



ECOMAT JUTE

—
INSTALLATION GUIDELINES
EROSION PROTECTION APPLICATIONS

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0800 247 839 | WWW.CIRTEX.CO.NZ

INTRODUCTION

This installation guideline is for temporary erosion protection applications. It includes storage and handling, and installation of EcoMat Jute material. This guide is generic in nature and would be superseded by any project specific installation guidance.

APPLICATIONS

This installation guide is applicable for EcoMat Jute installation applications including:

- Steepened slopes
- Road, rail and sound barrier embankments
- Low flow stormwater channels
- Highly erodible soils
- Heavy rainfall areas
- Parks, amenity areas, golf courses and sports grounds
- Quarries and landfills





STORAGE AND HANDLING

When the EcoMat Jute rolls are delivered to site it is recommended to check the type and grade match the requirements of the project documents. All EcoMat Jute rolls should be marked clearly and in good condition before being accepted on site.

EcoMat Jute is transported and stored in rolls. These rolls can be stacked on top of each other but must not exceed seven rolls high. If stored on the ground, place a tarpaulin down first to help protect the rolls from dirt and wrap over the top of the rolls to keep them dry, and easy to handle. For stacked rolls extra care is required to ensure the stack is stable and the rolls cannot fall or roll.

EcoMat Jute rolls are supplied in easy to handle rolls and can typically be installed manually without any machinery.

If you have any questions regarding storage and handling of EcoMat Jute, please contact your Cirtex® representative.



TIP

It is important to note that EcoMat Jute is manufactured from plant coconut fibres which absorb moisture and are designed to break down over the design life of the project. If rolls are not kept dry while being stored onsite, it could cause the product to prematurely begin the biodegrading process before it has been applied to the site.



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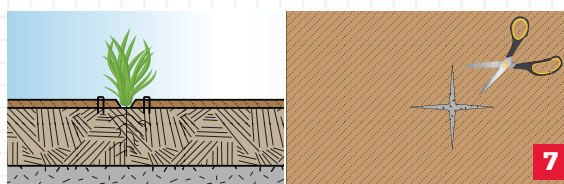
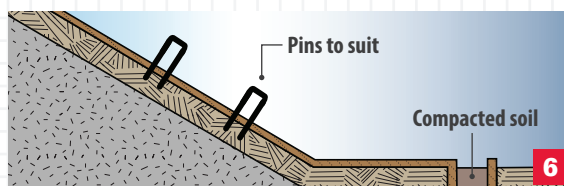
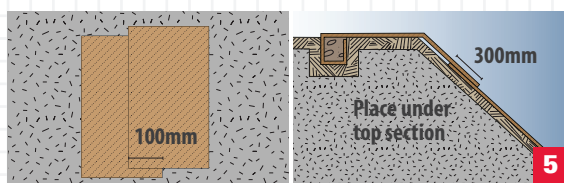
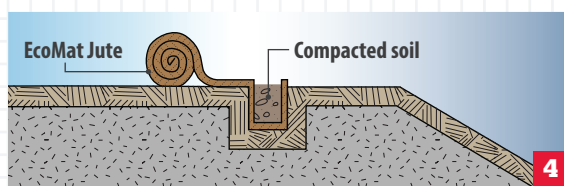
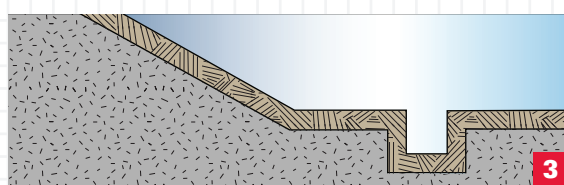
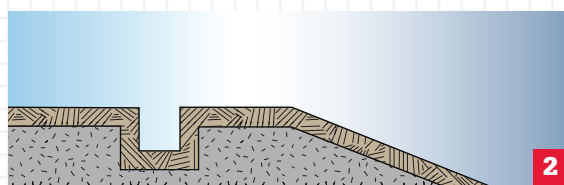
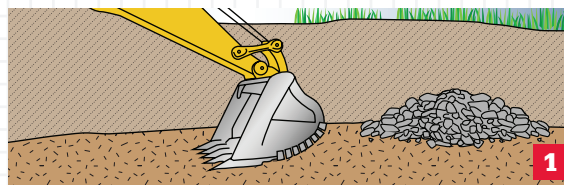
SLOPE INSTALLATION DETAIL

