

seratone

TECHNICAL INFORMATION

DESCRIPTION

Seratone vertical surface systems consist of a range of pre-finished panels, jointing options and accessories.

Seratone panels are pre-finished wall and ceiling panels manufactured on a lightweight, high density fibreboard. There are two separate Seratone palettes, specifically designed to complement other contemporary materials such as timber, wood veneer, laminates, glass, granite, steel and paint, as well as each other.

Seratone Classics utilises a 120 micron multi-layered polyurethane system. The Seratone Classics palette is a range of shades of whites, in a choice of gloss or satin finish.

Seratone Metallics are coated with 160 microns of high grade interlocked automotive finish with greater film builds than used in the automotive industry.

The Seratone Classics and Metallics have a smooth glass like finish, providing a tough, durable, non-porous surface that easily resists marks, stains, steam or moisture. These panels can be used in dry, wet or hygiene area applications.

There is a range of colour matched aluminium jointing options, to complement all the panel colours. Silicone sealants and PVC jointers are available for some of the colours.

USES

Generally as:

- Pre-finished decorative wall or ceiling panels
- Retail fitouts
- Sliding cupboard and wardrobe doors
- Flush door facings
- Partitioning
- Cabinetry
- Furniture
- Feature panels
- Display areas
- Corporate identification
- Signage
- For refurbishment work over existing linings
- Bathrooms, laundries and shower wall and ceiling linings
- Wall and ceiling linings in commercial, industrial and agricultural hygiene areas, and heavy wash down areas
- Wall and ceiling linings where health regulations require the use of water and chemical resistant lining materials for cleaning and maintenance of surfaces
- Service and food processing areas in hotels, motels and fast food outlets
- Kitchen splashbacks

LIMITATIONS IN USE

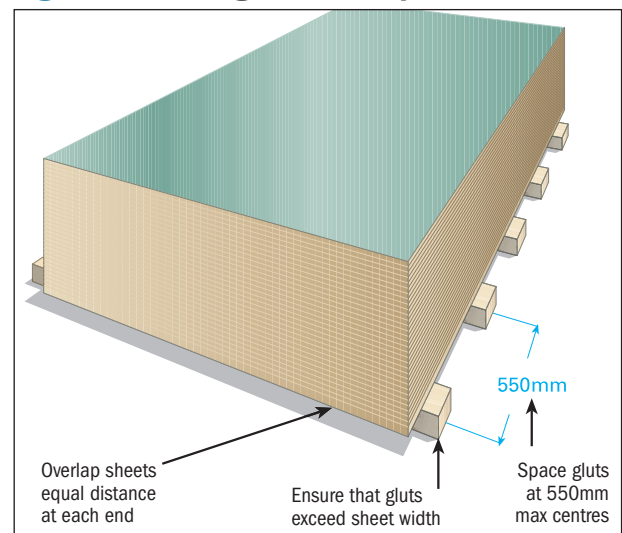
- Seratone panels must not be subjected to submersion or continuous contact with water, do not use in saunas or steam rooms
- Some slight fading may be experienced over the course of time when exposed to direct sunlight
- Seratone is only suitable for use between -20°C and up to a maximum of 50°C for medium or long term exposure. For short term exposure maximum temperature should not exceed ambient temperature plus 65°C
- Seratone is not intended for use as a wall bracing panel
- Use of Seratone as whiteboards may leave ghosting from some inks, and is therefore not recommended.
- Seratone professional jointers cannot be used in wet areas
- Seratone panels are not intended for use in exposed exterior locations

HANDLING AND STORAGE

Seratone panels must be stored in dry conditions and handled in accordance with this document.

- Keep panels flat by stacking on evenly spaced bearers (gluts) which extend across the full panel width (refer to Figure 1)
- When stacking high, line gluts vertically one above the other
- Care of the panel face is essential to protect the surface
- To avoid damage to the surface, lift rather than drag the sheets off the stack
- Leave edge tape on panels intact, until ready for use
- Take care not to damage the bottom edge of the panel if installing in a wet area situation

Figure 1. Storing Seratone panels



CLEANING SERATONE

Recommended cleaning products:

Jif Powerspray®, Sunlight liquid®, Ajax spray 'n' wipe® – multi purpose lemon citrus, multi purpose ocean fresh, kitchen antibacterial, bathroom antibacterial, Handy Andy®, bleach.

- Adhere to cleaner manufacturer's instructions
- A soft cloth is recommended
- Do not use scouring pads or abrasive cloths or cleaners (e.g. steel wool) as these may damage the surface
- The removal of dust from the surface can be easily achieved by the use of an electrostatic dusting cloth (e.g. Johnson's Pledge Grab-it)

REPAIRING SERATONE

Repair and/or rejuvenation of the Seratone surface is often possible. Please visit our web site (www.hvgbuilding.com.au) to view what options may be available to suit your situation.

Touch-up paint is available by contacting Halifax Vogel Group.

DURABILITY

When stored, handled, installed and maintained in accordance with this document, Seratone will meet the durability requirements of the New Zealand Building Code (NZBC) B2/AS1 and has a serviceable life of at least 15 years.

Halifax Vogel Group will not be liable to any persons if the conditions as to storage, handling, installation and maintenance of Seratone as outlined within this document are not complied with. It is the obligation of the installer of the Seratone to convey this information to the relevant owner/occupant.

DESIGN CHARACTERISTICS

Table 1. Panel details

Panel Size (mm)	Nominal Thickness (mm)	Mean Weight (kg/m ²)	Mean Weight per Panel (kg)
2400 x 900	4.5	4.4	9.5
2400 x 1200	4.5	4.4	12.6
2700 x 1200	4.5	4.4	14.3

Panel tolerances	
Length and Width	± 2.0mm
Squareness	The difference between the measured diagonals is no greater than 3.0mm
Thickness	± 0.5mm from the nominal

Substrate properties		
Property	Performance Figures	Units
Density	990	kg/m ³
Internal Bond	2.0	MPa
Modulus of rupture (Av.)	50	MPa
Modulus of elasticity (Av.)	5500	MPa
Impact Resistance*	>1.0	J
Curved Shapes minimum radius	1000	mm

*Drop test with striker ball $\phi=12.7$ mm

Choosing colours

Due to the high gloss finishes available for Seratone, care should be taken in choosing colours suitable for the lighting situation. Lighter colours are more tolerant of harsh lighting environments.

Curves and shapes

Seratone is easy to work with and can be curved to a minimum radius of one metre. It can be CAD or laser cut, making it ideal for feature panels, corporate identification or signage.

Fixed or removable

Seratone can be permanently fixed, or installed so panels are removable (dry areas only). For example: providing access to electrical or plumbing services or updated according to fashion trends.

Seratone Accessories

The Seratone range of aluminium jointers has been specifically designed for use with Seratone in both wet and dry area applications. Professional Jointers are for dry areas only.

Seratone in aluminium frames

Seratone can be easily cut and shaped for use in sliding and conventional opening aluminium door systems. They can also be used in aluminium frames for office partitioning and furniture.

Frameless panels

To create the thickness required for standard concealed hinges or where a thicker or double-sided panel is required, Seratone can be laminated to panel products such as MDF, using normal woodworking glues. Edges can be finished using contrasting edge-banding, timber clashing or the edges can be painted.

Moisture content

Seratone panels are factory conditioned prior to dispatch. Like most wood based products they are subject to the effects of humidity change.

Note: When using Seratone Classics or Metallics in a wet area installation, ensure that all edges are sealed including a 75mm band on the back face with polyurethane or oil-based (exterior) priming paint to maintain water resistance.

Permeability

Seratone Classic and Metallic panels are resistant to moisture penetration through the coated front of the panel.

Permeability: Less than 0.14g/day.m².mmHg

Effects of heat

Seratone panels are combustible and they must be separated from chimneys, fireplaces, heaters, flues and fuel-burning appliances in accordance with the requirements of NZBC Acceptable Solution C/AS1 Part 9.

