
INSTALLING FRP STAIR NOSINGS ONTO CHECKERPLATE

Install FRP onto the checker plate. To install FRP (Fibre Reinforced Polymer) stair nosing on a checker plate surface, employ a combination of robust mechanical fasteners, such as Tek steel screws, along with a strong adhesive, like Soudal T-Rex, to create a secure and durable bond.

Fasteners



Self-Drilling Screws sometimes known as Tek screws.

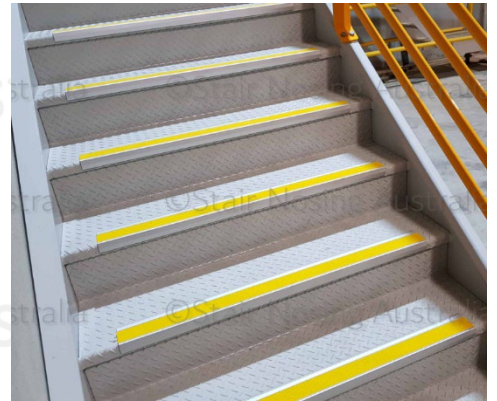
Self-drilling screws, often referred to as Tek screws, are a type of screw designed to create its pilot hole and cut its threads as it's driven into a material.

Tek screws are commonly used for fixing fiberglass sheeting to steel purlins or other steel structures.

You will require a countersunk head to ensure a flush finish, and the screws should be made of 316 stainless steel.

Please see notes below at end of document

Self-tapping screws are designed to create their own threads in the material being fastened; however, they usually require a pre-drilled pilot hole before they can be driven in. Unlike self-drilling screws, which have a drill point and can create both the pilot hole and threads, self-tapping screws rely on a pre-drilled path to start the thread-cutting process



Start by thoroughly cleaning the checker plate surface to remove any dirt, grease, or debris that might interfere with adhesion. This step is crucial, as a clean surface ensures maximum contact between the adhesive and the stair nosing.

Next, assess the surface for any irregularities and, if necessary, pre-drill holes at strategic intervals to facilitate the installation. This preparation will not only make the installation process smoother but also enhance the stability of the nosing.

Fasten with screws: First, use stainless steel self drilling or self tapping Tek screws.

After preparing the surface, apply a suitable adhesive evenly along the underside of the stair nosing. Furthermore, it is essential to select an adhesive specifically designed for FRP materials to ensure optimal bonding.



Finally, position the nosing carefully over the tread, ensuring that it aligns perfectly with the edge. Then, securely fasten it in place with screws, applying consistent pressure to help the adhesive set properly. This combination of adhesive and screws will result in a solid and lasting installation that enhances both safety and aesthetics.

Follow the adhesive manufacturer's instructions for curing time before allowing any traffic on the stairs, which is usually 8-12 hours or less.

NOTES:

Slow and Steady:

When screwing, start slowly and keep the screw straight to ensure a properly sized hole in the fiberglass.

Variable Speed Screw Gun:

A variable speed screw gun is recommended to control the screw's speed and prevent overheating, which can damage the fiberglass.

Avoid Over-Torquing:

Excessive pressure can lead to cracking, so use a moderate amount of force when driving the screw. Do not over-tighten fasteners

Consider a Pilot Hole (in some cases):

For very thick fibreglass or when working with specific materials, a small pilot hole may be beneficial.

