

Laminex®

Metaline®

# Splashbacks & Panels

Fabrication Manual



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# Section 1: Key Information

## Key Points About Laminex® Metaline Splashes and Panel Systems

### 1.1 Important Information

1. Laminex Metaline splashback and panel systems **must** be installed as per Section 5 - "Kitchen Splashes Installations" contained in this manual to deliver optimum product performance and compliance with the warranty.
2. The minimum set back distance between the installed Laminex Metaline splashback panel and any cook top (gas or electric) is 30mm. This is to ensure compliance with the building codes, as well as to prevent impact and thermal damage caused by oversized pots being used on the rear burner or element. Installations that are closer than 30mm will not be warranted. Laminex Metaline splashbacks and panels are not suitable for installations behind gas or electric cooktops where the benchtop is less than 600mm.
3. The Laminex Metaline splashback and panel systems has a proprietary coating that allows it to be cleaned easily. Cleaning of Metaline splashbacks and panels should follow the "Care and Maintenance" section, which is contained later in this manual and also on the consumer warranty card. Deep gouges caused by abrasive cleaners or scouring pads will not be warranted.
4. Laminex Metaline splashbacks have been assessed for fire safety properties. Laminex Metaline splashbacks are classified as Group 2 (under specification A2.4 of the BCA) and have the typical fire indices of 0 (Ignitability index), 0 (Spread of flame index), 0 (Heat evolved index) and 1(Smoke developed index).
5. ALWAYS follow the installation instructions as described in Section 5 of this document. Failure to follow the installation instructions may create a potential fire hazard to the consumer and will void any warranty.
6. All installations must be installed from the same batch and the same sheet orientation (information on spotstick) to avoid any colour variation.

### 1.2 General Information

7. Safety – always wear appropriate PPE when handling or cutting Laminex Metaline splashback panels.



8. Lifting – Laminex Metaline splashback panels are heavy and require a 2 man lift or mechanical assistance. Always lift panels in a vertical orientation to avoid buckling the panel.
9. Transport – always transport Laminex Metaline splashback panels horizontally on a solid pallet that supports the entire length of panel. Ensure that panels are carefully strapped and protected with top and bottom coversheets to prevent damage. Multiple sheets should be transported with the decorative faces together (protective film).
10. Inspection – any sheets that show visible damage (dents, impact damage, deep scratches through the protective film, etc.) should be rejected unless the damaged section is outside of the required usable area. Installation of damaged sheets is not warranted.
11. Cutting – always use a dedicated aluminium-cutting blade for all straight cuts. The use of vacuum extraction is recommended to prevent build-up of swarf on the work piece or cutting equipment.
12. Folding – Laminex Metaline splashbacks and panels can be folded around or into corners to give a continuous corner without any joins. Laminex recommends folding edges and corners to give the installation a premium look and feel. Ensure ambient temperature is not less than 16°C before folding occurs, for optimum edge appearance.
13. Roll bending – Laminex Metaline splashbacks and panels can be roll formed to a minimum radius of 120mm using mandrel rolling.
14. Butt joining – Laminex Metaline splashbacks and panels can be butt joined together or into corners to give a simpler installation. Allowance for a 3mm gap for silicone sealing and thermal expansion is required. If butt joint occurs outside corner, suggest folding both edges to ensure best colour consistency at 3mm expansion joint.
15. Penetrations – Laminex Metaline splashbacks and panels can be cut for plumbing and electrical installations. Cutting can be performed using hole saws or a jigsaw. Allowance for a 3mm expansion gap around joins is required. **Laminex Metaline splashbacks and panels are electrically conductive**, so all electrical work must be performed by a licenced electrician. All plumbing work must be performed by a licenced plumber or gas fitter.
16. Laminex Metaline splashbacks and panels are produced with a thick protective film on the decorated side of the panel. This protective film includes installation instructions, cleaning instructions and orientation guide arrows for reference during installation. DO NOT REMOVE the protective film either before or during fabrication. Protective film should only be removed as directed in Section 5: Kitchen Splashbacks Installation instructions.

# Section 2: Product Introduction

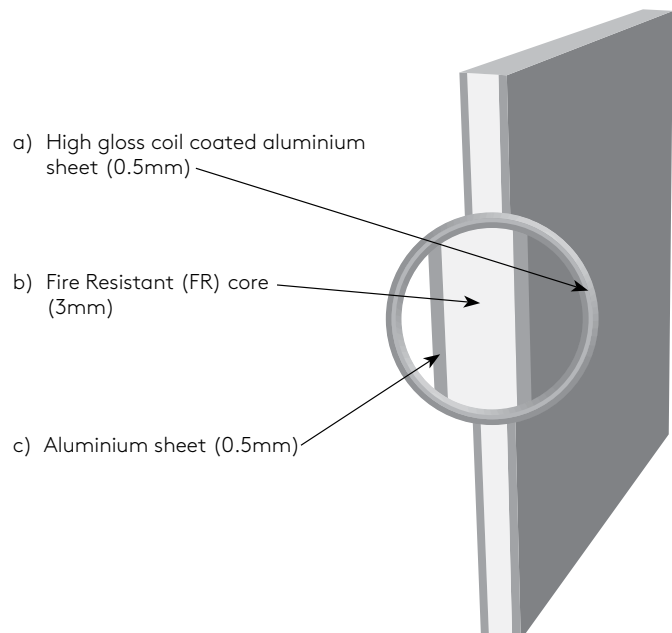
## Introduction to Laminex Metaline Splashbacks and Panel Systems

### 2.1 Product Characteristics

Laminex Metaline splashbacks and panels are an aluminium composite panel consisting of two coil-coated aluminium sheets bonded onto both sides of a Flame Retardant (FR) core. Bonding of the aluminium and FR core is achieved by both chemical and mechanical action, which gives excellent bond integrity. An exceptionally flat, corrosion-resistant panel, Laminex Metaline is simple to install and produces a premium finish.