Early fire hazard properties

Seratone has been tested according to AS/NZS 1530.3:1999. The Early Fire Hazards Indices for Seratone Classics & Metallics are given in APL test reports 00136, 00137 and 03068. Refer to Table 2. Seratone is currently being tested to AS/NZS 3837:1998

Table 2. Fire results

Early Fire Hazard Indices for Seratone (4.75mm) to AS/NZ 1530.3	Classics	Metallics
	Ignitability Index (Range 0-20)	13
Spread of Flame (Range 0-10)	10	10
Heat Evolved Index (Range 0-10)	10	10
Smoke Developed Index (Range 0-10)	5	4

AS/NZS 3837 (Cone Calorimeter) Test Results		
Group	Classics	Metallics
BCA Group Classification	3	3
Heat Release Rate (Mean Heat Rate @ 50kW/m ²)	197.5 kW/m ²	81.1 kW/m ²
Average Specific Extinction Area	92 m ² /kg	52.3m ² /kg

Panels must only be used where the surface finish indices meet the surface finish requirements for wall and ceilings as detailed in the New Zealand Building Code (NZBC).

There are no restrictions on use within buildings of purpose groups SH (detached dwellings) and SR (multi-unit residential). For all other buildings, indices must be checked for compliance with the NZBC.

Splashback compliance

Seratone Classics and Metallics are a suitable material to use as a splashback behind electric and gas cook tops. The following are recommended distances that must be adhered to:

ELECTRIC COOK TOP: Seratone Classics and Metallics can be used as a splashback material behind an electric cook top provided that it is kept at a **distance of at least 100mm** from the periphery of the nearest heating element.

GAS COOK TOP: Seratone Classics and Metallics can be used as a splashback material behind a gas cook top provided that it is kept at a **distance of at least 200mm** from the periphery of the nearest gas ring.

Note:

1. All installations must comply with the AS/NZS 5261: 2003 Gas Installations
2. Installation of all panels must be in accordance with the cook top manufacturer's recommendations. For more information contact your distributor.

Hygiene compliance

Seratone is approved by AgriQuality New Zealand Limited for use in dairy and food industries.

ORDER GUIDELINES

For Seratone products and accessories refer to Table 3.

Special colours

Seratone is available in special colours by request. Lead time and minimum run sizes apply. A 150 sheet minimum run size applies. Note: A premium will be charged. Contact Halifax Vogel Group for details.

Alternative Suppliers for Silicone Sealant and PVC Mouldings

Silicone sealant

- Polar: Sika Silaflex NG – White, HBFuller Shower and Tile Easyseal Sanitary – White or Holdfast Silaseal – Forever White

PVC mouldings

Available colour matched to some Seratone colours (ten per pack). Please contact Halifax Vogel Group.

Profiles available: Joints, Internal Corner, External Corner, Capping, Cornice, 2 Piece Joints, 2 Piece Internal Corner and Bath Flashing. Not all colours and profiles available in all sizes – contact Holdfast for details.

INSTALLATION

Seratone Panels are simple to install using construction adhesive and if desired double sided tape. It can be fixed directly to a timber frame wall or it can be laid over an existing wall lining, such as plaster board.

The Seratone Classics and Metallics surface coating is easy to clean, impervious to moisture and will not support mould growth. It is approved by AgriQuality New Zealand Limited for use in dairy and food industries.

Note: Throughout this brochure "wet" and "dry" areas will be referred to. A wet area is any area within a building supplied with water eg. bathrooms, ensuites, toilets, kitchens, shower rooms, laundries and changing rooms.

Planning the installation

Seratone is suitable for a wide variety of applications. When planning an installation, it is important to select the most appropriate panel type, panel size, jointing and fixing method to achieve the desired result. Refer to Table 3 to select the appropriate panel and accessories. Refer to Table 4 for fixing options.

Getting started

In planning, remember not all wall/ceiling/floor intersections are square. It is usually advisable to begin in the centre of the wall or ceiling with a full Seratone panel

- Plan for part panels to be placed at the corners of the room
- Ensure panel joints (and jointers where appropriate) coincide with the centre of studs or supports when installing directly to timber framing
- Complete plan for joint sequence layout

Note:

1. Panels are usually installed vertically on walls, but can be fixed with long edge laid horizontally for contrast or to create a feature in a dry area. If panels are to be laid horizontally, ensure continuous support is provided behind all joints. Ensure all panels are installed in the same direction.
2. If the panel is to be installed horizontally in wet areas where water runs over the panel face, contact Halifax Vogel Group for further advice.

Timber framing

- Ensure the timber support (nog/dwang/batten/stud) faces are straight, in alignment and flush
- Studs and nogs need to be at 600mm maximum centres for 1200mm wide sheets. For 900mm wide sheets use studs at 450mm with noggings at 600mm centres. For ceilings, suitable sized battens should be spaced at 400mm maximum centres
- Ensure all support surfaces to be bonded are clean and dry (maximum moisture content: 18%)

Lined wall and ceilings

Walls and ceilings lined with plasterboard, or similar, are suitable for direct fixing providing the surface is flat, sound and properly fixed.

SERATONE ALUMINIUM JOINTER RANGE

Standard Jointers (wet and dry areas)

The standard range (below) is designed for use in both wet and dry areas. In wet areas, standard jointers MUST be used with silicone sealants. These jointers require a low to medium level of installer expertise.

Figure 2. Standard Jointers



Professional Jointers (dry areas only)

The professional range (below) is designed for use in dry areas only. The professional range of jointers is suitable for experienced installers/fabricators with access to specialist tools (e.g. a laminate cutter).

Figure 3. Professional Jointers

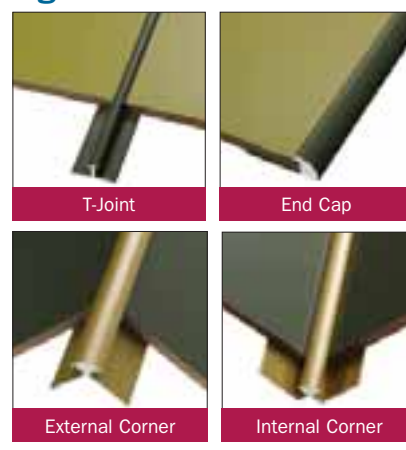


Table 3. Products and Accessories This table shows the range of panels and colour matched jointing solutions. (+) Available

	SERATONE PANELS			SERATONE ALUMINIUM JOINTERS (2700mm)					
	Sheet Size & Thickness	Satin	Gloss	Jointer Thickness	STANDARD (WET AND DRY AREAS)				
					H Joint	External Corner	Internal Corner	End Cap	Negative Detail
CLASSICS									
POLAR	2400 x 900 x 4.5mm	+	+	4.5mm	+	+	+	+	+
	2400 x 1200 x 4.5mm	+	+						
	2700 x 1200 x 4.5mm	+	+						
PARCHMENT	2400 x 900 x 4.5mm	+	+	4.5mm	+	+	+	+	+
	2400 x 1200 x 4.5mm	+	+						
PERMAFROST	2400 x 900 x 4.5mm	+	+	4.5mm	+	+	+	+	+
	2400 x 1200 x 4.5mm	+	+						
POWDER	2400 x 900 x 4.5mm	+	+	4.5mm	+	+	+	+	+
	2400 x 1200 x 4.5mm	+	+						
PUMICE	2400 x 900 x 4.5mm	+	+	4.5mm	+	+	+	+	+
	2400 x 1200 x 4.5mm	+	+						
PUTTY	2400 x 900 x 4.5mm	+	+	4.5mm	+	+	+	+	+
	2400 x 1200 x 4.5mm	+	+						
METALLICS									
GRAPHITE	2400 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
	2700 x 1200 x 4.5mm		+						
PEARL	2400 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
	2700 x 1200 x 4.5mm		+						
SAND	2400 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
	2700 x 1200 x 4.5mm		+						
STEEL	2400 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
	2700 x 1200 x 4.5mm		+						
BLING	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
GLACIER	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
LAHAR	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
PACIFIC	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
PEBBLE	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
PLUSH	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
POND	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
RAZZLE	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
RIVERSTONE	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
ROCKFACE	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
SAVOUR	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+
ROYAL	2700 x 1200 x 4.5mm		+	4.5mm	+	+	+	+	+

in Australia from Halifax Vogel Group.

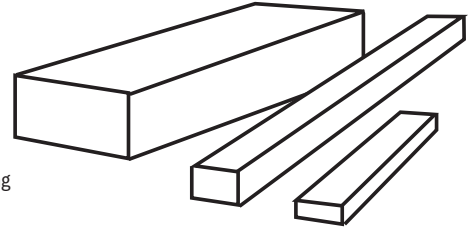
LENGTH)				SERATONE SILICONE	PVC MOULDINGS (2400mm LENGTH)♦								
PROFESSIONAL (DRY AREA)					300ml Tube	Jointer	Internal Corner	External Corner	Capping	Cornice	2 Piece Jointer	2 Piece Int. Jointer	Bath Flashing
T Joint	End-Cap	External Corner	Internal Corner										
CLASSICS													
+	+	+	+	+	+	+	+	+	+	+	+	+	+
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METALLICS													
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♦ Contact Halifax Vogel Group. Please refer to page 3 for contact details.

