



INSTALLATION GUIDELINES

TECHMAT BIODEGRADABLE

IG/BEC/TECHBIO/1217/V001

INTRODUCTION

The following is offered as a guideline only to assist and help the installer with a general method for adoption when installing TECHMAT Biodegradable Rolls. No responsibility or warranty is offered by Technical Civils Solutions upon use of these guidelines.

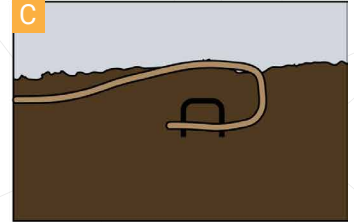
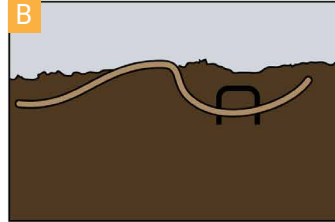
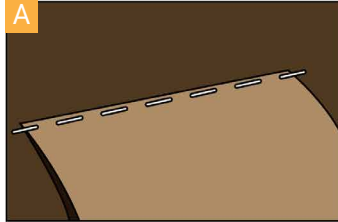
Permanent erosion control is best achieved with permanent vegetation. TCS Geotechnics Biodegradable Erosion Control Blankets provide short term protection from erosion and facilitate the establishment of vegetation to assist with longer term protection.

Not all potential erosion is the same. Soil type, length of slope, moisture availability, fertility, and slope angle are only a few of the variables to consider when planning erosion prevention measures. TCS provides a variety of blanket types for different situations.

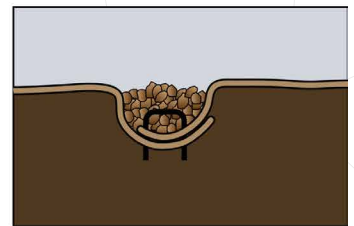
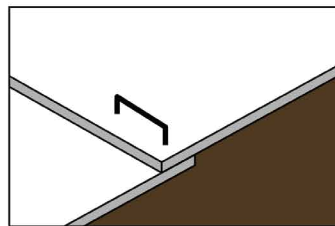
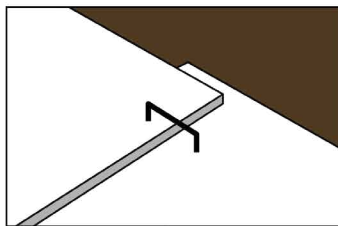
GENERAL PREPARATION

1. Rake areas to be covered, remove large loose stones. fill hollows and terrace or groove horizontal highly erodible slopes.
2. If underseeding, broadcast seeds and spread fertiliser if specified.
3. Re-rake area and lay blankets either horizontally along short or shallow slopes and watercourses, or vertically down longer and steeper slopes.
4. Blankets must be laid to conform closely to slope geometry, pinned as necessary, and must not be stretched. Blankets are generally secured with 300mm mild steel pins.
5. Overlap edges of adjacent blankets by 50mm to 150mm and pin through overlaps. The outer edges of the blanketed area should be laid and pinned into 150mm deep 'V' trenches, backfilled with soil and secured with fixing pins.
6. Generally it is not necessary to water blankets, wait for rain to do this work. In the event of drought after germination, blankets should be regularly watered for viable growth.
7. If the blanket has been laid over a non-organic subsoil, a slow release fertiliser may be applied 3 to 4 weeks after germination.

