VANGUARD™
Standing between you and harm

INSTALLATION GUIDE

How to Install Modular Raised Safety Platforms

What You Will Need

- **Drills:** Minimum two, depending on table size
- **Concrete Drill Bits:** 14mm diameter (for both drills)
- **Rattle Gun or Impact Driver:** With 10mm socket for tightening coach screws
- **Compressed Air Gun or Vacuum:** For clearing dust from fixing holes
- **Generator:** To power equipment on site (if required)
- **Rubber Modules:** Ensure all required blocks and components are on hand
- **Fixings & Epoxy:** Coach screws, washers, plastic expanding plugs, and quick-set epoxy for fixing holes
- **Signed-off Plans:** Approved layout and positioning drawings
- **Installation Team:** Recommended 4–6 people, depending on project size
- **PPE:** All team members must wear appropriate personal protective equipment
- **Traffic Management Setup:** Appropriate TMP must be in place

Step-by-Step Guide

1 Site Measurement and Planning

- Measure the required width and length of the speed table on site. Allow for pedestrian refuge islands or kerb connections with steel plates where applicable.
- Modules are 450mm wide by 1m long — calculate required quantities accordingly.
- Mark out the installation area using chalk or spray paint.

2 Placement of Rubber Modules

- Lay modules loosely across the road to form the speed table. Use supplied steel connectors to link modules together.
- Installation staging may depend on the Traffic Management Plan (e.g. half-lane construction). Adjust layout to suit site conditions.
- Confirm the layout is correctly positioned and fully covers the required area.

3 Positioning Sign-off

- Obtain sign-off from the council engineer or supervising authority confirming correct placement.
- Do not proceed until approval is received.

4 Drilling Fixing Holes

- Drill through all fixing points in each module (6 holes per module).
- Drill deep enough to allow 140mm screws to penetrate approximately 110mm into the substrate.
- Do not omit any fixing holes.

5 Clearing Fixing Holes

- Use compressed air or a vacuum to remove all dust and debris from drilled holes.

6 Applying Epoxy

- Apply quick-set epoxy (e.g. ATHP Blue) into each fixing hole (1–2 trigger pulls per hole).
- Work on one module at a time, as epoxy may begin setting in as little as 5 minutes depending on temperature.

7 Inserting Plastic Expanding Plugs

- While the epoxy is still fresh, loosely thread the coach screw into the plastic expanding plug.
- Insert the plug into the fixing hole.
- Use a rattle gun or impact driver to tighten the screw fully. An extension may be required to reach recessed holes.

8 Tapping in Rubber Caps

- Once all modules are secured, insert rubber caps into each fixing hole.
- Tap with a mallet until flush. Ensure sufficient clearance so caps seat correctly.

9 Final Check and Site Tidy-Up

- Check all modules are secure, aligned, and level.
- Obtain final approval from the engineer/supervisor confirming installation meets the plan.
- Remove all debris, tools, and excess materials from site.
- Observe vehicles driving over the speed table before leaving site to confirm correct operation.