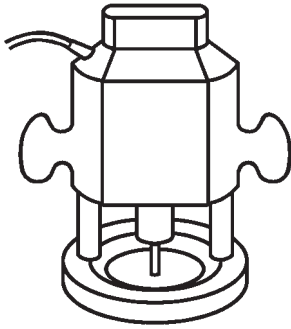
Figure 4. Source appropriate tools and accessories



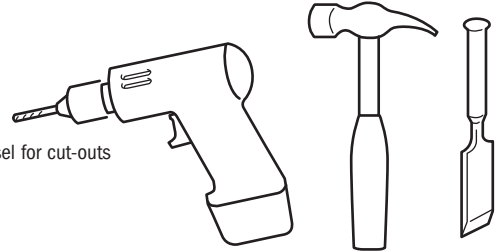
A tape to break the bond, for use with silicone sealant eg: Danco 100 bond-breaker tape



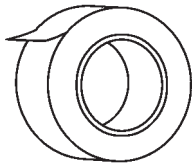
Timber required
 · For noggings/packing
 · Temporary support



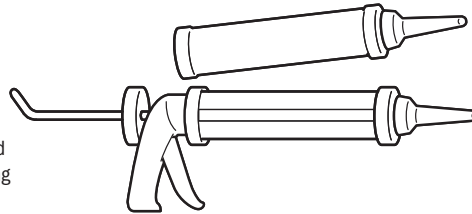
For cutting, a laminate cutter, table saw, circular saw or fine toothed panel saw



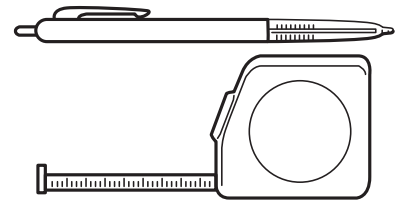
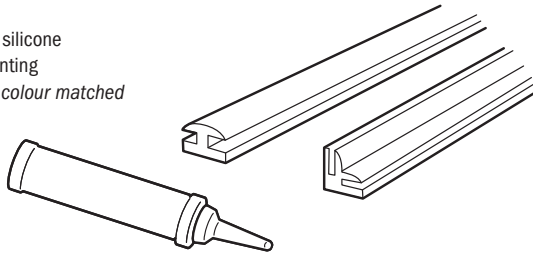
Drill, hammer and chisel for cut-outs and penetrations



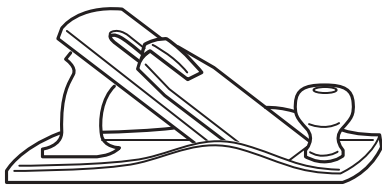
Seratone Installation Tape and construction adhesive for fixing



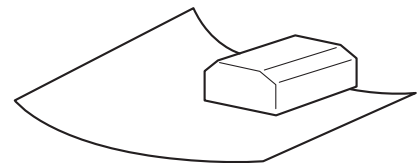
Seratone aluminium mouldings, silicone sealant or PVC mouldings for jointing
 Note: Silicone sealant available colour matched for some Seratone Metallics



Ballpoint pen and measuring tape for marking cutouts on plastic film



Plane or laminate cutter for straightening and smoothing out edges

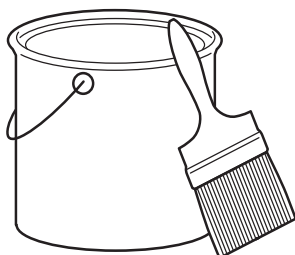
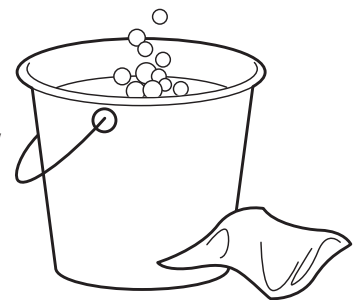


Sandpaper and cork block for edges

Turpentine for removing solvent based adhesive



Clean cloth and soapy water for clean up



NB: A waterproof sealer (such as a polyurethane or oil-based exterior priming paint) must be used if the panels are cut or the edges are damaged in transport/ installation where the panels are to be used in situations that may expose them to water

Concrete and masonry walls and all ceilings

- Ensure concrete/masonry wall is dry and will continue to remain so
- For 1200mm panels, ensure all strapping (timber battens) is spaced at 600mm maximum centres (vertically and horizontally)
- For 900mm panels ensure all vertical strapping is spaced at 450mm maximum centres and install cross strapping at 600mm maximum centres
- For ceilings, suitable sized battens should be spaced at 400mm maximum centres
- Strapping and battens must have a damp proof course between timber and concrete
- Fix strapping with nails or screws

Renovations

- When using Seratone to reline over existing walls or ceilings, previously painted surfaces should be cleaned, then scuffed with coarse abrasive paper to form a key for adhesion
- Old shower linings must be removed before installation of new panels. Existing framing and plumbing should be inspected to ensure no degradation has occurred
- Check that adhesive does not soften old paint work

Check panels & precondition

- Check batch numbers on the back of panels. Always use panels with the same batch number when panels are on the same wall plane or where colour/shade matching is critical. 1200mm + 900mm wide panels will be a different batch
- Precondition Seratone panels. Fillet stack pairs of panels and leave for at least 48 hours in room where they will be installed

Removing the packaging and protective film

- On delivery, Seratone panels are packaged with protective tape around the perimeter edges of face to face pairs. To remove the tape, gently peel tape slowly away from the panel edge. Do not use a knife to cut the tape, as this may damage the face of the panel
- A sheet of protective film protects the face of each Seratone panel. The film is designed to keep the panel clean and to protect against scratches. The film should be removed in two stages:
 1. Initially 50mm should be removed from all edges to allow for jointing/sealing.
 2. Only when the panel is completely installed should the remainder of the film be removed

Cutting panels

- Horizontally measure the top and bottom of the wall to determine the panel width required, as not all walls are square
- Use a ballpoint pen to gently mark these measurements onto the protective film
- Always support the Seratone panel, using a table or sheet of panel material. The use of a felt blanket, or the like, reduces scratching or indentation
- **Always ensure that all cutting blades are sharpened prior to use**
- For best results, especially when cutting panels for use with professional jointers, a high speed laminate cutter (30,000+rpm) with a 6mm blade should be used.
- Alternative cutting methods include, table saw, circular saw, router or fine tooth hand saw. Specific instructions for each are as follows.

Laminate Cutter

- Can be used to size the panel or alternatively to finish an edge after cutting with alternative equipment (see below)

Table saw

- Normally a table saw has a downward blade rotation. If this is the case, cut panels with painted surface face up. If the blade rotation is up, cut panel with the painted surface down (therefore the blade is cutting into the painted surface, reducing 'chip out')
- Allow the panel to pass through the saw with even pressure – do not force the panel

Circular saw

- Recommended for panels to be used with Standard or PVC Jointers
- Normally the blade rotation of a circular saw is up. If this is the case, cut panels with painted surface down. If blade rotation is down, cut panel with painted surface face up (therefore the blade is cutting into the painted surface, avoiding 'chip out')
- Clamp a straight edge to the panel as a guide for the tool.

