



AMB | ENCE

BY HIMMEL™

INSTALLATION GUIDE

Ambience by Himmel

The Himmel Collection is designed for interior use only.

Before you Start

Confirm the correct material and colour has been supplied and the product is free from damage or faults. Tolerance variation may exist and should be considered during installation.

Store products indoors on a flat solid surface in a clean, dry, cool place away from moisture or humidity. Keep away from sources of heat and direct sunlight. It is recommended to wear clean gloves when handling to prevent marking.

This installation guide contains recommendations that are general in nature. Installation should be undertaken by two or more experienced tradespersons. CSR Himmel accepts no responsibility for the installation undertaken.

Ambience 3D Tile – Drop-in Ceiling Grid

Ambience 3D Ceiling Tiles can be installed in new or existing ceiling grids. Ambience 3D Tiles are designed for 600 x 600 mm grid spacing. For new ceiling grids, ensure grid is installed to manufacturer's specifications.

Note: Due to the profile of the Ambience 3D Ceiling Tiles, only a full tile can be used. Therefore, the ceiling grid needs to be design to accommodate full tiles only. Tiles cannot support any additional back loading.

Installation Steps

1. Read all these instructions prior to installation.
2. Remove tiles from box carefully.
3. Drop-in into the ceiling grid either from above or through the grid at an angle. Take care not to bend or mark the tiles.
4. For penetrations, holes can be cut through the flat face of the tiles using a hole saw. 3D Ceiling Tiles cannot support any weight. Therefore, all penetrations must be self-supporting.
5. If ceiling tiles are being installed in a high wind area, it's recommended to use Rondo Hold Down Clips. Use four (4) clips per tile.
6. Complete the installation.

Ambience 3D Tiles – Wall Mounted

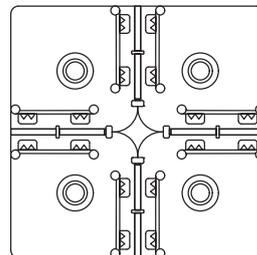
Tools & Equipment

- Measuring tape
- Right Angle
- Ruler or straight edge
- Pencil
- Clean cloth

Installation Steps

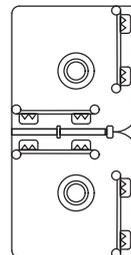
1. Read all these instructions prior to installation.
2. Install on a solid, flat wall. Ensure wall substrate is smooth, dry and free of dust. Wipe down wall surface with clean dry cloth.
3. Pre-conceptualise the pattern layout before installation by laying the Ambience 3D Tiles in pattern on the floor.
4. Measure the wall's height and width.
5. Determine the area where the Himmel 3D Tiles will be mounted and measure up from the floor and draw a straight line along the bottom of the area.
6. Draw a vertical line 90° to the straight line at the corner of the installation area.
7. From the first left-hand corner, measure 575 mm centres and mark on the horizontal and vertical lines.
8. Prepare the Ambience 3D Tile clips. Clips are supplied unit which can be snapped into the following configuration depending on the join:

4 Corners



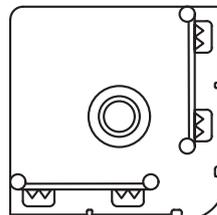
For each join where four (4) lines meet, leave the clip whole.

2 Corners



For each join where two (2) lines meet, snap the clip in half.

Edge Corner



For each of the 4 edge corners, snap the clip into quarters and use one (1) quarter.

9. Mechanically fix the clip into the wall using fixings appropriate for the substrate. Do not use glue or other adhesives to attached clips on the substrate.
10. Use a tile to check continuously check spacing between clips.
11. Once all the clips are fixed to the wall, place the Himmel 3D Tile onto the clips working from the bottom left, up and across to the right.

Ambience Baffle

To be installed with Himmel Baffle Suspension Kits applicable to your application. It's recommended two (2) suspension kits sets per 1200 mm long baffle. Please ensure you have the correct number of suspension kits prior to attempting installation. Each suspension fixing has a maximum weight load of 2 kg.

