Zenolite®

Transform Spaces with Living Colour

zenolite.com

EGR DECOR

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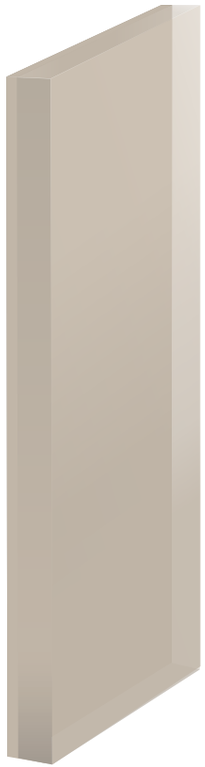
Zenolite®

A sophisticated panel solution that transforms any room

Designed and manufactured in Australia and exported globally, Zenolite is an ideal solution for both residential and commercial applications.



Zenolite is manufactured from two layers of acrylic, co-extruded into a single sheet. A vibrant colour layer is capped with a crystal clear top layer to create a panel of incredible depth, gloss and clarity.

- Lightweight and easy to handle, Zenolite can be installed rapidly over new or existing wall finishes.
- Zenolite can be fabricated on-site with standard woodworking tools, and installed using double-sided tape and neutral cure silicone.
- Zenolite's surface is resistant to mould and bacteria, therefore making it easy to clean and maintain.

100% Australian Owned and Made

Right: Zenolite Regatta.

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Creative Applications

Zenolite panels unique properties offer designers the opportunity to create exciting and highly functional spaces.

Below: Zenolite Pale Eucalypt.

Inspirational Colours

The Zenolite colour palette has been carefully crafted to offer both grounded and inspirational options for the designer.

The colours will work in harmony or contrast with many natural and industrial finishes.

Designers can choose to create a sense of calm or drama by exploring the tones of the Zenolite palette.

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Zenolite

- Zenolite is made up of 2 layers
- Designed for kitchen and general applications
- Zenolite's surface is resistant to mould and bacteria
- Easily repairable

Zenolite HC

- Zenolite HC is made up of 3 layers
- Designed to accommodate more demanding environments including shower walls, high-traffic areas, and public amenities
- High scratch and chemical resistance
- Can’t be repaired

Right: Zenolite Glacier and Malt.

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Retail and Commercial

The Zenolite on trend colour palette, flawless finish and design flexibility will enhance any retail environment. Retailers can take the advantage to define their product offering with a crisp and clean Zenolite canvas.

Zenolite surfaces will satisfy the needs of the most prestigious of commercial spaces with consistent visual outcomes, rapid installation, ease of maintenance and are very cost effective.

Below: Zenolite Titan, Regatta and Arctic.

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Zenolite Information and Colour Range

Panel Sizes	Arctic	Malt	Sago	Glacier	Pale Eucalypt	Khaki	Regatta	Titan
ZENOLITE 2600 x 760 x 4 mm	◉	◉	◉	◉	◉	◉	◉	◉
ZENOLITE HC 2440 x 1220 x 4 mm	◉	◉	◉	◉	◉	◉	◉	◉

Savings

Time and Cost: Choosing Zenolite over tiles or glass saves time and money due to the large panel size, rapid installation, ability to be fabricated on site and significantly less jointing required.

Freight and Packaging: Costs are reduced because of Zenolite's low weight, allowing for more shipping and transport options. Less energy is used for cartage, plus it's easier to handle and move around with less chance of breakage.

Maintenance: Being completely inert with an impervious surface, bacteria and mould do not permeate the sheet. Surface contaminants are simply wiped away with mild soap and water - delivering a significant saving in labour and chemicals use over the life of the installation. Zenolite panels and sheets carry a 10 year indoor UV warranty.

Fire Properties

Zenolite complies with material Class 3 when tested in accordance with BS 479: Part 7: 1997. The test condition was 4mm thick panel adhered to a Class Zero plasterboard substrate. Note that the differences in thickness, substrate, colour, form, fixings or adhesive may affect the rating.

Building specifiers should always consult with qualified building professionals to ensure that the material is suitable and compliant for the chosen application as per local building code requirements.

Colour

The colour layer is designed to be very consistent with high opacity to cover the underlying wall finish. The coloured and clear layers are permanently fused during the extrusion process for maximum performance and longevity.

Workability and Installation

Zenolite can easily be worked on in the workshop or on-site due to its light weight and durability. It can be cut, sawn, drilled and finished using standard woodworking tools. Compared to tiles and glass, installation is exceptionally fast requiring only double sided tape and neutral cure silicone.

For full details please refer to the Zenolite Technical Guide at - **zenolite.com**. *Note - Zenolite thermal movement is 0.7mm / 1000mm / 10°C*

Environment

Zenolite is designed to have as minimal impact on the environment and is wholly manufactured under the EGR Environmental Management System, which has been independently accredited to ISO14001. The manufacturing process does not release any harmful emissions to air, land or water. Zenolite is hygienic and does not promote bacterial growth or transmission making it ideal for food outlets, high traffic areas and public spaces.

Edge Finishing

There are many ways to edge finish Zenolite panels. Sand or polish for a clean glass like appearance or conceal and protect the edges with matching anodized aluminium profiles.

Chemical Resistance

Zenolite is an inert and very stable polymer and is resistant to the following substances:

Kerosene, Mineral Turpentine, lemon juice, Vinegar, Coffee, Soaps and most mild household cleaners.

Zenolite should not be exposed to the following substances:

Acetone, Methylated Spirits, Glass Cleaners, Aggressive solvents such as MEK or Toluene, Abrasive Cleaners

Warranty

Zenolite sheet is covered by a 10 year indoor warranty for use in vertical applications only.

Due to the nature of the printing process, the colours and images depicted throughout this brochure may vary compared to the actual finished products' colour. Images and colours are to be used as a guide only.

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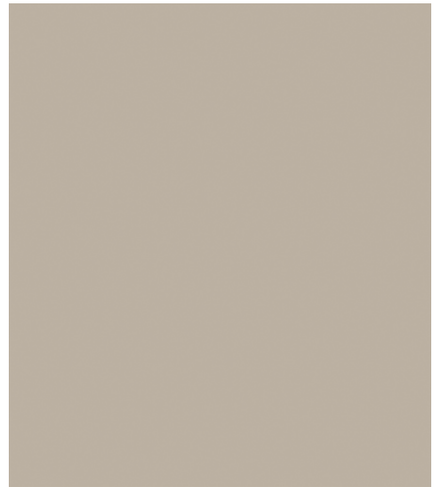
Colour Range