The coated aluminium sheets are 0.5mm thick, sandwiched onto a 3mm FR core to give a total thickness of 4mm and density of 7.5 kg/m<sup>2</sup>. The high gloss decorated surface is a proprietary formulation that is easy to clean, mark and stain resistant and fire resistant. It has a minimum gloss measurement of 80 gloss units.

Printed onto the back surface are the product name, product colour, ASW code and manufacturing batch code.



The high gloss decorated surface is a proprietary formulation that is easy to clean, mark and stain resistant and fire resistant. It has a minimum gloss measurement of 80 gloss units.

### 2.2 Product Applications

Laminex Metaline splashback panels are suitable for installation in all domestic applications and most commercial installations. They are not suitable behind commercial gas cooker installations, nor domestic or commercial BBQs. Metaline can be installed where an NCC group 2 material is permitted.

Other applications suited to Metaline include:

- Wall panels for wet areas (laundry, bathroom, toilets)
- Wall panels for dry areas (commercial and domestic applications)
- Wall linings for commercial applications (lifts, displays, caravans, etc.)
- Decorative vertical panels
- Curved vertical installations



## 2.3 Sheet Sizes

Laminex Metaline comes in two main sheet sizes:

- 3600mm x 800mm x 4mm
- 3600mm x 1500mm x 4mm

All sheets have a protective film on the decorated surface to prevent physical damage during storage, handling and fabrication.

**Do not remove this protective film until instructed to during installation.**

## 2.4 Adhesives

Laminex Metaline Splashbacks require the use of neutral cure silicone adhesive. The use of acid cure silicone is not warranted.

Laminex Metaline double-sided tape has been developed for the installation. Double-sided tape is available in rolls from your local Laminex sales branch.

## 2.5 Warranty

Laminex Metaline splashbacks have a 7-year limited warranty, when installed according to this Installation Guide.

## 2.6 Product Technical Specification

Refer to the Metaline technical data sheet found at [www.laminex.com.au](http://www.laminex.com.au).

## 2.7 Product Tolerances

Refer to the Metaline technical data sheet found at [www.laminex.com.au](http://www.laminex.com.au).

# Section 3:

## Planning Your Installation

### Important Design Considerations – Types Of Fabrication

Laminex Metaline splashbacks and panels can be fabricated in two main styles:

- 1) Folded corners and edges
- 2) Butt joined corners and edges

#### 3.1 Folded Internal Corners, Rolled Edges

##### Preferred Method:

- This method gives a premium finish with no exposed cut edges and more professional corner detail.
- Utilises Metaline's unique forming characteristics to produce an internal or external folded corner.
- No joins and seamless finish.
- No joins directly behind cooktop.
- Panel temperature needs to be above 16°C, to ensure optimum edge appearance.



External folded corner



Internal folded corner



Rolled edge

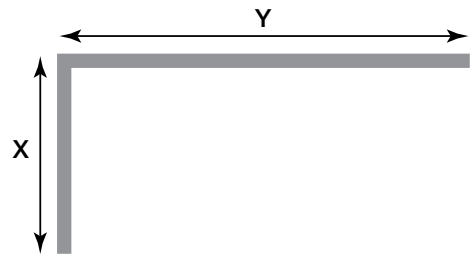


### 3.1.1 Fabrication Type – Folded Internal Corners

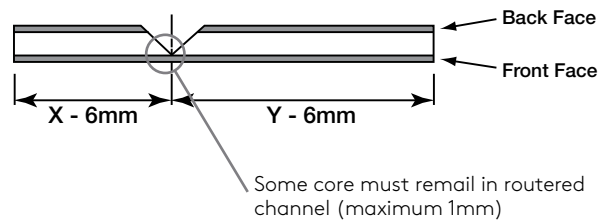
#### Preferred Method:

For fabrications where the Metaline is folded into the corner of the kitchen with a 90° seamless fold (as opposed to the traditional glass method of 2 sheets being butted together), the following sequence is observed:

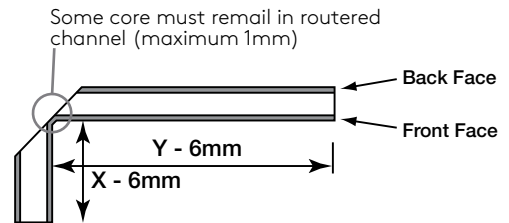
1. Measure the internal dimensions of the corner:



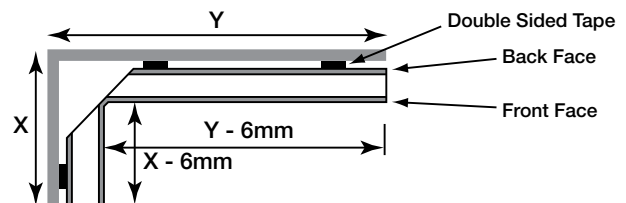
2. Allowance is made for the panel fold in the measurement as per below:



3. Panels are routed using a 90° V bit behind the section to be fold to allow for the panel to be bent, giving the following finished fold:



4. The installed section will look like:

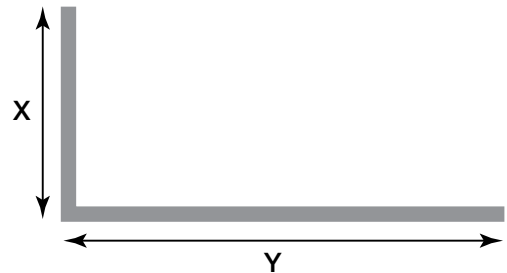


### 3.1.2 Fabrication Type – Folded External Corners

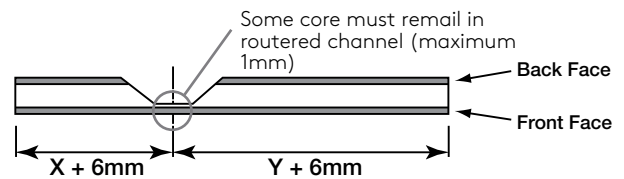
#### Preferred Method:

For fabrications where the Metaline is folded outwards to give a 270° seamless fold around the outside corner of a kitchen, the following sequence is observed:

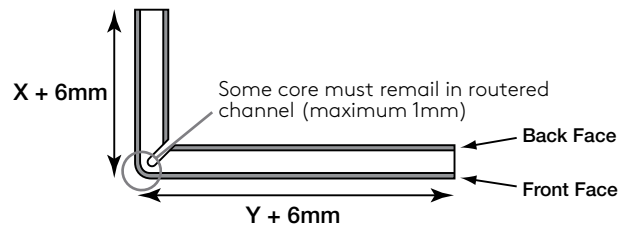
1. Measure the external dimensions of the corner:



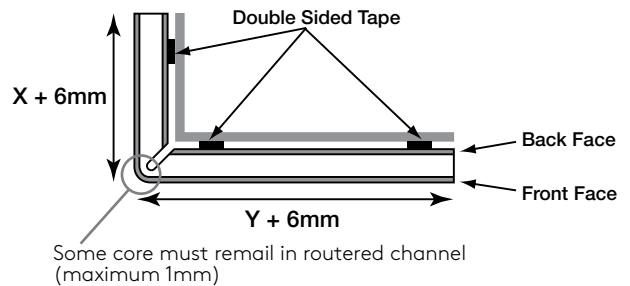
2. Allowance is made for the panel fold in the measurement as per below:



3. Panels are routed using a 135° V bit behind the section to be folded to allow for the panel to be bent, giving the following finished fold:



4. The installed section will look like:

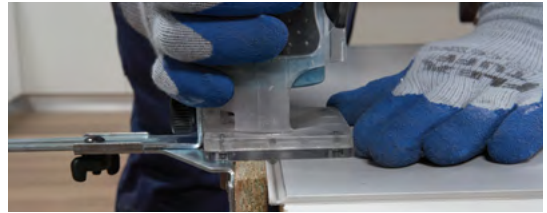
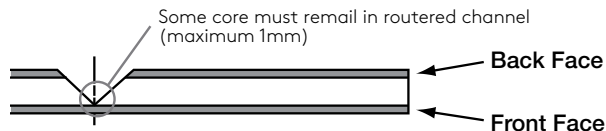


### 3.1.3 Fabrication Type – Folded Rolled Edges

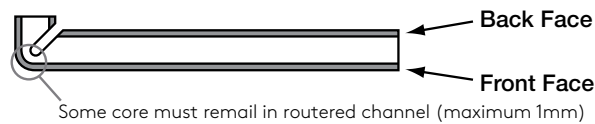
#### Preferred Method:

Folded rolled edges give a completely encapsulated finish to the sheet, which hides the core of the panel from view.

1. Allowance is made for the edge fold in the measurement as per below:



2. Panels are rebated behind the edge fold section to allow for the panel to be rolled over, giving the following finished edge detail:



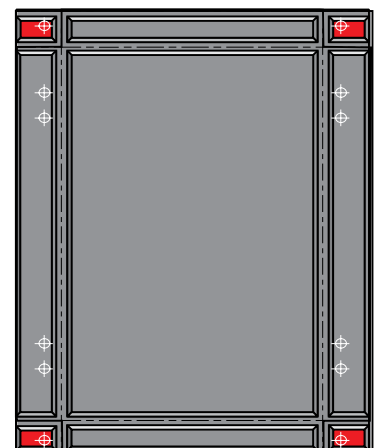
3. The slight overlap of the fold is retained to allow for the thickness of the double sided tape and silicone fastening to the wall.
4. This method is ideally suited to installations where more than one sheet is required to span the wall. It gives a premium join appearance by concealing the cut edge of the sheet.



### 3.1.4 Fabrication Type – Finished Corner Details

Where the sheet requires two rolled edges to meet on corners, the following method is used to allow for the edge folds to encapsulate the core:

1. Router the back of the sheet as per previous detail for rolled edges allowing the two passes to criss-cross over the corner edge.
2. Remove the section of material as shown in red using a sharp chisel.
3. Roll the two sections over and the corner should meet without any overlap.



