The following illustration is to be used as a guide only. The intention is to give customers a basic understanding of how our materials are packaged and deployed.

These instructions are very generic and can be used for various applications. Every application and installation will vary on actual procedures used. GeoCHEM, Inc. shall not in any event be liable for incidental or consequential damages.

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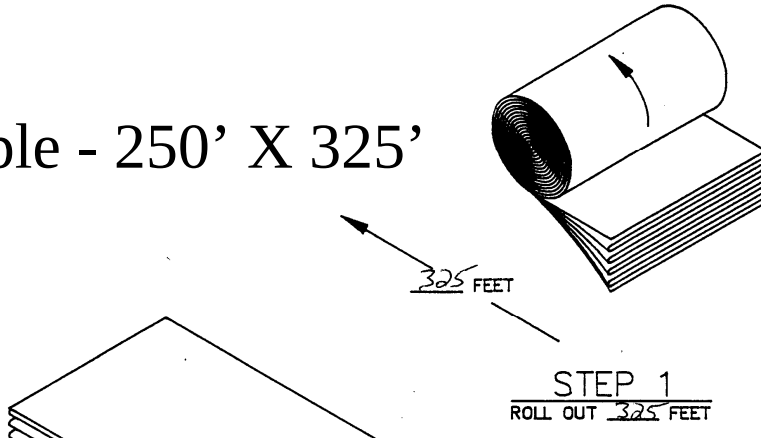
Geotextile should be used if placing material over rocky sub-grade or surface with sharp objects to cushion the liner and to add puncture resistance. Rocks three inches or larger should be removed from sub-grade if geotextile is not used.

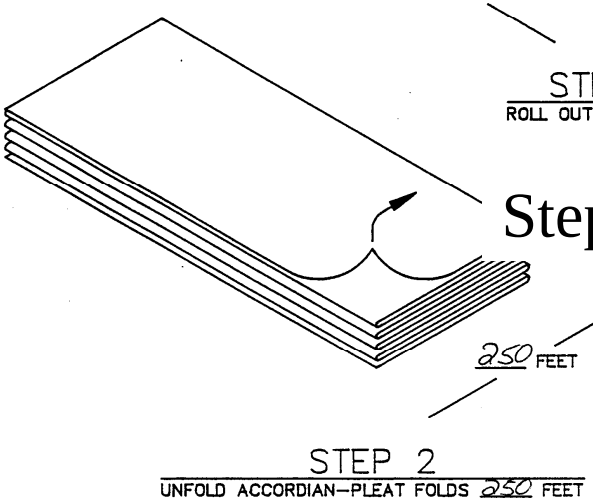
Example - 250’ X 325’



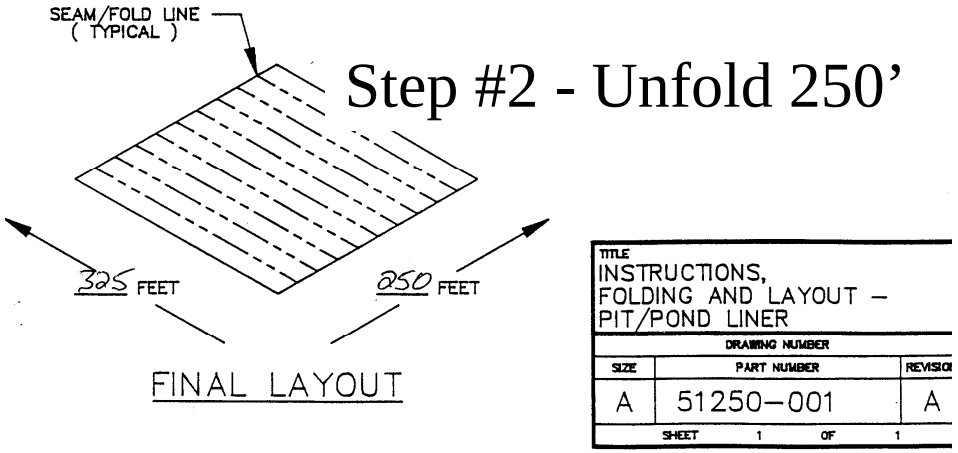
Plan for Deployment

If a light wind(< 8 MPH) is present, it is beneficial to UNFOLD (step #2) into the wind. If a stronger wind is present, it is advised to wait until the wind goes down or if necessary, unfold with the wind.

Step #1 - Roll out 325’



Step #2 - Unfold 250’



Roll Deployment Diagram Enclosed with Every Roll

Final Layout

Unroll the roll. Method used varies on sub-grade condition and slope. Having the roll suspended on an excavator bucket or back hoe using a spreader bar is another option from what is pictured.

The preferred method is to place a spreader bar through the core and place another spreader bar in the bucket.

Attach to both sides of the spreader bars with chains to prevent damage to the material.

This is the WRONG WAY to hook up the chains. The chain will damage the material during deployment.

Roll material out in the LENGTH direction.

Now you are ready to unfold the material in the WIDTH direction.

Tips:

1. **Unfold the material, preferably into a light wind.**
2. **To aid in gripping the material by hand use 2” round wood dowels rolled in the material.**
3. **Depending on the weight of material space workers every 10’-15’ is recommended for deployment.**
4. **It takes approximately 45 minutes to deploy a 25,000sf panel of liner.**

Continue to unfold, pulling to desired location leaving approximately 5% slack for material contraction purposes.

Optional: A wedge welder can be used to seam multiple panels together.

Ballasting the liner: Notice the geotextile in the bottom where the ballast will soon be placed.

Ballasting the liner: In this case they are using concrete to ballast the liner. A ballast may consist of anything that will hold the liner in place but not harm the liner.

Depending on application, secure around perimeter with appropriate procedure. For example an anchor trench is used below.

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Thank you for your business!

For additional information call

(206) 497-3579