



Wall and Ceiling Installation Guide

Timbertop Slat Panels

March 2022

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Preface & General

Wall & Ceiling Preparation

Before beginning the installation process, ensure that the surface is clean (free of any dust, flaking paint, loose debris or grime), structurally sound, dry and free of imperfections (cracks, holes etc). Wear gloves at all times throughout the installation process.

All panels are labeled with a sticker indicating the back of the panel. When cutting and fitting panels to fit the surface, consider which areas of the surface will contain the cut portions and try to apply the products as symmetrically as possible. It may help to measure and mark the space beforehand. Measure the panels against the surface and ensure they are straight and line up together accordingly. If required, use the utility knife and the straight edge to accurately cut the panels to the appropriate length, and cut out all penetrations. Timbertop Slat come delivered with a thin transparent protective film. Please ensure this is removed once installed.

Environmental Conditions

Timbertop panels are for interior use only. Only start the installation if the room is dry and the facade is closed, relative humidity is less than 70%, and a functioning HVAC system is in operation.

Ensure the work area is free of construction dust and debris, and that the site is well ventilated if adhesives are being used or panels are required to be cut. Avoid breathing in dust from cut panels. Wall and ceilings should also be adequately built to bear the respective loads.

Safety

The installation must be carried out according to all applicable building codes and regulations for occupational safety. The installation must be carried out according to the installation guidelines. This document is without entitlement of completeness. Variances must be clarified with the manufacturer.

The installation guidelines serve as the manufacturer's suggested method of installation. Installers should have the adequate amount of experience to execute the installation. The Installation must be carried out with the proper tools and understanding of safety measures so that no one is injured or endangered by the installation.

Warranty

Failure to follow the manufacturer's recommended installation instructions supplied and in effect at the time of the installation may void the warranty. Should there be any discrepancies between architectural plans and our installations, or questions regarding the installation process please contact our Acoufelt Customer Care Team for assistance before proceeding.

Storage and Handling

Panels must be stored in a dry interior location and shall remain on the pallet prior to installation to avoid damage. Panels shall not be stored under direct sunlight, near heating sources, or exposed to extreme temperatures. Panels installed with adhesives should be acclimated to room temperature prior to install. Follow the adhesive manufacturer's recommended operational temperature.

Direct with Adhesive

Wall and Ceiling Installation

Tools and materials required



Saw



Circular Saw



Caulking Gun



Clean Gloves



Screws



Level Laser



Straight Edge



Level



Pencil



Measuring Tape



Ladder



Utility Knife



Sponge Trowel

Preparation

1. Acoufelt recommends heavy duty construction adhesive. Please follow adhesive manufacturer's instructions for application and usage.
2. The adhesive will be supplied by the contractor. The adhesive used should be a fast grab type that provides an immediate secure bond and does not require any supplemental mechanical attachment.
3. Apply adhesive to panel as recommended by the adhesive manufacturer. For any questions or uncertainties, consult the adhesive manufacturer directly.
4. Preparing the surface for installation, dry fit (without adhesive) the panels. Measure the panels against the surface and ensure they are straight and line up. If required, use the utility knife and the straight edge to accurately cut the panels to the appropriate dimensions.
5. Trim off any excess material around joints, pipes, vents or lighting.

1 – Determine start point as per architectural plans



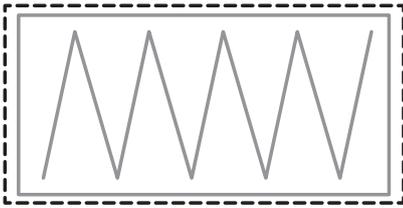
- a. Determine the start point of first row of panels. Ensure centerline of wall and ceiling is established as per architectural drawings and align center of slat or centre of reveal accordingly, to meet the design intent.
- b. It is recommended to use an alignment method such as laser or chalk line to make sure the panels are properly positioned and squared as per design intent.

2 – Apply the caulk or construction adhesive



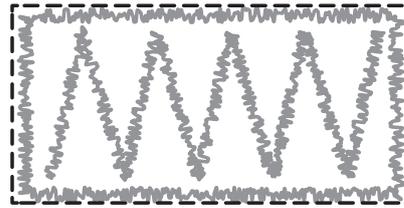
- c. Using the caulking gun and construction adhesive, apply the adhesive around the inner edge of the ceiling panel. To avoid adhesive flowing through the joints when the panels are installed, apply the adhesive two finger widths away from the corner / joint, then apply adhesive in a zig zag pattern across the centre of the panel. (see fig a)
- d. Apply the spray adhesive around the inner edge of the panel, 50-100mm widths away from the panel perimeter. Wait 5-10 minutes for the adhesive to become tacky before installing the panels. (see fig b)