Ambience Baffle Suspension Kits (sold separately)

| PRODUCT | ORDER CODE |
|--|------------|
| Ambience Baffle Ceiling Grid Kit 1m length | 185654 |
| Ambience Baffle Concrete Soffit 1m length | 185656 |
| Ambience Baffle Plasterboard 1m length | 185656 |

To place an order, contact Himmel Customer Service on 1300 374 253 or via email info@himmel.com.au

Tools and Equipment

Hammer drill

Pencil

5 mm drill bit

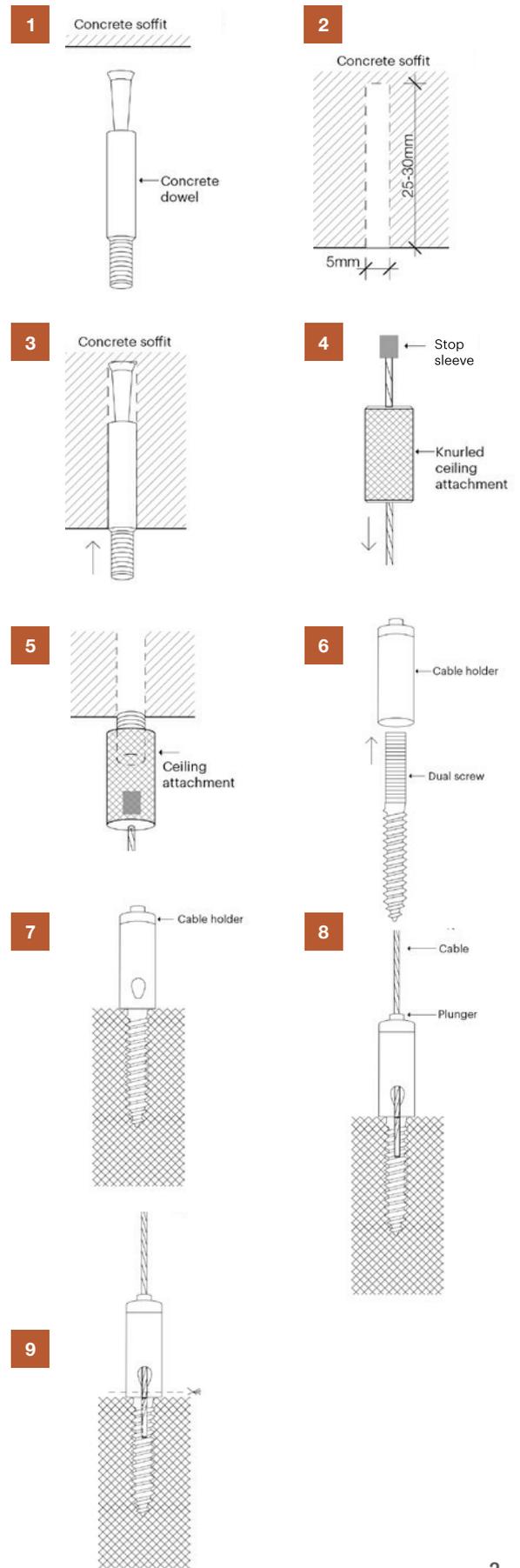
Hole punch

Cable cutter

Ambience Baffle For Concrete Soffit

1. Determine the location of the cloud fixing on the soffit and mark with pencil.
2. Drill a 25-30 mm hole using a 5 mm drill bit. Ensure not to drill too deep. Maximum drilling depth is 32 mm.
3. Drive in concrete dowel using a plastic mallet and hole punch leaving thread exposed at base of ceiling. Be careful not to damage the thread.
4. Feed cable (soldered end) through the knurled ceiling attachment so stop sleeve is in the ceiling attachment.
5. Screw ceiling attachment to the threaded dowel and suspend the cable.
6. Take the dual screw and thread onto cable holder.
7. Select position of fixing on side of acoustic baffle and mark with a pencil. It is recommended 250 mm from the baffle end. Screw the dual screw into the acoustic baffle. Do not over tighten or screw in and out unnecessarily.
8. Feed cable into cable plunger. Pull through until desired height. Adjust height by pressing the plunger at top to move the holder up and down.
9. Level baffle and cut excess cable with cable cutters

