

# TREX

Concrete Blanket  
Installation guide



**Strengthening Every *Slope*:  
Durable Solutions with  
Concrete Blanket.**

**Concrete Blanket  
Installation Guideline:  
Solutions for Slope  
Protection.**



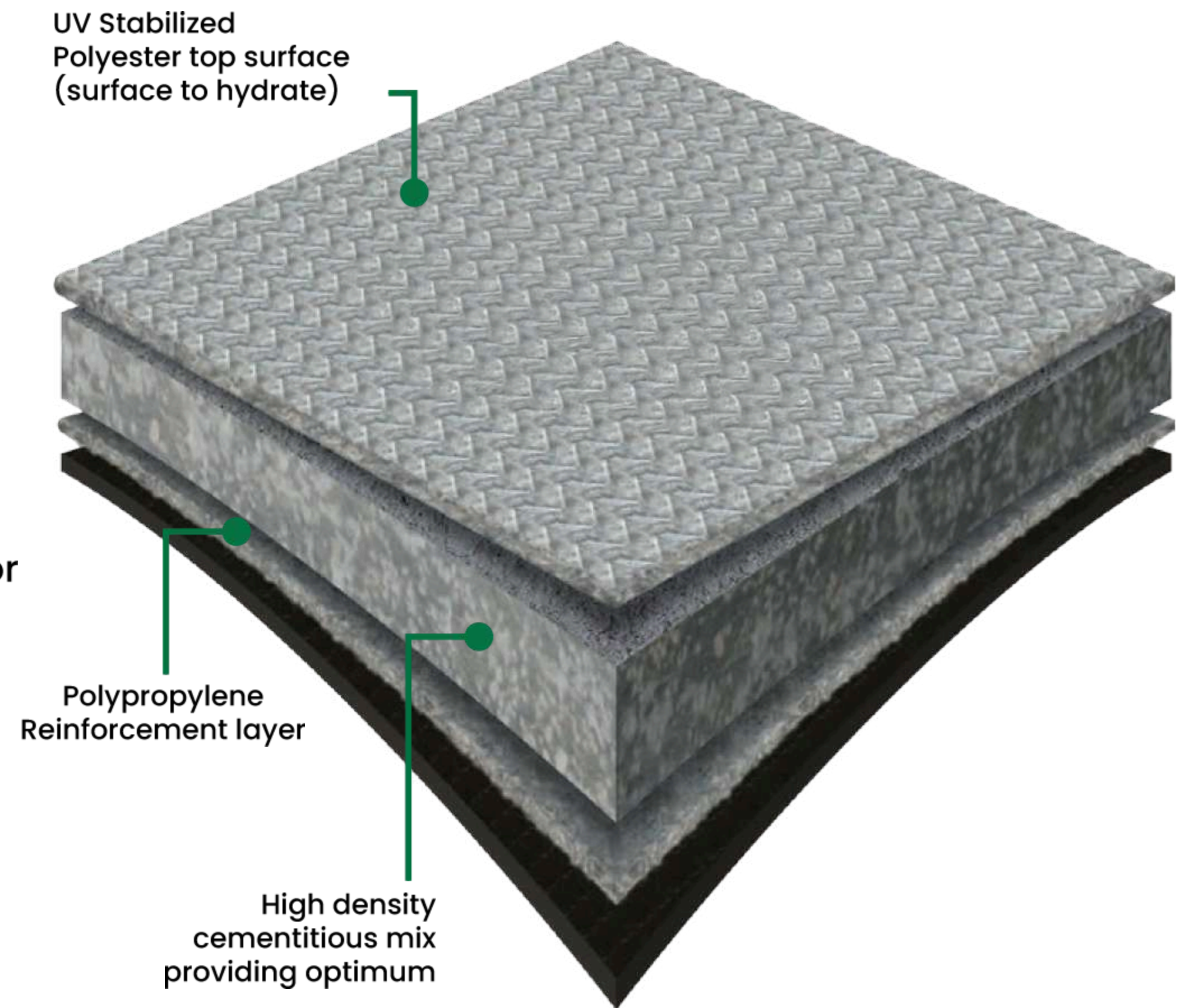
**TREX**

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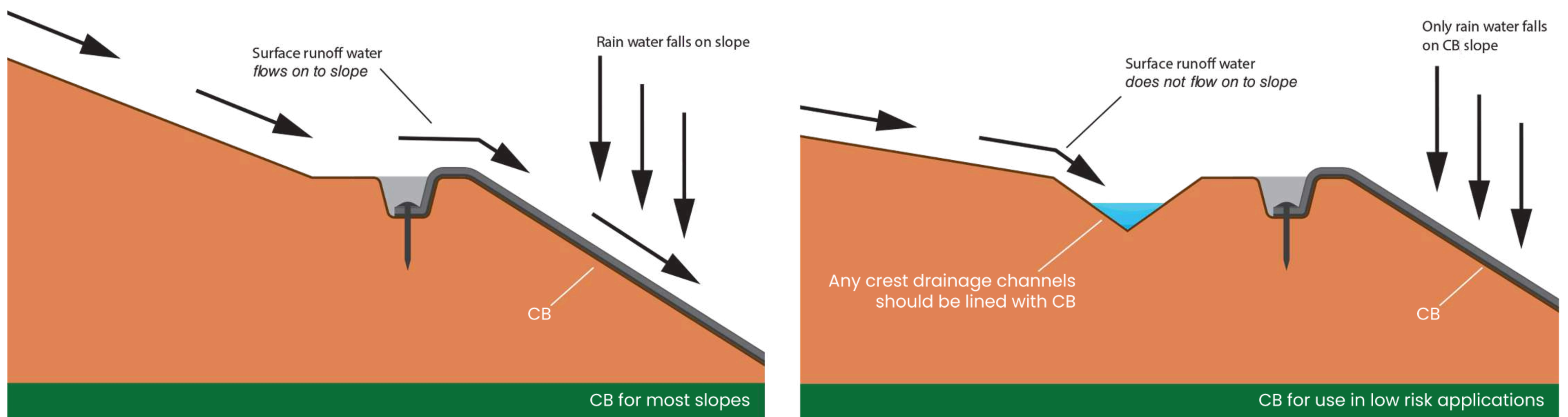
## 1.1 General

Concrete Blanket is part of a revolutionary class of construction materials. It is a flexible, concrete-filled geosynthetic that hardens on hydration to form a thin, durable, waterproof concrete layer.

Essentially, it can be described as Concrete on a Roll and is used for a wide variety of applications, including rapid lining of drainage channels, slope protection, weed suppression, culvert repair, and general concrete remediation.



### Typical Concrete Blanket Cross Section



The information contained in this document is provided subject to the General Disclaimer on the last page. A printable copy of the current version of our **General Disclaimer** is maintained at the following link.

Subject to the above, this document provides general guidance procedures for the installation of **Concrete Blanket** for slope protection, however:

- This installation guidance should be read in conjunction with the construction drawings, taking account of the designer's project specifications. Note that **CB** is an erosion protection product and is not intended to be used as a structural facing for slope stabilization projects. Consult the **Concrete Blanket Specification Guide: Slopes** for standardized design and installation advice.
- The versatile nature of **CB** means that this document is not exhaustive and is intended for guidance purposes only. Exceptions may be required to address site-specific conditions.