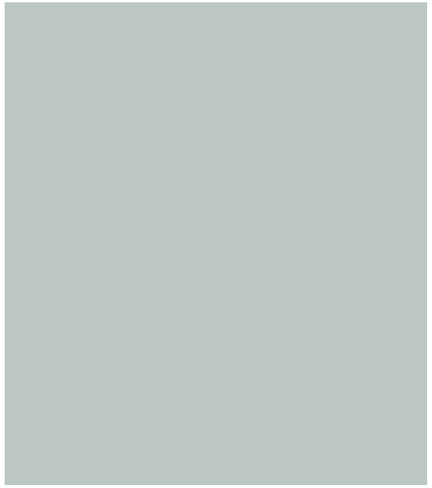
Arctic

Malt

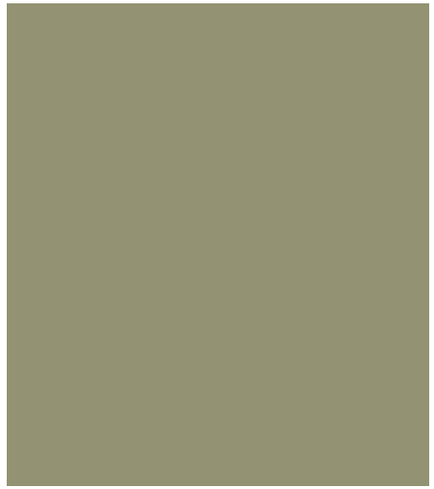


Sago

Glacier



Pale Eucalypt



Khaki

Regatta

Titan (Metallic)

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EGR DECOR

Redefining Decorative Solutions

Drawing on a rich and diverse 48-year heritage in the design, manufacture, and marketing of leading-edge products for Australian and international markets, EGR Decor offers designers, fabricators and homeowners a stunning collection of premium vertical surface materials.

EGR DECOR

Zenolite®

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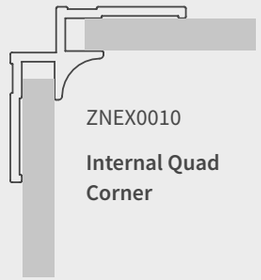
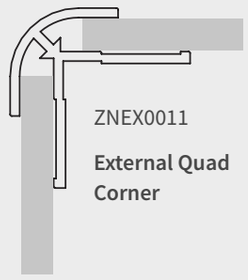
Edge finishing and joining

Zenolite can be finished using a variety of aluminium edge extrusions. There are four profiles each supplied in 2500mm lengths.



ZNEX0010

Internal Quad Corner



ZNEX0011

External Quad Corner

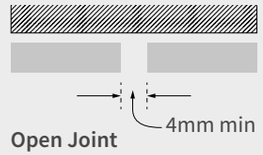
ZNEX0012

Straight Joiner

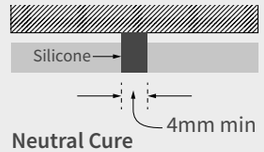
ZNEX0013

Square Edge Cap

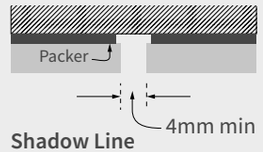
Joint Design Options



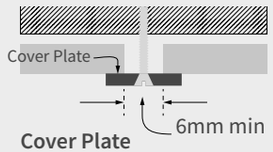
Open Joint



Neutral Cure Silicone Sealed



Shadow Line



Cover Plate

Warnings

Zenolite is designed for interior, vertical use only.

Zenolite panels are thermoplastic and will expand and contract with temperature and therefore will perform best in temperature controlled environments with recommended expansion gaps.

Avoid use in areas exposed to intense direct sunlight such as adjacent to skylights or large unshaded windows.

For specific installation recommendations contact our technical service team at **zenolite.com**

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Installation Instructions (UK)
Includes aftercare & guarantee details

High Gloss Acrylic Panel

Note: The optional, dedicated fitting kit is highly recommended in order to ensure the correct products are used for installation

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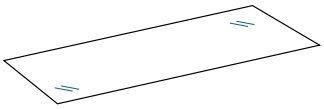
Parts Supplied

Description		Qty
High Gloss Acrylic Panel		1

Parts Required for Installation

	Description	Qty	Included in Installation Kit
	Neutral Cure Low modulus Silicone 310ml	1 tube per wide panel	YES
	15mm x 1.5mm thick double coated polyethylene foam tape with synthetic rubber adhesive	Approx. 16m	YES
	120 grit sanding pad/ emery paper	1	YES
	240 grit sanding pad/ emery paper	1	YES
	3mm tile spacers	3 per panel	YES
	Leveling wedges	3 per panel	YES
	Soft Flexible Silicone Spatula	1	YES
	Nylon Protection Gloves	1 Pair	YES

Introduction

A superior high gloss acrylic panel featuring a high performance hard-coated surface.

Ideal for heavy-duty vertical applications. Especially suited for shower walls, bathroom partitions and kitchen splashbacks in both residential and commercial applications. Completely inert. Will not release any emissions to the environment. Non-stick outer surface does not harbour mould or calcium build-up. Material is ultra hygienic and does not promote bacterial growth or transmission.

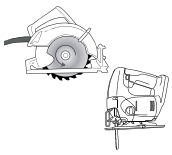
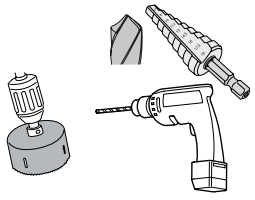
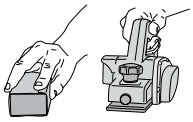
Please note the limitations overleaf, especially when using the acrylic panel as a kitchen splashback.

Tools Required for Installation

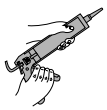
- Measuring

	x 1	Measuring Tape
	x 1	Soft Pencil or soft tip marker pen
	x 1	Carpenters Square
	x 1	Spirit Level

- Cutting

	x 1	Power Saw/ Jigsaw with fine tooth carbide tipped blades
	x 1	Power or battery drill & appropriate drill bits / hole cutters
	x 1	Medium (120) & Fine (240) grit emery paper & sanding block or power planer
	x 1	Personal eye, hearing, hand & footwear protective equipment

- General Installation

	x 1	Silicone caulking gun

Before You Start

PRIOR TO COMMENCING INSTALLATION PLEASE READ CAREFULLY THE COMPLETE INSTALLATION BOOKLET NOTING ALL WARNINGS AND INSTALLATION GUIDELINES.