Place a piece of timber material under the line you will be cutting. This supporting material is important as it helps reduce the chipping of the painted surface

- Reduce the depth of cut to allow the blade to cut approximately 7mm through the sheet
- Cut the panel using the circular saw, cutting slowly with a sharp, high quality tooth blade

Hand saw

- Recommended for panels to be used with Standard or PVC Jointers
- A fine tooth panel saw may be used to cut Seratone, with the painted surface face up
- Mark the panel for the cut
- Hold the blade of the hand saw at a very low angle, so that it is almost flat to the edge of the board
- Cut slowly and carefully with even strokes
- Once cut with a panel saw, clean the cut edges with a plane or very fine sandpaper (e.g. 320 grit)

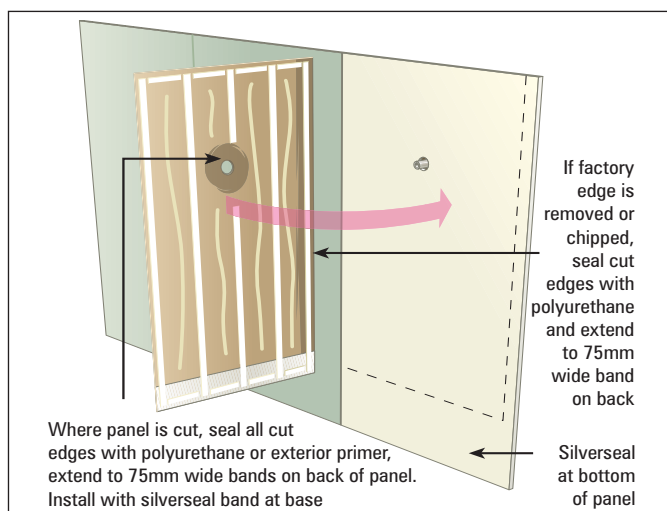
Finishing the edge after cutting

- Use a laminate cutter or electric plane to finish the edge especially when professional jointers are being used
- When using an electric plane, ensure it is held square to the edge of the panel. The panel should be well supported and secured
- Lightly chamfer any cut made to Seratone with a block and 320 grit paper, to remove the arris and any ragged edges

Cutting for penetrations

- Measure and mark cutouts for light boxes, pipe fittings, etc, ensuring sufficient clearance is allowed
- Ensure that cover plate/tap flanges cover the penetrations
- In wet areas, use polyurethane or exterior priming paint on all cut edges and to the back of the panel provide a 75mm perimeter band around penetrations and all edges (refer to Fig 5). Before installing the panels, check for damage to the drip edge if one is being created and reseal if in doubt
- In wet areas, the 150mm band of silverseal must be at the bottom of the panel
- In wet areas, run a bead of silicone around fittings/cutouts on the face of the board before fitting face plates and tap flanges etc. (See figure 13)

Figure 5. Sealing edges and apertures



Shaping a panel

- Curving panels: Seratone panels can be curved to a minimum radius of one metre
- Ensure the panels are well supported until the adhesive has cured.

Cutting Seratone Jointers

Seratone Aluminium Jointers and PVC mouldings can be cut with a fine toothed tungsten tipped dropsaw, or a fine toothed hack saw. Ensure all cutting blades are sharp prior to use.

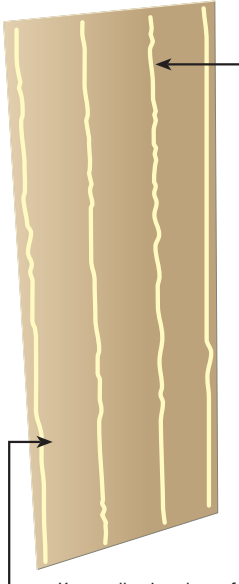
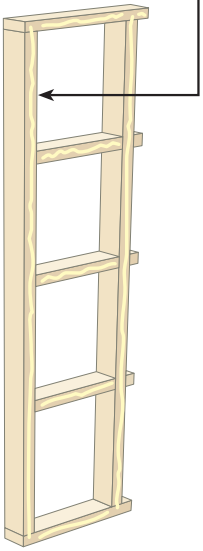
Fixing

Refer to Table 4 for panel fixing instructions and Tables 5 to 7 for jointing and fixing methods.

Table 4. Fixing instructions¹

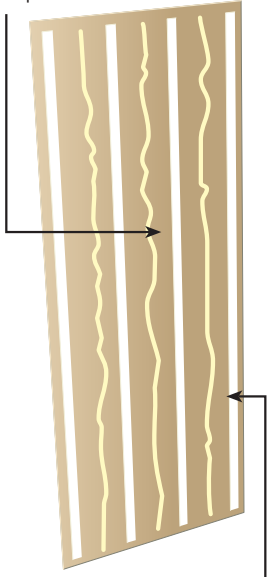
Notes:

1. Most Seratone installations are as vertical wall linings. For this reason, all procedures mentioned are for wall installations. For ceiling installations a modified version of the wall installation is required, with timber supports at 400mm centres. Ceiling inlay panels can merely be panels cut to the required size.
2. Or any other construction adhesive appraised by BRANZ for use with Seratone, or hardboard.
3. Seratone Installation Tape is a 3M 4466W 12.7mm double sided foam tape available from Halifax Vogel Group.
4. Danco 109 release tape is available from all reputable building product merchants.

		PERMANENT	
	Fixing method	Construction Adhesive: wet, dry and hygiene areas	
<p style="text-align: center;">Layout of Tape or Adhesive (on framework and back of Seratone panels)</p>	<p>Apply at 400mm max centres on back of panel if mounting on existing lining</p>  <p style="text-align: center;">Keep adhesive clear of panel edges to allow for ongoing fitting of joiners</p>	<p>Apply to wall studs and noggings if mounting panel directly onto framing</p> 	
Instructions	<ul style="list-style-type: none"> Apply full lengths of construction adhesive to framing or back of Seratone panel if fixing to existing lining Align and push panel onto the adhesive Transfer half of the adhesive to the panel by lightly pressing it into place momentarily, then removing When adhesive is “touch dry”, firmly reposition panel on to centre of frame Temporarily hold the panel edges against the stud while the adhesive cures using blocks fixed to framing or substrate with small diameter nails Once the adhesive is cured, remove the blocking 		
Recommended fixing products ²	<ul style="list-style-type: none"> SIKA: Showerbond, Nailbond PB HBFULLER: MaxBond Bostik: Tuf-as-nails Hold Fast: Fix All 220Lm (low VOC), Nailpower Shower Grab, Nailpower SB 		
Important points to note	<ul style="list-style-type: none"> For full instructions on fixing using construction adhesive with silicone joints, refer to page 12 		

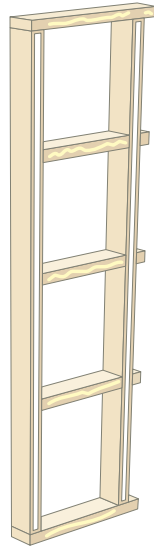
Construction Adhesive & Tape: wet, dry and hygiene areas

Apply adhesive at 300mm centres and Seratone tape³ at 400mm centres



Installation of panel with adhesive and tape method allows panels to be positioned without bracing

Apply adhesive to horizontal framing and Seratone tape³ to vertical framing



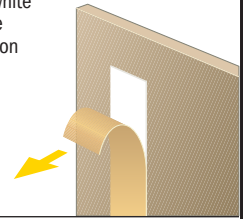
Installation of panel with adhesive and tape method allows panels to be positioned without bracing

2 Tape method: in dry areas only with alternative jointing

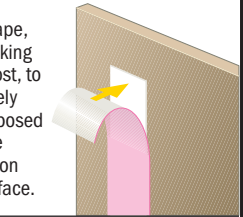
1. Apply Seratone tape at 400mm centres



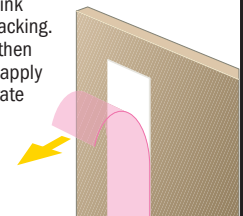
2. Peel white Seratone Installation Tape³ backing



3. Apply Danco tape, pink backing uppermost, to completely cover exposed Seratone Installation Tape surface.



4. Peel pink Danco backing. Panel is then ready to apply to substrate



Seratone Installation Tape³ is used in conjunction with adhesives to provide temporary support during adhesive cure. This removes necessity of bracing the panels. If using on ceilings, it's recommended to provide some bracing.