- The performance of **CB** is wholly dependent on the quality of its design and installation. It is the installer's responsibility to adhere to these guidelines where applicable and to the project specifications and construction drawings.



## 2.0 Equipment Required



- Sufficient CB to complete the project (including allowance for edge fixings and overlaps)
- Suitable lifting equipment to dispense CB Rolls
- Safety mask and gloves
- Cutting equipment (snap-off knife or disc cutter)
- Metal or plastic fixing pins
- Lump hammer
- Mole grips or flat welding clamps
- Fixings for jointing and appropriate fixing equipment (consult the CB Jointing Guide)
- Water supply
- See the CB Equipment List for full details



For ordering, offloading, and storage information, see the CB Logistics Guide. Dust hazard—wear appropriate PPE. Consult the CB SDS document.

## 3.0 Substrate Preparation



- Divert water (if lining a slope to an existing watercourse).
- Remove vegetation and grade the slope to a uniform profile.
- Remove sharp or protruding rocks (>25mm) and fill large voids.
- If the perimeter edge of CB terminates in soil (not connected to existing infrastructure), excavate anchor trenches (crest, toe, and sides).
  - For slopes  $\leq 4\text{m}$ , anchor trenches must be minimum 300mm x 300mm, set back  $\geq 1\text{m}$  (or as specified by the designer).
  - Consult the designer for slopes  $> 4\text{m}$ .
- Verify if additional substrate preparation (e.g., non-woven geotextile, drainage details) is required per construction drawings.

All slopes must be geotechnically stable before deployment. CB is an erosion control product, not a structural facing for slope stabilization.