Very Important general information about your acrylic panels, please read

- We strongly recommend the use of the dedicated installation kit in order to achieve a professional finish
- If the dedicated installation kit is not used then it is important that a neutral cure silicone is used for the installation to avoid cracking and poor adhesion. Do not use a standard acetic curing silicone
- When used as a kitchen splashback, the panel is not suitable for use behind a gas hob; only ceramic or induction hobs. Also additional protection is recommended directly behind hobs to avoid damage to the panels caused by direct contact with hot pans. Please see Fig.1
- Panels are not to be used directly behind or adjacent to a heat source above 70 deg C. When used behind electric, ceramic or induction hobs a clearance of at least 50mm is required between the edge of the hob and the panel
- Panels will expand and contract with temperature at the rate of 0.7 mm / 1000 mm / 10 deg C so it's very important to allow a 4mm expansion gap at the perimeter of each panel
- When using panels for renovation over existing tiles or other wall finishes, it may be necessary to reposition the taps and outlets to align with the finished surface of the panel (see Fig.2 below)

Fig. 1

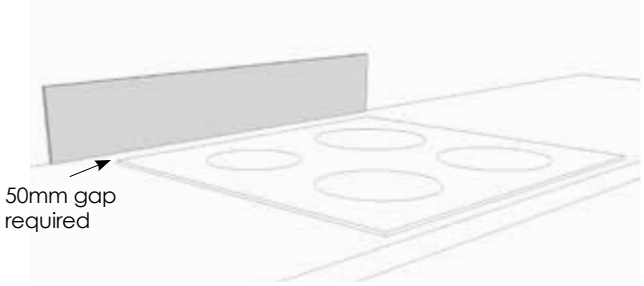
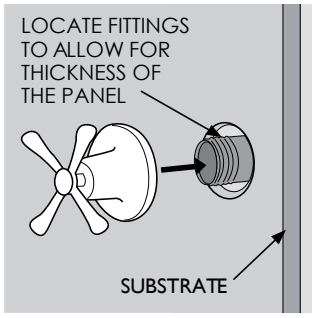


Fig. 2



- Do not store or transport the sheets outdoors or in direct sunlight or in extreme heat
- Sheets must be stored inside, and stacked horizontally to avoid any bowing of the sheet
- We strongly recommend that sheets should only be cut or shaped at room temperature (approx.19°C)
- Sheets may have sharp edges, so always wear gloves and other appropriate clothing and footwear for your protection during the installation process
- Always wear eye protection during the installation of acrylic panels and other safety equipment relative to the installation tools being used
- The surface of the sheets is very hard and scratch resistant. If severe damage does occur and the surface coating is compromised, the panel cannot be refinished and should be replaced
- Before installation check the sheet to ensure no damage has occurred during transport
- Always sand the edges of panels after every cut and drill hole, using 240 grit sanding pad
- We recommend the use of a silicone spatula in order to create a Professional silicone joint

Area Preparation

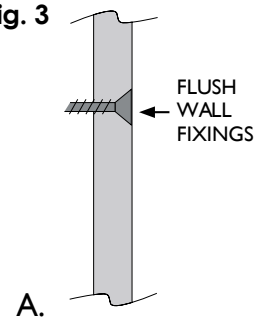
- Ensure the walls are smooth, clean and dry
- All existing substrate wall panel fixings must be set flush or recessed as illustrated in Fig.3 A, B & C
- For wall lining, use waterproof panelling or plasterboard only in accordance with local building regulations for shower or bath areas
- All substrate wall linings must be sealed at the joints with a generous silicone or waterproofing compound as illustrated in Fig. 4
- For best results, mark out where the joints as illustrated in Fig. 5 are going to be placed and paint the wall surface with a colour similar to the panel colour you intend to install, to ensure consistent colour at the joints which will show beneath the clear silicone

Pantone Colours

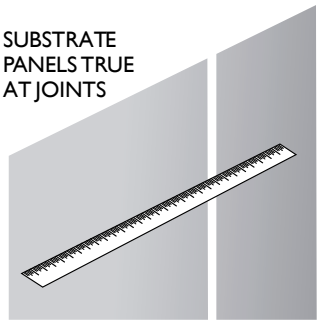
For painting the wall behind panel joins we recommend paint colour mixing to match the Pantone numbers below:

- Arctic - Standard White
- Glacier - 621 C
- Blue Atoll - 631 C
- Rouge - 200 C
- Mocha - 408 C
- Titan - Cool Grey 8 C
- Carbon - Black 3 C
- Safari - 7535C
- Forest - 7767C

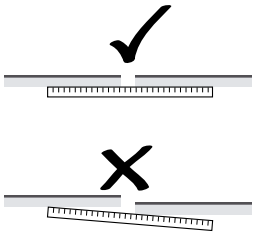
Fig. 3



A.



B.



C. NO STEPS OR DIPS

Fig. 4

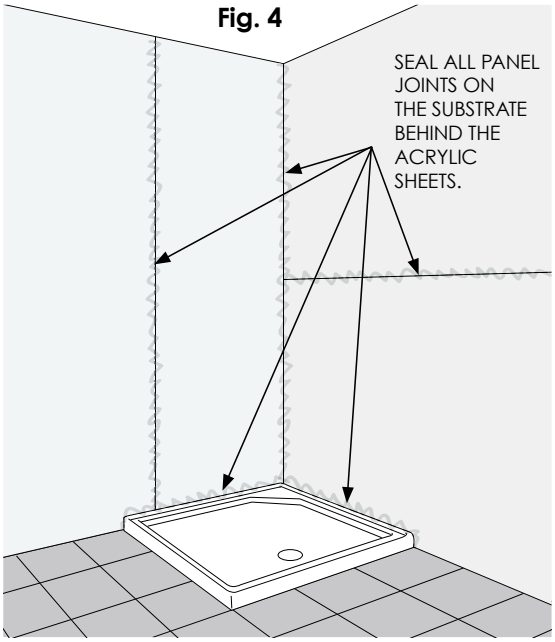


Fig. 5

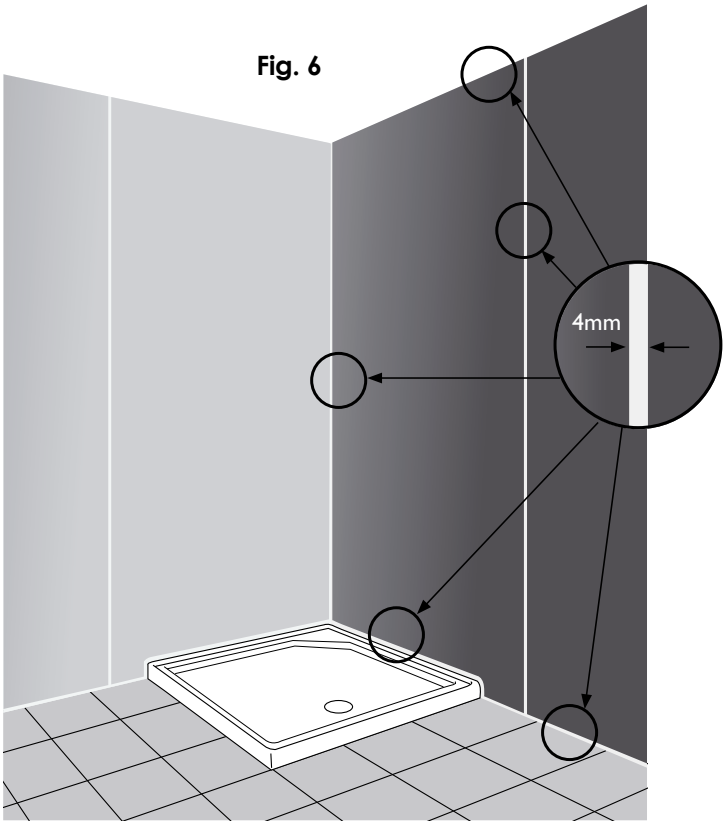
Tiled Walls

- Acrylic panels can be easily installed over existing tiled walls as long as the tiles are securely attached and thoroughly cleaned before installation.
- Ensure the tiles are free of soap or other build up. Conduct a final clean using a degreaser such as "Sugar Soap" and rinse well with clean water and allow to dry.
- Check the walls carefully for high spots and remove any tiles or fittings that may interfere with acrylic panel or may create a wavy result when panel is installed.
- Exposed edges can be sealed with silicone. A finishing trim can also be used to create a neat appearance covering both the tile and acrylic panel edge.