Fig. a: Apply the construction adhesive



- Panel installation area
- Construction adhesive

Fig. b: Apply the spray adhesive



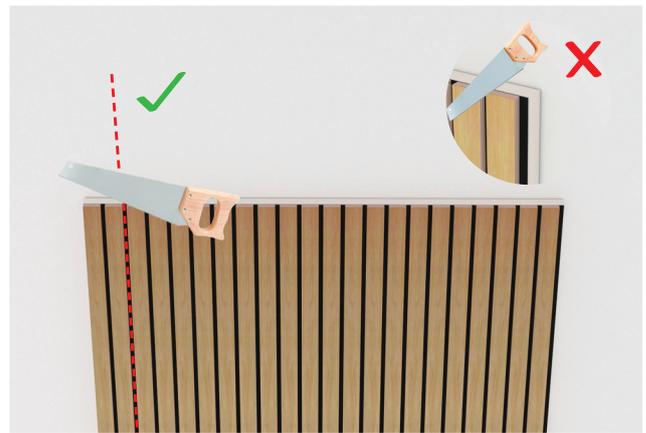
- Panel installation area
- ~~~~~ Spray adhesive

3 – Hand pressure to the panel



- e. Once in position, apply even hand pressure to the panel where the adhesive is located. Start at the center of the panel, and work toward the edges. It is recommended that a sponge trowel be used to ensure all glue spots are properly compressed.
- f. Fast grab adhesives provide an immediate bond, but have several minutes of worktime, allowing for proper alignment before panel is finally set. Perform adjustment immediately.
- g. For panel assemblies that are adjacent to one another, it is recommended that a finish nail or small screw is used to lock panel in place when installing adjacent panels; place nails on Felt portion only, between wood slats. Avoid excessive movement to minimize panel shifting that could dislodge previously pressed areas and release the adhesive.

4 – Termination at edges



- h. Panels have a left and right factory edge condition which is not equal, therefore field cutting will be necessary regardless of edge condition, as approved by architect.
- i. We recommend cutting on the wood side and allowing for a wood trim to be butt jointed on the side of the panel when sides are exposed. There is no need for trim on recessed or flush adjacencies.
- j. If architects calls-out a metal trim; procure and install trim as specified by design professional, manufactured by others.

Direct with Screws

Wall and Ceiling Installation

Tools and materials required



Saw



Circular Saw



Clean Gloves



Screws



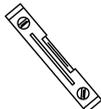
Wall Plugs



Screwdriver



Level Laser



Level



Drill



Pencil



Measuring Tape



Ladder

Preparation

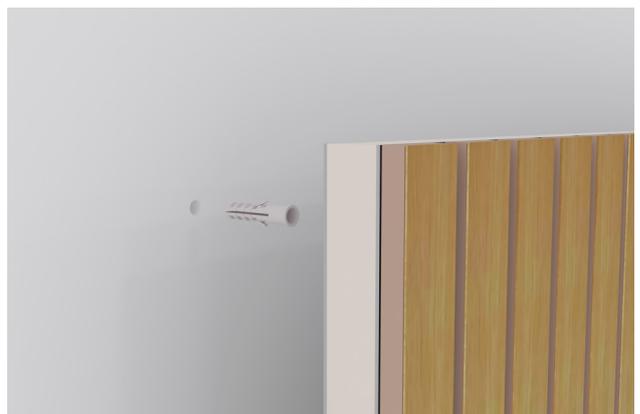
1. Screw(s) and plug(s) for the wall are not included. Assess the suitability of the wall to ensure that it will withstand the forces generated. Minimum 12 screws and wall plugs are required per panel, use screw(s) and plug(s) suitable for your walls and the intended load. If you are uncertain, seek external professional advice.
2. Prepare the wall surface for installation, use matching caulk to fill in any unwanted cracks in joints.
3. Wear clean white gloves throughout the installation process.
4. Preparing the surface for installation, dry fit (without adhesive) the panels. Measure the panels against the surface and ensure they are straight and line up. If required, use the utility knife and the straight edge to accurately cut the panels to the appropriate dimensions.

1 – Determine start point as per architectural plans