Substrate preparation

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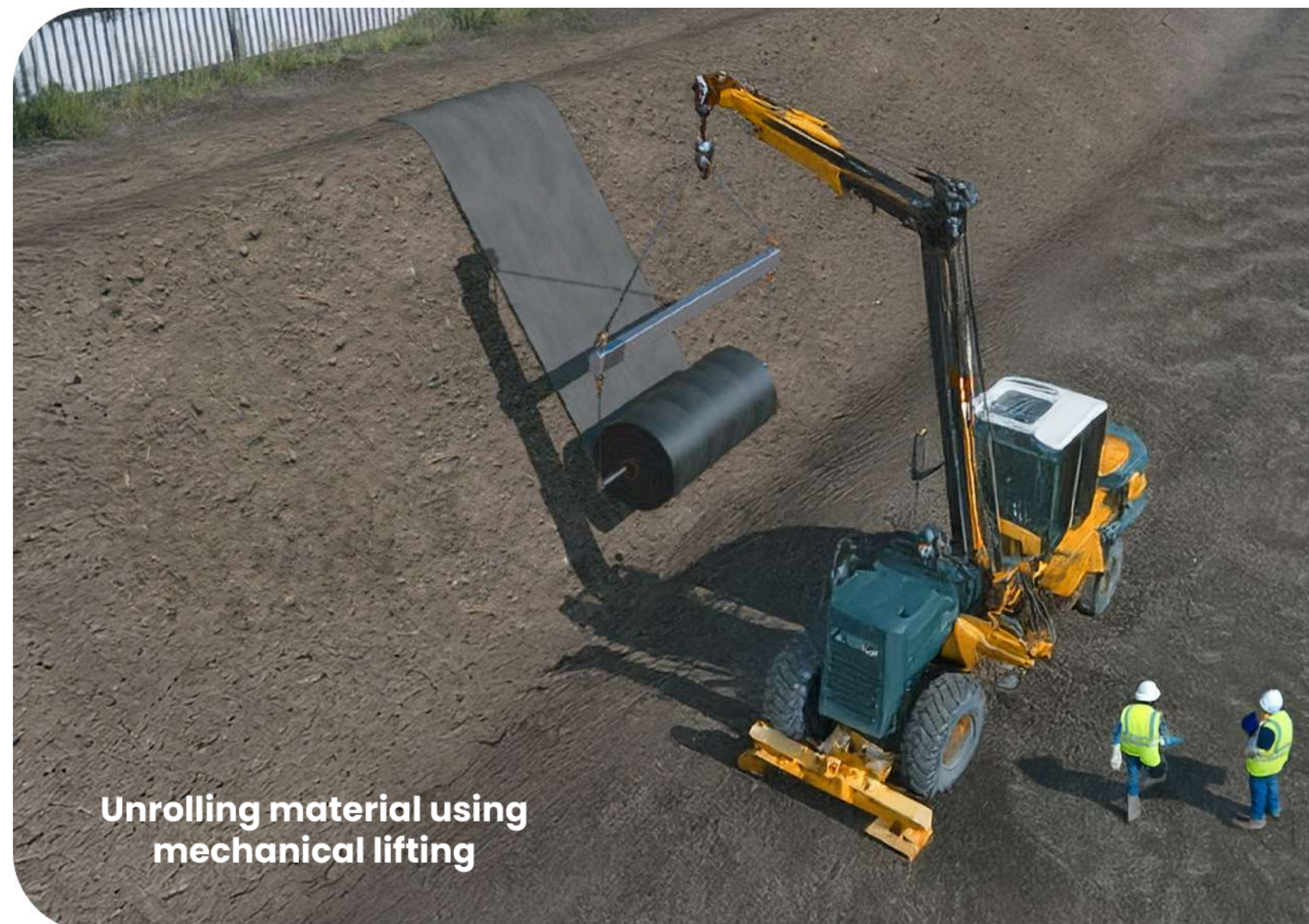
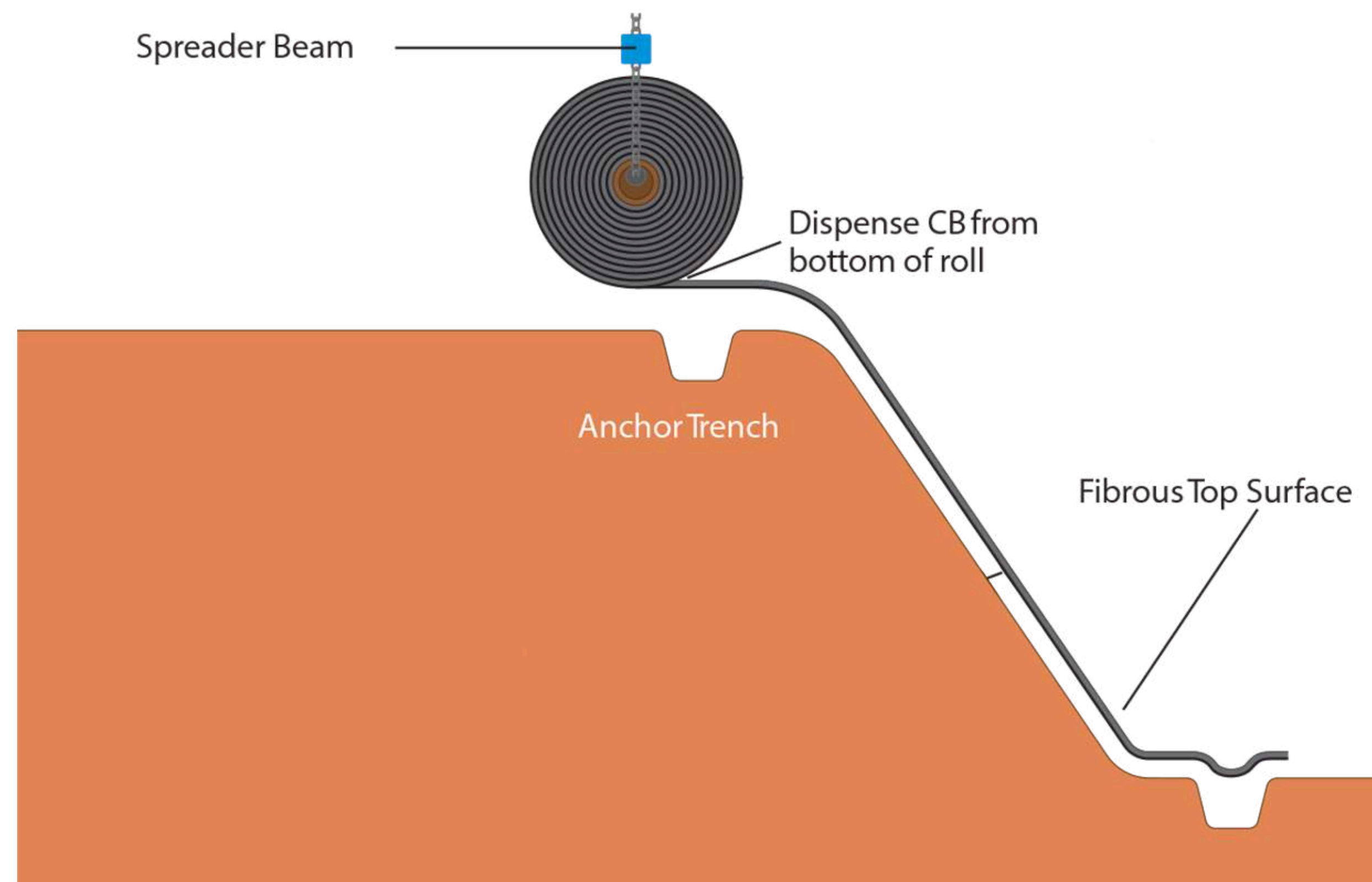
## 4.0 Deployment