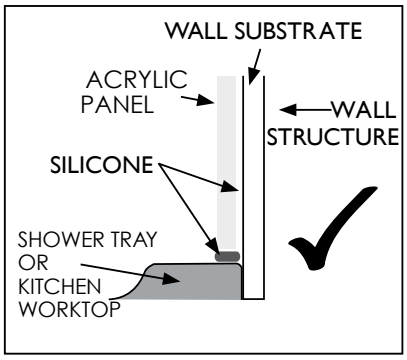
Measuring

- Measure each wall area and decide on suitable panel size
- Allow for 4mm joints at each corner and between panels as illustrated in Fig. 6
- Check the installation area is square. If the area is not square or an odd shape, we recommend fabrication of a timber template and trial fitting. Use the template to cut the acrylic sheet to achieve a good result.

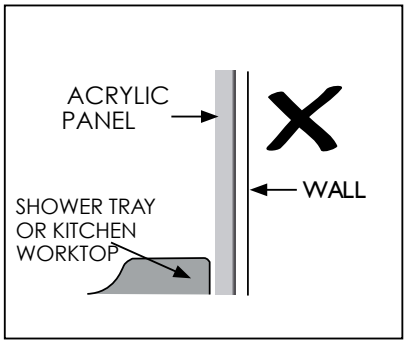
Fig. 6



DO RUN THE ACRYLIC PANEL ON TOP OF SHOWER TRAY



DO NOT RUN THE ACRYLIC PANEL BEHIND SHOWER TRAY



Marking Out

First, it is very important to clearly identify the show face and the rear face - see adjacent diagram

- The acrylic sheet is supplied with a protective film on both sides.
- Do not remove either at this stage
- Mark all holes and cut lines on the film using a felt tip pen, do not use metal scribes
- Do not mark out the sheet in direct sunlight or very cold conditions as thermal expansion/ contraction could affect final panel size prior to installation (i.e. below 0°C or above 25°C)
- Do not remove the protective film on the front of the panel until after the installation
- Take care when storing panels on the edge. Use a protective medium to avoid damage

Cutting

- When cutting or drilling, always wear appropriate personal protection equipment relevant to the tool being used. We recommend the use of safety glasses at all times
- Appropriate clamping and support is essential to avoid vibration and potential chipping of the edges.
- Always protect the panel using a non-abrasive material between the clamp and the sheet surface being careful not to damage the surface.
- Using a circular saw will deliver a straight and accurate cut. Best results will be achieved by cutting through the acrylic and into the sacrificial support timber board as illustrated in Fig. 7

Fig. 7

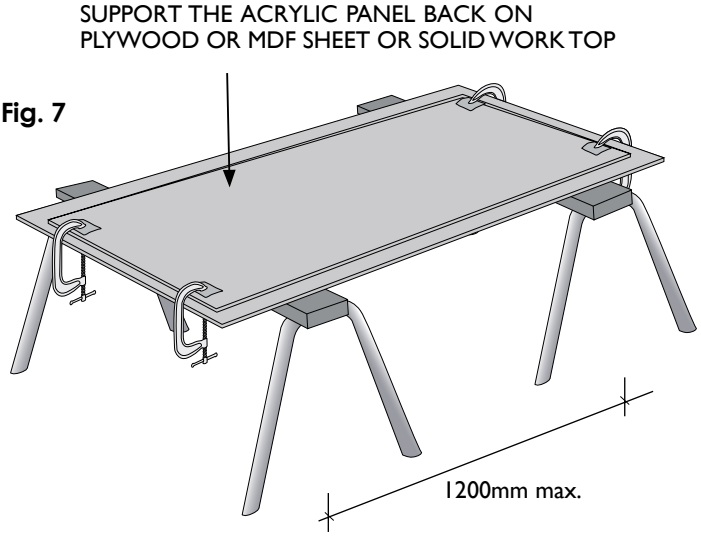


Fig. 8

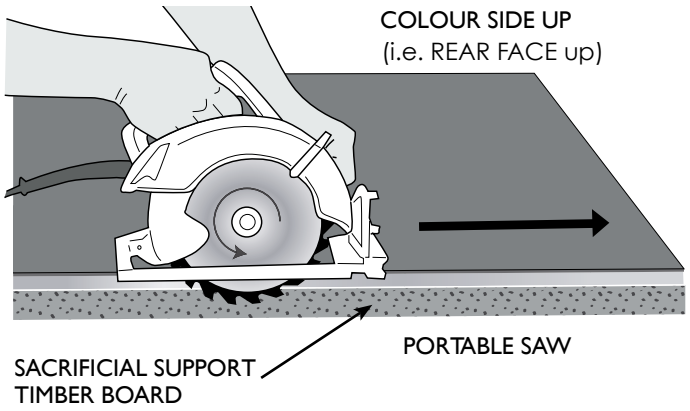
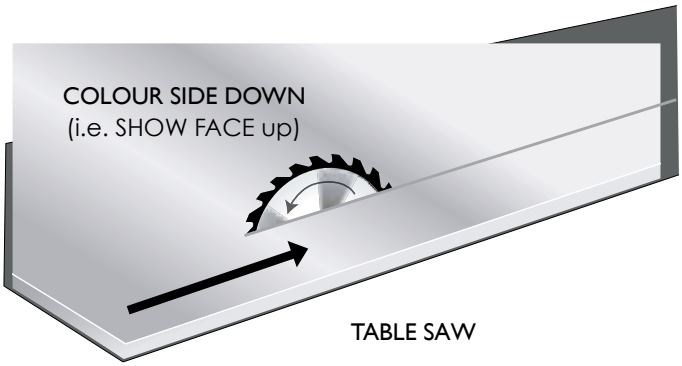


Fig. 9



- To reduce the risk of chipping, when using a portable circular saw, cut with the colour side of the acrylic sheet facing UPWARDS (Fig. 8). If using a fixed table circular saw (Fig. 9), cut with the colour side of the acrylic sheet facing DOWNWARDS
- Jigsaws can be used for cutting short distances such as power point openings. You must only use Jigsaw blades that are suitable for aluminium or plastics. Cut with the colour side of the acrylic sheet facing UPWARDS with a jigsaw
- Do not use Jigsaws to make long cuts. The blade may overheat and melt the sheet at the edge resulting in a poor finish
- Clean swarf away frequently after cutting to avoid damage to the protective film
- A carpenter square is recommended for marking out square cuts in the panels