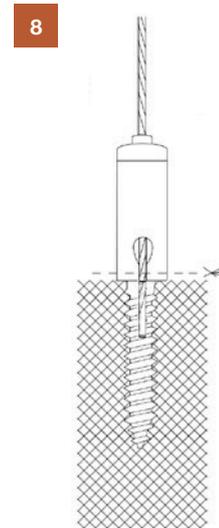
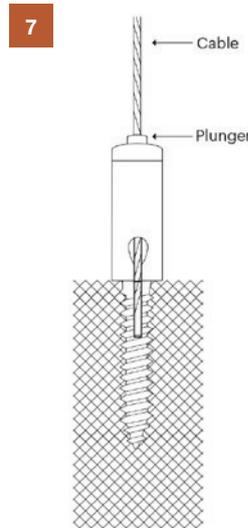
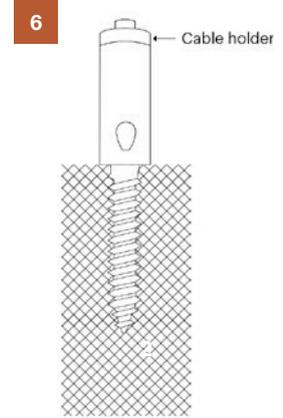
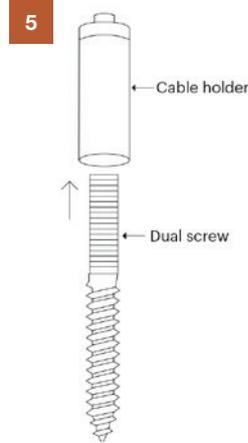
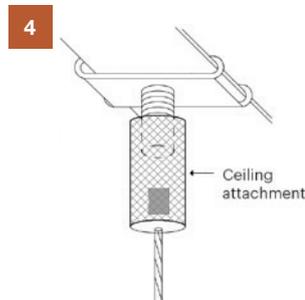
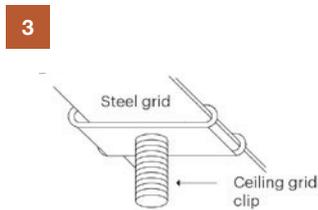
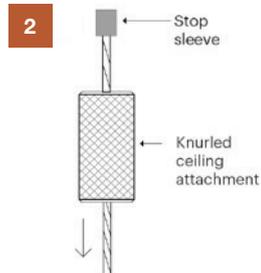
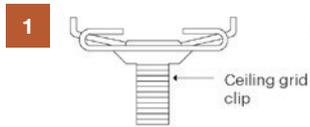
Note: Adequate anchoring may be applicable as required under AS 1170.4.



Ambience Baffle For Ceiling Grid

1. Determine the location of the baffle fixing on the ceiling grid and mark with pencil. Refer to the ceiling grid manufacturer's weight loading guidelines to ensure the grid can support the load.
2. Feed cable (soldered end) through the knurled ceiling attachment so stop sleeve is in the ceiling attachment.
3. Fit the ceiling grid clip to steel grid by placing on a 45-degree angle. Push up so the ceiling grid clip legs are depressed. At the same time turn the ceiling grid clip clockwise into position.
4. Screw ceiling attachment to the threaded dowel and suspend the cable.
5. Take the dual screw and thread onto cable holder.
6. Select position of fixing on the side of the acoustic baffle and mark with a pencil. It is recommended 250 mm from the baffle end. Screw the dual screw into the acoustic baffle. Do not over tighten or screw in and out unnecessarily.
7. Feed cable into cable plunger. Pull through until desired height. Adjust height by pressing the plunger at top to move the holder up and down.
8. Level baffle and cut excess cable with cable cutters.

Do not butt Ambience Baffle end to end. Ensure there is a minimum gap of 50 mm between baffle ends.



Ambience Cloud

To be installed with Himmel Cloud Suspension Kits applicable to your application. Please ensure you have the correct number of suspension kits prior to attempting installation. Each suspension fixing has a maximum weight load of 13.5kg.

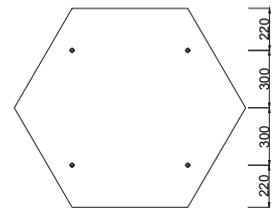
Ambience Cloud Suspension Kits (sold separately)

| PRODUCT | ORDER CODE |
|---|------------|
| Ambience Cloud Ceiling Grid Kit 1m length | 185653 |
| Ambience Cloud Concrete Soffit 1m length | 185655 |
| Ambience Cloud Plasterboard 1m length | 186056 |

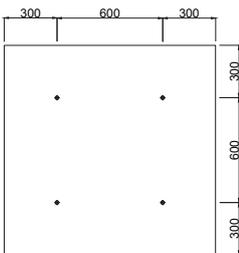
To place an order, contact Himmel Customer Service on 1300 374 253 or via email info@himmel.com.au

| SHAPE | KITS REQUIRED PER CLOUD |
|-----------|-------------------------|
| Square | 4 |
| Circle | 3 |
| Rectangle | 6 |
| Triangle | 3 |
| Pentagon | 4 |
| Hexagon | 4 |
| Heptagon | 4 |
| Octagon | 4 |