- Remove packaging (note Roll ID) and unroll CB8 on the slope per design (vertical/horizontal layout).
- Fibrous top surface faces upwards.
- Dispense by naturally unrolling—do not pull from the top to avoid snagging.
- Relax the material to relieve tension (lift and reposition by hand).
- Avoid walking on CB (use timber boards if necessary).
- Tuck edges into anchor trenches before cutting (leave 15-20mm allowance for unset material).
- For disc cutting, wet the cut to minimize dust.
- Terminate edges into infrastructure or anchor trenches to prevent water ingress.
- Overlap subsequent layers 100mm (align with blue overlap marker line).
- For watercourses, overlap in the direction of water flow (shingled like roof tiles).
- Replace damaged sections before hydration.
- Use temporary ballast (sandbags) or pegs to prevent wind uplift and ensure conformity.

## 5.0 Jointing

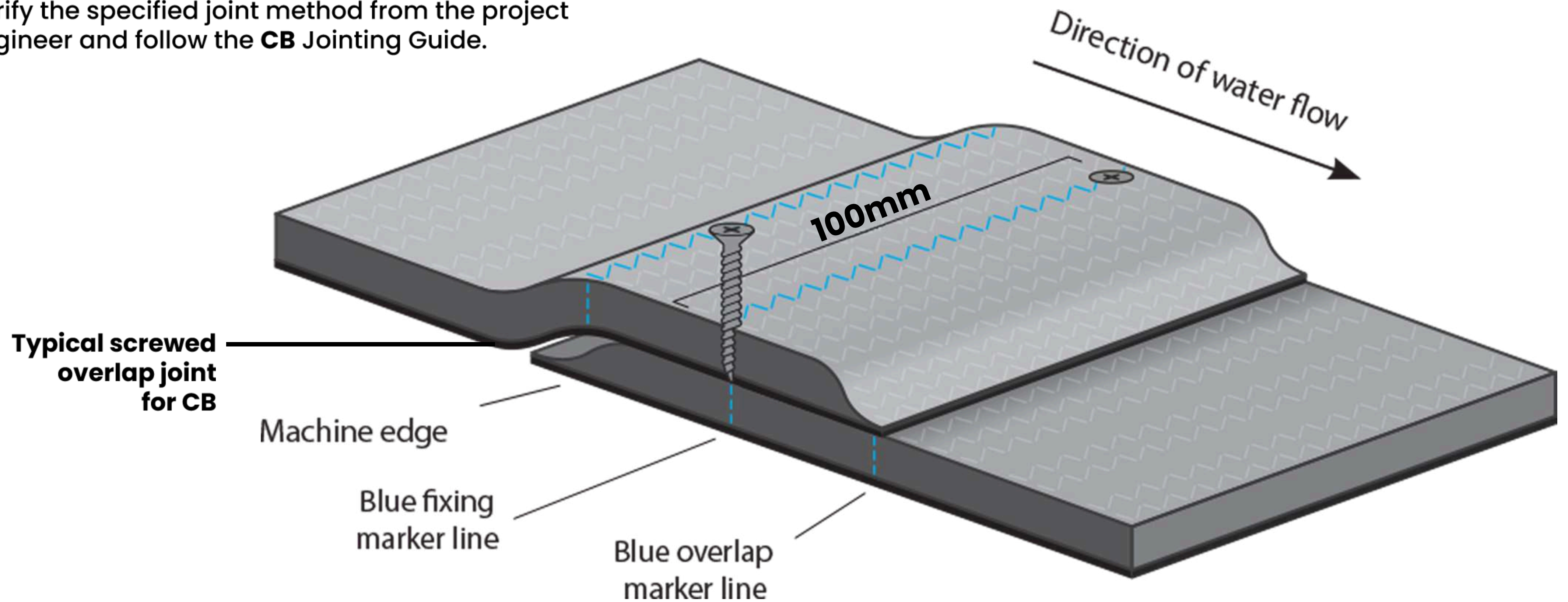
- Verify the specified joint method from the project engineer and follow the CB Jointing Guide.