## 3.2 Fabrication Type – Butt Joined Sheets

### Alternative Method:

Butt joining sheets as flat panels without any folding is a simpler method of fabrication. This method does not allow for external folded corners around walls or seamless joins in corners. **Ensure that all gaps are maintained at 3mm (with packers) to allow for silicone sealing and product expansion.** The method of installation is explained in Section 5.

### 3.2.1 Butt Joined Corners, Straight Cut Edges

#### Alternative Method:

- This method is the same as glass splashback installation and offers a less sophisticated installation, without sacrificing the benefits of Metaline splashback panels
- Joints will be visible and edges will be exposed
- It is a simpler installation method
- It requires only straight cuts; no routing
- Provides a clean join in corner; straight joins in panels
- No joining directly behind the cooktop



**Figure 1:** Butt joined sheets prior to application of sealant.



**Figure 2:** Metaline splashback butted against a wall showing use of sealant in the expansion gap.



**Figure 3:** Metaline splashback showing butt join with sealant.

## 3.3 Other Installations

**Decorative roll bending** – Laminex Metaline splashbacks and panels can be roll formed to a minimum radius of 120mm using mandrel rolling.

**Wet areas** – Laminex Metaline splashbacks and panels can be installed in all wet areas such as bathrooms, saunas, pool surrounds and other areas of constant high humidity and dampness.

**Lifts** – Either concealed, profile or screw through fixing.

**Door skins** – panels

**Decorative applications** – desk fronts, panels, foyers, etc.

## 3.4 Important Design Considerations – Expansion and Orientation

### 3.4.1 Thermal Expansion

Laminex Metaline splashback is an aluminium based composite material and will therefore exhibit minor expansion and contraction behaviours during heating and cooling. Thermal expansion must be considered when calculating dimensions and allowances for joins between sheets and around edges.

Laminex Metaline splashbacks has a coefficient of expansion of  $2.36 \times 10^{-5} \text{m}/^\circ\text{C}$  (0.0236mm/m/ $^\circ\text{C}$ ). **Allow a gap of 3mm between sheets when butt joining them, and allow an edge gap of 3mm around all panels for caulking and sealing.**

## 3.5 Direction of Coil Coating

Metallic coatings have a reflective or pearlescent finish, which is oriented in the longitudinal direction during the coil coating process. This gives the panel “active colour” behaviour, dependent on the angle from which it is viewed. Directional arrows are printed onto protective film and should be used to maintain orientation correctness and avoid shading differences between adjacent panels. This orientation must be taken into account when making panel optimisation calculations.

**Always use Laminex Metaline splashbacks panels from the same batch code for a job, rather than mix panels. This will avoid any minor colour variations caused by the coil coating process.**

## 3.6 Health and Safety

### 3.6.1 Occupational Health and Safety

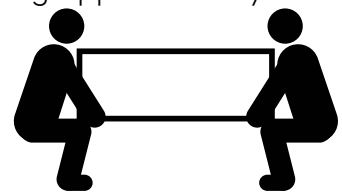
Laminex Metaline panels are heavy, with a 3600mm x 800mm sheet weighing approximately 22kgs and a 3600mm x 1500mm sheet weighing approximately 41kgs. Both sheet sizes require assisted handling.

#### Manual handling

- Two person lift
- Lift on edge to avoid flexure bending
- Lift vertically orientated

#### Mechanical devices

- Vacuum lifting on flat side
- Transport on suitable flat trolley



### 3.6 Health and Safety (continued)

#### Personal protective equipment

Cutting Metaline splashback systems will generate noise, flying hot swarf and sharp edges. Ensure that appropriate PPE is worn at all times during this operation. Eye protection, hearing protection and gloves should be worn at all times during cutting operations. As a general precaution, safety boots are also recommended.

### 3.7 Safety Data Sheet

A SDS for Metaline is available from Laminex – [laminex.com.au](http://laminex.com.au)



## Section 4: Cutting Of Panels

### Tools and Equipment

#### 4.1 Cutting Equipment

Laminex Metaline panels can be cut with traditional tools fitted with a suitable aluminium cutting blade – either tungsten carbide or high speed steel.

The following cutting equipment can be used for cutting Metaline panels:

- Panel or table saw (using aluminium cutting blade – e.g. Leitz 68800)
- Circular saw (using aluminium cutting blade)
- Hand router (high speed TC blade)
- Milling machine or CNC (high speed TC blade)
- Jigsaw (using aluminium blade only)
- Handsaw (metal cutting blade)
- Holesaw or drill (using HSS drill bits)

**Recommendation - always use vacuum swarf extraction to prevent build up on panel or cutting equipment.**

#### 4.2 Additional Tools Required

- Glazier's suction cup x 2
- Straight edge
- Builders angle
- Measuring tape
- Utility knife
- Metal file
- Laminex Metaline metal roller for rolled over edge finish
- 3mm packers
- Spirit level



### **4.3 Transport, Handling and Storage**

Store the panels flat in an environment of approximately 20-25°C for at least 24 hours before commencing any installation or cutting operations to allow them to reach a constant temperature. This will ensure that dimensions remain constant during any cutting and installation process. Always allow Metaline panels to reach constant temperature after transport (particularly in very hot or cold weather). Temporary storage of Laminex Metaline splashbacks on-site should be flat with a sheet of cardboard, polystyrene or foam between the panels. Do not remove the protective film until directed.

