# **Classic Tredfx Tactile Indicators: Individual**



# Installation Guide

#### Layout

It is very important that prior to installation, the project is planned and set out to achieve a satisfactory and compliant result.

Tactile Ground Surface Indicators (TGSI's) must be installed in accordance with AS1428.4 .1-2009

Generally, at stairs the TGSI's must be installed 300mm from leading nosing edge at top and bottom of the stair flight 600mm deep to the full width of the path of travel.

For ramps, TGSI must be installed 300mm from change in plane 600mm deep to the full width of the path of travel.

Layout the TGSI's in the designated areas, using a straight edge / string line or tape to ensure the lines are straight.

Note: it is easier to install smaller areas at a time

#### Preparation

Substrates must be virgin, uncontaminated and unsealed. TGSI's must be installed on a smooth, flat and dry surface, to ensure adhesive has maximum surface area contact with substrate. Any irregularities must be corrected before installation of the TGSI's.

Note: Metal TGSI's must be thoroughly cleaned with Acetone prior to installation.

Please check the product supplied is suitable to your application and complies with the Australian Standards, and read the entire instructions before starting any installation, then follow the steps.

1. Ensure all substrates are properly cured before installation i.e. concrete should be cured min 7-10 days at 25°C before commencement.

2. Thoroughly clean the surfaces from all dirt, moisture and grime, and conduct a final clean with a suitable non-residual cleaner such as Acetone. Always check in a non-obvious area to ensure the cleaner does not damage the substrate in any way.

3. Layout areas for installation using masking tape as a guide.

## Installation

Self-Adhesive Fixing Only – Stone, tile, masonry and timber substrates

For TGSI without rear fixing stud

1. Place the positioning templates into position and tape the corners to hold firmly in place.

2. Remove release paper from the back of the TGSI and simply drop the tactile into the template.

3. Using a rubber hammer tap lightly to make sure full adhesion occurs.

4. Once the template is complete with the TGSI's, lift and remove it.

5. To continue, place the first 3 circle rows on the template over the last 3 rows of completed tactiles and continue as required.

 Ensure the TGSI are free of all traffic until the adhesive has achieved its full bond (allow 12-24 hrs).

## Installation

Mechanical Fixing – Stone, Masonry / Concrete, Timber / Metal Substrates

For TGSI with rear fixing stud

1. Place the drilling templates into position and tape the corners to hold in firmly in place.

2. Using the drilling templates as a guide, drill the 4 corner holes (in each template) to the correct diameter into the substrate to the required depth, and using the TGSI, firmly pin the templates into place.

Note re drill size:

- Metal TGSI with a 'P' code i.e. SH10P: Drill 6mmø diameter holes.
- Metal TGSI with an 'N' code i.e. SH10N: Drill 8mmø diameter holes.
- Polymer TGSI i.e. PH06P: Drill 8mmø diameter holes.
- A wet diamond drilling system is generally the best method for tiled/masonry substrates to ensure the substrate does not crack or shatter.
  3. Once all the holes have been drilled to the correct depth, remove the templates.
  The holes and substrate must be thoroughly cleaned

and dust free prior to installation of the TGSI. 4. If using the Nylon stem TGSI:

- The TGSI can then be located into the holes, by inserting the tapered end of the stem into the hole
- Hammer firmly home using a rubber mallet 5. If using an adhesive fixed system (i.e. the 'P' stem):
- Ensure all surfaces and the holes are thoroughly clean.
- Using a suitable 2-part epoxy or polyester adhesive, dispense the properly mixed adhesive into each hole leaving a blob of adhesive on the surface.

• Apply the TGSI with rear fixing stud into position and twist firmly into place. Check that full transfer of the adhesive to the stud and back of the TGSI has occurred.

- Any excess adhesive that is exposed should be immediately removed.
- Ensure the TGSI are free of all traffic until the adhesive has achieved its full cure (allow 24 hrs).

## Installation

Mechanical Fixing – Carpeted substrates For TGSI with rear fixing stud

1. For best results, discuss your particular scenario with a Classic consultant to ensure you are conversant with the methodology of installing TGSI through carpet before proceeding.

 Ideally in the case of dual bond or conventional carpet, before the final carpet is laid remove the underlay from TGSI area, and replace the underlay with a ply backing board to the same thickness.
 Lay the carpet over the backing board, including gluing it down if possible.

4. Using the drilling templates as a guide, layout the area, and mark the hole positions on the carpet.5. Punch holes out of the carpet using a suitable wad punch.

6. Subject to the scenario, follow the procedures outlined to drill all the holes (taking care not to damage the carpet), and then install the TGSI's .
7. The TGSI's must be firm and properly bedded into the carpet. Individual packers may also be required underneath each TGSI to raise the height of them to suit the carpet thickness.

Note: Where TGSI's are fitted over carpet, it is very important that they are very securely fixed down, as carpet may compress over time loosening the fixing.

Remember......If you are not sure ask !!!!