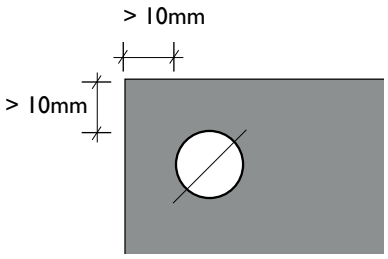
Cutting Recommendations and Blade Types

- We strongly recommend that acrylic panels should only be cut or shaped at room temperature (approx.19^{O}C)
- Fine tooth laminate blade
- Jigsaw - Use a fine cut blade that is suitable for plastic or aluminium cutting
- Circular Saw / Plunge Saw - Use a fine tooth carbide tip blade with 60-80 Teeth
- Multi Tool - with fine cutting blade
- Drill Bits - Use a high speed steel tipped drill bit. Do not allow the drill bit to overheat, work at a moderate speed and pressure

Drilling and Openings

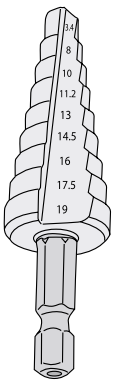
- The edge of any drilled holes should be no closer than 10mm to the edge of the panel sheet (A)
- Do not create long openings close to the edge of the sheet, as the sheet will be difficult to handle during the install
- Always drill a hole at the corner of any cut-out or notch. Avoid cutting square inside corners
- Drill from the SHOW FACE side (clear side) of the acrylic sheet to reduce the risk of chipping (C). Best results will be achieved with a slow to medium drill speed, use only light pressure.
- Fine toothed hole saws can be used for larger holes. Cut from the SHOW FACE side (clear side)
- Step drills are ideal for mid size holes and also making smaller holes into larger ones (B)
- When attaching screws or other fittings, drill a hole in the panel with a minimum of 1mm clearance between the fixing and the acrylic panel (F). Fix directly into the substrate behind the panel - DO NOT SCREW INTO THE ACRYLIC PANEL ITSELF AS THIS WILL CAUSE IT TO CRACK.

A.



HOLES

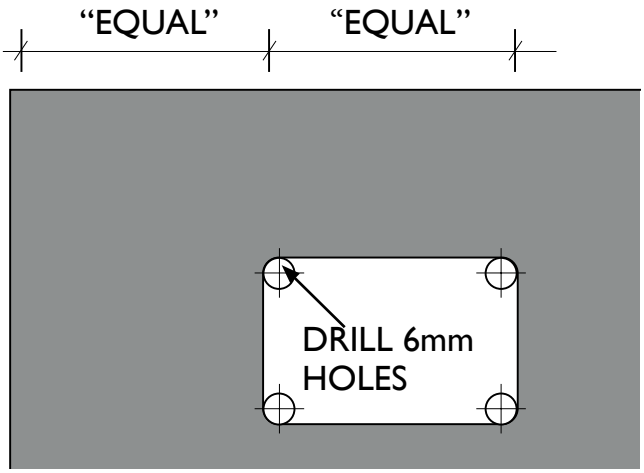
B.



STEP DRILL

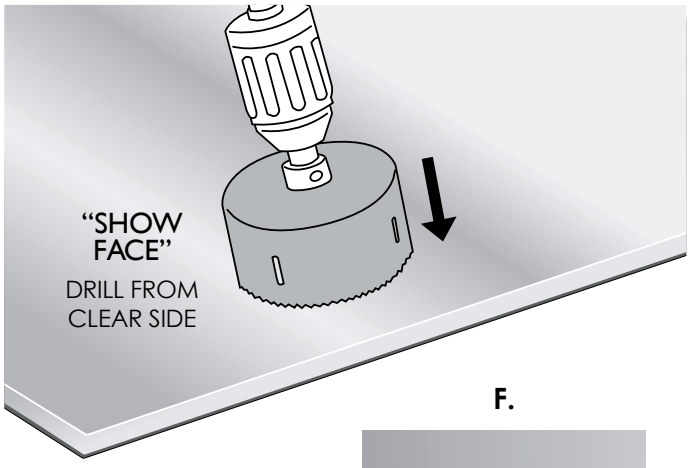
C.

D.

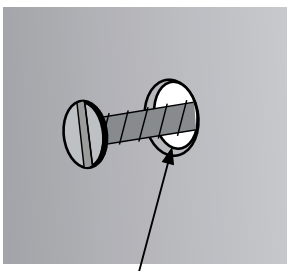


OPENINGS

E.



F.



Leave a gap around the screw

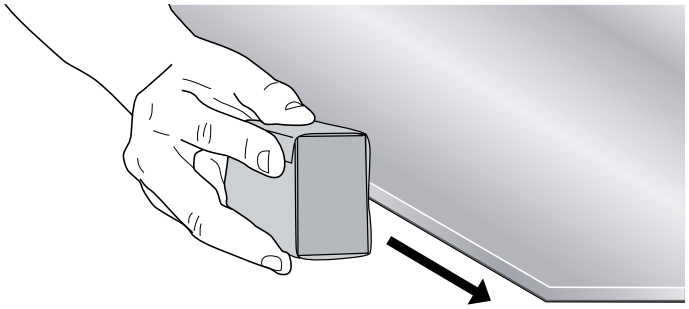
Important

DO NOT SCREW INTO THE ACRYLIC PANEL ITSELF AS THIS WILL CAUSE IT TO CRACK.
As Fig. F

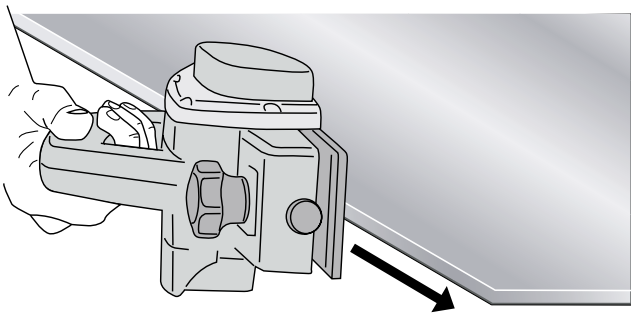
Edge Finishing

- **IMPORTANT - All sawn and drilled edges must be sanded or planed prior to installation of acrylic panels to ensure there are no jagged, chipped or cracked edges**
- **Edges can be sanded using medium (120 grit) and then fine (240 grit) emery paper. Use a sanding block to give a smooth flat edge finish**
- A single pass with an electric planer will provide a smooth edge and neat appearance

NOTE - Do not use flexible PVC edge trimming (such as tile trim) or gaskets at any time as they contain chemical agents that could damage the sheet.