- a. Determine the start point of first row of panels. Ensure centerline of wall and ceiling is established as per architectural drawings and align center of slat or centre of reveal accordingly, to meet the design intent.
- b. It is recommended to use an alignment method such as laser or chalk line to make sure the panels are properly positioned and squared as per design intent.

2 – Drill the wall and insert plugs



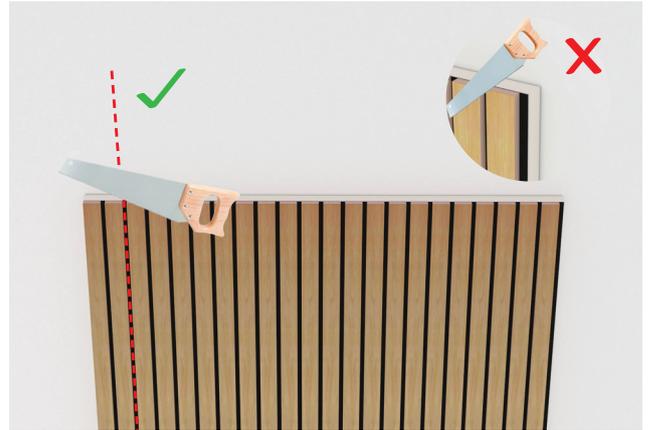
- c. Using a drill, screw the required number of holes into the marked locations on the wall surface, provide proper spacing for a minimum of 12 wall plugs and screws. Insert corresponding toggle plugs. You will now be ready to proceed with installing the Timbertop slat panel.

3 – Direct attachment to wall



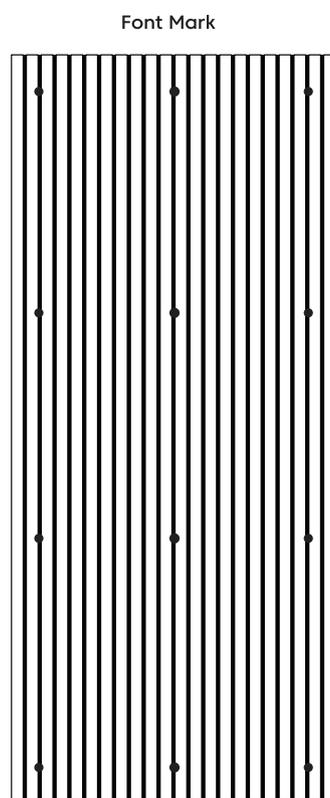
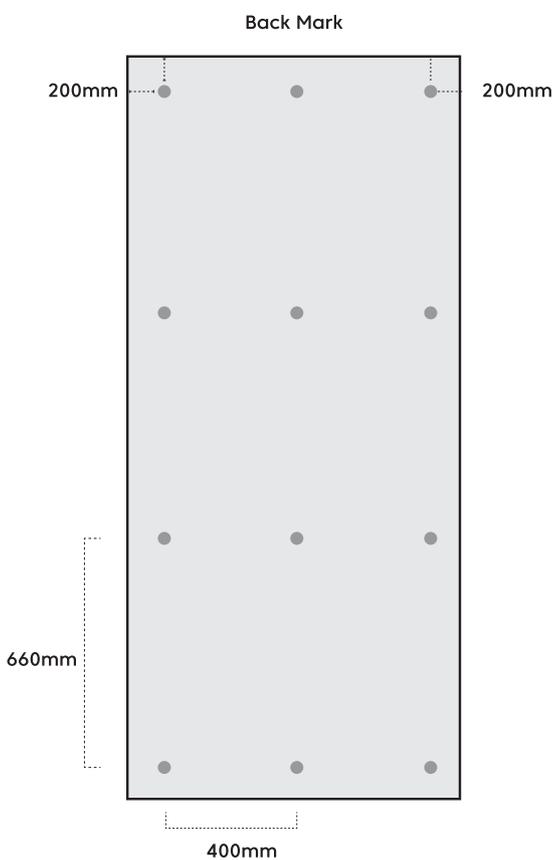
- d. Direct attachment to wall requires wall / ceiling framing to be perpendicular to wood slats. All fasteners are to be installed on the Felt portion of the panel and not on the wood.
- e. Screw spacing shall be no more than 200mm from panel edge on both sides. With maximum spacing between screws along panel length approx. 660mm and 400mm max along the short side of the panel.

4 – Termination at edges



Notes

- Panels have a left and right factory edge condition which is not equal, therefore field cutting will be necessary regardless of edge condition, as approved by architect.
- We recommend cutting on the wood side and allowing for a wood trim to be butt jointed on the side of the panel when sides are exposed. There is no need for trim on recessed or flush adjacencies.
- If architects calls-out a metal trim; procure and install trim as specified by design professional, manufactured by others.



Furring Strip

Wall Installation

Tools and materials required



Saw



Circular Saw



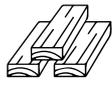
Clean Gloves



Screws



Wall Plugs



Furring Strip



Level Laser



Level



Drill



Pencil



Measuring Tape



Ladder

Preparation

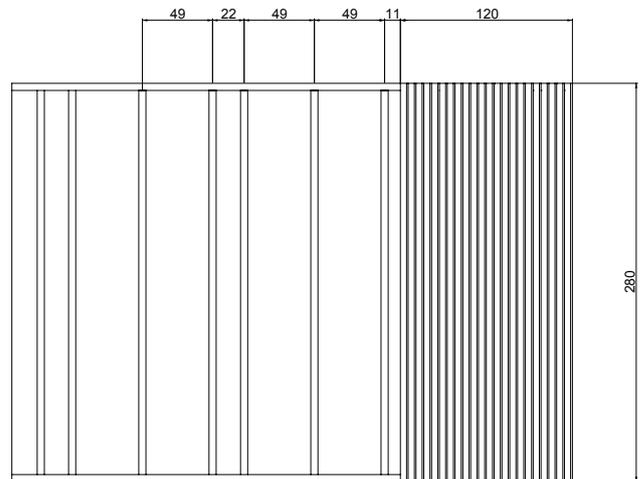


1. The furring must be attached to the structure and can carry the load of the furring and panels. Providing guidance on attachment is outside Acoufelt's scope of practice. Please instead rely on guidance from an external professional.
2. Furring strips shall be installed (by others) and leveled to within 6mm over 3000mm, to ensure a plumb surface.
3. Minimum 12 screws are required per panel.

1 – Determine start point as per architectural plans



- a. Determine the start point of first row of panels. Ensure centerline of wall and ceiling is established as per architectural drawings and align center of slat or centre of reveal accordingly, to meet the design intent.
- b. It is recommended to use an alignment method such as laser or chalk line to make sure the panels are properly positioned and squared as per design intent.