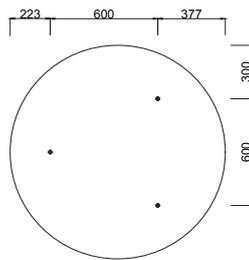
Hexagon



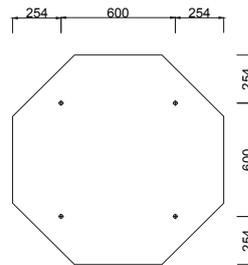
Square



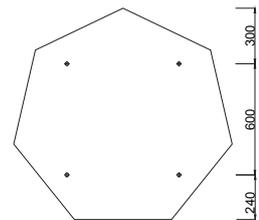
Circle



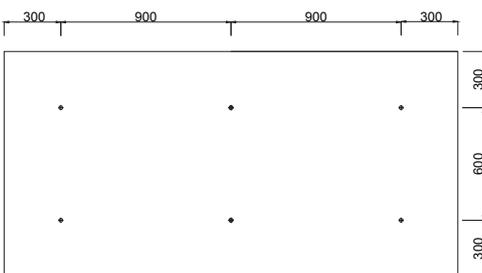
Octagon



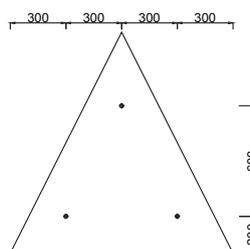
Heptagon



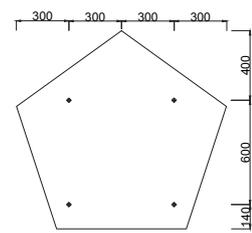
Rectangle



Triangle



Pentagon



Ambience Cloud For Concrete Soffit

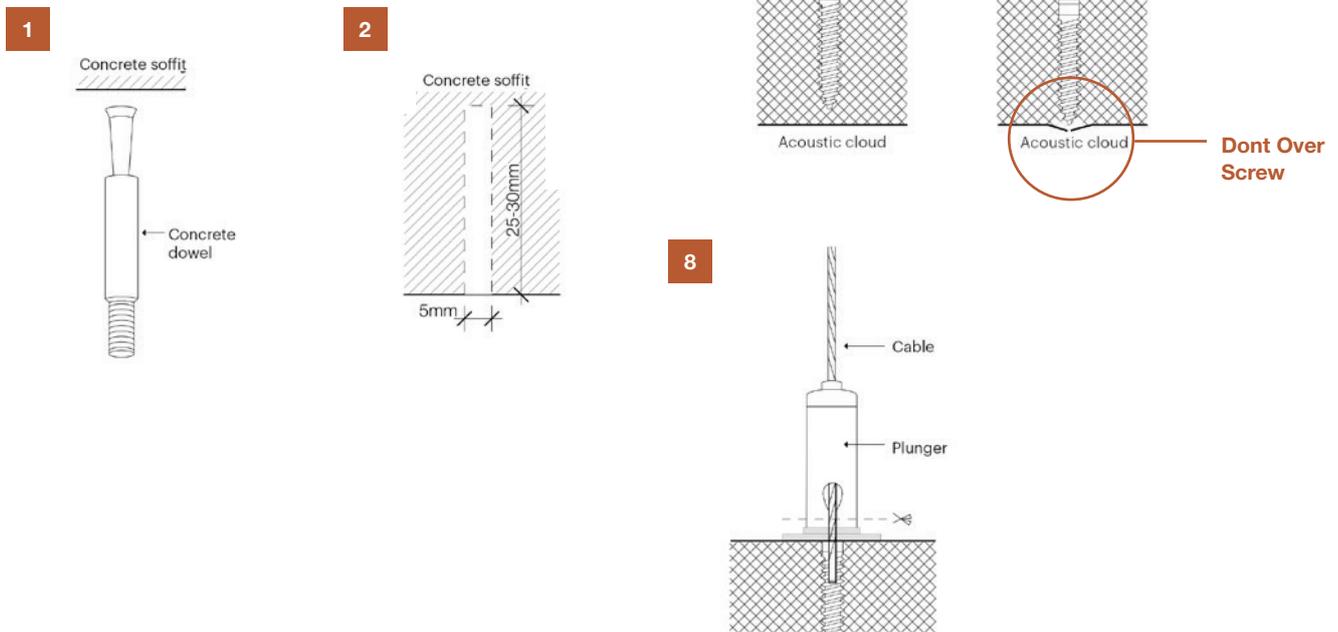
Tools and Equipment

- Hammer drill
- Pencil
- 5 mm drill bit
- Hole punch
- Cable cutter

Installation Steps

1. Determine the location of the cloud fixing on the soffit and mark with pencil.
2. Drill a 25-30 mm hole using a 5 mm drill bit. Ensure not to drill too deep. Maximum drilling depth is 32 mm.
3. Drive in concrete dowel using a plastic mallet and hole punch leaving thread exposed at base of ceiling. Be careful not to damage the thread.
4. Feed cable (soldered end) through the knurled ceiling attachment so stop sleeve is in the ceiling attachment.
5. Screw ceiling attachment to the threaded dowel and suspend the cable.
6. Insert the dual screw and thread into cable holder and place small and large washer through the dual screw thread.
7. Select position of fixing on back of acoustic cloud and mark with pencil. Screw the dual screw into acoustic cloud. Do not over tighten as the screw end will pierce the face and/or cause dimpling on the cloud surface. Maximum screw depth is 20 mm.
8. Feed cable into cable plunger. Pull through until desired height. Adjust height by pressing the plunger at top to move the holder up and down. Cut excess cable with cable cutters.

