

Asbra Stair Nosing

Installation Guide



**Secure and rigid fixing is essential for safe, satisfactory performance.
All movement and rattle must be eliminated.**

Basic Stair Tread Installation Details

1. Locate the stair tread in position, ensuring it is located centrally on the tread. Use the factory pre-drilled holes as a template to mark the location for the holes in the substrate. This is best done with a permanent marker or a fine masonry drill bit (3mm-4mm). Note this step is not required if the substrate is timber, proceed to point 4.
2. Remove the tread and drill the fixing holes to the appropriate depth in the marked location to suit the fixings, (if Latham have supplied red plastic plugs, the required diameter for the masonry drill bit is 5.5mm)
3. Insert the red plastic plugs in the drilled holes in the floor finish, ensuring the plug finishes level with the floor surface.
4. Latham recommend that treads are installed using screws and Latham Titazel Thixotropic Epoxy Adhesive or Tytrede 2 bedding compound. Both surfaces making contact with the adhesive (tread and underside of stair tread nosings) should be cleaned using a suitable solvent cleaner to ensure they are free of grease and foreign matter.
5. Assuming adhesive is being used, it is recommended that the underside of the tread be abraded to create a better bond. This can be done with rough sand paper or similar.
6. Apply the suitable adhesive to the underside of the stair tread nosings ensuring the adhesive is kept clear of the screws holes and back edge of the tread by 15mm, to reduce the likelihood of

the adhesive squeezing out when the tread is mechanically fixed. More information about this and clean-up of adhesive can be found on the Latham Titazel Thixotropic Epoxy Adhesive or Tytrede 2 Bedding Compound label.

7. Carefully locate the tread back in position lining up the holes in the treads with the plugs.
8. Insert and tighten the screws working alternately from either end of the tread. The screws should be checked and re-tightened if required prior to finishing the entire installation.

Latham Australia does not recommend the use of adhesive alone for the installation of stair tread nosings as the bond cannot be guaranteed without mechanical fixings.

When using Latham Titazel Thixotropic 2 Part Epoxy Adhesive for fixing Asbraloy and Asbrabronz Stair Tread Nosings and Inserts to flat and level substrate, it may be possible to increase the distance between the screw fixing locations, the maximum span that should be considered is 1000mm.

Installation details are designed as a guide only, individual site specific circumstances should be considered before undertaking installation. Installation should be undertaken using safe work practices by a skilled competent tradesperson.



Installation Instructions for Asbraloy™ and Asbrabronz™ Stair Tread Nosings and Inserts.

Secure and rigid fixing is essential for safe, satisfactory performance. All movement and rattle must be eliminated.

Latham Asbraloy and Asbrabronz Stair Tread Nosings and Inserts are generally supplied factory cut to length complete with countersunk holes screws and plugs. On request the treads can be supplied uncut and undrilled in full 4600mm manufacturing lengths.

Unless otherwise specified with order treads will be cut to size and pre-drilled to suit 8 gauge stainless steel or brass screws. Holes will be located at 250mm centres and will be evenly spaced from either end of the tread (50mm-175mm from either end of the tread depending on the cut length). See page 04 further details.

Installing ST Series Surface Mounted Stair Tread Nosings

ST Series Treads can be installed over concrete, tile, pavers, stone, timber and other solid surfaces. After ensuring the surface is of good finish and even (if not refer to information on repairing damaged or worn surfaces) proceed to point 1 (page 58). When the Stair Tread* is being installed in conjunction with carpet see reference to carpet and vinyl installations on page 60.

Installing S Series Recess Mounted Stair Tread Nosings and Inserts

S Series Recess Treads and Inserts are designed to be installed into a pre-formed recess. This can be cut or cast in concrete, cut into timber treads or achieved when tiles etc are being installed on top of concrete or similar (when the Stair Tread* is being installed in-conjunction with carpet see reference to carpet and vinyl installations on page 60).