### Substrate preparation



## 5.0 Jointing

Verify the specified joint method from the project engineer and follow the **CB Jointing Guide**.

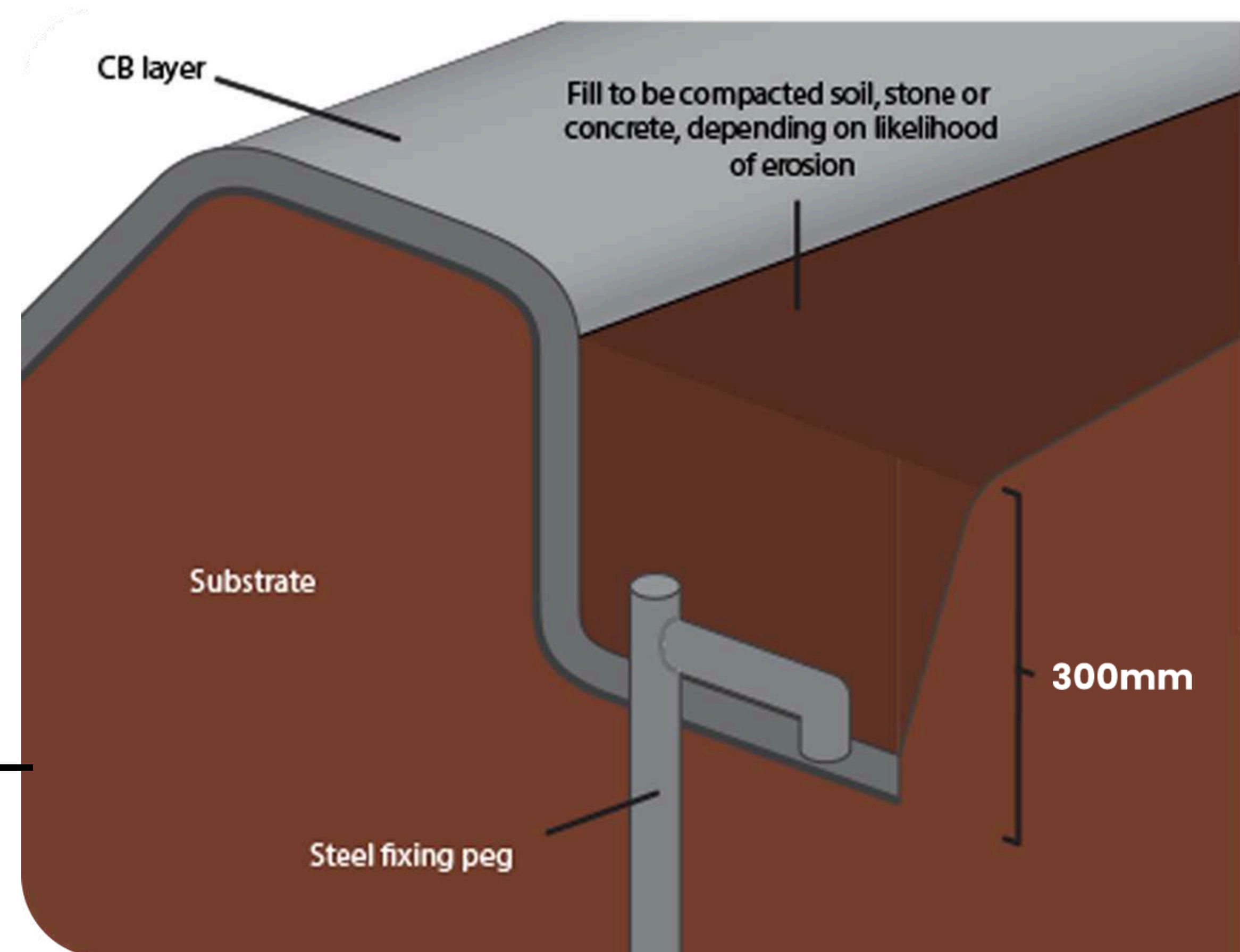


## 6.0 Perimeter Edge Fixing

### 6.1 Fixing to Soil (Anchor Trenches)

- Position **CB** into the trench.
- Insert fixing pegs at overlaps or  $\leq 2\text{m}$  intervals (horizontal installations).
- **Hydrate before backfilling** (use non-erodible fill per design).

