



These installation instructions are of a general nature and designed to assist suitably experienced tradesperson to install Mirage™ to a high standard in common wall and ceiling installations.

For installation support, contact your Autex Acoustics® account manager before you start.

Manufacturer's documents

Autex recommends that all persons engaged in installing Mirage have full knowledge of the product and installation procedure as set out in the most recent edition of the manufacturer's instructions and related documents.

Manufacturer's documents relating to work in this section are:

- Mirage™ Data Sheet
- Mirage™ Manufacturer's Guarantee
- Mirage™ Install Instructions
- SpinFix™ Product Guide

Copies of the above literature are available on request or from the Autex Acoustics website.

Devices generating heat

Localised high temperature conditions may be present in the following situations which may be detrimental to wall and ceiling linings:

Including, but not limited to:

- Radiant heaters
- Lighting
- Heat pumps
- Reverse cycle air conditioners
- Solid fuel stoves

For more information, refer to the current documents below:

- NCC provisions for installation of heating appliances, fireplaces, chimneys and flues
- AS 2918 Domestic solid-fuel burning appliances — Installation
- AS 5601 Gas installations
- AS/NZS 3000: Unit manufacturer installation instructions

All appliances including lamps, luminaires and their associated ancillary gear should be installed so as not to cause the Mirage surface temperature to rise above 80°C.

Inspection

Before starting the installation of Mirage, check again that the materials have been supplied as ordered and are free from damage or faults. Check colours and product labels to ensure the product has been supplied correctly.

Where multiple sheets of Mirage are required, it is important to check that all product is supplied from one batch. Due to batch to batch variation, we do not recommend joining different batch lots as this could result in colour variation.

Any variations must be reported to Autex Acoustics prior to commencing the installation. No claims will be accepted where the job continues with obvious faults, and no consultation with Autex Acoustics has taken place.

Transportation, storage & handling

Mirage must be transported, stored and handled with care. Mirage should be kept dry and stored indoors. Avoid delamination or distortion and protect edges from being crushed.

Do not accept damaged product. If the product arrives damaged note the condition on the freight documents and contact Autex Acoustics

immediately. Goods signed as receipted in 'good condition' will not be the responsibility of Autex Acoustics.

Always transport and store Mirage on a flat, clean and dry surface.



On-site panel care

Mirage panels are a semi rigid product that can be damaged if not handled with care. Avoid bending the packs and panels as this could cause creasing. Do not store or drop the panels on their corners or edges as this will cause damage. Clean cloth gloves are ideal when handling Mirage to avoid soiling.

Substrate

Before work commences, all joins, gaps and cracks in the wall/ceiling substrate must be taped with propriety sealing tapes to eliminate the ingress of dust and foreign particles travelling from the cavity into the installed product over time. Ensure that the substrates, backgrounds and adjoining surfaces will allow work to reach the required standard.

Autex Acoustics recommends that the wall/ceiling surfaces be prepared to a minimum Level 3 finish.

Very porous surfaces may need to be sealed prior to applying the adhesive. Gloss and semi-gloss finishes should be lightly sanded and dusted clean prior to application of the adhesive.

All surfaces must be clean, dust-free and dry as dust and moisture will adversely affect the adhesive and may result in lack of adhesion.

Install Mirage general

Mirage should always be installed in accordance with these installation instructions and as per the specification detail and customer requirements. If there is conflicting information, you must seek clarification from all appropriate parties before proceeding with the work. It is imperative that the installation is planned before cutting and installing any product. Mirage panels are supplied at the dimensions stated on your local

data sheet. Mirage panels are supplied squared and chamfered. If required, panels should only be trimmed along the outer edges. Always do a 'dry fit' first before fixing to ensure there are no undue gaps in panel joins or at junction points.

We recommend you "measure twice and cut once".

Installation using adhesives

Adhesives should be applied strictly in accordance with the adhesive manufacturer's instructions. Refer to the product label or the technical data sheet for spread rates, tack-off times, application methods and equipment required.

Adhesive spills or surface contamination should be cleaned immediately ensuring fabric care instructions on the Mirage Data Sheet are followed.