It may be necessary to increase the height of the set down (particularly if the tread is being installed with tiles etc). It is a good idea to request a sample of the profile for cutting the recess to ensure the cut out is the correct size for installation.

Filling the recess should be achieved using Latham Titazel RA-1 Filling and Levelling Compound or similar suitable product. The recess should be filled and levelled to a suitable level for the selected stair tread profile (see product depth information in the relevant table for the selected product selected), an allowance also needs to be made for Latham Titazel Thixotropic Epoxy Adhesive or Tytrede 2 Bedding Compound (1mm). Once this has been done proceed to point 1 (page 62).

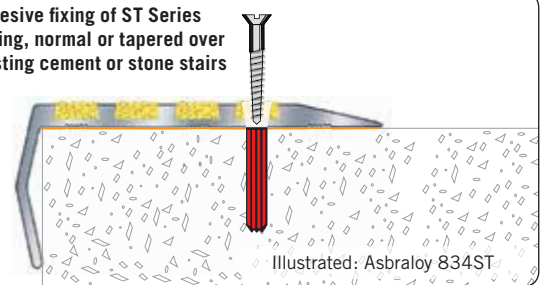
*Insert Treads/Mall Bars are considered not suitable for carpet installation by Latham Australia. Stair treads only should be considered for carpet applications.

Installing Insert Type Recessed Treads

Asbraloy and Asbrabronz insert treads can be installed in virtually any hard floor finish, including stone, tile concrete, terrazzo and timber. When insert treads are being installed, industry practice has been to set the inserts back 25-30mm from the edge of the tread for 50+ years. However the updated Australian Standard AS 1428.1-2009 indicates a maximum set back of 15mm for a 50mm-75mm strip of contrast colour. When installing these in ramps or footpaths it is recommended that they are installed at a maximum of 150mm centres to try ensure the pedestrians foot is in contact with the safety tread at all times.

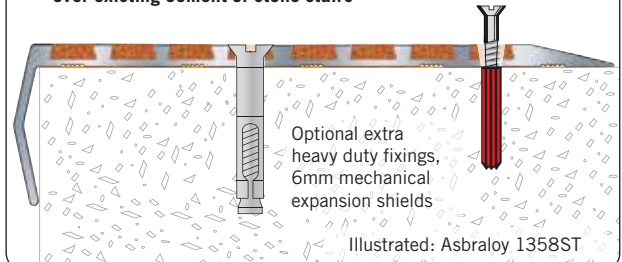
A correctly formed groove for the tread insert being used should be formed or cut in the floor finish. It is a good idea to request a sample of the profile for cutting the grooves to ensure you get the correct size. The tread insert should finish flush with the surrounding floor finish and the silicon carbide inserts will protrude slightly above the tread offering the required pedestrian safety. Latham recommends the use of Titazel Thixotropic Epoxy Adhesive for the installation of tread inserts or Latham Tytrede 2 Bedding Adhesive in conjunction with countersunk holes screws and plastic plugs where applicable.

Adhesive fixing of ST Series nosing, normal or tapered over existing cement or stone stairs