Handling of Laminex Metaline splashbacks requires care. It is recommended that panels be supported at several points along their length (the number of support points depending on the length of the panel). Panels should be manually lifted vertically, mechanically lifted horizontally.

### **4.4 Sheet Inspection**

Always inspect sheets of Laminex Metaline splashbacks for obvious signs of damage during transport or handling. Do not fabricate damaged sheets unless the damaged section can be removed. Always check that the protective film on the decorated surface is free from any drag marks or deep scratches that may penetrate into the coated surface.

Check that all sheets of the same colour are from the same batch code (printed onto the back of the sheet) to ensure that colour differences are minimised. Remember to note down the product batch code for completion of the warranty and installation checklist.

### **4.5 Cutting Metaline Sheets**

Laminex Metaline splashback sheets are best fabricated on a solid work platform (bench or stable board that fully supports the length of the sheet). Avoid cutting where the panel is only supported by trestles or bearers. Movement of the panel during the cutting process must be avoided to ensure accurate dimensional finish and prevent damage.

Laminex Metaline splashback sheets must be cut with a downward cutting stroke on the decorated surface. Always ensure that the workplace is kept free of swarf and other hard objects that may damage the Laminex Metaline splashback surface.

#### **4.5.1 Table Saw/Panel Saw**

A table saw (eg Altendorf) cuts with a downward direction of the blade, thus the decorated surface must be upwards. This ensures that the cut edge of the sheet is not burred by the exit stroke of the blade. It also eliminates chipping of the decorated coating. A flat metal file can be used to clean up any fine burrs on the cut edge. Care must be taken to ensure that no swarf or other hard objects become jammed between the saw and the decorated surface, as they can potentially scratch the surface.

#### 4.5.2 Handheld Circular Saw

A circular saw cuts with an upward direction of the blade, thus the decorated surface must be downwards. Take care in all cutting situations where the decorated face is downwards as you are unable to check for swarf and other debris between the sheet and the supporting table.



#### 4.5.3 Handheld Router

A handheld router cuts with a sideways action, however because of the high level of dragging during operation, the decorated side should be downwards. Always use a vacuum extraction on a router to prevent swarf build-up around the collet. If vacuum is not available, stop regularly and clear the swarf.



#### 4.5.4 CNC or Milling Machine

Same as hand held router.

#### 4.5.5 Jigsaw

A jigsaw cuts with an upward action, so the panel should be cut with the decorated face down. Note that a fine metal cutting blade must be used to prevent chipping and burring of the cut edge. Clean up with a file.



#### 4.5.6 Handsaw

A handsaw can be used for cutting Metaline but must have a dedicated metal cutting blade (eg hacksaw or fine tenon saw). These saws typically cut in one direction – set the blade direction (if possible) to the push stroke. Cut with the decorated face upwards.

#### 4.5.7 Hole Saw and Drills

Cut with the decorated face upwards. Regularly remove the saw to allow the swarf to be ejected.



# Section 5: Kitchen Splashbacks Installations

## 5.1 Items Required for Installation of Laminex Metaline Splashbacks

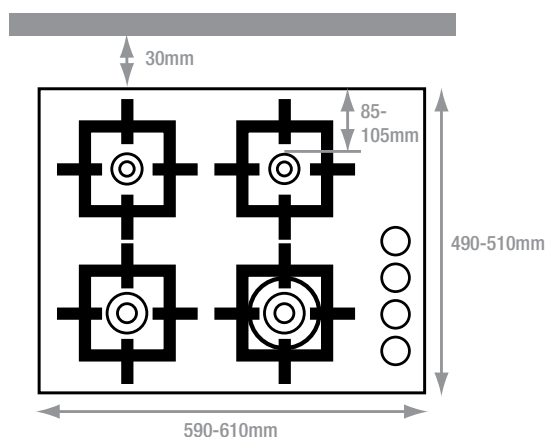
### Sheet Inspection

- Double-sided tape – 3M VHB 4991 tape or 3M Scotchtape 4008 (or equivalent) in minimum 12.5mm width
- Neutral Cure silicone
- Silicone application gun
- Glazier's suction cup x 2
- Straight edge/spirit level
- Builders angle
- Measuring tape
- Scraper or similar
- Utility knife
- 3mm packers
- Laminex Metaline splashback panels
- Laminex Metaline metal edge roller

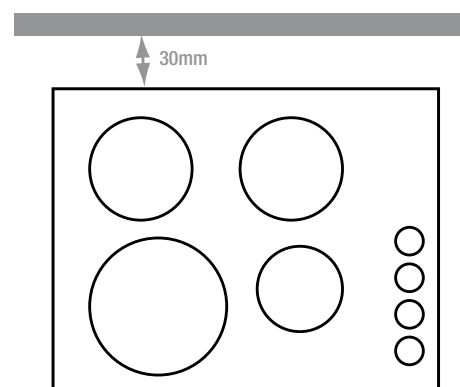
**Important Note: Minimum installation distance for gas and electric cooktops is 30mm**

For all inbuilt gas and electric cooktops – Laminex Metaline splashbacks must be installed with a minimum of 30mm set back from the edge of the appliance (base plate). This applies to all gas, electric and induction cooktops. The minimum benchtop width, for a cooktop installation, suitable for Laminex splashbacks is 600mm.