BLOCK SANDING

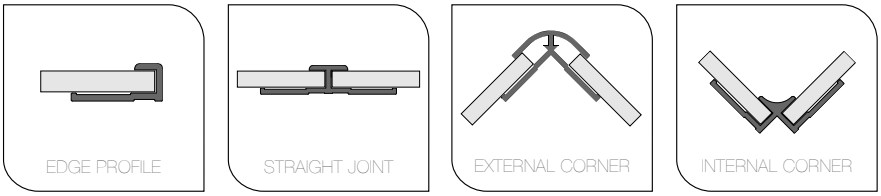


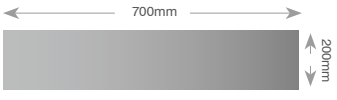
ELECTRIC PLANER

STEP 1: MEDIUM 120 GRIT
STEP 2: FINE 240 GRIT

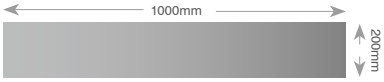
Profiles and Aluminium Splash Protectors

- Aluminium Splash Protectors are available for use behind electric, ceramic or induction hobs. These can either be installed on the surface of the acrylic panel using neutral cure silicone or they can be installed flush with the panel as they are the same thickness (4mm)
- Profiles are also available in Matt Aluminium finish as shown below in either 2500mm or 1250mm length as an alternative option for silicon joints
- If using the optional edge profiles for the acrylic panels as shown above, please refer to the individual profile fitting instructions supplied with the profiles.



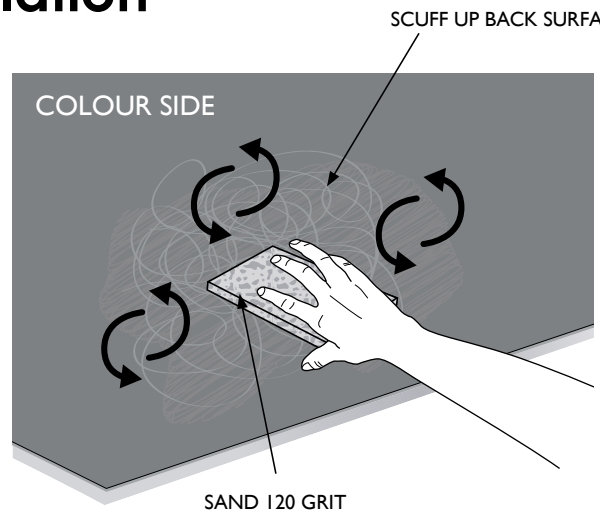


Aluminium Splashback Protectors
700 x 200 x 4mm



Aluminium Splashback Protectors
1000 x 200 x 4mm

Panel Installation



STEP 1 - Remove the protective film from the REAR FACE (i.e. colour side). **DO NOT** remove the protective film on the front (clear side) of the panel at this time

STEP 2 - Scuff the REAR FACE (colour side) with coarse scouring pad or 120 grit emery paper as shown below in order to create a strong adherence to the substrate

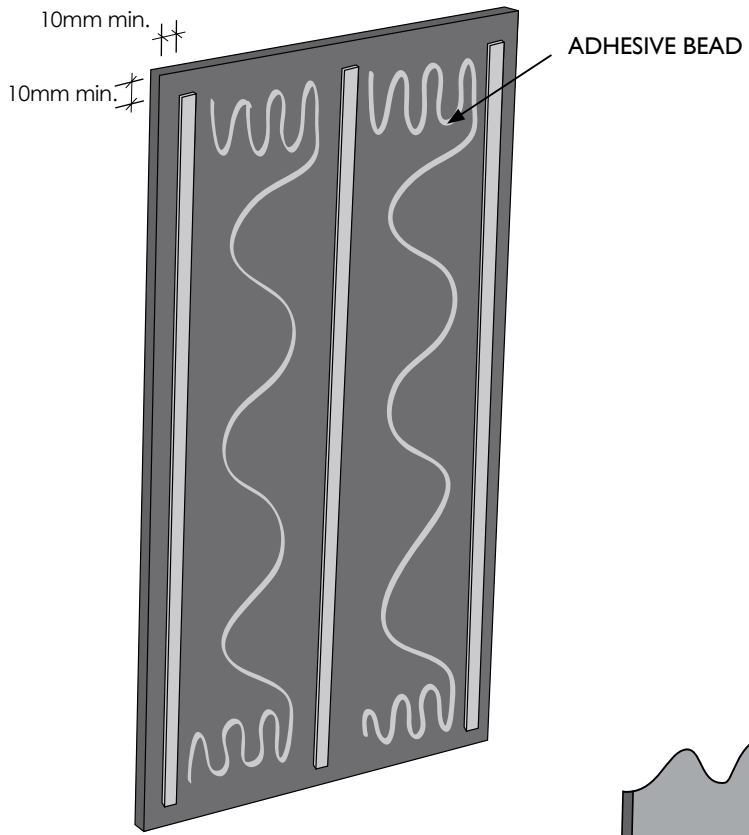
STEP 3 - Remove sanding dust with clean cloth

STEP 4 - After scuffing, ensure the REAR FACE (colour side) is clean and free of dust or any other substance before applying the tape and silicone adhesive

STEP 5 - Apply the 15mm x 1.5mm thick double-coated polyethylene foam tape with synthetic rubber adhesive on the rear surface of each acrylic panel. Firmly secure the tape to the panel. **Note:** The silicone and tape are applied to the COLOUR SIDE i.e. the REAR FACE . The clear side "show face" must face outwards

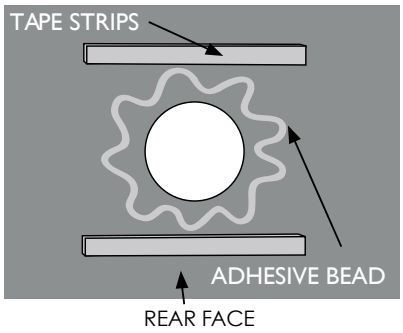
STEP 6 - Trial fit each panel with tape applied to ensure trim size and expansion gaps are correct (4mm)

