

LATHAM TACTILE INDICATOR INSTALLATION GUIDE

Introduction

This installation guide outlines best-practice procedures for installing Latham Australia's discrete Tactile Indicator Studs (LTSS, LTSSL, LTAS, LTAB, LTSSB, LTASB, LTSSW, LTASW) using two approved methods:

- Epoxy Fixing Method using Titazel™ Thixotropic Epoxy
- Mechanical Fixing Method using Lat-Loc™ Pressure Fit Plugs

These methods comply with AS 1428.4.1-2009 and AS 1428.1-2021 for positioning and spacing. Installation must always align with site-specific architectural drawings and project requirements.

Note: Care should be taken to ensure the correct type and colour of tactile is selected to assure the required level of luminance contrast under AS 1428.1-2021.

1. Paving/Hard Surface Installation Using Titazel™ Thixotropic Epoxy Resin

Recommended For: Concrete, tile, vinyl, carpeted floors, and substrates where high-strength bonding is required.

Materials & Tools Required:

- Latham Tac-Tile Template for all discrete tactile indicator studs, or our Latham Tac-Tile Template (LTSSD) for directional tactiles.
- A suitable drill for the floor finish with a 6.5-7mm drill bit. Most surfaces will tolerate a masonry drill and drill bit, some applications may require diamond drilling.
- Vacuum or brush for debris removal
- Titazel™ Thixotropic Epoxy (2-part)
- Mixing paddle or stirrer
- Soft mallet or firm hand pressure
- PPE: gloves, mask, safety glasses

Step-by-Step Procedure:

- **Surface Preparation:** Ensure the surface is clean, dry, and free of contaminants such as dust, oil, or moisture. Use masking if required to protect adjacent finishes.
- **Template Positioning:** Position the Latham aluminium template over the designated installation area, as per AS1428.1-2021. To ensure precise spacing between rows, use two tactile studs inserted into the last drilled holes of the previous row to lock the template in

place. This step eliminates the need to tape down the template and ensures that spacing from one square to the next is consistent and compliant.

- **Drilling:** Drill 6.0–6.5mm diameter holes through the template at the marked locations to a depth of 11–12mm (or 25mm when installing Latham LTSSL Long Stem Tactiles through carpet or underlay). Remove the template and thoroughly clean the area including vacuuming all dust from the holes.
- **Epoxy Mixing and Application:** Prepare Titazel Thixotropic™ epoxy resin as per our instructions which can be found on the label. Apply a reasonable amount of adhesive to the stem of each tactile stud. Take care to avoid overapplication to prevent spillover.
- **Tactile Installation:** Insert each tactile stud into the drilled holes. Use gentle hand pressure or a soft mallet to ensure each stud is flush with the floor surface. On new carpet, consider setting the tactiles slightly lower to account for carpet compression.
- **Clean-Up:** Immediately remove excess adhesive and clean surrounding surfaces using suitable cleaning agent, such as Lathams Asbra Titazel™ Clean up solvent. Exercise care to avoid staining
- **Curing:** Allow the adhesive to cure undisturbed for the recommended time of 12+ hours. Avoid foot traffic or cleaning during this period. Re-check each stud post-cure and refix any loose tactiles as necessary.

2. Installation Using Lat-Loc™ Pressure Fit Plug System

Recommended for Smooth concrete, tile, or hard paving substrates where fast installation without adhesives curing time is preferred. Lathams recommend standard epoxy installation whenever the option is available.

Materials & Tools Required:

- Latham Tac-Tile Template for all discrete tactile indicator studs, or our Latham Tac-Tile Template (LTSSD) for directional tactiles.
- A suitable drill for the floor finish with an 8mm drill bit. Most surfaces will tolerate a masonry drill and drill bit; some applications may require diamond drilling.
- Vacuum or brush for debris removal
- Latham Lat-Loc™ green plugs
- Rubber mallet
- PPE: gloves, mask, safety glasses

Step-by-Step Procedure:

- **Surface Preparation:** Clean the installation area thoroughly to ensure no dust, grit, or moisture remains on the surface.
- **Template Positioning:** Position the Latham tactile drilling template in the desired area, as per AS1428.1-2021. Insert two tactile studs into the rear locating holes to anchor the template based on the previous row's drilled locations. This step eliminates the need to

tape down the template and ensures that spacing from one square to the next is consistent and compliant.

- **Drilling:** Drill 8.0mm diameter holes through the template at the marked locations to a depth of 11–12mm. Remove the template and thoroughly clean the area including vacuuming all dust from the holes.
- **Plug and Tactile Setup:** Insert a Lat-Loc™ green pressure fit plug onto the stem of each tactile stud. Ensure each plug is seated fully against the stud base.
- **Stud Installation:** Place each stud into the corresponding hole and tap down gently using a rubber mallet until it sits flush with the floor surface. The plug will expand to grip the wall of the hole, securing the stud mechanically.
- **Final Checks:** Ensure that all tactile studs are firmly fixed and uniformly aligned. There should be no movement or looseness.

3. Installation into Soft Surface Finishes (e.g., Carpet with or without underlay)

Recommended Product & Installation Method: LTSSL Tactile Studs (25mm longer stem) with epoxy fixing using Lathams Titazel Thixotropic™

Materials & Tools Required:

- Latham Tac-Tile Template for all discrete tactile indicator studs, or our Latham Tac-Tile Template (LTSSD) for directional tactiles.
- A suitable drill for the floor finish with a 6.5-7mm drill bit. Most surfaces will tolerate a masonry drill and drill bit, some applications may require diamond drilling.
- Vacuum or brush for debris removal
- Titazel™ Thixotropic Epoxy (2-part)
- Mixing paddle or stirrer
- Soft mallet or firm hand pressure
- PPE: gloves, mask, safety glasses
- Marker or chalk for layout on carpet
- Optional: Carpet punch (15mm) for carpet installs

Key Notes:

- The LTSSL stud has a deeper 25mm stem to ensure anchoring into the substrate beneath soft finishes like carpet, rubber, or vinyl.
- For carpet with underlay, Lathams recommend removing underlay beneath the tactile zone and inserting a stabilising board (e.g., pine or MDF) to reduce future compression.

Installation Tips:

- Use the template to mark the drilling location, then punch a 15mm hole through carpet pile before drilling to prevent the drill from catching and pulling loops or woven fabric.
- Drill through to substrate to a depth of 25mm.

- Apply Titazel™ epoxy to each stud stem and install as per epoxy procedure above, being extra careful not to allow epoxy on carpet when inserting the studs.
- Slightly recess tactiles to compensate for new carpet compression over time.

Templates and Product Variants

Latham provides pre-drilled aluminium templates to ensure quick, accurate, and compliant installation of tactile indicators.

- Use the standard Latham Tac-Tile Template when installing discrete tactiles (single-stem studs).
- Use the Latham Tac-Tile Template (LTSSD) for directional tactiles, which have a three-stem design and require a different drill layout.

Templates comply with AS 1428.1 and AS 1428.4.1 for compliant tactile grid spacing.

Important Notes

- Always refer to current architectural drawings for layout verification.
- Installation must be carried out by trained personnel following all site safety requirements.
- If unsure, consult Latham or your project certifier for guidance.
- Use only Latham-specified materials and fixings for optimal performance and warranty assurance.
- **Disclaimer:** All site conditions are different. This guide provides general recommendations only. Installers and contractors must exercise independent judgement and follow local building codes, regulations, and manufacturer guidelines. Latham is not liable for damage arising from incorrect or improper installation.

For further technical assistance or to order templates, plugs, or adhesives, please contact:

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