Fixing onto Plasterboard/Lining:

- Apply full lengths of construction adhesive to the back of the panel
- Transfer half of the construction adhesive to the panel by aligning and lightly pushing onto the existing lining momentarily, then removing
- Apply tape to areas between the columns of construction adhesive. This must be 400mm centres in full length strips. Expose tape
- When construction adhesive is "touch dry", firmly reposition the panel

Fixing directly onto Studs/Framing:

- Apply construction adhesive to the horizontal timber
- Transfer half of the construction adhesive to the panel by aligning and lightly pushing onto the timber momentarily, then removing
- Apply tape to the vertical timber in full length strips. Expose Tape
- When construction adhesive is "touch dry", firmly reposition the panel

- Using two tapes together will allow the panel to be removed (if required) on an infrequent basis. This is useful where access to electrical or plumbing services is required, or where changes in layout and panel re-use are important (eg. for changes in signage or displays)
- Apply Seratone Installation Tape³ to the back of the panel in full length strips at 400mm maximum spacing. Remove the paper release liner. Danco tape⁴ should be layered on top of Seratone Installation Tape. The pink release liner of the Danco tape⁴ should then be removed
- The panel can then be pressed against the wall

- Seratone Installation Tape³
- SIKA: Showerbond, Nailbond PB
- HBFuller: MaxBond
- Bostik: Tuf-as-nails
- Hold Fast: Fix All 220Lm (low VOC), Nailpower Shower Grab, Nailpower SB

- Seratone Installation Tape³ and Danco⁴ 109 (NZ)

- Apply tape to all sides of the panel, clear of jointers
- The use of tape eliminates the need for full support while construction adhesive cures
- The contact power of the tape will diminish at temperatures 10° celsius and below

JOINTING AND FIXING METHODS

Table 5. Jointing and fixing methods - Preferred Jointing Method

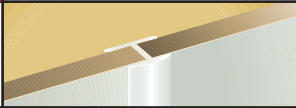
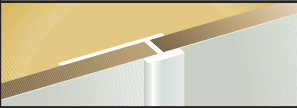
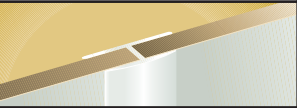
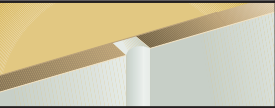
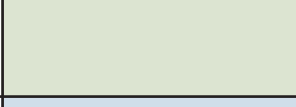
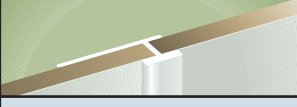
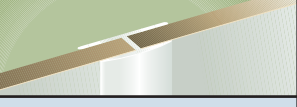
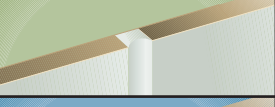
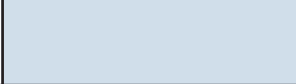
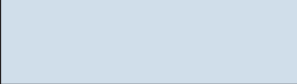
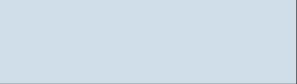
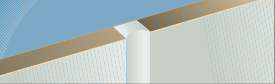
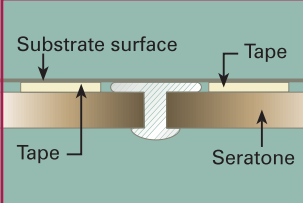

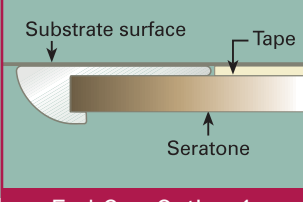

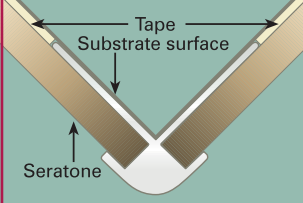

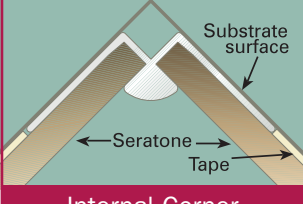

Application type	Professional Aluminium Mouldings	Standard Aluminium Mouldings	PVC Mouldings	Silicone Sealant
Dry Area				
Wet Area				
Hygiene Area				
	↓	↓	↓	↓
Substrate (The surface you are fixing Seratone to)	Plasterboard/Lining (NOT directly to framing)	Framing or Plasterboard/Lining	Framing or Plasterboard/Lining	Framing or Plasterboard/Lining
Recommended Fixing Method	Tape and Construction Adhesive or Construction Adhesive	Tape and Construction Adhesive or Construction Adhesive	Tape and Construction Adhesive or Construction Adhesive	Tape and Construction Adhesive or Construction Adhesive
Refer to Table 5 and Pages	11	11	11	12

Table 6. Installation using Professional Aluminium Jointers (dry areas only)

PROFILE	FUNCTION	INSTALLATION DETAILS	INSTALLED APPEARANCE
 <p>T-Jointer</p>	Provides a low profile bullnose bead which neatly joins two panels of Seratone on a flat wall.	No fixing or adhesive is required on the back of the aluminium profile. Once the Seratone panel is secured, push jointer into place with the flange sitting behind the panel.	
 <p>End Cap Option 1</p>	Provides an ideal way to finish a stop end on a flat wall.	First secure the jointer, then position the panel in place. Jointer must be attached using screw fixing, construction adhesive or double sided tape. When screw fixing, the screws should be countersunk and spaced 300mm apart.	
 <p>External Corner</p>	Provides a low profile solution for external corners or overhead bulkheads.	First secure the jointer, then position the panel in place. Jointer can be attached using screw fixing, construction adhesive or double sided tape. When screw fixing, the screws should be countersunk and spaced 300mm apart.	
 <p>Internal Corner</p>	Provides a stylish curve to finish off an internal corner.	First secure the jointer then position the panel in place. Jointer can be attached using screw fixing, construction adhesive or double sided tape. When screw fixing, the screws should be countersunk and spaced 300mm apart.	

INSTALLATION USING PROFESSIONAL ALUMINIUM JOINTERS

The professional jointing system is designed as a low profile application for a minimalistic appearance, for use in dry areas only. The system is only suitable for installation on fully lined walls (eg. plasterboard) and should not be used when installing Seratone direct to framing.

At the installation starting point

When installing Seratone jointers, the use of Seratone Installation Tape is recommended. When installed correctly the tape can assist the alignment of the Jointer.

- For cutting Seratone Jointers, refer to page 7
- Mark out areas for penetrations on the protective film and cut
- Take the first sheet of Seratone and peel the protective film approximately 50mm from the edge - refer to figure 6.
- Fix the first jointer in place by screw fixing, or tape to board or substrate material (countersink screws at 300mm centres)
- Apply construction adhesive and Seratone Installation Tape to the substrate as per manufacturers recommendations and fixing instructions
- If fixing using construction adhesive, follow the manufacturers' instructions. Most, construction adhesive instructions include transferring half the adhesive to the panel by lightly pressing the panel into place momentarily, then removing. When adhesive is "touch dry" realign the panel into the jointer
- Ensure the edge of the panel is plumb and correctly aligned in the fixed jointer
- Once panel is in position, press the panel firmly onto the centre stud, to allow construction adhesive to take hold, then add jointer to the trailing edge and screw fix, or tape to board or substrate material
- Continue installation by inserting each new panel into the jointer of the previous panel
- Check for adhesive spillage, and clean off if necessary

INSTALLATION USING STANDARD ALUMINIUM OR PVC JOINTERS

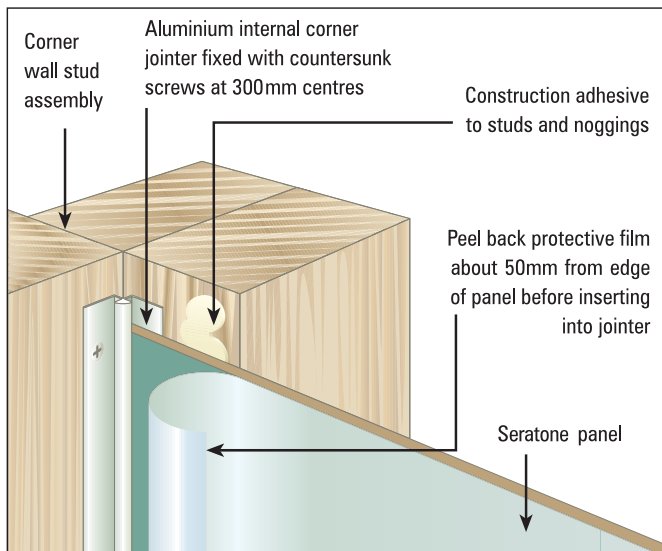
The standard aluminium and PVC jointing systems are designed for use in both wet and dry areas (refer to Table 5).

The system is suitable for installation on fully lined walls/ceilings (plasterboard) or direct to timber studs.

At the installation starting point:

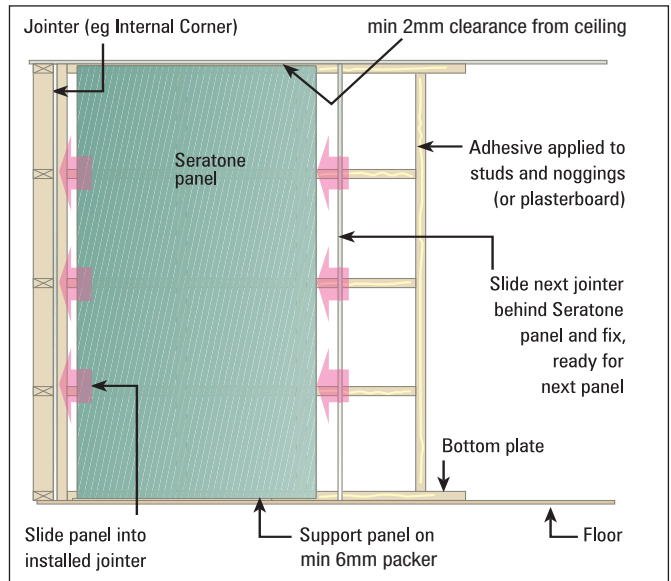
- For cutting Seratone Jointers, refer to Page 7
- Mark out areas for penetrations on protective film and cut
- Take the first Seratone panel and peel the protective film approximately 50mm from the edge – refer to Figure 6.