The job should be progressively checked for appearance, installation quality and adequate adhesion. Any variations in colour or appearance must be notified and discussed with your Autex Acoustics account manager. No claims will be accepted where the job continues with obvious faults, and no consultation with Autex Acoustics has taken place.

Recommended adhesive

Autex Acoustics recommends a contact-type adhesive or high grab MS polymer adhesive for applying Mirage to most common substrates. Prior to commencing work, we recommend contacting your local adhesive supplier with samples of the Autex Acoustics products you are installing and the specification of the substrates you are installing to.

It is the installer's responsibility to ensure that any adhesive is fit for the intended purpose. It also is the installer's responsibility to ensure that the substrate is fit for the application of adhesives and Autex Acoustics products. For information regarding adhesive suppliers, please contact your Autex Acoustics account manager.

Installation using SpinFix™

SpinFix™ is an adhesive-free mounting system that uses clips made from recycled PET. This process improves the ease of reuse and recycling at end of life.

Using SpinFix accessories for your installation should always be in accordance with our SpinFix installation guidelines. Please refer to our SpinFix product guide for more information.

Install Mirage walls

Mirage should be installed to a clean, flat wall substrate that is prepared in accordance with the recommendations listed above. Mirage panels come with a sticker on the side that needs to be installed to the wall. The arrow ensures all panels are installed in the same direction to prevent any perceived colour variation when installing panels side by side.

When installing Mirage on walls, a contact spray adhesive or high grab MS polymer adhesive is recommended. For ease of installation, we recommend that you install each Mirage panel individually. This includes the application of adhesive (contact your local Autex Acoustics account manager for suitable options) and rolling the panel.



Adhere to substrate using contact spray adhesive

Apply the contact adhesive to the Mirage panel and substrate as measured for the Mirage panel, ensuring the adhesive manufacturer's instructions are followed correctly.

Ensure the adhesive has been tacked-off correctly then fit the Mirage panel to the wall. Where joining Mirage panels with a butt-joint it is recommended the panel is fitted firmly to the joint first, then smoothed out to the edges applying

even pressure to ensure adequate adhesive transfer and a strong bond. Finally, roll the Mirage panels towards the butt joints, then roll the entire Mirage panel to ensure adhesive transfer and a strong bond. Small wallpaper and vinyl rollers must not be used. A wide roller approximately 100-150 mm is ideal. Continue as above for all panels until complete.

Adhere to substrate using high grab MS polymer adhesive

Refer to the adhesive manufacturer's detailed install instructions in the first instance when available. In the absence of detailed instructions from the adhesive manufacturer, you may refer to the instructions below.

Use a suitable caulking gun in combination with a compatible nozzle when applying MS polymer adhesive. A bead size of not less than 6 mm in diameter is recommended. Apply straight, continuous beads of MS adhesive along the length of the panel (if panels are to be installed vertically) or across the width of the panel (if panels are being installed horizontally) at no more than 600 mm intervals. The outermost adhesive beads must be placed approximately 30-50 mm away from the edge of the panel to avoid the adhesive from leaking at the edges when pressure is applied. Apply additional anti-pillowing 100 mm long beads between the continuous beads – see Figure 1 for details.

Ensure that the panel is installed before the adhesive forms a skin. Refer to the adhesive manufacturer's instructions for the skinning or skin over time. If the adhesive becomes skinned, it must be removed and replaced with fresh

adhesive prior to the installation of panels. Make sure always that the time between application of the adhesive and installation to the substrate is minimised. Guide the panel evenly into position and press the panel firmly on the centre, leaving the outer spaces untouched. Using a clean panel roller, apply enough pressure towards the ends and edges of the panel to ensure adequate adhesive contact and spread between the panel and the substrate. **Note:** If not enough pressure is applied while rolling, there is a high risk of the panel detaching from the substrate while the adhesive is curing.

Small wallpaper and vinyl rollers must not be used. A wide roller approximately 100-150 mm is ideal. Where the above recommended bead spacings do not provide adequate wet grab strength to support the panels whilst the adhesive cures, either increase the bead size or reduce the spacing between beads. Continue as above for all panels until complete.