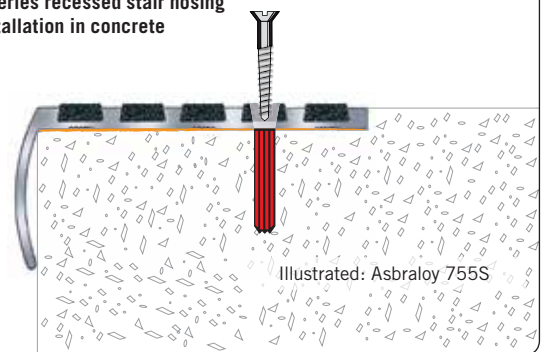
Illustrated: Asbraloy 834ST

Mechanical fixing of ST Series stair nosing over existing cement or stone stairs



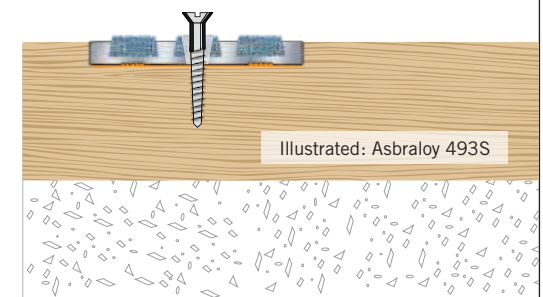
Illustrated: Asbraloy 1358ST

S Series recessed stair nosing installation in concrete



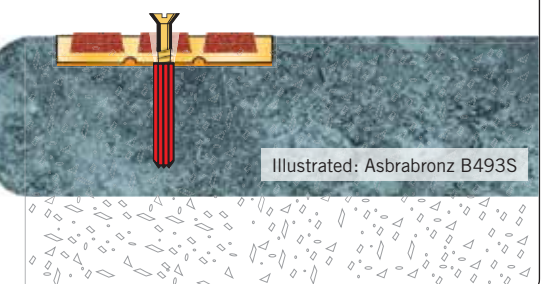
Illustrated: Asbraloy 755S

S Series recessed stair tread installation in timber



Illustrated: Asbraloy 493S

S Series recessed stair tread installation in stone stair



Illustrated: Asbrabronz B493S



Installation Instructions for Asbraloy™ and Asbrabronz™ Stair Tread Nosings and Inserts.

Installing SB Series Bevelled Edge Stair Tread Nosings

SB Series Treads are designed to be installed on concrete or timber applications as a surface mounted profile, where vinyl or direct stick carpet is being installed. The 3mm straight edge combined with the 2mm x 45° bevel ensures a smooth transition from the floor finish to tread.

If levelling or packing is required see the details under S Series Treads and Inserts. Once this has been done proceed to point 1 (page 59).

Carpet and Vinyl Installations

ST Series Treads can be installed over carpet providing the carpet is firm and the substrate is good and a secure fixing can be made. Obviously when a tread is being installed over carpet, adhesive can not be used.

The following installation methods should be followed, although it is advisable to use a carpet punch to punch a hole through the carpet in the location where the hole is to be drilled, this will help to ensure that the carpet is not pulled by the spinning drill. To carry out this installation it may be necessary to shave the carpet pile or to install continuous solid packers under the back edge of the tread. This style of installation generally can not be used on treads where carpet has underlay.

S Series Treads are designed to be installed into a preformed recess or on a packer in a carpet and underlay application, please see the attached detail; the timber packer should be securely fixed to the substrate.

Light Duty Treads

Light Duty LDT, LDAS, Light Duty Resilient and Inox Series Stair Treads should be installed in a similar fashion to the details listed for the other treads. All profiles will be supplied without the inserts installed to facilitate mechanical fixing. The inserts are then applied later on site.

SK and WAK Series Cast-in Treads and Inserts

Cast-in fixing for tile, slate, exposed aggregate, concrete, etc. Asbraloy™ anchors provide ready fixing, eliminating wasted effort in drilling holes in fresh concrete. The cast in treads are easily worked into topping at the time the step is being formed. Care must be taken to prevent cement soiling safety tread surface.

On request Cast-In Profiles can be supplied with a Zinc Chromate protective coating to the underside (specify ZCPC). Also when specified with order, the top visual surface of the tread can be masked with Asbra™ Fabric Tape. This helps ensure that the treads remain in pristine condition until the tape is removed. For further details see page 22.

When installing 493SK, this is set back from the edge of the tread, recently the updated AS 1428.1-2009 indicates a maximum set back of 15mm for a 50/75mm strip of contrast colour, but industry practice has been to set the inserts back 25-30mm from the edge of the tread.

When installing these in ramps or foot paths it is recommended that they are installed at a maximum of 150mm centres to ensure that the pedestrians foot is in contact with the safety tread at all times. The tread is inserted into a wet topping and worked into the required depth. The aluminium section of the insert should finish level with the topping.