*Recommended furring strip

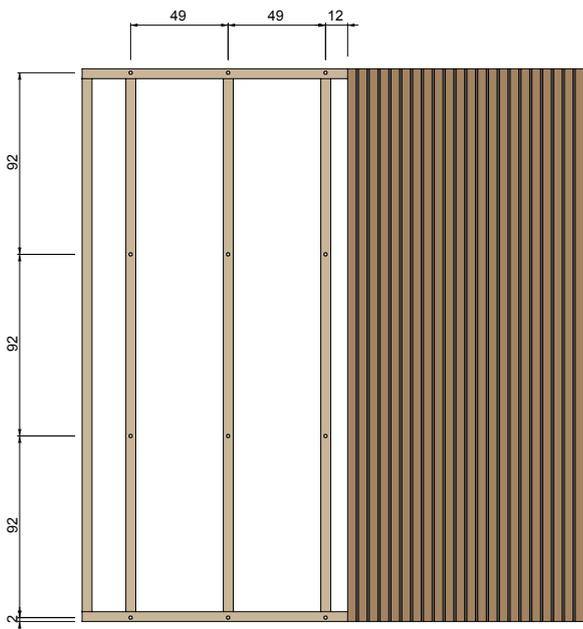
2 – Direct attachment to furring



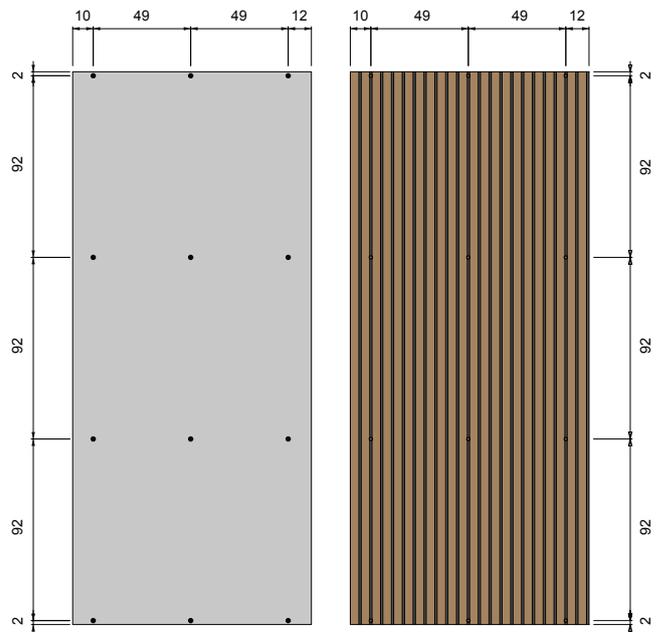
c. Direct attachment to furring requires the furring to be perpendicular to wood slats and provide proper spacing for a minimum of 12 screws. All fasteners are to be installed on the Felt portion of the panel and not on the wood.



d. Screw spacing shall be no more than 200mm from panel edge on both sides. With maximum spacing between screws along panel length approx. 660mm and 400mm max along the short side of the panel, furring strips should be positioned accordingly.



*Recommended marking points on furring strip



Back panel marks

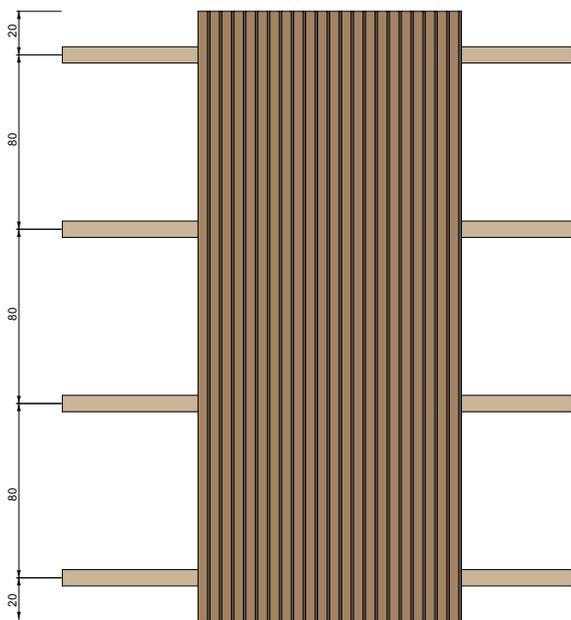
Front panel marks

3 – Preparation (horizontal line)

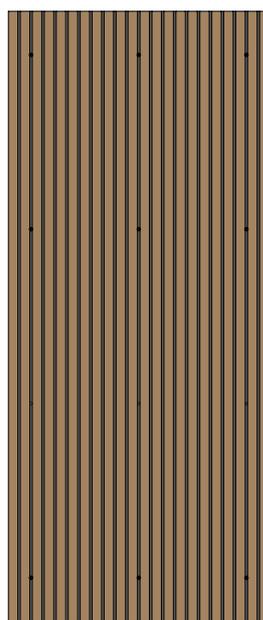


e. The furring must be attached to the structure and can carry the load of the furring and panels. Providing guidance on attachment is outside Acoufelt's scope of practice. Please instead rely on guidance from an external professional.

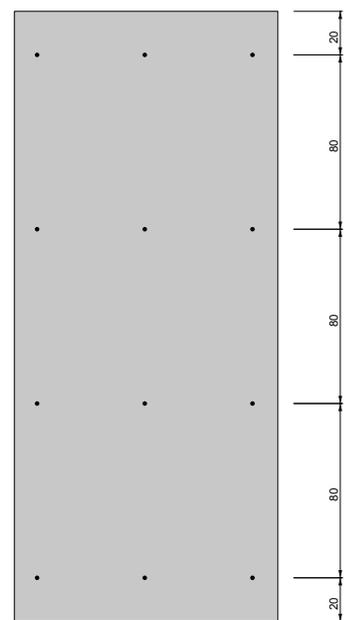
f. Furring strips shall be installed (by others) and leveled to within 6mm over 3000mm, to ensure a plumb surface.



*Recommended marking points on furring strip



Back panel marks



Front panel marks

T-Grid System (visible frame)

Ceiling Installation

Tools and materials required



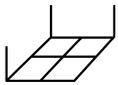
Saw



Circular Saw



Clean Gloves



T-Grid System



Drill



Pencil

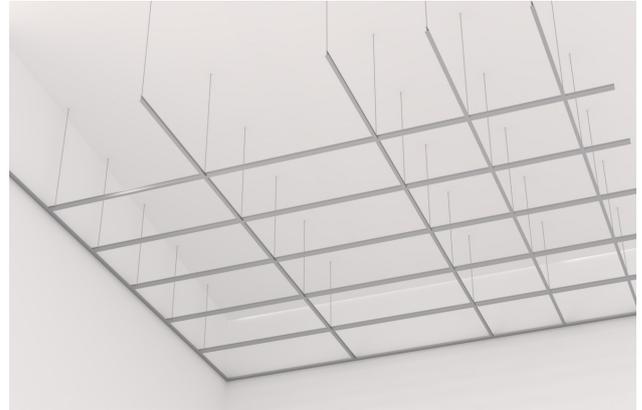


Measuring Tape



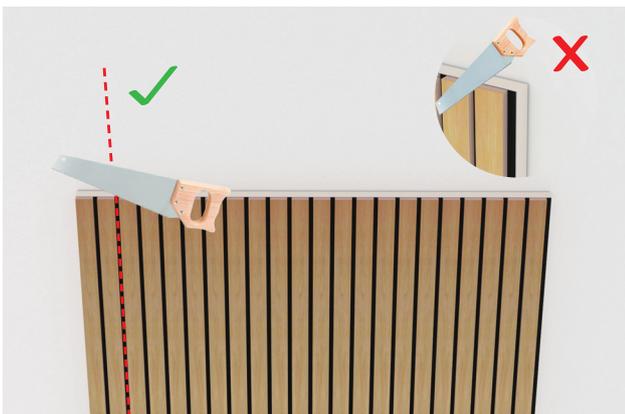
Ladder

Preparation



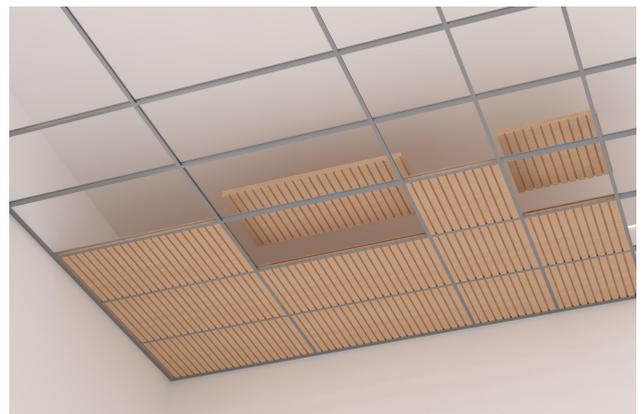
1. Before installing your tiles, ensure the grid has been installed in accordance with the local building code.
2. Wear clean white gloves throughout the installation process.

1 – Defined measurement and cut panel



- a. Once the grid has been installed to the required measurements and height, carefully cut penetrations in panel for heat sensors, around sprinkler heads and light fittings as required.
- b. If the panel doesn't fit the prepared spot, slightly cut off the excess to the defined measurement.

2 – Gently drop the ceiling panel



- c. Gently drop the ceiling panel into position by angling the panel slightly, lifting it above the ceiling grid and placing it into position so that it is resting on the top of the grid.
- d. Repeat these steps until all tiles are installed.

T-Grid System (invisible frame)

Ceiling Installation

Tools and materials required



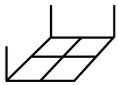
Saw



Circular Saw



Clean Gloves



T-Grid System



Drill



Pencil

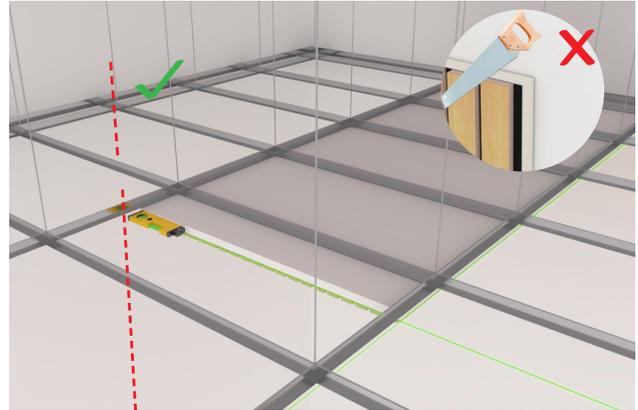


Measuring Tape



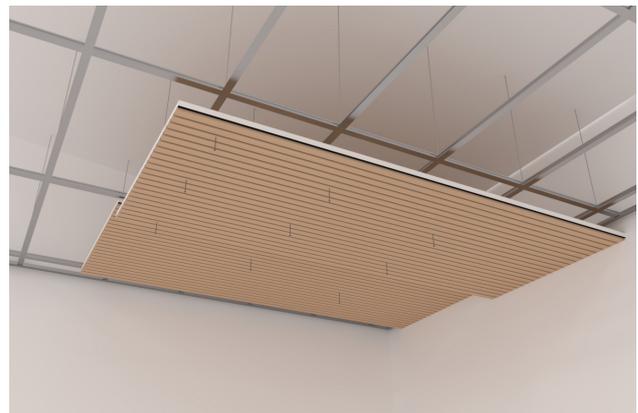
Ladder

1 – Measure the location of the hanging point