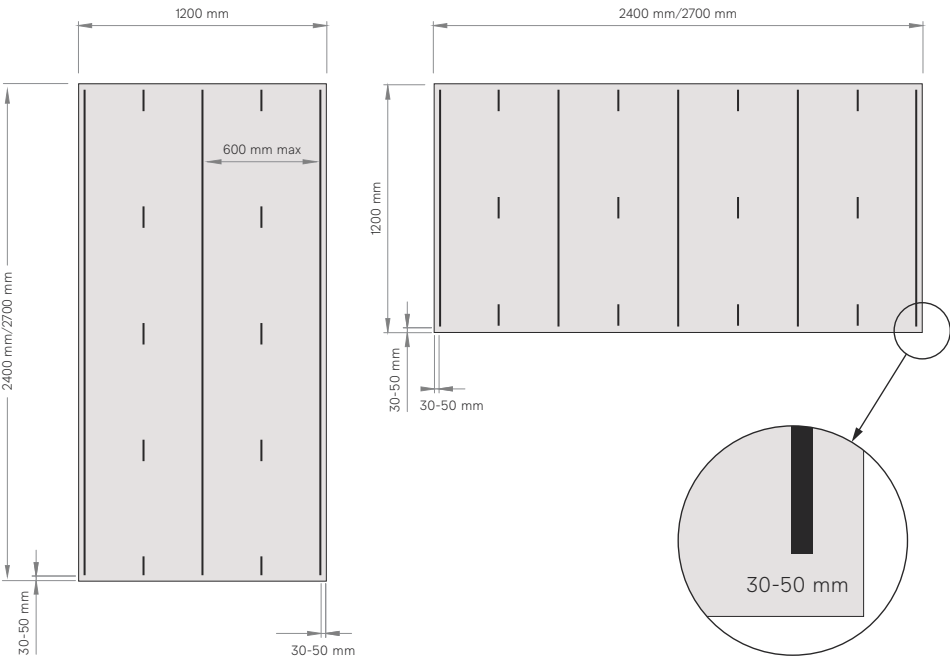


Figure 1



Install Mirage ceilings

Mirage can be installed to a flat ceiling substrate or direct fixed to battens.

When Mirage panels are installed overhead, high grab MS polymer adhesive is recommended.

Note: Mechanical fixings that are visible after install such as screws are not recommended for Mirage. When visible mechanical fastenings or screws are desired, consult your Autex Acoustics account manager for details on how to properly install Mirage using mechanical fixings.

Fix to ceiling substrate using adhesives

Mirage should be installed to a clean, flat ceiling substrate that is prepared in accordance with the recommendations listed above. For ease of installation, we recommend that you install each Mirage panel individually. This includes the application of a suitable high-quality adhesive (contact your local Autex Acoustics account manager for suitable options) and rolling the panel.

To ensure a tidy and flat installation, additional battens may be required, refer to 'Fix to battens' section.

Refer to the adhesive manufacturer's detailed install instructions in the first instance when available. In the absence of detailed instructions from the adhesive manufacturer, you may refer to the instructions below.

Use a suitable caulking gun in combination with a compatible nozzle when applying MS adhesive. A bead size of not less than 6 mm in diameter is recommended. Apply a straight continuous bead around the perimeter of the panel, leaving a 30-50 mm gap at the corners and ensuring that the perimeter bead is 30-50 mm away from the edges of the panel to avoid the adhesive from leaking at the edges when pressure is applied. Apply internal, continuous beads along the length or across the width of the panel at no more than 300 mm intervals. The internal beads should finish approximately 100 mm away from the perimeter beads. Please refer to Figure 2 for details.

Ensure that the panel is installed before the adhesive forms a skin. Refer to the adhesive manufacturer's instructions for the skinning or skin over time. If the adhesive becomes skinned, it must be removed and replaced with fresh adhesive prior to the installation of panels. Make sure always that the time between application of the adhesive and installation to the substrate is minimised.

