WIND DEFENDER

Installation Guide

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Before Wind Defender installation begins it is important the underlying geomembrane is installed tightly and as close to wrinkle free as possible.

Begin Wind Defender installation by transporting Wind Defender rolls to work area.

Unroll and unfold Wind Defender. A panel is 328’ long by 20’ wide. The roll width is 10’ and the material is c-folded. Wind Defender is reversible, therefore determine what side will be facing up and ensure all panels are installed with same side/color pattern facing up. In general, seams shall be oriented parallel to the line of maximum slope. In corners and odd geometric locations, necessary seams shall be minimized.

Overlap panels a minimum of 6” and prayer seam the Wind Defender. Thread must be UV resistant with a service life equal to the parent materials warranty period (10 years). For applications less than 10 years, an alternative thread may be used but must be UV resistant up to or exceeding the project service life.

A proper seam should have 3” of material above the thread line.

After sewing 2 to 3 panels together and making sure the first panel is properly secured via perimeter anchor trench, or alternative ballast system, hand tension the Wind Defender.

It is important the material is tight and free of wrinkles or it will not function correctly. In some cases, Wind Defender will have to be tensioned and re-tensioned after the material stretches.

Continue deploying a manageable number of panels and repeat tensioning process.

Always be sure that Wind Defender extends beyond the edge of the underlying membrane at any and all open edges to reduce risk of blow offs.

When finishing work for the day, the leading edge of the material must be temporarily ballasted for protection.

Cut a hole or slit in the material to install around gas wells or other above ground piping. If needed, after installation is complete sew in a patch.

Areas that change in plane like berms and concave geometries like valleys will cause Wind Defender to trampoline or invert. Additional surcharges or intermediate anchoring systems will need to be installed in these areas.

Additional point ballasts may be required near the crest of the top of slope where grades change from sloped to flat. If needed, place the point ballasts on the flat area approximately 5’ from the crest of the slope.

When utilizing perimeter anchor trenches for the material, have anchor trenches backfilled as the installation progresses. Be sure to re-tension Wind Defender after backfill is in place if needed. Anchor trenches should be sized appropriately for the length of slope, area of exposure and anticipated wind speeds. Anchor trenches should have a minimum cross section of 2ft x 2ft.

Ensure anchor trenches are properly backfilled or alternative ballast systems are properly installed and the Wind Defender is secure.

Post installation inspection and monitoring. Confirm Wind Defender is in tension and free of bunching and wrinkles. If bunching is found, cut a slit in the material, cut off excess material, re-tension and re-sew.

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