#### ABOUT THIS INSTALLATION ADVICE

This information is offered as a general guide only, and specific advice should always be sought from a reputable and accredited TGSI Installer before undertaking any installations. This guidance does not preclude the use of other methods, materials or equipment: however the user should undertake careful evaluation and make suitable enquiries of the suitability of alternative methods, materials or equipment, before using them. Whilst Classic Architectural Products Pty Ltd has made every effort to ensure the accuracy and effectiveness of this information, we make no representation as to the accuracy or effectiveness of the information and take no responsibility for any loss, damage or injury which may be caused as a direct or indirect result of the use of this information.



# **Classic Tredfx Tactile Indicators: Tiles**

# Installation

#### Layout

Guide

It is very important that prior to installation, the project is planned and set out to achieve a satisfactory and compliant result.

Tactile Ground Surface Indicators (TGSI's) must be installed in accordance with AS1428.4 .1-2009.

Generally, at stairs the TGSI's must be installed 300mm from leading nosing edge at top and bottom of the stair flight 600mm deep to the full width of the path of travel.

For ramps, TGSI must be installed 300mm from change in plane 600mm deep to the full width of the path of travel.

Layout the TGSI's in the designated areas, using a straight edge / string line or tape to ensure the lines are straight.

#### Preparation

To be in accordance with AS 1884 'Floor coverings Resilient sheet and Tile Laying Maintenance Practices'.

Substrates must be virgin, uncontaminated, unsealed and free of hydrostatic pressure. All surfaces to be bonded shall be dry, smooth, sound and clean, to ensure adhesive has maximum surface area contact with substrate.

Any surface irregularities must be corrected before installation of the TGSI's.

Note: We don't recommend that Classic PT30A Tactile tiles are installed over asphalt surfaces.

Please check the product supplied is suitable to your application and complies with the Australian Standards, and read the entire instructions before starting any installation, then follow the steps.

1 .Thoroughly clean the surfaces from all dirt, moisture and grime, and conduct a final clean with a suitable non-residual cleaner such as Acetone. Always check in a non-obvious area to ensure the cleaner does not damage the substrate in any way.

2. Layout areas for installation using masking tape as a guide.

## Installation

# Self-Adhesive Fixing – Stone, tile, masonry and timber substrates

For PT30A tiles with self adhesive backing

TIP: In the case that the weather is below 15°C, prelay the tiles out in the sun / in a warm position so they are not cold and use a heat gun to warm up the substrate. The adhesive is a butyl-based product, so the warmer that the product and surfaces are the better the adhesion.

1. After preparation, remove release paper from the back of the TGSI tile and place the tactile into position.

2. Using a rubber hammer tap lightly to make sure full adhesion occurs, and the edges are flat.

3. The TGSI can be walked on immediately.

## Installation

Wet Glue Fixing – Stone, tile, masonry and timber substrates

For PT30A tiles with self adhesive backing

1. After preparation, thoroughly mix a suitable proprietary adhesive suitable for bonding the TGSI tiles to your particular substrate. (Classic does not supply this adhesive, and a primer may also be required where recommended by the adhesive manufacturer)

2. Spread the adhesive evenly to the adhesive manufacturer's recommendations using a notched trowel over the predetermined installation zone.

3. Apply the TGSI tile into the adhesive and firm into place.

4. Roll lightly and check that full transfer of the adhesive to the back of the tile has occurred. Should the Tactiles not tend to sit flat, then assistance should be given in holding down with weights until full adhesive cure has been reached.

5. Any excess adhesive that is exposed should be immediately removed.

6. Ensure the TGSI are free of all traffic until the adhesive has achieved its full cure

## Installation

Self-Adhesive Fixing – carpeted substrates For PT30A tiles with self adhesive backing

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1. For best results, prior to install, discuss your particular scenario with a Classic consultant to ensure you understand the methodology of installing TGSI to carpeted areas.

2. Subject to the application and carpet type, we suggest the TGSI's be fitted prior to the carpet being laid, using a suitable frame and backing board/s for a clean line.

Note: The TGSI area is to have the frame size added to overall TGSI area. Alternatively, (subject to the application and carpet type), the TGSI's can be installed to minimally overlap the frame / backing area to cover over the abutting carpet edge.

3. Fit a frame of correct size to suit the area required.

4. Install well fitted backing boards (marine ply) to the correct height of the frame. Firmly fix these boards to the substrate.

5. Adhere the TGSI onto the backing boards following each prescribed procedure for either concrete or timber substrates.

Remember......If you are not sure ask !!!!

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# Classic Tredfx Stair Nosings

# Installation Guide

#### Preparation

All surfaces should be flat, free from dust, paint, grease and moisture. Prepare the surface to be as smooth as possible. Any irregularities\* must be corrected before installation of the stair nosing profile.

NOTE: It is imperative that damaged and worn treads are repaired using a suitable structural filling compound.

#### Layout

Layout the stair nosing profiles on the stairs, or use a straight edge or string line to ensure that all the stair nosings are properly centred on the steps, with the edges aligned. If required, trim the profiles using a drop saw with a high speed tungsten carbide blade.

NOTE: We strongly recommend allowing approx. 50mm gap from each end of the stair nosing profile to the stair stringer/walls, and also expansion gaps at approx. 3 metre intervals (where the nosings are in a long run) to assist with possible thermal expansion, and to allow for water egress.