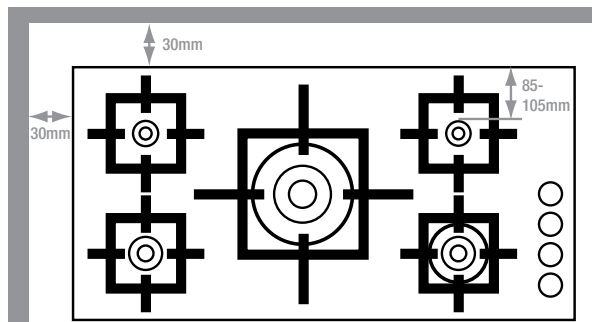
**Important Note: Laminex Metaline Panels are not suitable as a splashback for commercial gas cookers, domestic or commercial BBQ installations, or freestanding cookers/ranges with rear vents.**



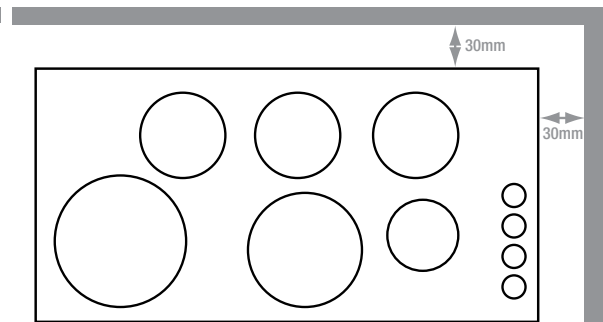
**Figure 4:** Gas Hotplate clearances



**Figure 5:** Electric Hotplate clearances



**Figure 6:** Larger Gas Hotplate clearances



**Figure 7:** Larger Electric Hotplate clearances

Installations where these minimum distances are not observed creates a risk of impact damage and blistering of the panel and surface from the use of oversized cooking pots and will void the Laminex Metaline splashbacks limited warranty.

## 5.2 Surface Preparation

### Plaster Board and Cement Sheet

The wall area must be a dry and clean surface, free from any crumbling plasterwork, grease or major surface damage. Crumbling plasterwork should be removed with a scraper blade or sanded off, or if severe, it must be repaired with plaster filler or patched with a suitable piece of plasterboard. Grease should be removed with isopropanol (IPO) or thinners and wiped dry. All nail heads must be punched in. Residual glue or plaster filler should be sanded or scraped off.

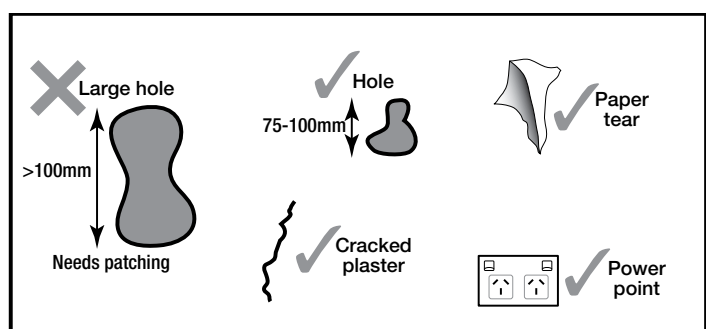
### Bricks or Cement Blocks, Grey Coat Render or White Coat Plaster

The wall area must be a dry and clean surface, free from any crumbling plaster, mortar, sand, grease or major surface damage. Crumbling plaster should be removed with a scraper blade or sanded off, or if severe, it must be repaired with plaster filler. Grease should be removed with isopropanol (IPO) or thinners and wiped dry. Residual mortar or plaster filler should be sanded or scraped off. Sandy or loose render on brickwork or cement blockwork must be sealed with appropriate sealer/primer. (Laminex recommends ArdexP51 Porous Substrate Primer. Follow manufacturer's application instructions.)

Installation over ceramic tiles is not recommended. The flatness of the wall and condition of the tile adhesive cannot be controlled. It is recommended that the tiles are removed and the wall is relined for flatness.

Any holes larger than 100mm across must patched or filled. Electrical or plumbing penetrations should be cut to slightly oversized for ease of installation, however they should not be excessively oversized to ensure wall integrity.

Figure 8 should be used as a reference for the recommended repair method for any damage to the wall.



**Figure 8:** Wall damage and recommended repair requirements

### 5.3 Wall Flatness and Squareness

The wall area should be checked for flatness and squareness before any splashback dimensions are taken. Areas requiring packing out should be identified and corrected. It is recommended to use double-sided tape as the method for packing out low sections of the wall. Tolerance for wall flatness is +/- 2mm/m vertically and horizontally. Wall squareness is +/- 5° from a right angle (90°).

### 5.4 Dimensional Measurement

Wall dimensions should be taken after wall preparation and/or corrections are complete. Measurements are to be to the nearest 1mm, with allowance for diagonal variations. Check all measurements before transferring to the Laminex Metaline splashbacks surface. (Refer to Fabrication section for the most suitable method of cutting to size).

Dimensions will depend on the selected method of installation (viz. folded vs butt joined method).