- Determine the start point of the first row of panels. Ensure centerline of ceiling is established as per architectural drawings and align center of slat or reveal accordingly, to meet the design intent.
- Carefully cut penetrations in panel for heat sensors, around sprinkler heads and light fittings as required.

2 – Direct attachment to T-Grid



- Direct attachment to T-grid requires the furring to be perpendicular to wood slats and provide proper spacing for a minimum of 12 screws. All fasteners are to be installed on the Felt portion of the panel and not on the wood.
- Screw spacing shall be no more than 200mm from panel edge on both sides. With maximum spacing between screws along panel length approx. 660mm and 400mm max along the short side of the panel, T-grid should be positioned accordingly.

Magnet System (pot magnet)

Wall Installation

Tools and materials required



Saw



Circular Saw



Clean Gloves



Level Laser



Level



Drill



Pencil



Measuring Tape



Ladder



Screws

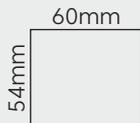


Wall Plugs

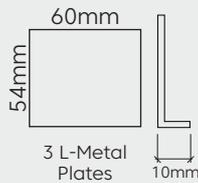
PROVIDED WITH PANELS



9 Pot Magnets



6 Metal Plates

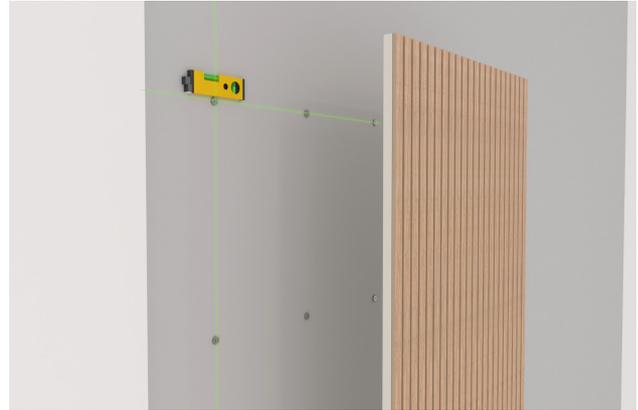


3 L-Metal Plates

Preparation

1. Minimum of 9 screw(s) and plug(s) are required per panel. Assess the suitability of the wall to ensure that it will withstand the forces generated. Use screw(s) and plug(s) suitable for your walls and the intended load. If you are uncertain, seek external professional advice.
2. Prepare the wall surface for installation, use matching caulk to fill in any unwanted cracks in joints.
3. Wear clean white gloves throughout the installation process.
4. Preparing the surface for installation, dry fit (without adhesive) the panels. Measure the panels against the surface and ensure they are straight and line up. If required, use the utility knife and the straight edge to accurately cut the panels to the appropriate dimensions.
5. Acoufelt can provide the metal plates adhered to the back side of the panel on request. Please inform the Customer Care Team at point of purchase.

1 – Determine start point as per architectural plans



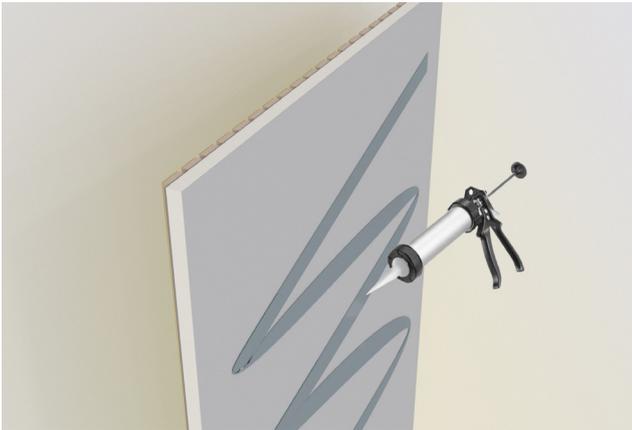
- a. Use a straight edge and measuring tape to mark the wall for attaching the 9 pot magnets in a configuration of 3 along top, 1 row in middle and bottom of the panel. Note: the placement of magnets on the wall will need to line up with the metal plates on the back of the panel.

2 – Drill the wall and insert plugs



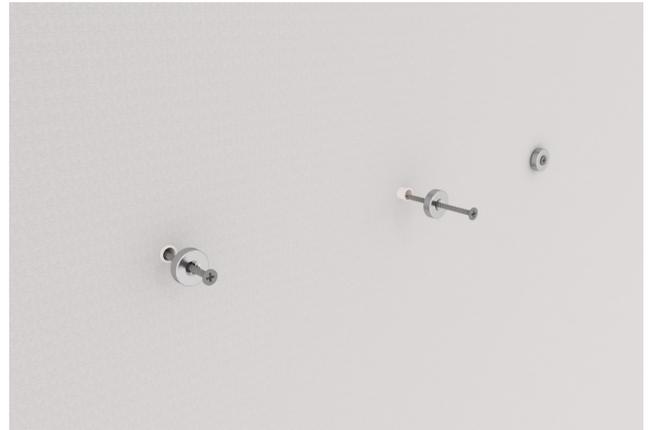
- b. Using a drill, screw the required number of holes into the marked locations on the wall surface, provide proper spacing for a minimum of 9 wall plugs and screws. Insert corresponding toggle plugs. You will now be ready to proceed with installing the Timbertop slat panel.