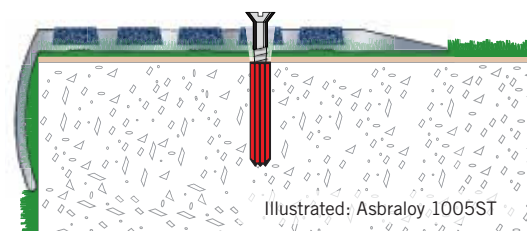
Latham recommend the use of Asbra™ Fabric Tape on the top of each stair tread nosings. This helps ensure the tread remains in pristine condition until the tape is removed. If the tape gets locked in position by the poured topping use a razor blade to cut it free.

Fixing Asbraloy™, Asbrabronz™ and Rufazel™ Nosings and Plates to Metal Stairs and Treads

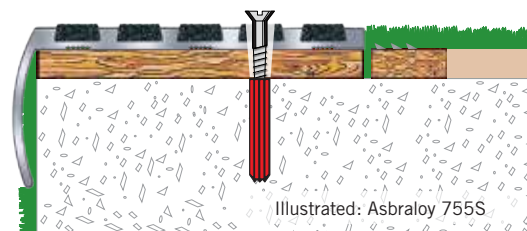
When specified with order Latham treads can be supplied with Stainless Steel Countersunk metal thread Screws and Nuts at additional charge.

When the treads are being installed over open mesh galvanized steel treads, galvanized universal saddle clips, metal thread screws and nuts can be supplied at additional charge. Consideration when ordering needs to be given in relation to hole fixings in the treads and to the mesh spacing's to ensure screw can be installed.

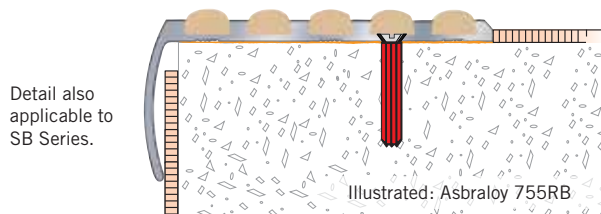
Carpet installation ST Series stair nosing



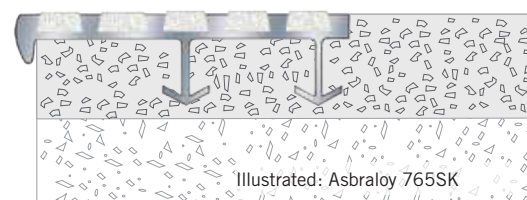
Carpet installation S Series stair nosing



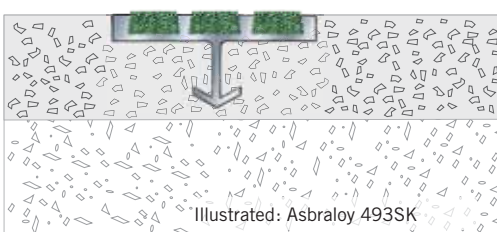
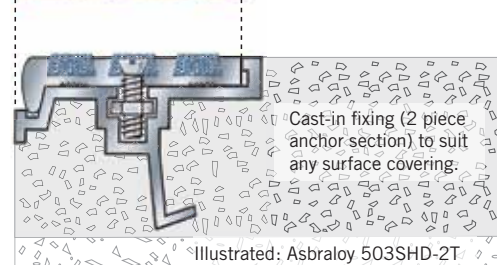
Light Duty Resilient nosings with preformed inserts for domestic or light duty commercial application (see page 52)



Anchor systems available in most products (See page 22)



T: Optional timber deck





Installation Instructions for Asbraloy™ and Asrabronz™ Stair Tread Nosings and Inserts.