Figure 6. "Starting Point" using Internal Corner Jointers



- If panels are to be exposed to water, seal all edges and around penetrations with a polyurethane or exterior primer paint. Ensure all factory edges are sealed
- For PVC jointers, nail jointer in place using galvanized flat head nails, at 300mm centres
- For aluminium jointers screw fix, glue or tape in place (countersink screws at 300mm centres)
- For all wet areas, apply a thin continuous bead of silicone into the jointer recess before inserting the panel
- If you have difficulties inserting panels into the jointers, lightly sand the back of the panel – then reseal
- Apply construction adhesive and/or Seratone Installation Tape to the framing or substrate (refer to Pages 8 and 9) as per manufacturers' recommendations and fixing instructions
- Insert panel into fixed jointer

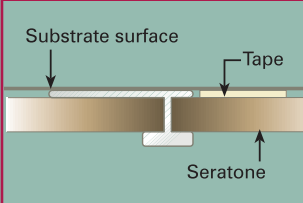
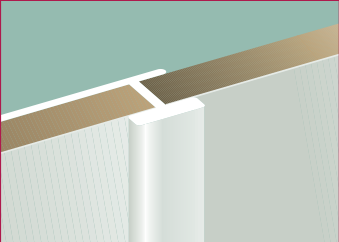
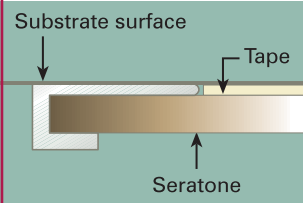

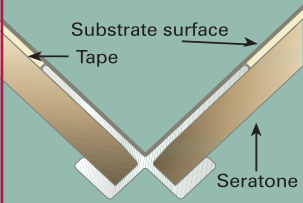
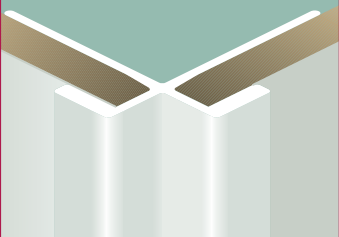
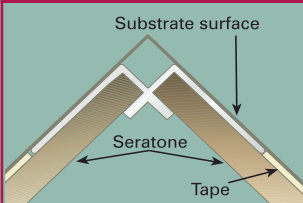

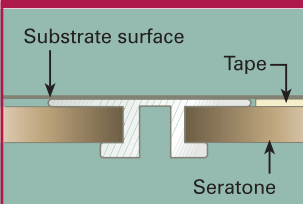

Figure 7. Installing first panel



INSTALLATION USING STANDARD ALUMINIUM JOINTERS

- If fixing using construction adhesive, follow the manufacturers' recommendations. In general, construction adhesive instructions include transferring half the adhesive to the panel by lightly pressing the panel into place momentarily, then removing. When adhesive is "touch dry" re position the panel
- Once the adhesive is touch dry and in place, press the panel firmly onto the centre stud/substrate, add jointer to trailing edge, then screw or glue fix trailing jointer into place (refer to Figure 7)
- Continue installation by inserting each new panel into the jointer of the previous panel. Screw, glue or tape jointers to studs/substrates as installation progresses
- Check for adhesive and silicone spillage, and clean off if necessary

Table 7. Installation using Standard Aluminium Jointsers (wet or dry areas)

PROFILE	FUNCTION	INSTALLATION DETAILS	INSTALLED APPEARANCE
 <p>H-Jointer Option 1</p>	<p>Serves two functions: It provides a stylish way to join two panels on a flat surface or it can be used as an end cap with a negative detail.</p>	<p>Joining two sheets: METHOD 1: Secure panel against the existing surface, then simply slide the H Jointer onto the end of the panel. Push next panel into jointer METHOD 2: Fix jointer by way of screws, construction adhesive or double sided tape then slide panel into it. Screws should be counter sunk at 300mm centres</p>	
 <p>End Cap</p>	<p>Provides an ideal way to finish a vertical or horizontal stop end on a flat wall.</p>	<p>Secure panel and then position end cap on to edge of panel.</p>	
 <p>External Corner</p>	<p>The negative detail and wide flanges make this a stylish and functional external corner.</p>	<p>First secure the jointer, then position the panel in place. Jointer can be attached using screws, construction adhesive or double sided tape. When screw fixing, the screws should be countersunk and spaced 300mm apart.</p>	
 <p>Internal Corner</p>	<p>Provides a square look to finish off an internal corner.</p>	<p>Engage jointer onto edge of first panel and attach panel to framing. Attach second sheet, locating the edge into jointer. Jointer can be attached using screws, construction adhesive or double sided tape if necessary. Screws should be spaced 300mm apart.</p>	
 <p>Negative Detail</p>	<p>Provides clean lines between sheet edges to create symmetrical channels</p>	<p>Install first sheet, attach jointer to leading edge, position second sheet. If screw fixing jointer, screws should be counter sunk at 300mm centres.</p>	

INSTALLATION USING SILICONE JOINTS

The silicone jointing system is designed for use in all areas.

The system is suitable for installation on fully lined walls/ceilings (eg. plasterboard) or direct to timber framing.

The Seratone Metallics silicone sealant is a coloured SIKA silicone sealant product originally designed for exterior use. For installation using this product, follow the guidelines outlined below. *(Note: Silicone sealant packaging instructions relate to the product being used in an exterior application. It is recommended that a gap based on a 1:1 ratio is created when Seratone silicone is the jointing method.)*

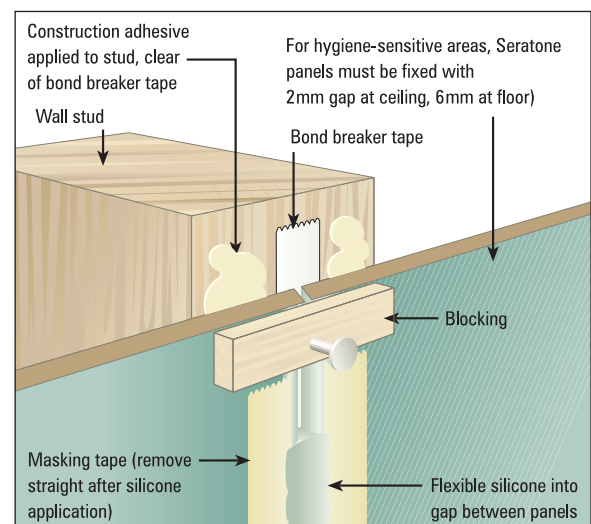
Internal corner panel edges should be factory finished (sealed). Should it be necessary to cut a panel, the cut edges and a 75mm band on the back of the panel must be sealed prior to being installed.