3 – Apply adhesive to metal plates and attach to back of the panel



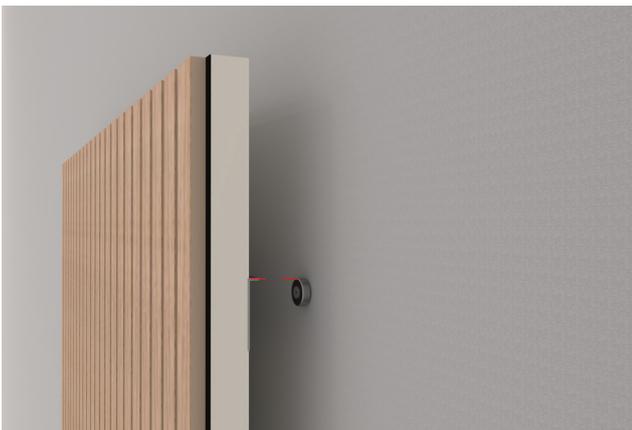
- c. Mark out the corresponding attachments for metal plates on the panel in the same configuration (3 L-metal plates along top, 3 row in middle and bottom of the panel).
- d. Ensure that the L metal mounts are aligned horizontally to maintain the correct vertical alignment of the panel. Glue the metal plates to the back of the panel in marked locations. The glue will need to cure for approximately 12 hours before attaching panel to the wall. A longer curing time may be required in colder conditions.

4 – Screw the 12 pot magnets to the wall



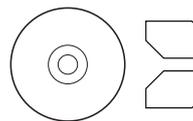
- e. Screw the 9 pot magnets to the wall using appropriate 6g screws for substrate. Ensure that the L metal plate captures the pot magnet. This will ensure that the panel doesn't slip down during installation.

5 – Attach panel with metal plate to the magnet on wall

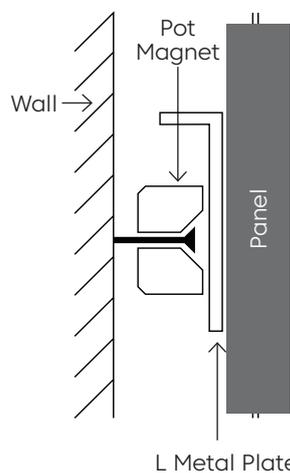


- f. Once the glue has cured, install by lining up the metal plates on the back of the panel with the pot magnets on the wall, and attaching into place.

Pot Magnet

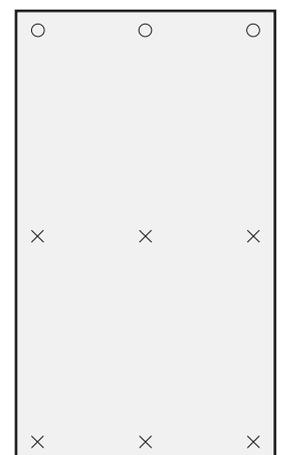


**Wall Pot Magnet Install
L Plate + Metal Plate**



L Plate Wall + Metal Plate Configuration

○ L Metal Plate × Metal Plate



Magnet System (metal furring)

Ceiling Installation

Tools and materials required



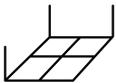
Saw



Circular Saw



Clean Gloves



Metal Furring



Ladder



Measuring Tape



Drill

PROVIDED WITH PANELS



9 Pot Magnets

Preparation

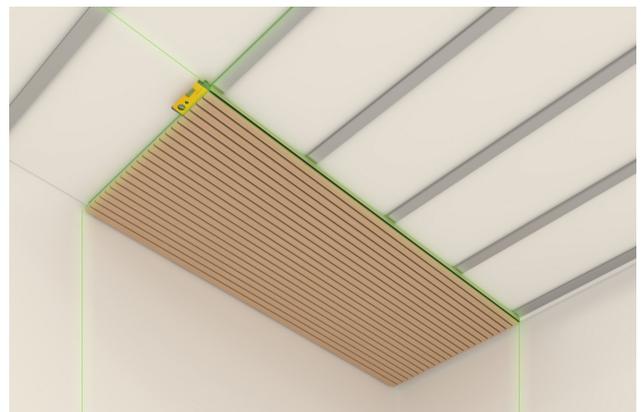
1. Prepare the ceiling surface for installation, using available resources to fill any unwanted cracks.
2. Wear clean white gloves throughout the installation process.
3. Depending on the ceiling material and type of fixing, plugs and screws must be suitable for the ceiling surface and used as recommended by the manufacturer.

1 – Screw magnet to the back of the panel



- a. Mark out the corresponding furring strip to magnet alignment on rear of panel prior to applying the pot magnets to the panel.
- b. The magnets will need to be field applied to the back of the panel before installation. The magnets have a countersunk hole in the center to allow for screw attachment to the panel, the use of construction adhesive is recommended along with the fastener.

2 – Determine start point as per architectural plans



- c. It is recommended to use an alignment method such as laser or chalk line to make sure the panels are properly positioned and squared as per design intent.

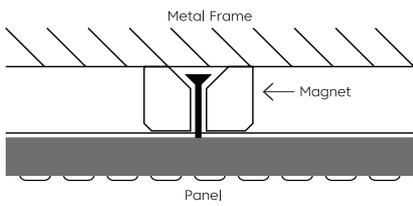
3 – Attach panel with magnet into metal furring