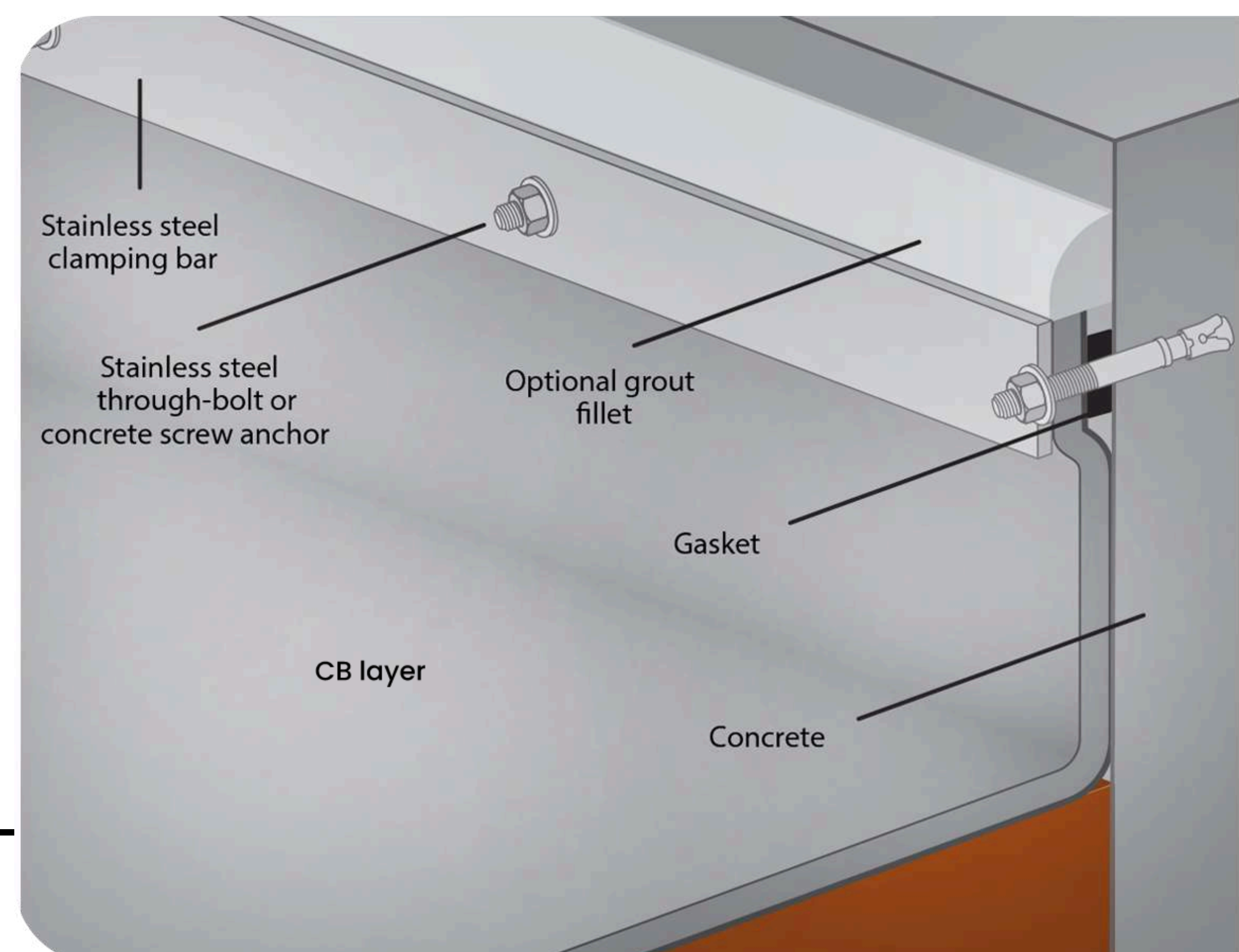
Cross section at crest: pinned & backfilled crest anchor trench



### 6.2 Fixing to Concrete/Masonry/Rock

- Drill pilot holes through **CB** and structure.
- Use sealant/gasket and washers/clamping bar for a watertight seal.