Please check the product supplied, and read the entire instructions before starting any installation, then follow the steps.

All Tredfx aluminium stair nosings that feature concealed fixings are supplied with screw holes pre-drilled and countersunk. There is two screw holes drilled (one towards the front and one towards the back of the nosing) at 250mm intervals. One screw is supplied per every 250mm of nosing.

NOTE: Do not put a screw in every hole, only one screw per 250mm. Recommended installation method is to install the stair nosings with the screws in a staggered pattern (one screw in front hole, one screw in back hole, repeating). If in doubt as to correct installation methods, contact our customer service team on 1300 244 377.



## Installation

#### **Mechanical Fixings**

For concrete, timber, tiled, masonry, carpeted/metal substrates

1. Using the pre-drilled stair nosings as templates, mark the hole locations on the step by spotting with a drill. Alternatively, we suggest fixings approximately 300mm apart, alternating between the middle and back of the profile. (Fig A)

2. Remove the nosing and drill the holes into the step (stair nosings are supplied with fasteners - please check application and fasteners first).

NOTE: In the case of tiled or masonry stairs, extreme care must be taken to ensure step edge does not crack or shatter. In the case of timber or metal stairs, drilling a pilot hole with a smaller drill bit may be necessary.

3. Once the holes have been drilled, ensure all surfaces are thoroughly clean and free of dust. (Fig B)

4. Insert plugs into holes and apply structural adhesive (e.g. Tredfx CA290 adhesive) to underside of stair nosing profile (2 or 3 beads to the riser edge and beside screw holes along the entire length) to cushion any step variance and to prevent the nosing from rocking. (Fig C)

5. Place nosing down onto step and firmly screw into place using the screws provided. The stair nosings must be firm and the fasteners flush. (Fig D & E)

6. Once the stair nosing base has been securely and satisfactorily installed, the slip-resistant inserts can be fitted into place. Refer to the specific method, which applies to your application.

### Installation

#### Mechanical Fixings

For carpeted substrates

1. For best results, remove both the carpet and the underlay from step edge, and install the stair nosing with the rear gripper section overlapping the carpet. A packer may be required to raise the carpet thickness.

2A. Where the stair nosing is designed to be installed over broadloom type carpet (i.e. Tredfx PBC102), use the pre-drilled stair nosing as a template to mark the fixing positions on to the carpet, then punch holes out of the carpet using a suitable wad punch. 2B. Where installing a nosing to suit carpet tiles (i.e. Tredfx PBD106), trim back the tiles to suit the width of the profile.

3. Mechanically fix stair nosings into substrate following each prescribed procedure for either concrete or timber stairs.

4. Once the stair nosing base has been securely and satisfactorily installed, the slip-resistant inserts can be fitted into place. Refer to the specific method, which applies to your application.

NOTE: If the stair nosings are fitted over the carpet, it is very important that they are securely fixed down, as carpet can compress over time, loosening the fasteners.

#### Adhesive Fixing For stone, tiled, masonry, timber substrates

1. Ensure that all surfaces are thoroughly clean. (Fig F)

2. Apply structural adhesive (e.g. Tredfx CA290 adhesive) to underside of stair nosing profile (at least 3 or 4 beads along the entire length including the riser edge) to cushion any variance and to prevent nosing from rocking. (Fig G)

3. Place nosing down onto step and firmly tap with rubber mallet to ensure good adhesion and to displace any trapped air.

4. The stair nosings must be a firm, flush finish. Ensure the stair nosings are securely held to the step edge using tape or weights, and are free of all traffic until the adhesive has achieved its full cure (allow 24 hours).

5. Once the stair nosing base has been securely and satisfactorily installed, the slip-resistant inserts can be fitted into place. Refer to the specific method, which applies to your application.

# Classic Tredfx Stair Nosings



# Install Slip-resistant Poly Inserts (where supplied)

1. Pre-cut the insert approximately 30mm longer than required for the stair nosing.

2. Carefully peel off the adhesive backing strip (Fig H) and start to mould the insert into place. Do not stretch the insert.

NOTE: It is extremely important that the insert is relaxed when being installed. If the insert is stretched, it may in time shrink/return to its original size and be too short.

3. Once insert has been fitted, carefully trim off the excess with a sharp knife so that it is flush with the end of the nosing.

NOTE: If the stair nosings are fitted over the carpet, it is very important that they are securely fixed down, as carpet can compress over time, loosening the fasteners.

Install Slip-resistant Gritted / Aluminium Style Inserts (where supplied)

1. Carefully peel off the adhesive backing strip (Fig H) and start to fit the insert into place.

2. Once the insert is fully into the base, firmly tap with rubber mallet to ensure good adhesion and displace any trapped air to achieve a firm, flush finish.

3. The stair nosings must be a firm, flush finish. Ensure the stair nosings are securely held to the step edge using tape or weights and are free of all traffic until the adhesive has achieved full cure (allow 24 hours).

NOTE: This information is offered as a general guide only and specific advice should always be sought from a reputable and accredited stair nosing installer before undertaking any installations.

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