ANCHORING METHODS



GENERAL OVERLAPPING



Side overlap 50mm

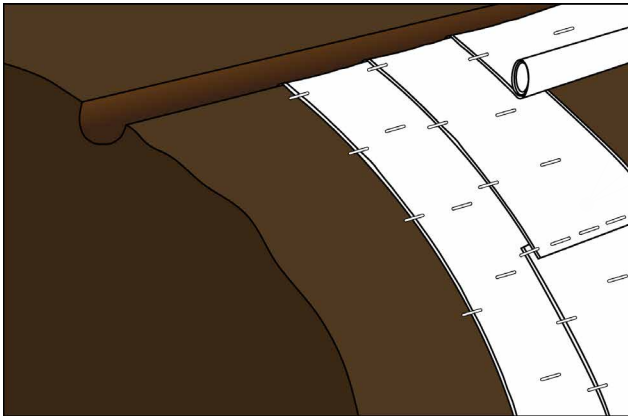
End overlap 150mm

Check slot

REGISTERED OFFICE ADDRESS

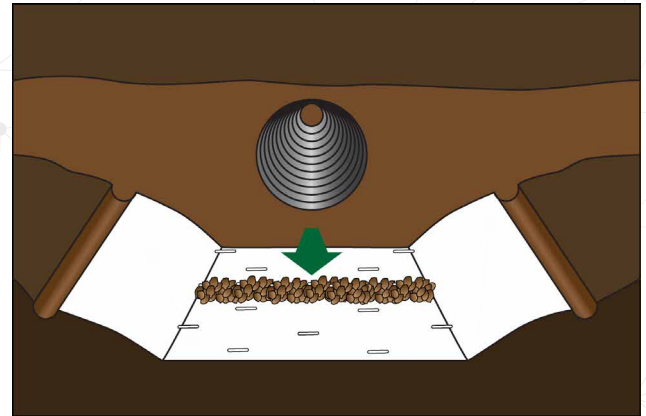
Units 2 & 5 Tetbury Close
Martland Industrial Park
Wigan
Greater Manchester
WN5 0LA





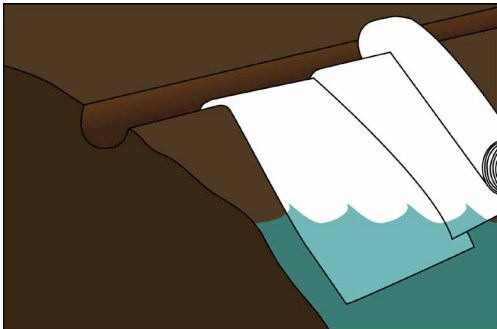
SLOPES

- Grade and smooth slope. Apply fertilizer and seed prior to installing blankets.
- Anchor blankets at top of slope. Use anchoring method "A" for 4:1 slopes, "B" for 3:1 slopes and "C" for 2:1 and steeper slopes
- Unroll blankets in direction of waterflow. Place blankets loosely and in full contact with the soil.
- Overlap blanket edges approximately 50mm and staple.
Note: install blankets so edge overlaps are shingled away from prevailing wind.
- Overlap blanket ends 150mm, upper blanket over lower blanket, and pin using five pins (anchor "A")
- Cut excess blanket with scissors and anchor at end of slope. Use anchoring method "A" for 4:1 slopes and "B" for slopes 3:1 or steeper.



CHANNELS

- Grade and smooth slope. Apply fertilizer and seed prior to installing blankets.
- Anchor blankets at top of channel ("B"). Backfill with check slot material. For culvert outfalls, place blanket at least 300mm upstream from pipe opening.
- Install a blanket in the center of the channel, in the direction of water flow. Additional blankets are installed at the edges of this center blanket.
- Construct check shots with soil, gravel, or stone, in the middle (14m) and end of each blanket.
- Overlap side channel blanket edges 100mm over the center channel blanket and pin.
- Anchor the top edge of the side channel blankets ("B").
- Anchor the terminal ends of blankets in a check slot.



SHORELINES

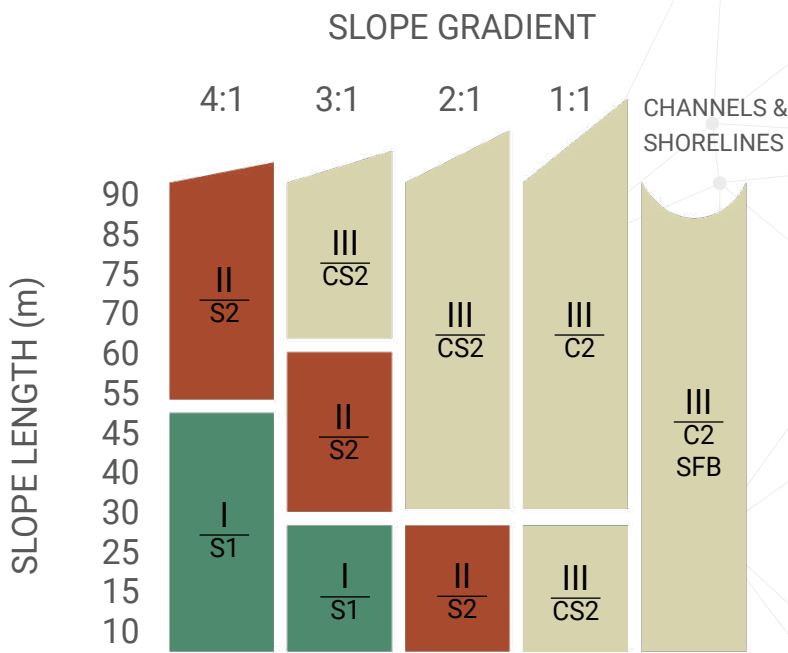
- Grade and smooth channel. Apply fertilizer and seed prior to installing blankets.
- Install blankets during the lowest possible water level.
- Install blankets horizontally along shoreline if one width is sufficient.
- Secure top edge of blanket ("B").
- Overlap blanket ends and pin ("A").
- Anchor bottom edge of blanket ("B").
- For shorelines steeper than 3:1 slope, install blankets vertically using **slope** instructions.