1. Prepare the ground by clearing away any rocks and debris and level as much as possible to ensure the EcoMat Jute will have adequate ground contact. It is best practice to leave planting of plants until EcoMat Jute is in place. (See step 7)
2. Create an anchor trench at top of slope a minimum of 600mm back from the crest with the minimum dimensions of 150mm deep, 150mm wide along the slope where the EcoMat Jute will be applied.
3. Repeat the step above for the toe of the slope (600mm out from the toe of the slope).
4. Line the anchor trench at the crest of the slope with EcoMat Jute and backfill and compact as you make your way along the slope.
5. Roll out the EcoMat Jute down the slope and ensure you maintain a 100mm overlap between adjacent rolls and 300mm for joins part way down the slope. Repeat step 5 and line the anchor trench at the slope toe.
6. Pin the matting to the slope using the designed fixing pins and at a spacing that suits the application. Refer to diagrams for typical recommendations.
7. For planting into EcoMat Jute, neat cuts should be made into the matting to allow plants to be inserted. As best practice we would recommend pinning the loose ends of the cut once the plant has been planted.

These guidelines are recommendations only.

GENERAL

While there are many different applications that EcoMat Jute is used in, for simplicity we have broken it into the two most common categories: slopes and channels.



TIP

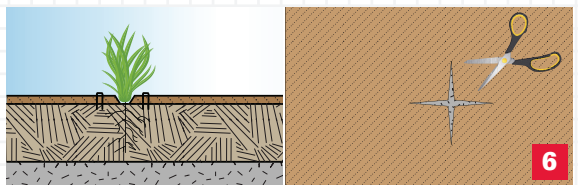
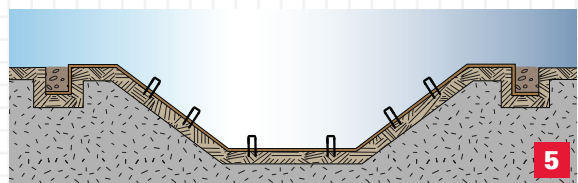
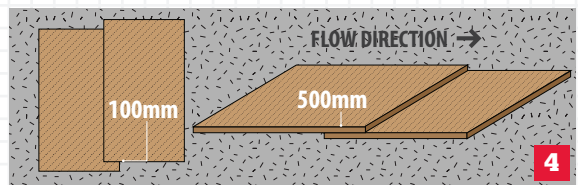
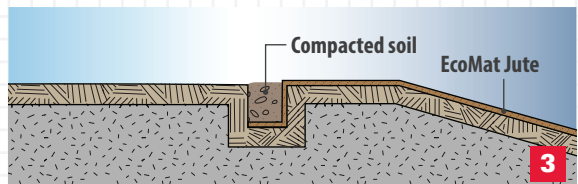
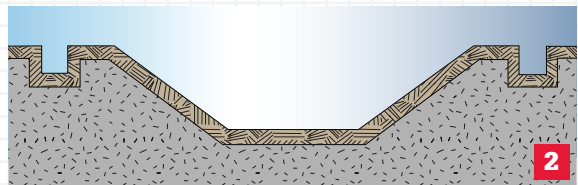
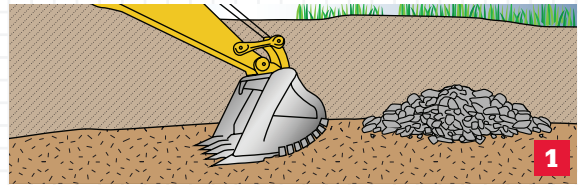
When hydroseed hydrosil is to be used, we recommend to apply this directly into the growing media first, then apply the EcoMat Jute.



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CHANNEL INSTALLATION DETAIL

1. Prepare the ground by clearing away any rocks and debris and level as much as possible to ensure the EcoMat Jute will have adequate ground contact. It is best practice to leave planting of plants until EcoMat Jute is in place. (See step 6)
2. Create an anchor trench at top of the batters on either side of channel a minimum of 600mm back from the crest with the minimum dimensions of 150mm deep, 150mm wide along the slope where the EcoMat Jute will be applied.
3. Line the anchor trench at the top of the channel sides with EcoMat Jute and backfill and compact as you make your way along the channel.
4. Roll out the EcoMat Jute down the channel (in the flow direction) and ensure you maintain a 100mm overlap between adjacent rolls (side-by-side) and 500mm for longitudinal joins along the channel (end-on-end).
5. Pin the matting to the channel using the designed fixing pins and at a spacing that suits the application. Refer to diagrams at end of Installation guide for typical recommendations.
6. For planting into EcoMat Jute, neat cuts should be made into the matting to allow plants to be inserted. As best practice we would recommend pinning the loose ends of the cut once the plant has been planted.