d. Magnet spacing shall be no more than 225mm from panel edge on both sides. With maximum spacing between screws along panel length approx. 660mm and 400mm max along the short side of the panel, furring strips should be positioned accordingly.

e. Project specific installation instruction will be provided for custom applications.

Pot Magnet Install + L Plate



Pot Magnet



Z-Clip Rail System

Wall Installation

Tools and materials required



Saw



Circular Saw



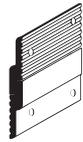
Clean Gloves



Screws



Wall Plugs



Z-Clip Rail



Level Laser



Level



Drill



Pencil



Measuring Tape



Ladder

Preparation

1. Screw(s) and plug(s) for the wall are not included. Assess the suitability of the wall to ensure that it will withstand the forces generated. Use screw(s) and plug(s) suitable for your walls and the intended load. If you are uncertain, seek external professional advice.
2. Prepare the wall surface for installation, use matching caulk to fill in any unwanted cracks in joints.
3. Wear clean white gloves throughout the installation process.
4. Preparing the surface for installation, dry fit (without adhesive) the panels. Measure the panels against the surface and ensure they are straight and line up. If required, use the utility knife and the straight edge to accurately cut the panels to the appropriate dimensions.

1 – Determine start point as per architectural plans



a. Determine the location and layout of where the panel(s) will be mounted to the wall (fig. a). Ensure brackets line up with the z-clips and use construction adhesive to adhere the z-clips both to the wall and behind the panels (fig. b).

b. Mirror mounting locations from panels onto the wall to line up with the z-clips on the back of the panels (fig.c).

fig. a

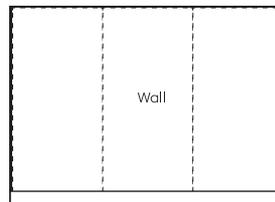


fig. c

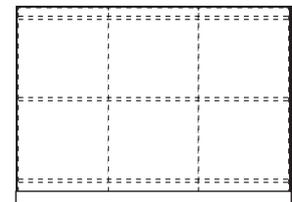
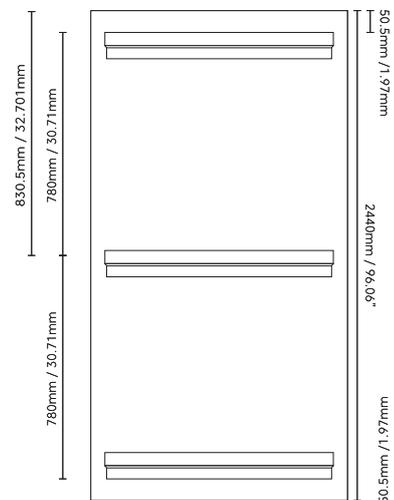


fig. b



2 – Securing Z-Clip to wall

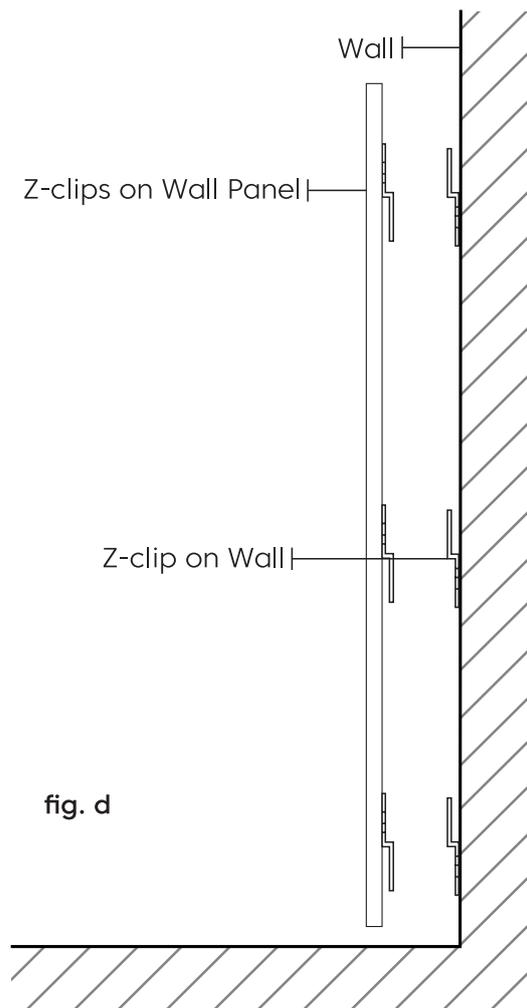


- c. Mark out the attachment point for the z-clip onto the wall that the panel will be installed on. We recommend a spacing minimum of 9 wall plugs and screws per panel. Insert the wall plugs in the wall, and attach the z-clip to the wall using the screws and drill.
- d. Secure the z-clip to the panel to correspond with the wall z-clip with appropriate screws.

3 – Slide panel Z-Clip onto the wall Z-Clip

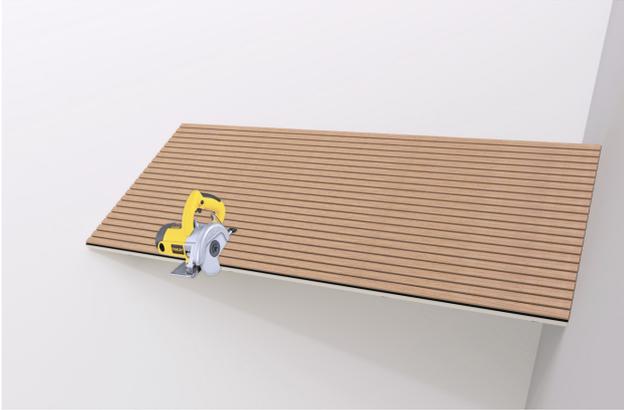


- e. Slide panel z-clip onto the wall z-clip. Ensure panels will mount plumb and level. Repeat these steps for multiple panels (fig.d). Please ensure the panels are well butted together at joints to allow for pattern matching.

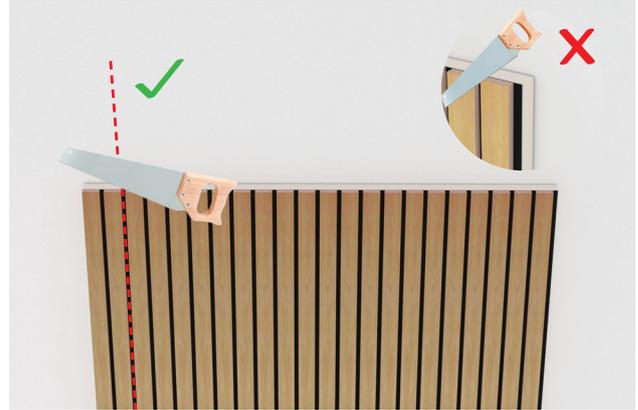


Cutting Panel

Installation Tips



When cutting through PET, use a box knife. When cutting through MDF slat, use a handsaw or circular saw. Use masking tape to prevent splintering or splinting.