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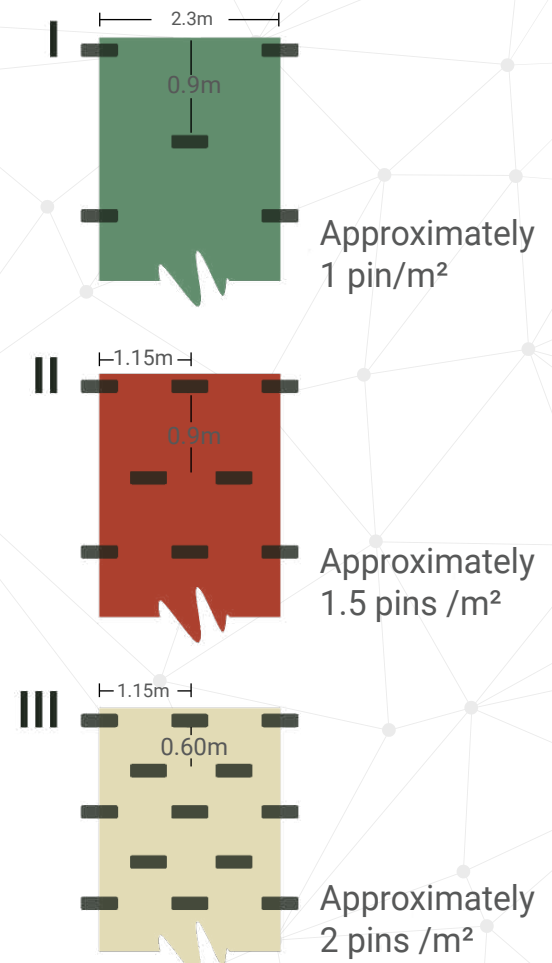
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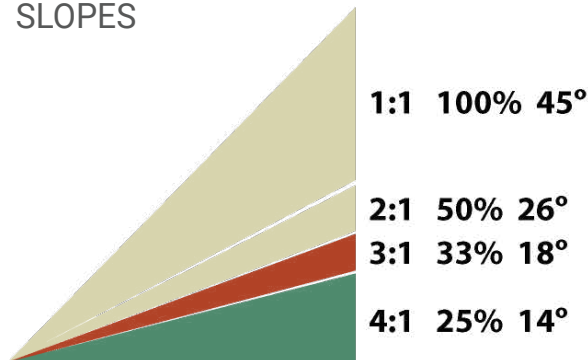
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PINNING PATTERNS



SLOPES



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Units 2 & 5 Tetbury Close
Martland Industrial Park
Wigan
Greater Manchester
WN5 0LA



BRANCHES

WIGAN

UNITS 2 & 5 TETBURY CLOSE
MARTLAND PARK
WIGAN
LANCASHIRE
WN5 0LA

TEL: 01942 218597

EMAIL: SALES@TCS-GEOTECHNICS.CO.UK

FINCHAMPSTEAD

UNIT 7
SUNFIELD BUSINESS PARK
FINCHAMPSTEAD
BERKSHIRE
RG40 4QT

TEL: 01189 736313

EMAIL: SALES@TCS-GEOTECHNICS.CO.UK



www.tcs-geotechnics.co.uk