These guidelines are recommendations only.



WARNING

Installations on steep slopes will require the correct safety gear.



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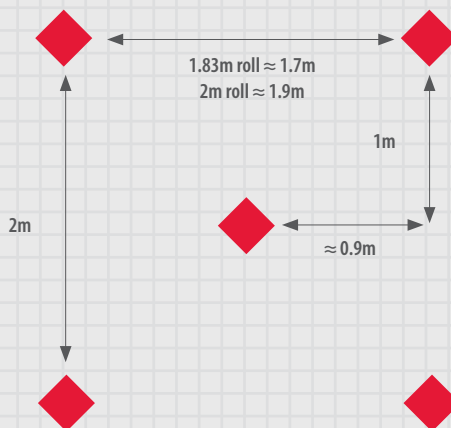
PINNING DIAGRAMS

Please note these diagrams are generic recommendations and the project engineer's instructions must take precedence.

FLAT SURFACES & SHALLOW SLOPES

≤ 4:1

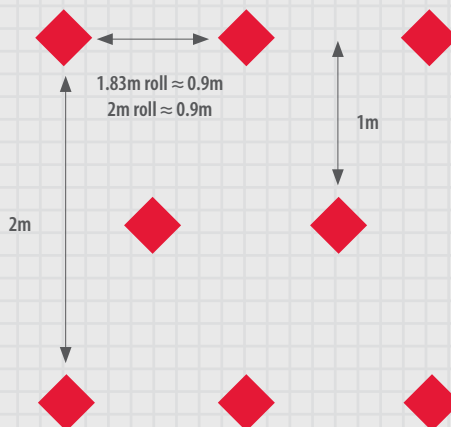
Approximately 0.7 pins per m²



MEDIUM SLOPES

≤ 3:1

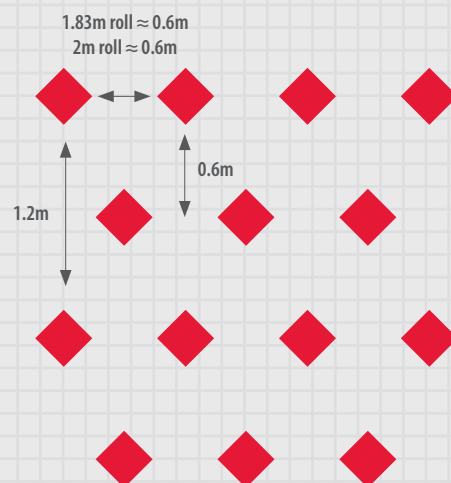
Approximately 1.2 - 1.4 pins per m²



STEEP SLOPES & CHANNELS

≤ 2:1 to 1:1

Approximately 2.8 - 3.2 pins per m²



NOTES

*Dimensions allow for pins to be placed approximately 50mm from the roll edge.

PIN OPTIONS

Making sure the EcoMat Jute is properly secured to the soil is an important detail and is essential to allow it to perform as designed.

Several pin options are available, and it is critical that the correct length and type is selected for your specific project (typically dictated by the soil type). As a rule of thumb, the softer the soil the longer the pin required.



MAINTENANCE

EcoMat Jute is a biodegradable matting which does not require any long term maintenance. However, there are a few important points to be aware of during the period while the matting breaks down:

REPAIR

If the EcoMat Jute is damaged following installation causing gaps to form (exposing the soil underneath), these should be covered with a patch of EcoMat Jute cut to size to cover the affected area and extend 300mm beyond the edges of the damaged area.

WEED SUPPRESSION

EcoMat Jute will help to suppress weeds while plants become established however is designed as an 'erosion control' matting and will not act as a traditional synthetic weedmat. If vegetation (plants) have not become established and covered the area within this period, weed control may be required by spraying or physically removing. Care should be taken not to tear the matting.



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CIRTEX INDUSTRIES LTD

Head Office 16 Queen Street | Kopu
Thames 3578 | NZ

Postal Address

PO Box 470 | Thames 3540 | NZ

0800 CIRTEX (247 839)

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