Guide the panel evenly into position and press the panel firmly on the centre, leaving the outer spaces untouched. Using a clean panel roller, apply enough pressure towards the ends and edges of the panel to ensure adequate adhesive contact and spread between the panel and the substrate.

Note: If not enough pressure is applied while rolling, there is a high risk of the panel detaching from the substrate while the adhesive is curing.

Small wallpaper and vinyl rollers must not be used. A wide roller approximately 100-150 mm is ideal.

Where the above recommended bead spacings do not provide adequate wet grab strength to support the panels whilst the adhesive cures, either increase the bead size or reduce the spacing between beads. We recommend the use of temporary bracings or double-sided tape to hold the panels in place until the adhesive is completely cured.

Continue as above for all panels until complete.

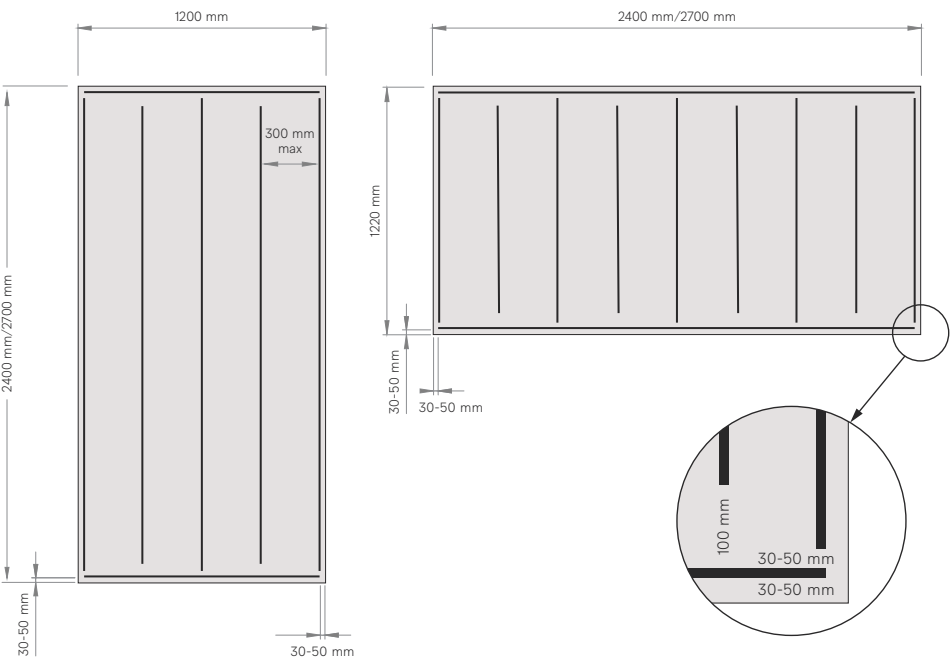


Figure 2



Fix to battens using adhesives

To ensure a tidy and flat installation, make sure the batten surfaces are flat and flush as Mirage panels will show any undulation caused by mismatched joints or protruding fixings.

Battens should be 35 mm minimum width and centres should be set at no more than 300 mm to reduce the potential of the Mirage panels pillowing or sagging. Apply a continuous bead of MS adhesive along the length of the batten. A bead size of not less than 6 mm in diameter is recommended. Leave a gap of approximately 30-50 mm between the adhesive beads and the edge of the panel. Where panels butt, allow a minimum 35 mm fixing area for each edge of the Mirage panel to ensure the edges can be securely fixed. This may require double-battening.

Ensure that the panel is installed before the adhesive forms a skin. Refer to the adhesive manufacturer's instructions for the skinning or skin over time. If the adhesive becomes skinned,

it must be removed and replaced with fresh adhesive prior to the installation of panels. Make sure always that the time between application of the adhesive and installation to the battens is minimised.