Note: Adequate anchoring may be applicable as required under AS 1170.4.



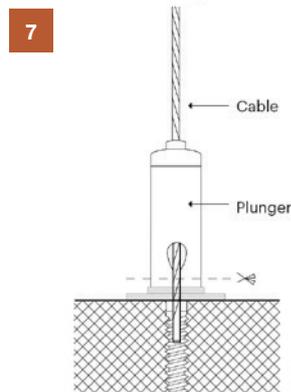
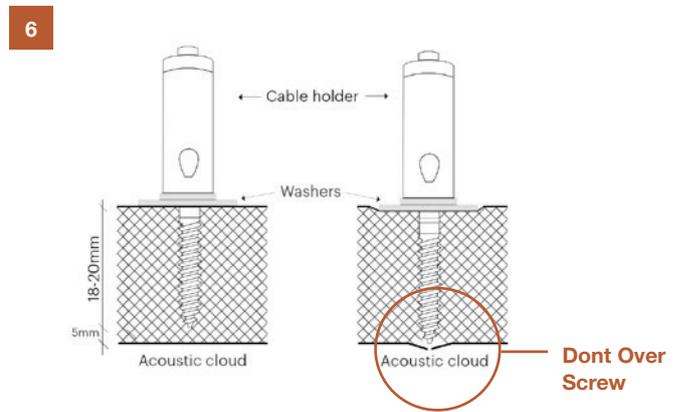
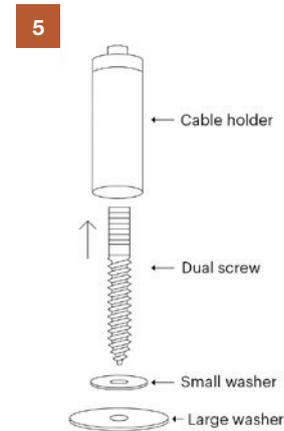
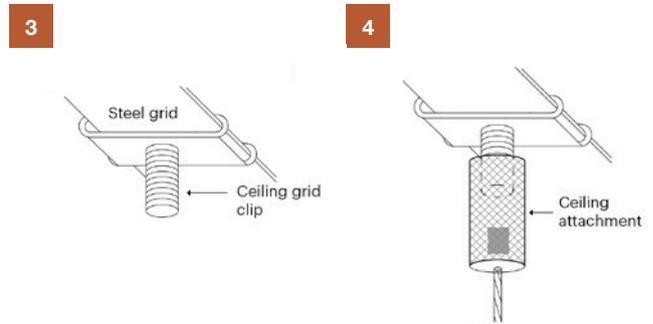
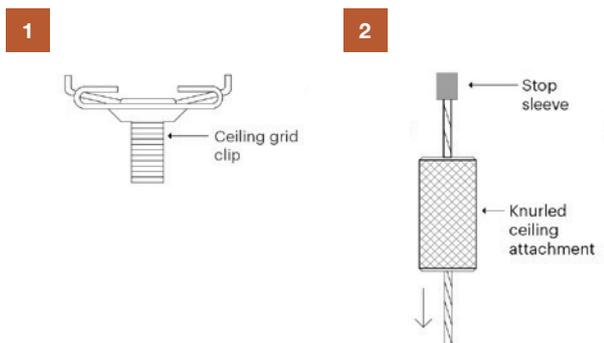
Ambience Cloud For Ceiling Grid

Tools and Equipment

- Pencil
- Cable cutter

Installation Steps

1. Determine the location of the cloud fixing on the ceiling grid and mark with pencil. Refer to the ceiling grid manufacturer's weight loading guidelines to ensure the grid can support the load.
2. Feed cable (soldered end) through the knurled ceiling attachment so stop sleeve is in the ceiling attachment.
3. Fit the ceiling grid clip to steel grid by placing on a 45-degree angle. Push up so the ceiling grid clip legs are depressed. At the same time as pushing up turn the ceiling grid clip clockwise into position.
4. Screw ceiling attachment to the threaded dowel and suspend the cable.
5. Insert the dual screw and thread into cable holder and place small and large washer through the dual screw thread.
6. Select position of fixing on back of acoustic cloud and mark with pencil. Screw the dual screw into acoustic cloud. Do not over tighten as the screw end will pierce the face and/or cause dimpling on the cloud surface. Maximum screw depth is 20 mm.
7. Feed cable into cable plunger. Pull through until desired height. Adjust height by pressing the plunger at top to move the holder up and down. Cut excess cable with cable cutters.