**Note: Seratone silicone is a Silaflex MS BRANZ appraised multipurpose sealant, durability tested to 25 years+ and available in 300ml tubes.*

At the installation starting point

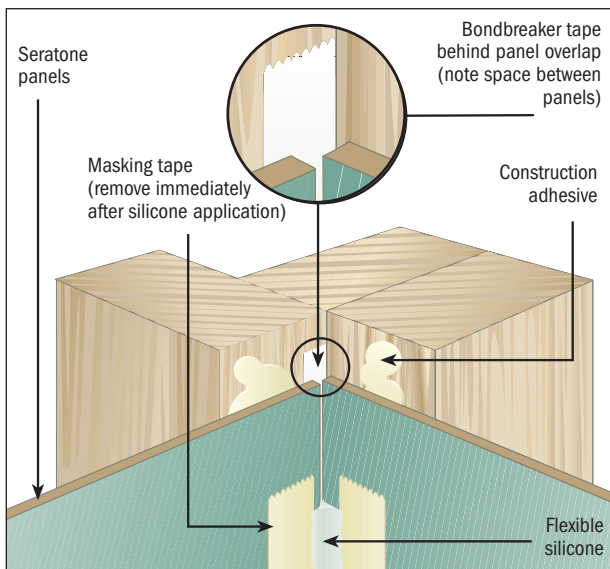
- Determine where the joints will be and fix a polyethylene bond breaker tape to the framing/substrate

Figure 8. Installing Seratone with silicone jointing

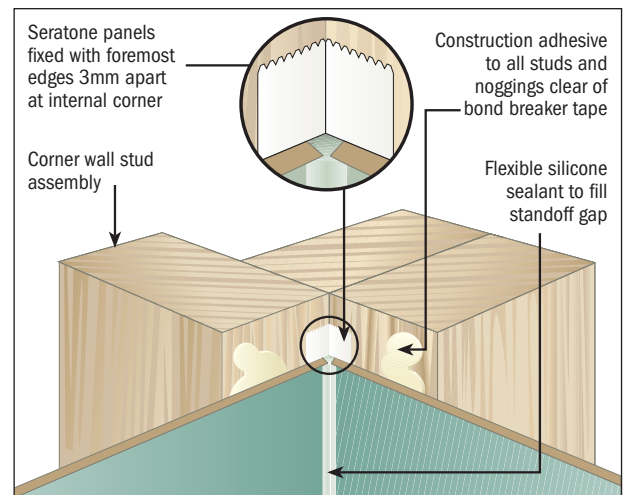


- Apply construction adhesive and/or Seratone Installation Tape to the framing or substrate (refer to Table 4) as per manufacturer's recommendations and fixing instructions. Avoid applying adhesive to the bond breaker tape
- If fixing using construction adhesive, follow the manufacturers recommendations. In general construction adhesive instructions include transferring half the adhesive to the panel by lightly pressing the panel into place momentarily, then removing. When adhesive is "touch dry" reposition the panel and press firmly from the centre stud outwards
- Fix stop nails against the trailing edge of the panel to provide the required gap between sheets
- If fixing using construction adhesive only, temporarily brace the panel edges against the stud while the adhesive cures using blocks fixed to framing with small diameter nails. If fixing using a combination of adhesive and tape, this step is not necessary as the tape will hold the panel in place while the adhesive cures
- Continue the process until panel installation is complete
- Carefully remove stop nails as installation progresses
- Clean out any adhesive showing between the panels
- Once adhesive cures, remove blocking
- Peel approximately 50mm of the protective film from panel edges (leave balance on the panel until installation completed)
- Carefully apply 20mm masking tape either side of the joint
- Cut nozzle of the silicone tube to create an aperture slightly larger than the gap
- Apply a consistent bead of silicone in gap so that it is flush with panel surface
- Once the gap is filled, remove excess silicone with a clean tool (eg. plastic spoon), or a clean gloved finger – Do not use unprotected finger
- For internal corner joints refer to Figures 9 & 10
- Internal corner panel edges should be factory finished (sealed). If it is necessary to cut panels, the cut edges and a 75mm band on the back of the panel must be sealed prior to being installed.
- Clean any excess silicone off panel front by using a clean cloth and a cleaning agent specified by silicone manufacturer (before commencing, check the suitability of the cleaning agent on Seratone panel surface).

**Figure 9. Internal corner joint
Option 1: Overlapped panels**



**Figure 10. Internal corner joint
Option 2: Standoff panel**



- Immediately after silicone is applied, carefully remove masking tape in one continuous movement (if the silicone is allowed to cure first, removing the masking tape will result in a 'ragged' edge)
- After tape is removed, do not touch the silicone joint until it is completely cured
- Refer to the manufacturers instructions for the appropriate silicone sealant drying time
- Once silicone has cured, remove remaining protective film and clean panel surfaces

Maintaining a silicone joint

- Never wipe sealant with an UNGLOVED finger
- The tool used to finish the sealant surface must be free of soap or saliva
- Mould can grow in wet or steamy areas if attention is not paid to adequate ventilation

Silicone usage

The amount of silicone required depends on the application, gap width and type.

As a "rule of thumb", 5 x 2.4m long joints can be achieved from one 300ml tube of silicone sealant (approximately 12m/tube).

SPECIFIC WET AREA INSTALLATION

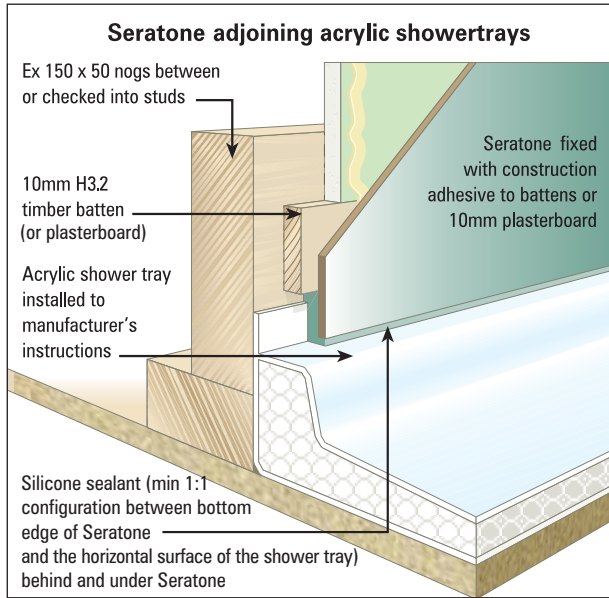
Shower installation options

There are numerous methods used to install a shower. Figures 11 and 12 are two of the most common methods, however the principles described here must be adjusted to suit the shower tray or tile manufacturers' specific instructions. No matter which methodology you use, it is essential that:

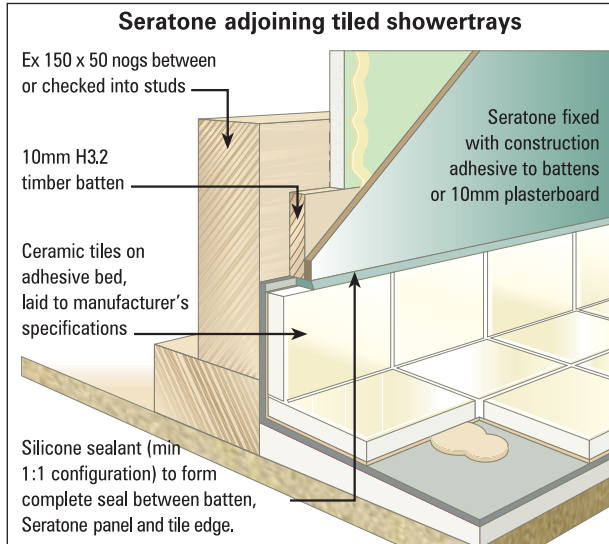
- the silverseal is at the bottom of the panel. It is also essential that the silverseal edge is in good condition with no chips, dents or cracks. Reseal on site to be sure
- when cutting openings in the panels for fittings, seal the edges and the back of the panels with a 75mm band of exterior primer or polyurethane
- any silicone sealant masking should be promptly removed
- on completion of any installation, remove the protective film and clean the surfaces.

Stainless Steel shower trays with no upstand 'lips' require a very specific Seratone Panel Installation. Please contact Halifax Vogel Group for specific installation details or visit www.hvgbuilding.com.au.

Method 1: Acrylic shower tray detail
FIGURE 11



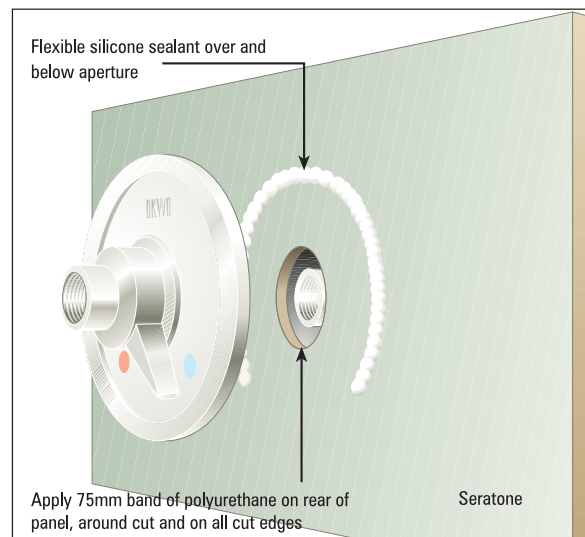
Method 2: Wall to tiled shower floor detail
FIGURE 12



Cutting panels for penetrations

- Measure and mark cutouts for light boxes, pipe fittings, etc ensuring sufficient clearance is allowed.
- Ensure that cover plate/tap flanges cover the penetrations.
- In wet areas, use polyurethane or exterior primer paint on all edges and the rear of the panel to provide a 75mm perimeter band around penetrations (refer to Figure 5).
- The 150mm band of silverseal must be at the bottom of the sheets.
- Run a bead of silicone around any fittings/ cutouts on the face of the board before fitting face plates and tap flanges, etc.

