZenoliteTM is an engineered high gloss, rigid thermoplastic material featuring a unique integrated colour layer.

ZenoliteTM sheet is suitable for many vertical surface applications around the home, office or commercial environments.

Caution - ZenoliteTM is not recommended for the following applications

- Where a direct heat source could applied such as behind gas cook tops.
- In shower recesses where frequent exposure to strong chemicals used in some cleaning products.

Best Practice

DO	DO NOT
Store Zenolite TM sheets horizontally	Do not store Zenolite TM sheets outside as the protective film will become difficult to remove
Leave the protective film on both sides during machining	Do not overheat Zenolite TM during machining or polishing
Use only very sharp tools for machining	Do not use window cleaners, thinners, acetone, ammonia or other aggressive chemicals at any-time
Take care with sharp edges during fabrication and handling	Do not use brushes, scourers or scrapers at any-time
Clean Zenolite TM using wet soft microfibre cloths or chamois with non abrasive soap or detergent	Do not dry wipe Zenolite TM at anytime
Maintain Zenolite TM original high gloss original surface using "Vuplex" cleaner	Do not use PVC glazing beads or edge trims with Zenolite TM
Only use recommended adhesives and sealants	Do not install large panels of Zenolite TM without sufficient allowance for thermal expansions and contraction

Fabrication

- ZenoliteTM can be cut easily with circular saws, routers and band saws. The sheet must be well supported during cutting with the entry and exit stages being the most critical.
- Drilling is best achieved using a small pilot hole and then open up to the desired size using a step drill or alternately a steep ground high speed drill.
- Smooth all edges by hand sanding or electric plane prior to installation.
- ZenoliteTM surface can be easily refinished by hand or machine with very fine wet sandpaper, selected liquid polishes and soft microfibre polishing cloths.



Polishing and Re-finishing Methods

Minor scratches and scuffing can be easily removed from Zenolite by hand with selected liquid polishes and soft polishing cloths. More severe damage can be restored completely to the original highgloss finish using very fine grades of wet and dry sandpaper by hand or by machine where necessary.

Precautions

- Ensure ZenoliteTM is clean and free of any dust or dirt
- Use only clean polishing cloths
- Apply liquid polish sparingly to avoid spatter and longer than necessary polishing time
- Always use a light touch by hand and slow speed on machines (below 3000 rpm) for short periods (below one minute) to avoid any heat build up
- Always wear appropriate personal safety equipment when using machines

Materials and Equipment

Polish	- 3M Finesse Marine Liquid Polish or Kitten Liquid Polishing Wax
	- 3m Perfect It liquid extra cut or Kitten liquid extra cut and polish
Polishing Cloth	- 3M Blue Microfibre or Kenco Yellow Microfibre
Buff	- 3M Marine Superbuff or any quality lambs wool polishing buff
Sanding Paper	- 1500 to 3000 grit wet and dry and spray bottle
Polishing Machine	- 2000 to 3000 rpm electric or air driven disc type

Fine Scratches or Scuffing

1. Apply liquid polish to area in a gentle circular motion using polishing cloth
2. Remove liquid polish while still damp using gentle circular motion using new cloth

Moderate Scratches

1. Apply fine water spray to affected area and sand lightly using with 3000 grit wet paper
A few seconds is typically all that is required
2. Wipe off sanding residue
3. Apply extra cut to area in gentle circular motion using polishing cloth
4. Remove extra cut with polishing new cloth
5. Apply liquid polish to area in a gentle circular motion using another new cloth
6. Remove liquid polish while still damp using gentle circular motion using further new cloth

Severe Damage

1. Apply fine water spray to affected area and sand lightly using with 1500 grit wet paper or finer
A few seconds is typically all that is required or until the damage is removed
2. Wipe off sanding residue and finish the sanding process with 3000 grit wet and wipe off sanding residue
3. Apply extra cut to area in gentle circular motion using polishing cloth
4. Remove extra cut with new polishing cloth
5. Apply liquid polish to area in a gentle circular motion using another new polishing cloth
6. Remove liquid polish while still damp using gentle circular motion using further new cloth