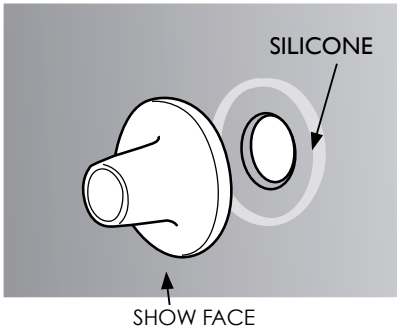
FOR LARGE PANELS

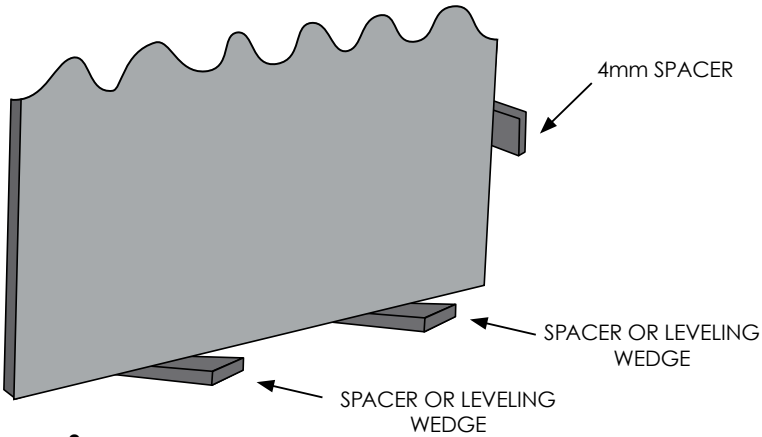


USE 4mm SPACERS & LEVELING WEDGES UNDER SHEETS AND AT JOINTS

FOR HOLES AND OPENINGS







Panel Installation

STEP 7 - Apply a 6mm wide bead of translucent neutral cure silicone in a wavy pattern between each tape strip as shown. Near the edges of the panel, increase the wavy pattern as show in the figure. Run a bead of silicone on the rear of the panel around any holes or cut outs. **NOTE:** Always use a neutral cure silicone

STEP 8 - Remove the self-adhesive tape liner

STEP 9 - Install the panel by resting on removable spacers or wedges at the bottom and use 4mm spacers between the panels

STEP 10 - Firmly rub down panel to ensure tape bonds and adhesive contacts the wall. Allow to cure for 24 hours

STEP 11 - Remove the spacers and seal the joints, including all edges of the panel/s such as the floor, the top of the panel/s and all vertical edges with your neutral cure wet area silicone as Fig. 10. If the outer protective film of the panel is damaged or not adhered well, peel approximately 40mm of the protective film from panel edges and carefully apply 20mm masking tape either side of the joint. Once gap is filled, remove excess silicone using a soft flexible plastic spatula **NOTE:** To achieve a smooth finish on the silicone, mix up a 10% solution of mild detergent and water. Spray the solution over the silicone bead before wiping off with the spatula as Fig. 13

Important notes:

DO NOT use Acetic cure silicone. Always use a neutral cure silicone

DO NOT use Acrylic sealant as it will not bond to the panels

VERY IMPORTANT For corner joints without a trim please see Fig. 11 for panel positioning

Fig. 10

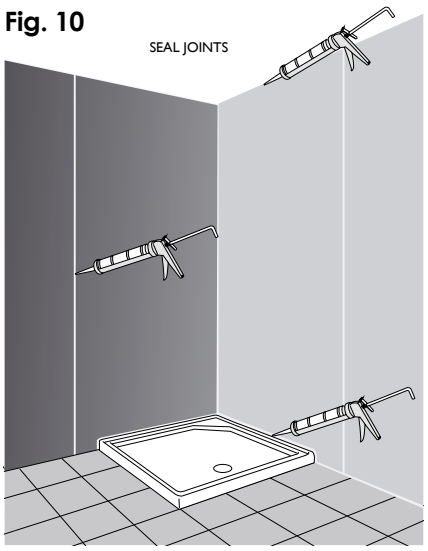


Fig. 11

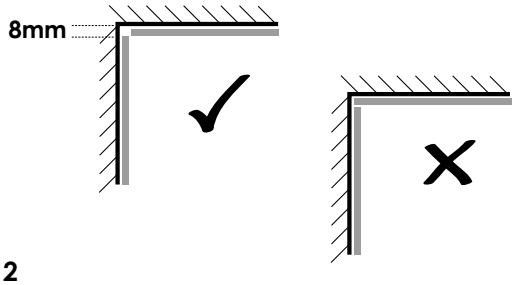


Fig. 12

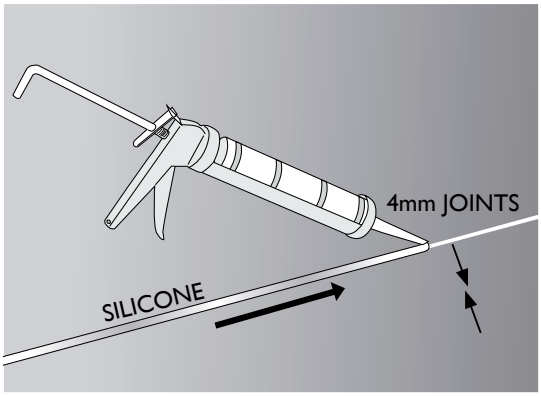
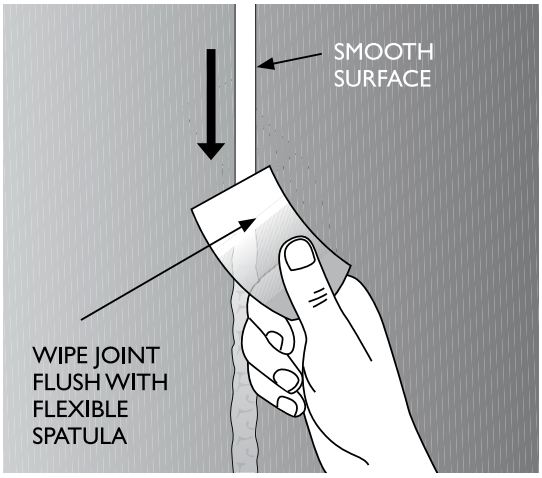


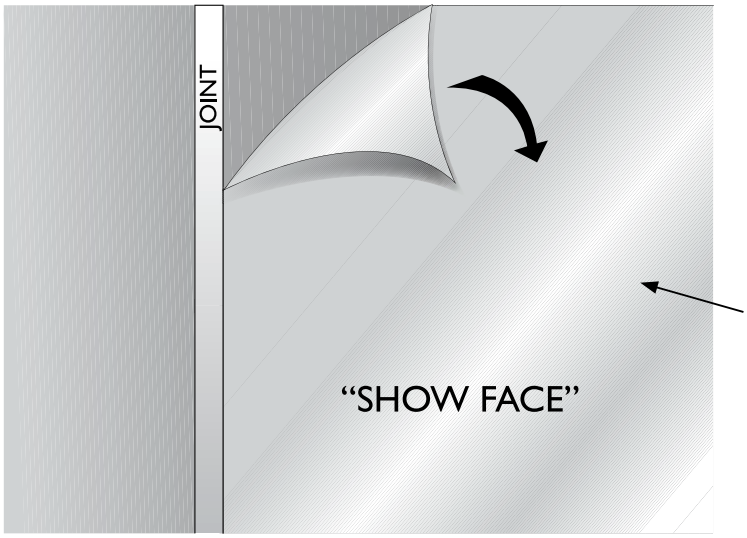
Fig. 13



Panel Installation

STEP 12 - Immediately after the silicone is applied, carefully remove the outer protective film or masking tape in one continuous movement to achieve the best finish as Fig. 14

Fig. 14



Leave for 24 hours and then you can enjoy using your acrylic panels

After Care

We recommend you have sufficient ventilation in the bathroom as per general building regulations in order to reduce condensation.