Edge anchor to concrete: clamping bar with neoprene gasket and grout fillet



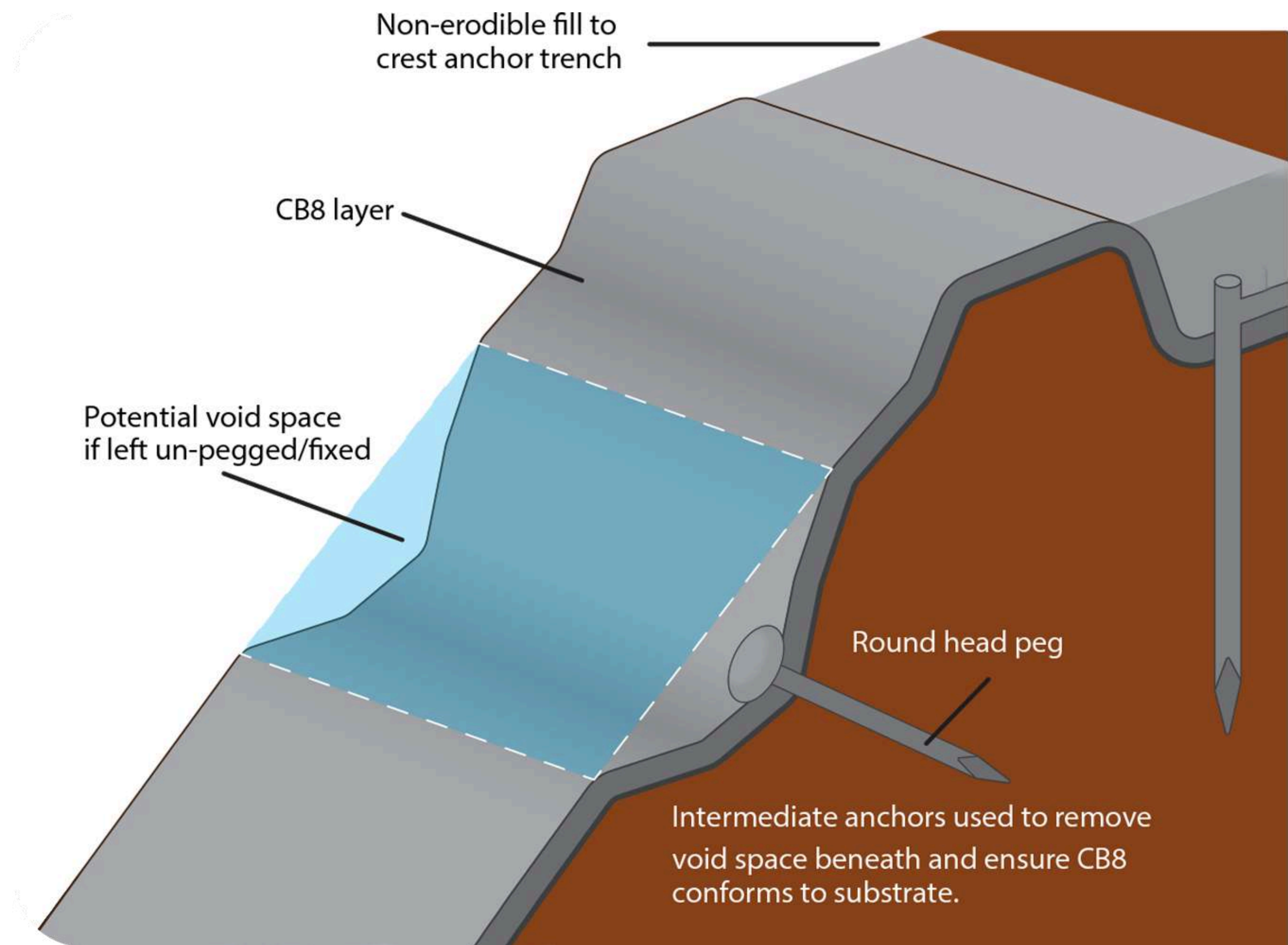
## 7.0 Intermediate Fixings

Required for:

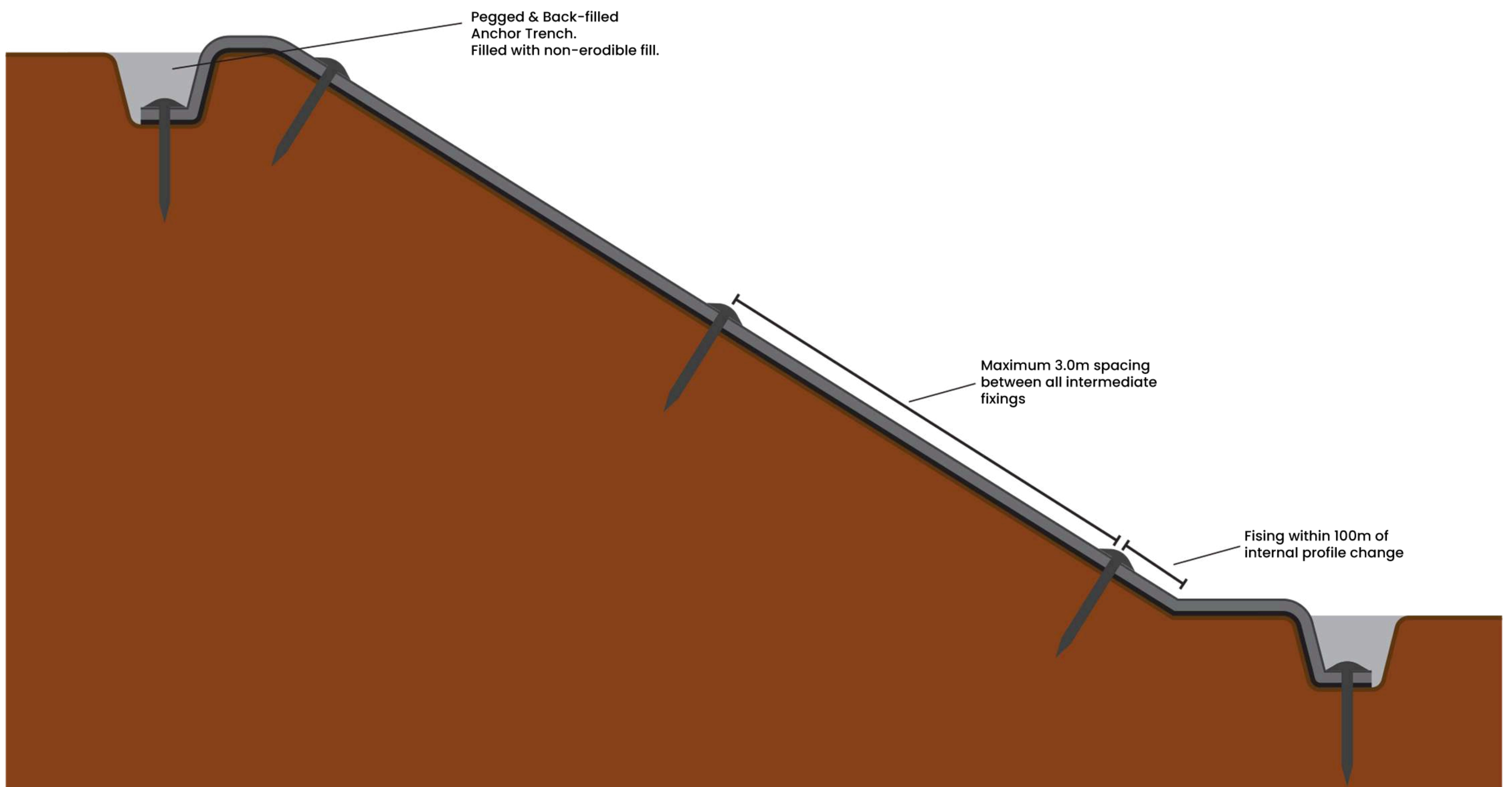
- Uneven substrates (to remove voids).
- Large structures (>3m profile lengths).
- Wind loads (slopes >12m in exposed areas).
- Hydraulic shear (slopes >10% gradient in watercourses).

Consult construction drawings for bespoke details (e.g., pipe penetrations, drainage channels).

### Intermediate anchors for profiling.



### Intermediate anchors for large structure detailing





## 9.0 Hydration

Brush clean before hydration.

- Spray fiber surface **multiple times until saturated** ( $\geq 7.5\text{L}/\text{m}^2$ ).
  - **Do not use high-pressure water.**
- Re-spray within 30 minutes.
- **Thumb test:** If water pools in depression, hydration is sufficient.
- Follow **CB User Guide: Hydration for high/low-temperature conditions.**
- Do not rely on rainfall.



Ensure adequate hydration, do not rely on rainfall



## 10.0 Setting

- **30-minute working time** after hydration.
- Backfill anchor trenches per design.
- **Sets in 24 hours, fully cures in 48 hours.**
- Avoid surface treatments (e.g., jet washing, painting) until fully cured.
- **Do not rely on rainfall.**

Backfill anchor trench

## 11.0 Installation Sequence

- Morning: Deploy and secure perimeter edges.
- Afternoon: Joint panels, install intermediate fixings.
- Late afternoon: Hydrate (follow environmental guidance).
- Protect unjointed edges overnight with waterproof sheeting.

## 12.0 Inspection, Maintenance & Repair

- Typically maintenance-free unless silt traps are installed.
- For damage inspection/repair, consult CB8 User Guide: Inspection, Cleaning & Maintenance.

## General Disclaimer

The information in this document is for general guidance only. Neither the manufacturer nor its affiliates accept liability for any loss arising from reliance on this information. Third-party designers/contractors bear sole responsibility for product suitability and project-specific design.

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Shaping the future