Figure 13. Penetrating panels for wet area installations

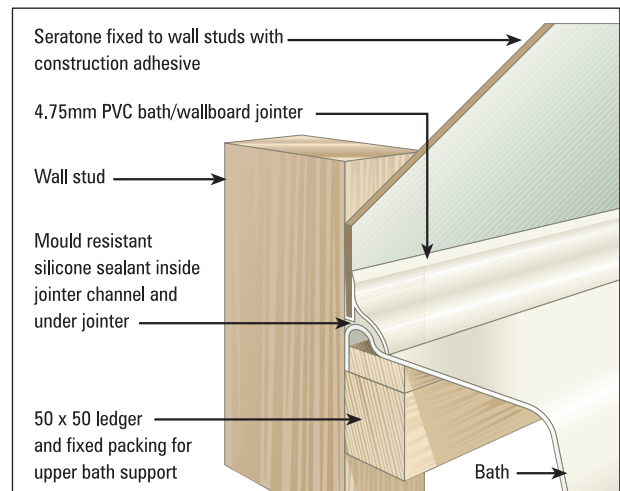


BATH WALL INSTALLATION OPTIONS

There are numerous baths available from many different manufacturers. The principles shown in Figure 14 should be adjusted to suit the manufacturer's specific instructions.

- Refer to bath manufacturer's installation guidelines and typical details.
- Panel edges are factory finished (sealed). Should it be necessary to cut a panel, cut edges and a 75mm band on the back of the panel must be sealed with polyurethane or exterior primer paint prior to being installed as a bath lining. If in doubt, reseal.

Figure 14. Typical bath edge installation



FINISHING SERATONE AGAINST VINYL FLOORING

- Use battens to create a gap behind the Seratone panel. It is recommended to step the back of the Seratone out 10mm minimum from the face of the Vinyl and hang the bottom of the Seratone sheet 10-30mm down from the batten, where water runs over the face of the sheet (see figure 15).
- An alternative in dry areas (outside shower cubicle) a standard H jointer can be used (refer figure 16).

Note: Horizontal channelled jointers should not be used in situations where water runs over the panel face. Contact Halifax Vogel Group for further advice.

Figure 15. Finishing Seratone against covered vinyl

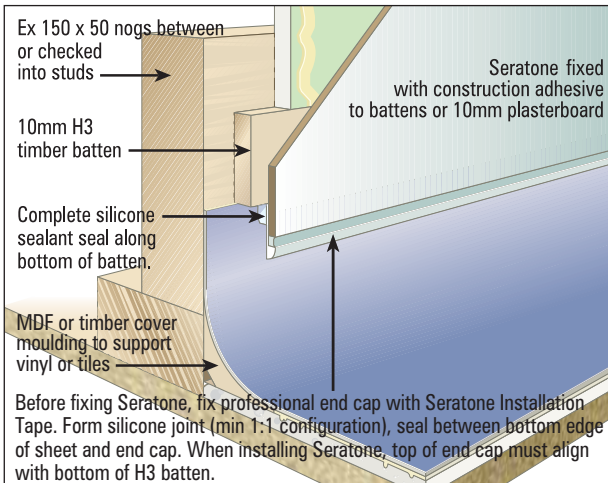
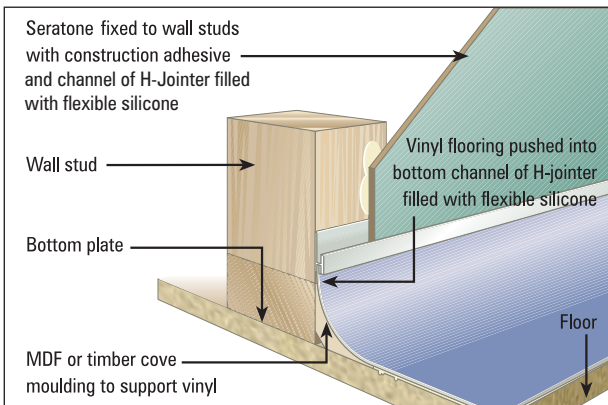


Figure 16. Coved flooring using an H-Jointer (for use outside the shower cubicle)



KITCHEN SPLASHBACK INSTALLATION

Seratone Classic and Metallic panels can be used as a splashback (which can be applied directly onto framework, or existing linings as previously detailed). Prior to installation of panels into kitchens, refer to Design Characteristics for Splashback Compliance Information (Page 4).

Due to heat and cleaning requirements where Seratone is being used as a splashback, it is recommended that 'full sheets' are used wherever possible (avoid joins). Refer pages 8, 9 and 11 for installation information.

HEALTH AND SAFETY

Health and safety precautions must be taken when working with wood panel products.

Storage areas containing large quantities of Seratone panels must be adequately ventilated.

Work areas must be well ventilated and kept clean. Sawing and machining equipment must be fitted with dust extractors to ensure that dust levels are kept within standards laid down by Occupational Health and Safety New Zealand. If not, a dust mask conforming to AS/NZS 1715 and AS/NZS 1716 and eye protection conforming to AS/NZS 1337 must be worn.

Offcuts, shavings and dust must be disposed of in a manner that avoids the generation of dust and in accordance with the requirements of local waste authorities.

For further information and Material Safety Data Sheets, please contact Halifax Vogel Group.

TECHNICAL SUPPORT

Not all use options and technical information can be described herein. Additional end use and specifying information is available as a complimentary service.

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SERATONE DO'S AND DON'TS

DO

- ✓ Do, at design stage, take care that the chosen colour is suitable for the lighting situation. Lighter colours are more tolerant of harsh lighting environments.
- ✓ Do check panels have the same batch number.
- ✓ Do transport and store panels flat and clear of ground.
- ✓ Do pre-condition panels (separate the individual panels and open stack for at least 48 hours in the room to be installed).
- ✓ Do measure rooms and plan the joint positions.
- ✓ Do check timber framing is dry, clean and dust free.
- ✓ Do provide a minimum 6mm gap at the floor line to accommodate movement.
- ✓ Do test cut, for chipping.
- ✓ Do check panel direction, silverseal at bottom edge of panel.
- ✓ Do ensure professional aluminium jointers are supported by a substrate such as MDF or plasterboard.
- ✓ Do cut Seratone panels with a laminate cutter, if using Seratone Professional range of aluminium jointers.
- ✓ Do follow adhesive and silicone manufacturer instructions.
- ✓ Do use continuous beads of adhesive on framing or existing linings. This reduces internal panel tension, that may lead to distortion on the front of the panel.
- ✓ Do use a continuous bead of silicone in all jointers and behind all fittings in wet areas.
- ✓ Do use silicone sealant in internal corners in wet areas.
- ✓ Do repair any minor surface damage as soon as possible to prevent moisture penetration behind the coating in wet areas.

DON'T

- ✗ Don't store panels in areas prone to damage or exposed to weather or direct sunlight.
- ✗ Don't store the Seratone panels upright, with the silverseal edge on the floor.
- ✗ Don't mix batch numbers.
- ✗ Don't install in saunas or steam rooms (see Limitations).
- ✗ Don't directly bond to masonry or concrete (use dry timber battens).
- ✗ Don't use the Seratone professional range of aluminium jointers in a wet area.
- ✗ Don't fix panels over wet or poorly prepared frames.
- ✗ Don't force panels into position – allow edge clearance.
- ✗ Don't nail Seratone panels – this destroys the paint surface. In wet areas the panel becomes prone to moisture penetration.
- ✗ Don't use an end cap unless a full silicone join is created on the bottom edge of the Seratone panel when installed in a wet area.
- ✗ Don't use blobs of adhesive to adhere panel to walls.
- ✗ Don't use an ungloved finger to apply silicone, as bacteria will encourage mould growth.
- ✗ Don't use abrasive cleaners or solvents on the Seratone surface.



HALIFAX VOGEL GROUP

Customer Services

Ph: 1300 854 166

Fax: 1300 658 889

QuickChip Sample Service

Ph: 1300 854 166

www.hvgbuilding.com.au