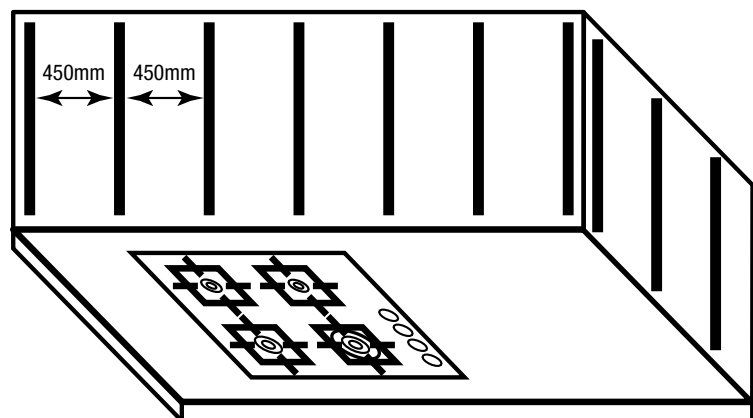
### 5.5 Taping

Double-sided tape must be used to provide initial adhesion during the installation process. Laminex recommends the use of 12.5mm minimum width, 3M VHB 4991 or 3M Scotchtape 4008 tape to assist in the installation process.

The double-sided tape performs 2 key functions:

- Provides initial adhesion of panel to the wall during silicone cure.
- Allows adjustment of the wall flatness to pack the panel out for plumb fit.

Double-sided tape should be applied vertically, spaced every 450mm across the width of the panel, and down the full length of the wall. **Do not remove the protective strip from the tape until after the dry fit of the panel.** Figure 9 outlines the correct double-sided tape installation method.



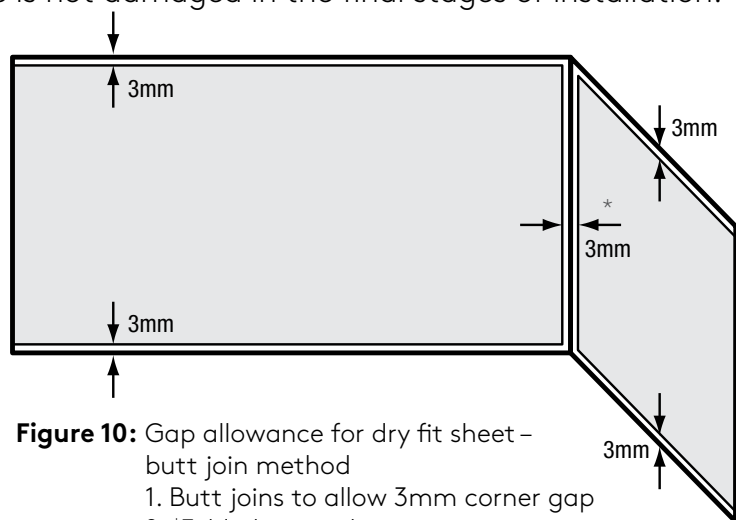
**Figure 9:** Application of double-sided tape to the wall

## 5.6 Dry Fit

Laminex Metaline Splashbacks should be dry fitted to the wall to check dimensional accuracy. The use of glazier's suction cups will assist in the handling of the Metaline panels. Once a satisfactory fit is achieved, the panel should be removed to allow for silicone application.

Once the dry fit is deemed satisfactory, remove the protective film to check for surface defects before final installation. Extreme care must be taken from this point to ensure the decorative surface is not damaged in the final stages of installation.

Figure 10 shows the recommended dry fit gaps.

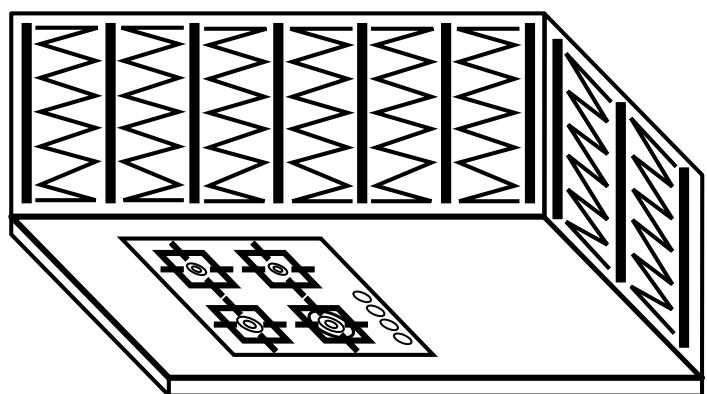


## 5.7 Final Fitting

### 5.7.1 Silicone Adhesive Application

A 5mm bead of Laminex Metaline neutral cure silicone adhesive should be applied to the wall using a zigzag pattern between the strips of double-sided tape. Figure 11 shows the recommended application pattern.

Ensure an even coverage of the silicone to ensure wall flatness. DO NOT use dollops of adhesive as they can create an uneven wall finish. The use of zigzag type patterns ensures an even bond of the Metaline splashback panel to the wall.



**Figure 11:** Application pattern for silicone

### 5.7.2 Double-Sided Tape Protective Strip Removal

Remove all of the protective strips from the double-sided tape, ready for panel installation. Make sure all the protective strips are removed, as there will not be an opportunity to remove once the panel is pressed onto the wall.