For cleaning, best results are achieved using soft microfibre cloth or chamois with non-abrasive detergent in warm water. Always rinse off with clean water.

DO NOT use brushes or scouring pads on the acrylic as prolonged use may damage the high polished surface

DO NOT use cleaners with high alkaline content such as concentrated bleach.

Chemicals Tested

The acrylic panel is suitable to use with typical soap, liquid soap, shampoo and conditioners.

The acrylic panel is compatible with cleaners such as;-

- Mr Muscle 5 in 1 Bathroom & Toilet Cleaner
- CIF Bathroom Cleaner Trigger Spray
- Ecover Multi action cleaner
- Naturally Powered multi Surface Lemon Spray
- Method All Surface Cleaner

Guarantee and Technical Details

		METRIC	
GENERAL PROPERTIES		**DATA**	**UNIT**
Water Absorption	ASTM D-570	< 0.5	%
Gloss	AS/NZS 1580.602	> 90	%
Abrasion (Taber, 10 rots. CS10F 500g)	ASTM D-1044	< 10	% Gloss
Pencil Hardness	ASTM D-3363	> 6	H
Thermal Expansion & Contraction		0.7mm/1000mm/10 °C	
HDT, 264psi, 1.82MPa	ASTM D-648	96	°C
CTE, -30 to 30C	ASTM D-696	7	mm/(mm.°C)x10 $^{-5}$
Continuous Service Temperature		77	°C
Fire Behaviour - Australia BCA 2006	AS/NZS 13837:1998	Rating 4	

5 Year Limited Warranty

Acrylic panels are manufactured using the most advanced technology available, however, there can be minor surface blemishes up to 1.0 millimetres in diameter inherent to the process. Any surface blemish should not be visible from a distance of 1 metre in normal light conditions with the panel positioned vertically.

Acrylic panels are warranted for manufacturing defects for a period of 5 years. The warranty is void if incorrect installation or cleaning procedures have been used. The warranty does not include fabrication, installation, trade services or other consequential costs.

For technical assistance please contact
your merchant.

1. The manufacturer expressly disclaims any representations or warranties of any kind, whether express or implied, as to the accuracy, currency, completeness and/or the merchantability or fitness for a particular purpose of any information contained in or provided via this documentation and/or any service or product described or promoted in this document. 2. It is the customer's responsibility to thoroughly examine intended use of the product by a qualified person, to determine whether it is suitable for the application it was purchased for. 3. The receiver of our products is fully responsible to check and to take into account possible third party's patent rights, as well as the existing laws in the country of installation prior to installing our product. 4. No liability may be derived from these images or statements. 5. Printed images are to be used as a guide only.

EGR POLYMER PANEL TECHNICAL DATA SHEET

Zenolite® plus – UK

General Properties

Properties	Test Method	Zenolite
Specific gravity	ASTM D-792	1.19
Water absorption	ASTM D-570	<0.5%
Gloss*	AS/NZS 1580.602	>90%
Tensile strength	ASTM D-638	70MPa
Elongation at Yield	ASTM D-638	4%
Tensile modulus	ASTM D-638	3,000 MPa
Flexural strength	ASTM D-790	100 MPa
Flexural modulus	ASTM D-790	3,000 MPa
Izod impact strength, Milled Notch	ASTM D-256	15J/m
Pencil Hardness*	ASTM D-3363	>6H
Erichsen Hardness*	ISO 4586-2 (DIN EN 438-2)	≥ 1.1N
Abrasion	ASTM D-1044	< 10 % Gloss
HDT 264 Psi, 1.82MPa	ASTM D-648	203°F (96°C)
CTE, -30°C to 30°C	ASTM D-696	0.7mm/1000mm/10 °C
Vicat softening point		219°F (104°C)
Continuous service temperature		170°F (77°C)
Max temperature, short term		202°F (95°C)
Degradation temperature		>530°F (> 275°C)

** Internally tested by EGR*

Product Description

Zenolite high gloss acrylic panels are a versatile product suitable for many interior applications. Zenolite features an integrated colour layer, a thick optically clear layer and a high performance hard coated surface. Zenolite has the appearance of back painted glass panels but is light, easy to fabricate, has high impact strength and high chemical resistance.

Applications

Zenolite acrylic panels have many applications such as: store fixtures, decorative screens, feature panels, furniture cladding, POP displays, kitchens, cabinet faces, signage, bathrooms, wet areas, and marker boards. Zenolite is designed as a single face product and is not suitable for back lighting, however it will work well for edge lighting using a polished edge.

Chemical Resistance

Zenolite is chemically resistant to the following substances:

Kerosene, Bleach, Mineral Turps, 10% Citric Acid, Lemon Juice, Vinegar, Coffee, Liquid Soap, Glass Cleaner.

Zenolite should not be exposed the following substances:

Acetone, Methylated Spirits, Abrasive Cleaners, Aggressive Solvents such as Toluene.

Fire Properties

Zenolite complies with many international building standards. For the UK Zenolite complies with material Class 3 when tested in accordance with BS 476: Part 7: 1997. The test condition was 4mm thick panel adhered to a Class Zero plasterboard substrate. Note that differences in thickness, substrate, colour, form, fixings or adhesive may affect the rating. Building specifiers should always consult with qualified building professionals to ensure that the material is suitable and compliant for the chosen application as per local building code requirements.

169-181017

Fire Test Results

Properties	Test Method (DOT)	Requirements	Result
Flame spread after 1.5mins	BS476: Part 7:1997 (2016)	Class 1 < 165mm Class 2 < 215mm Class 3 < 265mm	130mm
Flame spread after 10 mins	BS476: Part 7:1997 (2016)	Class 1 < 165mm Class 2 < 455mm Class 3 < 710 mm	580mm
Spread of Flame Index	AS3837-1998 (2011) BCA c1.10 – Attachment to a wall lining	Must be < 9 to pass	7
Smoke Development Index	AS3837-1998 (2011) BCA c1.10 – Attachment to a wall lining	Must be < 8 to pass	4
Extent of burn - Light Transmitting Plastics (IBC2606)	ASTM D-635 - (2016)	Class CC2 = <2.5inches/minute	18.5mm/min <1inch/min
Smoke density Rating - Light Transmitting Plastics (IBC2606)	ASTM D-2843 (2016)	Must be lower than 75%	3.7%
Smoke density - Light Transmitting Plastics (IBC2606)	ASTM D-2843 (2016)	Must be lower than 75%	Max smoke density 12%
Ignition Temperature - Light Transmitting Plastic	ASTM D-1929 (2016)		331°C
Spontaneous Ignition Temperature - Light Transmitting Plastic (IBC2606)		Must be greater than 343°C	390°C
Flame spread	UL94 Horizontal Burning test 94HB (2008)	Burn rate < 40mm / min	Average 23mm / min

References to the product's performance under the testing standards above are informational only. Please consult with qualified building professionals to ensure that the material is suitable and compliant for the chosen application as per local building code requirements.