

# EROSION CONTROL SYSTEMS

A division of Apex Masonry



**Terrafix 45**

Installation Guide

[www.erosioncontrolsystems.com.au](http://www.erosioncontrolsystems.com.au)

## STEP BY STEP GUIDE

### STEP 1 - UNDERSTAND THE CLIENT SPECIFICATIONS:

Begin the installation process by reviewing the client's plans & specifications, focusing on their expectations regarding the finish.

### STEP 2 - PREPARATIONS:

**Footings:** Understand the design requirements for footings, including depth, profile, and alignment in relation to other project elements like roads, shoulders, and services.

**Drainage:** Check for existing drainage details in the abutment, including headstock weep holes and scupper discharge. Misdirected scuppers can cause problems, so consider alternative solutions if necessary.

**Geotextile Selection:** Select a geotextile material that meets the project's demands. Select a non-woven staple fibre polyester like Texcel 400R due to its UV stability. This choice is crucial because Terrafix blocks, with approximately 10% open area, expose the geotextile to UV light over time. Avoid polypropylene or continuous filament polyester, as they are unsuitable for this application. Apply the bedding layer using a screed board (timber straight edge) for efficient and cost-effective results. Limit over-excavation and over-trimming to avoid unnecessary time and expense. The recommended bedding layer thickness is between 50mm and 100mm.

**Batter Evaluation:** Evaluate the abutment fill material for uniformity and compaction. Consider the need for a bedding layer to assist with the final trim for an adequate surface finish. A lean mix of cement-stabilized sand (10 parts sand: 1 part cement) can be used.

# Terrafix 45

## Installation Guide

### STEP 3 - INSTALLATION:

- Footings: Pour concrete footings according to design specifications. Check any other specific drainage requirements as per design.
- Batter Preparation: Ensure the batter is ready for block installation, aligning with footings, headstock, and any offset.
- Geotextile Placement: Lay the geotextile continuously down the batter, overlapping by a minimum of 500mm between drops. Avoid horizontal overlaps unless necessary. If required, use a "reverse tile" technique where the upper layer sits under the bottom layer for optimal performance.
- Placement: Start placing Terrafix blocks in the middle of the main face on the centreline. Progressively work outward layer by layer, ensuring proper alignment. Check the centreline occasionally for any creeping blocks. Avoid pinching the geotextile between block layers.
- Finish: Finish the top, ends (edges), and segmented joints with a hand-placed concrete curb/infill.
- Installation Notes: If there is any irregularity in the horizontal block lines during the initial installation, the easiest way for it to be corrected and manipulated is when there are at least 4 or 5 rows of blocks sitting on the row to be aligned. This is because they are flexible, and the weight/mass of the upper rows helps everything sit in place. If horizontal correcting alignment is required, you can use small chips of fibre cement sheeting between the collars of the blocks.

### Additional Notes:

While this guide may seem complex, the installation process is relatively straightforward, like laying pavers or concrete blocks. Always adhere to OH&S guidelines regarding batter angles and heights. Depending on the project parameters, the use of Elevated Work Platforms (EWP) and harnesses for installers may be necessary and use small chips of fibre cement sheeting between the collars of the blocks.

**FREE PALLET COLLECTION**

For free pallet collection service call 1300 781 620 or lodge a pick up online at [www.apexmasonry.com.au](http://www.apexmasonry.com.au) or drop pallets back to place of purchase.

**P** 1300 781 620

**E** [info@erosioncontrolsystems.com.au](mailto:info@erosioncontrolsystems.com.au)

17 Industrial Avenue

Maryborough Q 4650

[www.erosioncontrolsystems.com.au](http://www.erosioncontrolsystems.com.au)

Erosion Control Systems are the sole suppliers of Durahold and the only manufactures of Terrafix in Australia.

**COLOUR VARIATION**

Due to the changes in raw material, variation in colour can occur. When ordering your product, order all products of your project together to reduce the possibility of colour variation. We do not guarantee different batches will be the same colour.

**EFFLORESCENCE**

Efflorescence (a salty deposit) is a natural occurrence in masonry products. Efflorescence does not affect the structural integrity of the product and will usually diminish and disappear in the course of time as the product is exposed to the elements. No responsibility will be accepted for the occurrence of efflorescence.

**CLAIMS**

Claims must be reported within 72 hours of delivery. No claims will be accepted once product has been installed. Please contact the store where goods were purchased to report any concerns regarding product delivery or quality.