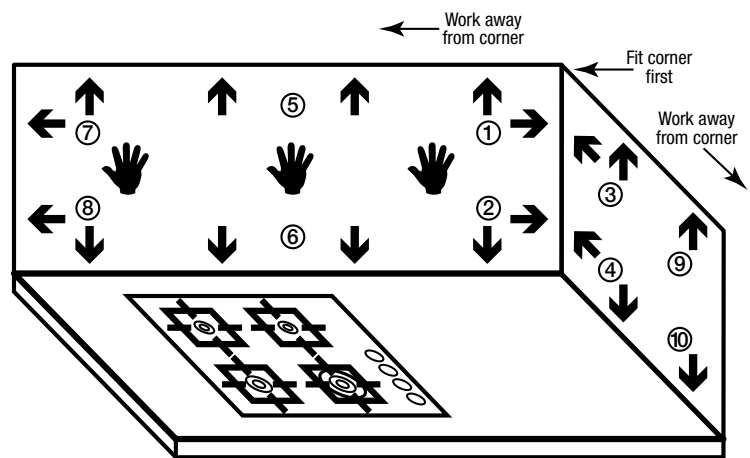
### 5.7.3 Fitting

Install the panel against the wall, pressing firmly and evenly against the silicone bead until resistance from the double-sided tape is experienced. Note: Where a folded panel method is used, both adjacent walls must be considered at the same time to ensure the panel is tightly fitted into the corner – so start at the corner.

Ensure the whole panel is pressed evenly and check vertical trueness with a spirit level.

Ensure gaps between the panel and overhead cabinets or benchtops are even. Allowance of 3mm is required at each edge for silicone sealing.

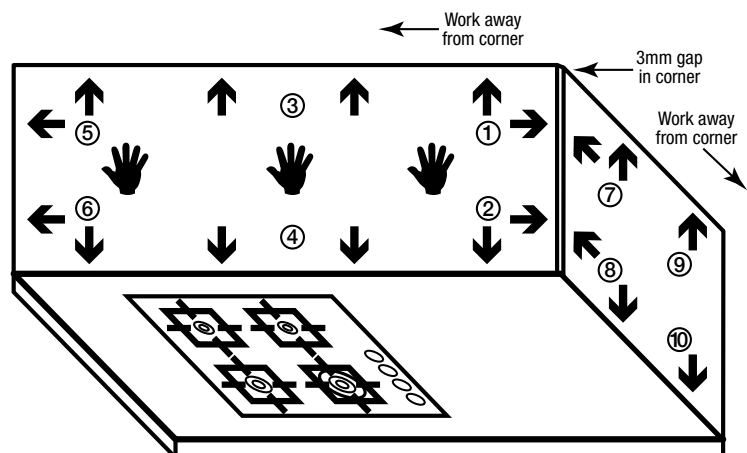
Figure 12 illustrates the installation process for a folded panel.



**Figure 12:** Sequence of panel pressing onto the wall – folded corner method

Butt joining of panels together requires a 3mm gap between panels for silicone sealing. Each panel is installed and pressed separately, starting at one edge and working to the other. Corners require a 3mm gap to be left for silicone sealing.

Figure 13 illustrates the installation process for a butt joined panel.



**Figure 13:** Sequence of panel pressing onto the wall – butt join method

For straight panel joins, simply allow 3mm gap between sheets to allow for silicone sealing.

## 5.8 Sealing with Silicone

Apply the silicone into the gap between each panel, and between panels and overhead cabinets/benchtops; ensuring that sufficient silicone is used to completely fill the gap, with a small amount of excess silicone squeezing out of the joint.



## 5.9 Clean-up

Use water with a small amount of detergent and a soft micro-fibre cloth to clean up any excess silicone from the decorated surface before it cures.



## 5.10 Care and Maintenance

Laminex Metaline splashbacks require very little maintenance if installed according to the instructions above and cleaned according to the following guidelines:

- DO use a soft micro-fibre cloth with a mild detergent
- DO clean the surface regularly
- DO NOT allow food stuffs to build up on the surface
- DO NOT use abrasive cleaners or pot scrubbing pads
- DO NOT use cleaning solutions that are highly acidic or caustic
- DO NOT clean the surface if it is hot
- DO NOT place metallic or sharp implements against the surface, which may cause scratching

### 5.10.1 Routine Care and Maintenance

Avoid placing metallic or sharp cooking/kitchen implements or appliances directly against the surface. The use of abrasive cleaners or pot scrubbing pads will scratch the surface, only use a soft, abrasion free microfibre cloth to clean the Laminex Metaline surface.

### 5.10.2 Gas Cook Tops – General Comments

Excessive heat from large burners that are poorly adjusted can scorch the surface. To avoid this damage consult the users guide for your cook top. Most manufacturers will give advice as follows:

#### How to Use the Burners

Bear in mind the following indications in order to achieve maximum efficiency with the least possible gas consumption:

- Use adequate pans for each burner – generally small pots and pans on small burners to low heat
- Do not allow the flame to spread up the sides of the cooking vessel
- When the pan comes to the boil, set the knob to the reduced rate position (small flame)
- Always place a lid on the pans
- Use only pans with a flat bottom



Optimum flame usage above.

**Cover**

Benchtops: Essastone **Nero Assoluto** Gloss finish

Splashback: Laminex Metaline in **Black Ice**

Cabinetry and panels and drop down Island table:  
Laminex Impressions in **Burnished Wood** Nuance finish