Ambience Stick It

Tools and Equipment

Measuring tape

Right angle set square

Metal ruler or straight edge

Pencil

Clean cloth

Sharp Utility Knife

Installation Steps

1. Please read these instructions carefully prior to beginning the installation.
2. Ambience Stick-It must only be Installed on solid flat surfaces. Ensure the surface is smooth, dry and free of dust oil and grease. If the tiles are to be installed on porous surfaces such as un painted brick or blockwork, then the surface must be primed with a brick or concrete sealer. Follow the sealer manufacturer's instructions for drying and curing times.
3. Pre-conceptualise the pattern before beginning the installation by laying the Ambience-Stick It in the desired pattern on the floor.
4. Measure the wall height and width and mark the centre point.
5. Determine the area where the Ambience Stick It tiles will be mounted.
6. Draw a vertical and horizontal straight line at 90° from the centre point.
7. Peel 30% of the backing off the top of the tile, then align the top of the tile on the 90° cross section line. Press on tile slightly to hold in place, remove the remainder of the backing.
8. Apply even pressure across the entire tile surface.
9. Install the next tile abutted to the previous taking care to ensure there are no gaps between tiles.
10. Continue to install the remaining tiles as per the previous steps.
11. If a tile must be trimmed and is to be abutted to another tile, then it is highly recommended to use a circular saw fitted with a thin kerf blade and high tooth count on a guide track. If this is not possible then a very sharp utility knife can be used with a metal straight edge as a guide. Cut from the back of the tile with great care to ensure a straight cut that is suitable for butt joining.

Note: Note: Once tiles are adhered to wall surface, they cannot be easily removed. If removal is required, use a hairdryer on a hot air heat setting to unset the adhesive. Ambience Stick It isn't designed to cover the whole wall.

Ambience Panel

Please read these recommendations prior to beginning the installation.

Substrate Preparation

Ambience Panel can be installed on substrates including plasterboard, concrete and fibre cement. Not recommended for substrates with textured or rough surfaces. Before installation, ensure all joints and gaps in the substrate are sealed. Ensure the surface is clean, dry and free of dust, oil, old sealant or other contamination.

Lightly contaminated surfaces should be wiped with Isopropyl Alcohol (IPA) using the 2-rag wipe method. Apply IPA to a clean lint-free cloth and wipe onto the surface to be cleaned to solubilise and remove the majority of the contaminant. A clean dry cloth should then be applied to remove remaining contamination and dry the surface. Ensure wet cleaner is not allowed to dry on surface.

For more heavily contaminated surfaces or where the IPA does not remove the contaminant, a generic wax and grease remover should be applied using the same 2-rag wipe method. Once this has been completed the surface should be given a final clean with IPA using the 2-rag wipe method to ensure the surface is adequately prepared. Adhesions to metals and some surface finishes can be further improved by light abrasion prior to cleaning with IPA using the 2 rag wipe method. If applying over an existing coating, ensure the structural integrity of that coating is sound, and that Toolbox Original Adhesive/sealant is bond compatible with the coating (pre-testing recommended).

Measuring

Measure the wall or ceiling area before installation and refer to the installation plan for placement. Verify the length of each wall section as walls are not always perfectly straight. It is recommended to use a straight edge to check the primary substrate for either high or low spots that can prevent the Ambience panels from either sitting flat (high spots) or achieving the necessary adhesive contact surface area (low spots.).

If not level, you may need to make good the wall. High spots exceeding 2mm should be removed by mechanical means, whilst low spots exceeding 2mm should be marked as these areas may require additional adhesive applied at the time of panel Installation.

Cutting

Trial cut on a scrap piece prior to cutting to ensure the highest possible finish. Knives and saws will behave differently on sheets of different thickness. Use a plunge cut circular saw or bandsaw with a wave toothing (not serrated) blade and a metal guide. Do not use a blade with side-set teeth. Always use sharp and clean blades. Do not remove safety guards from cutting equipment and wear the necessary safety equipment. Cut through to the other side in one a flowing motion. A scribing cutting action is not recommended as it may result in an uneven edge finish.

