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Installation Guide – Anti-Slip GRP Stair Treads

Advance preparation

- It is essential that any damage or undulations to the receiving substrate are remedied to ensure the stair treads will be on a flat, even and damage free surface.

  If using adhesive, clean the substrate thoroughly to remove any oil, grease, dust or loose particles, making sure the underside of the stair tread is clean, dry and dust-free too.
- If the substrate has been affected, such as by oil or particles, or if its surface strength is insufficient, mechanical fixing will be necessary.
- Before applying an adhesive, it is advisable to carry out a dry-fit first to ensure a suitable fit.
- Our recommendation is to use a double fixing method consisting of a high strength adhesive and mechanical fixings.

Cutting Anti-Slip GRP Stair Treads

- Anti-Slip GRP Stair Treads can easily be cut to any size or shape with a hacksaw or jigsaw, however, if you are planning to cut a large quantity of stair treads, we recommend using orbital cutting equipment with either a stone or diamond blade.
- Cutting should be conducted outdoors, or in a well-ventilated area with proper dust extraction.
- Adequate protective gear must be worn during the cutting process to ensure safety.

Mechanical fixing Anti-Slip GRP Stair Treads

- Anti-Slip GRP Stair Treads can be drilled and effectively secured using pozi self-tapping screws, following these steps:
  - Mark out the desired fixing points on the top of the stair tread with pencil, then predrill with a suitable HSS drill bit.
  - Fixing is generally recommended at approx. 70mm in from the front, 60mm from the back, 50mm from each side and a maximum of 250mm between fixings.
  - Where the substrate is concrete, always ensure that the screw length is slightly longer than the plug length to obtain a solid fixing.
- It is the installers responsibility to ensure the substrate is of sufficient quality to achieve a secure fixing.

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Screws quantity

As an approximate guide:

- Using the guidance above, 14 fixings should be sufficient to mechanically fix one 3m stair tread, which is approximately 6 fixings per 1 liner metre of stair tread. We recommend purchasing at least 10% more than the quantity you calculate, especially if you plan to work with cut out shapes. Fixings can be purchased from Blue Diamond.

Bonding Anti-Slip GRP Stair Treads

- Once the advance preparation has been followed, the stair treads can be bonded as follows:
  - Run a 6mm bead of adhesive around the underside perimeter of the stair tread 25mm in from the edges and cross hatch at about 200mm apart.
  - Using hand pressure, bed the tread into position evenly.
  - Please note, optimum bonding will be obtained around 48 hours after application at 23°c. However, you can usually walk on the treads a few hours after bonding, depending on the temperature. Make sure you test an area first.
- When bonding the stair treads, we recommend the use of mechanical fixing to provide a secondary fixing. In this case, the holes must be pre-drilled before applying the adhesive, to prevent dust from contaminating the bonding process.

Adhesive quantity

As an approximate guide:

- With a 6mm bead, 1 x 300ml tube of adhesive sealant should be sufficient to bond 3.5 linear metres, which is approximately 85ml of adhesive per 1 linear metre of stair treads.

Please note, the amount of adhesive is entirely dependent on the method of application and the condition the substrate. We would always recommend purchasing more than the quantity you calculate, especially if there are to be cut shapes. As with screws, adhesive sealant can be purchased from Blue Diamond.

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Miscellaneous

- These installation instructions are in no way intended to be comprehensive but should be used as a guide.
- It is recommended to test the suitability of any fixing method on a small area before carrying out a full installation.
- For cleaning and maintenance please refer to the data sheet.

If you have any questions, we're only a phone call away **+44 (0) 1779 841 899**