Repairing damaged and worn surfaces

It may be necessary to increase the height of the set down (particularly if the tread is being installed with tiles etc) or you may be required to repair damaged or worn tread. This should be achieved by using Latham Titazel RA-1 2 Part Filling and Levelling Compound or similar suitable product. The recess should be filled and levelled to a suitable level for the selected stair tread profile (see product depth information in the relevant table for the selected product selected). An allowance also needs to be made for Latham Titazel Thixotropic Epoxy Adhesive or Tytrede 2 Bedding Compound (1mm). Once this has been done proceed to point 1 (page 58).

Tredlite Illuminated Safety Stair Tread Nosings

The treads are installed as detailed above. See pages 38 to 47 for further details on the LED Lighting and contact Latham Australia for further connection and installation detail.

Installing Asbra™ Mall Bars.

Mall Bars are designed to be installed/cast into concrete topping. When inserts are being installed there has been no specific requirement on what this set back from the edge of the tread should be, although industry practice has been to set the inserts back 25-30mm. AS 1428.1-2009 indicates a maximum set back of 15mm for a 50/75mm strip of contrast colour. When installing these in ramps or footpaths it is recommended that they are installed at a maximum of 150mm centres to ensure the pedestrians foot is in contact with the safety tread at all times. The Mall Bars are often installed in rows of 2 or 3 particularly in stairs. Once again there is no specific requirement for the spacing although in general the industry has been installing these at 20mm-30mm centres for many years.

The Mall bar is worked into the topping, which is best trowel cut whilst wet to assist with working the mall bar into the surface, by gently rocking the Mall Bar back and forth and carefully tapping it into position. The Mall Bar should be installed and protrude the surrounding floor finish by approximately 2mm.

Installing Asbra™ Titazel™ ST-1 Trowelable Resin

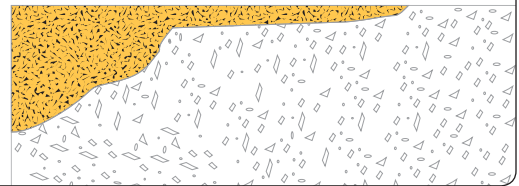
Asbra™ Titazel™ ST-1 Trowelable Resin Safety Tread Kits can be installed in virtually any hard floor finish, including stone, tile concrete, terrazzo and timber. When insert treads are being installed, industry practice has been to set the inserts back 25-30mm from the edge of the tread for 50+ years. However the updated Australian Standard AS 1428.1-2009 indicates a maximum set back of 15mm for a 50mm-75mm strip of contrast colour. When installing these in ramps or footpaths it is recommended that they are installed at a maximum of 150mm centres to try ensure the pedestrians foot is in contact with the safety tread at all times.

The kit should be mixed as described in the instructions on the tin. Latham HD-33 Heavy Duty Masking Tape should be installed on each side of the groove (2-3 layers). This ensures the finish protrudes above the floor/step finish a suitable amount (2-3mm) and also helps ensure the area remains clean.

The ST-1 Trowelable insert is trowelled into the groove and once it's installed and trowelled level, a small amount of the clean-up solution supplied can be lightly wiped over the surface, before removing the HD-33 Heavy Duty Masking Tape prior to the ST-1 curing.

ST-1 can also be applied as a surface coating. This is simply trowelled onto the required surface. The material is not designed to be trowelled in small strips as a large surface area is required to ensure a proper bond when ST-1 is being used for surfacing.

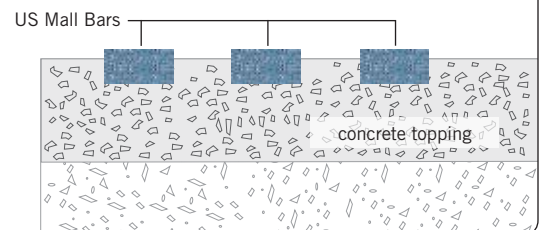
Repairing damaged and worn surfaces



Tredlite Illuminated Safety Stair Tread Nosings



Installing Mall Bars in concrete (ramp detail)



Installing Asbra™ Titazel™ ST-1 Trowelable Resin