Use a slow, consistent feed rate to prevent overheating when cutting. The frictional heat can melt or fuse slightly the heated contact points with the saw blade. Feed against the rotation of the

blade or tool. Hold sheet firmly while cutting to minimise vibration. It's recommended to cut fabric face side up.

Adhesive

Ambience Panel can be direct fixed with HB Fuller Toolbox Original Adhesive.

It's the installer's responsibilities to ensure adequate substrate preparation and correct amount adhesive is applied. Trial the adhesive to check the bond is satisfactory.

HB Fuller Toolbox is available for order.

| PRODUCT | COLOUR | ORDER CODE |
|----------------------------|--------|------------|
| Toolbox Original Cartridge | Black | 183195 |
| Toolbox Original Cartridge | Grey | 99935 |
| Toolbox Original Cartridge | White | 99936 |

Ensuring sufficient bonded surface area is critical for achieving sufficient wet grab strength (initial grab) to hold the Ambience Panel in place whilst the adhesive cures. Adhesive beads should be 8mm in diameter, which when compressed to 2mm film thickness should yield approximately 25mm of bonded surface area per bead.

Adhesive Application

The maximum spacing between adhesive beads and the number of adhesive beads required for the specific size and thickness of Ambience Panel being installed. Refer to the table below for guidelines.

| PANEL SIZE | M ² /EACH PANEL | DISTANCE BETWEEN ADHESIVE BEADS | NUMBER ADHESIVE BEADS/PANEL |
|-------------------------------------|----------------------------|---------------------------------|-----------------------------|
| AMBIENCE PANEL 12 & 25MM | | | |
| 2400 x 1200 | 2.88 | ~210mm | 11 |
| 2420 x 1210 | 2.92 | ~210mm | 11 |
| 2720 x 1210 | 3.29 | ~210mm | 11 |
| AMBIENCE PANEL 50MM | | | |
| 2400 x 1200 | 2.88 | ~150mm | 15 |
| 2420 x 1210 | 2.92 | ~150mm | 15 |
| 2720 x 1210 | 3.29 | ~150mm | 17 |

Apply Toolbox Original Adhesive to the Ambience Panel in straight beads running across the panel from long edge to long edge. In order to prevent "squeeze out" of adhesive, adhesive should not be applied any closer than 50mm to the edges or ends of the panel.

Toolbox Original Adhesive forms a skin within 10 - 15 minutes therefore avoid leaving applied adhesive for prolonged periods of time. Any skinned adhesive should be removed and reapplied. Cure rate is 2 - 3mm per day depending upon temperature and humidity.

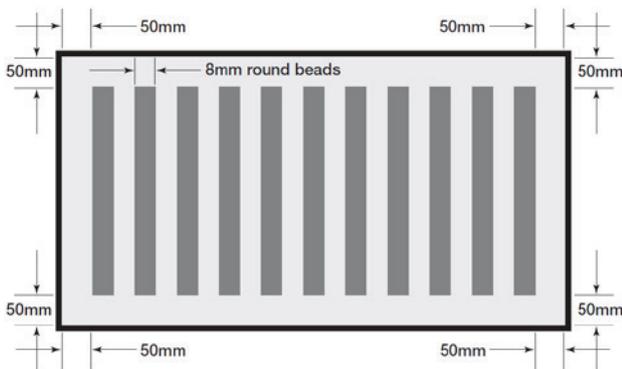


Figure 1 Example of adhesive bead placement for Ambience Panel 12mm and 25mm 2400 x 1200mm

Estimating Adhesive Requirements

The table below provide a guide to the amount of Toolbox Original Adhesive required for Ambience Panels

| PANEL SIZE | DISTANCE BETWEEN ADHESIVE BEADS | CARTRIDGES REQUIRED PER PANEL | M ² OF PANEL PER CARTRIDGE |
|-------------------------------------|---------------------------------|-------------------------------|---------------------------------------|
| AMBIENCE PANEL 12 & 25MM | | | |
| 2400 x 1200 | ~210mm | 2.0 | 4.0 |
| 2420 x 1210 | ~210mm | 2.0 | 4.0 |
| 2720 x 1210 | ~210mm | 2.2 | 4.2 |
| AMBIENCE PANEL 50MM | | | |
| 2400 x 1200 | ~150mm | 2.8 | 2.8 |
| 2420 x 1210 | ~150mm | 2.8 | 3.0 |
| 2720 x 1210 | ~150mm | 3.1 | 3.0 |

Installation Sequence

Colour variation may exist between Ambience Panels. To minimise this, it is recommended panels are installed sequentially. Panel sequence detail is found on the back on panels.