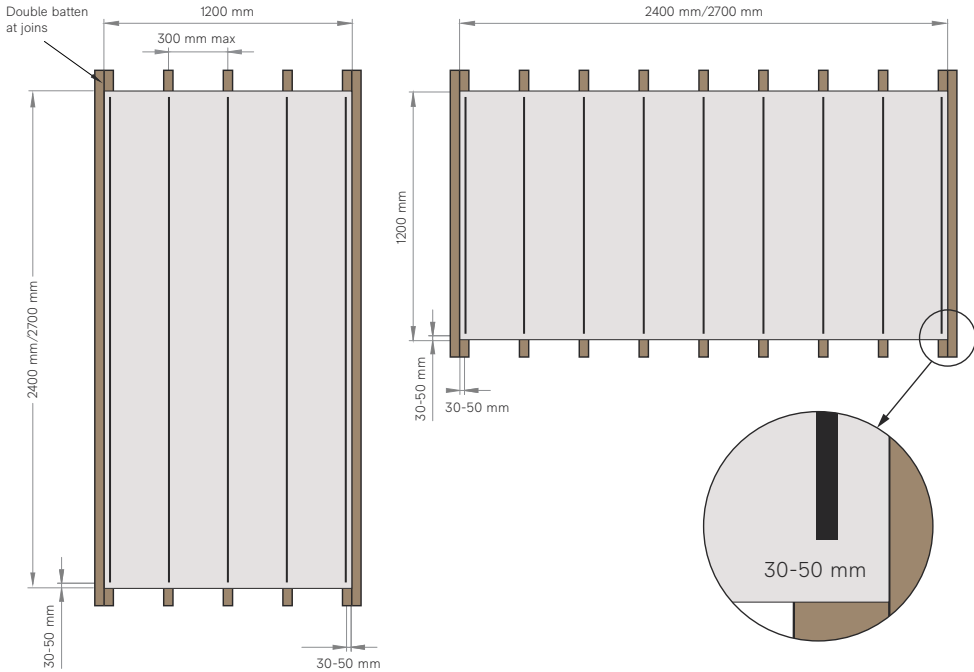
Using a clean panel roller, apply enough pressure towards the ends and edges of the panel to ensure adequate adhesive contact and spread between the panel and the battens.

Note: If not enough pressure is applied while rolling, there is a high risk of the panel detaching from the battens while the adhesive is curing.

Small wallpaper and vinyl rollers must not be used. A wide roller approximately 100-150 mm is ideal.

We recommend the use of temporary bracings to hold the panels in place until the adhesive is completely cured.

Continue as above for all panels until complete.



Cutting Mirage

When cutting Mirage, use a circular saw with a narrow blade with a minimum of 80 teeth. This will ensure a smooth cut. You may want to duct tape the saw's shoe so that it doesn't scratch up the surface as you cut. We recommend a trial cut on a small piece before proceeding with work. Alternatively Mirage can be cut with a steady hand and a sharp utility knife.

Mark off the line you want to cut using masking tape. Alternatively, you can use a reverse toothed high carbon steel jigsaw blade with ground teeth which cuts down rather than up, so top surface maintains its finish. This is also the best option for making curved cuts.

Fixtures

Remove cover plates, light fittings and other fixtures as the work proceeds. Replace, plumb, square and true to line as the work is completed.

Note: All electrical plumbing, fire safety appliances and fittings should only be removed and reinstalled by an appropriately qualified person.



Penetrations	The fire and acoustic performance of walls and ceilings can be reduced by penetrations for plumbing, electrical switches, light fittings etc. For walls or ceilings that require a Fire Resistance Level (FRL) and or are acoustically sensitive, it is recommended that, wherever possible, such penetrations are avoided. Where penetrations are necessary only appropriately rated proprietary sealants and fittings should be used.	If unsure, we recommend consultation appropriately qualified person is undertaken to ensure the building's performance objectives are maintained.
Replace	Replace damaged or marked elements.	
On completion	Leave work secure, smooth and free of air bubbles, wrinkles, gaps, stains and blemishes and to the standard required by following	procedures. Clean adjoining surfaces of any adhesive. Remove debris, unused materials and waste from site.
Service	For more information, contact your Autex Acoustics account manager or visit our website autexglobal.com	

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