Panels have a left and right factory edge condition which is not equal, therefore field cutting will be necessary regardless of edge condition, as approved by architect.

We recommend cutting on the wood side and allowing for a wood trim to be butt jointed on the side of the panel when sides are exposed. There is no need for trim on recessed or flush adjacencies.

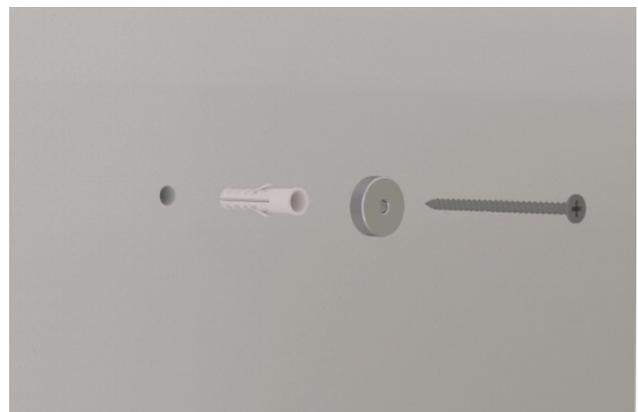
If architects calls-out a metal trim; procure and install trim as specified by design professional, manufactured by others.

Screws

Installation Tips



Attach Timbertop slat by screwing through panel felt portion in between wooden slats.



Screw(s) and plug(s) for the wall are not included. Assess the suitability of the wall to ensure that it will withstand the forces generated. Use screw(s) and plug(s) suitable for your walls and the intended load.

If you are uncertain, seek external professional advice. Read and follow each step of the instruction carefully.

Shiplap

Installation Tips



Use the pre-made shiplap joint to maintain even spacing and to avoid visible seams.



Corners

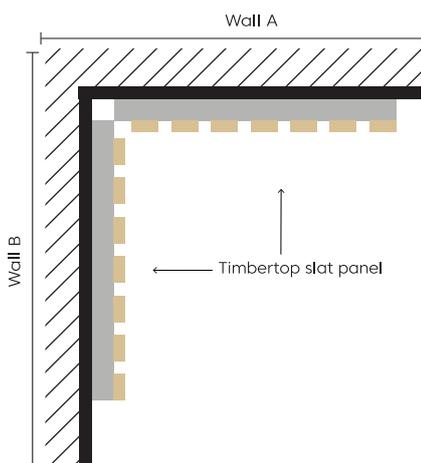
Installation Tips

Tools and materials required

- Stanley knife/cutting tool
- Measuring tape/straight edge

Steps

1. Account for the panel thickness gap on each wall.
2. Cut the material using a straight edge and stanley knife.
3. Make sure to work from the corner outwards so the design butts perfectly.



Adhesives

The adhesives listed below are recommended for the installation of Acoufelt Timbertop. Please check against adhesive manufacturer guidelines for recommended install and warranty information prior to use.

- Soudal
- Selleys heavy duty
- Titebond GREEN choice

* Refer to Adhesive manufacturer for instructions on the appropriate method of use

Installation Coordination

- Coordinate layout and installation of each ceiling system type and suspension system with other construction that penetrates ceiling or is supported by them. This includes light fixtures, HVAC equipment, fire suppression system, life safety equipment, AV equipment, and partitions.
- When an additional layer of material is being added to the wall the electrician should set the box to be coordinated with the finish surface thickness of the specified wall and the finish. If the felt surpassed the electrical box an extender can be installed for flush alignment.
- Access panels can be incorporated onto the Timbertop panels. A 600mm x 600mm panel can be provided and made accessible for access to the plenum above. The standard access panel is provided with magnets for accessibility.
- Ensure perimeter conditions are as per contract documents.

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