Installation of Ambience Panel to Walls & Ceilings

Avoid fitting one end of the panel at a time, instead guide the panel evenly into position, applying sufficient pressure to ensure full adhesive contact between the ceiling and the entire panel. Consider using two people to install full-sized panels. The use of a roller will ensure uniform pressure is applied to the entire panel area.

Given possible substrate variations, instances may arise where the recommended amount of adhesive does not appear to give adequate wet-grab strength to hold the panel in place without bracing support. In these instances, the panel should be removed and have additional daubs/spots of adhesive (approximately the size of a 50 cent piece) applied to the panel in random but evenly spaced areas to increase the bonded surface area of the panel. To maintain optimal adhesion properties, the panel should then be refitted before the adhesive has had a chance to form a skin.

Clean Up

Toolbox Original Adhesive can be cleaned up with methylated spirits whilst uncured. Cured adhesive requires mechanical removal.

CARE & MAINTENANCE

Regular Maintenance

Regularly dust the felt with a lint roller or vacuum using an upholstery attachment on low suction. Do not use a vacuum attachment with a rotary brush as brushing may damage the character of the felt.

Fabric Care

Treat stains and spills immediately by using a clean damp cloth. Avoid aggressive scrubbing or rubbing as this can damage the surface of the felt. Do not saturate. Use a dry cloth to blot the area dry. If there is surface dirt on the felt, gently brush with a soft bristled brush.

For more stubborn stains, dry cleaning fluid can be used. Refer to cleaning fluid manufacturer's instructions for suitability for use on felt. Test in an inconspicuous area before proceeding. Soak a clean cloth in the dry-cleaning fluid and blot the stain. Blot the excess moisture with a dry clean cloth.

WARRANTY

CSR Building Product Limited (“CSR”) warrants that the Ambience product is free from any defects in manufacture and materials, subject to the warranty exclusions set out in this warranty document and shall not materially degrade for a period of 10 years from the date of purchase in circumstances where the Ambience Collection product is used for internal applications only.

WARRANTY EXCLUSIONS

The warranty will cease to apply on Ambience Collection where:

- the product has been subjected to sunlight (direct);
- the relevant deterioration of any part of the product is consistent with normal wear and tear of the product in its relevant application;
- the product is used in any manner inconsistent with the normal or advertised use of the product;
- the product is damaged in transit or through wilful or accidental damage by third parties;
- the product is damaged or not installed in accordance with the Ambience Installation Guide. Note: installation related issues must be addressed by the installer;
- faults to product is caused or contributed to by the customer or any third party;
- the system into which the product is installed is not in accordance with provisions of the current National Construction Code (NCC) regulations and standards, good trade practices or is incorrectly designed or under-engineered; or
- damage to the product arises from external causes outside CSR’s control including but not limited to; building structure movement, welding or similar heating, pollution, exposure to conditions that would normally be deleterious to polyester products, mechanical damage, electrical or electrolytic damage, water damage, incorrect cleaning; neglect, fire, explosion, radiation, collision or other accident, acts of God, wars, riots, civil commotion, vandalism, or malicious damage, adverse weather conditions (such as for example hail storms) and the like (unless such damage is caused by the negligence or omission of CSR or its employees).

REMEDIES

In the event of any failure is caused by the direct result of a defect in the Ambience product, CSR will at its option repair or replace the product or refund the original invoice value of the product. To the maximum extent allowed by law, CSR is not liable for any expenses or back charges including labour and transport associated with replacement of defective product. CSR reserves the right to charge for any service on product not covered by this warranty. This warranty does not exclude, restrict or modify the application of any condition, warranty; guarantee, right or remedy conferred or implied under any provision of any statute including the Competition and Consumer Act 2010 (Cth) where to do so would contravene the relevant statute.

CONSUMER LAW

The warranties above are provided in addition to other rights and remedies available in respect of the acquisition of products by a “consumer” (as defined in the Competition and Consumer Act 2010 (Cth)). The following applies in respect of Australian sales to a ‘consumer’ as set out in the Competition and Consumer Act 2010 (Cth): our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

MAKING A WARRANTY CLAIM

Notification of a warranty claim must be made to CSR prior to any return or attempted rectification of the product. CSR must be given a reasonable opportunity to inspect the alleged fault in-situ. Failure to do so may result in voiding this warranty. To make a claim under this warranty, you must contact CSR on 1300 374 253 or via info@himmel.com.au. All expense of making a warranty claim will be borne by the person making the claim. CSR will require reasonable documentation supporting the claim to be provided.



HIMMEL™
INTERIOR SYSTEMS

