

# GRAIN COVER SYSTEMS

GrainMax™ Protector™

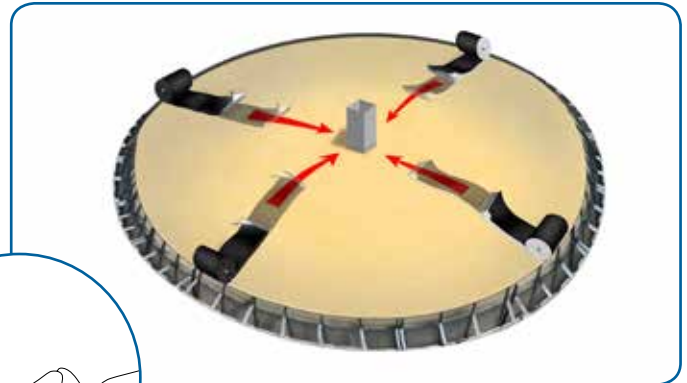
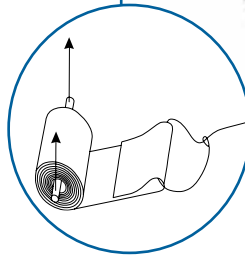
# ROUND UNFOLD GUIDE

4 - PIECE COVER EXAMPLE  
WITH & WITHOUT CENTER RING LIFT  
(Read All Notes Before Starting Cover Installation)

Note: Before unrolling, verify white side of cover will face upward to avoid unrolling backwards and repositioning cover.

## 1 STEP

- ◆ Place the rolls in equal sections around the pile. If there is a support tower for a catwalk, place the rolls so there will be a seam in that area.
- ◆ Hang roll from pipe and chains for dispensing.
- ◆ Tie a rope noose around the first 10 feet of cover and fold back on itself. Rope goes up and over the center of the pile to a pulling vehicle (a ventilation tube or tire on top ridge keeps rope from sinking into the grain).
- ◆ Dispense the 1st roll to the center of the pile. Position an individual near the peak of the pile to keep that section from sliding down the slope.
- ◆ The yoke or leading edge of the cover will have 4 to 6 webbings, depending upon the yoke design. Use a couple of these webbings to attach the yoke portion of the cover to the tower during installation to hold it in place. Allow about 5 feet of slack near the tip of the cover, making the next step easier.
- ◆ The remaining straps will get tied to the tower later when sections are all joined together.



### FOUR-PIECE COVER WITH CENTER RING LIFT

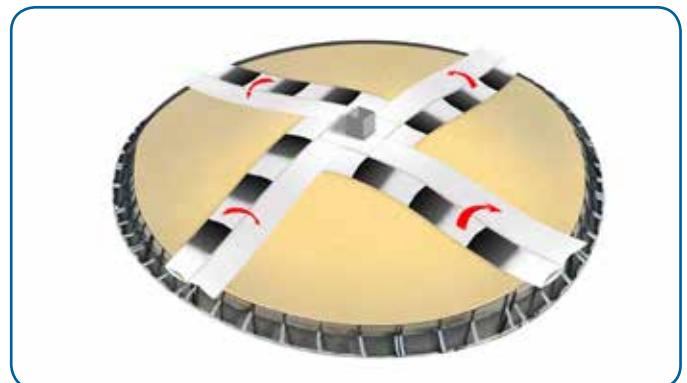
In step #1, instead of dispensing the covers onto the filled pile, place the rolls on the ground by squaring them off to the side, from the center ring lift. Unroll about 25 to 30 feet of the cover. Unfold the top layer placing it next to the base of the roll to its left. Repeat procedure for all rolls.

## 2 STEP

- ◆ With webbing straps tied to the tower, unfold the top black layer revealing the white stair stepped layers. The tips of each of the sections can now be joined together and to the tower (you may have to unfold some of the cover to do this).

### FOUR-PIECE COVER WITH CENTER RING LIFT

In step #2, position the yoke to the lift ring. Care should be taken to center the yoke in equal quarters on the ring as you fasten it, so you can trim off excess material as needed. RainFlap™ edges may need to be joined as the sections are positioned around the ring lift.



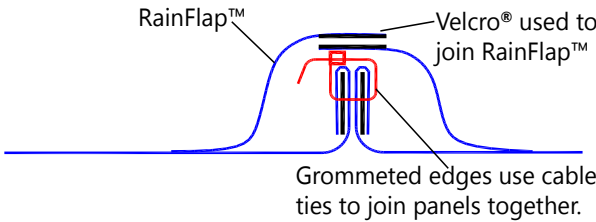
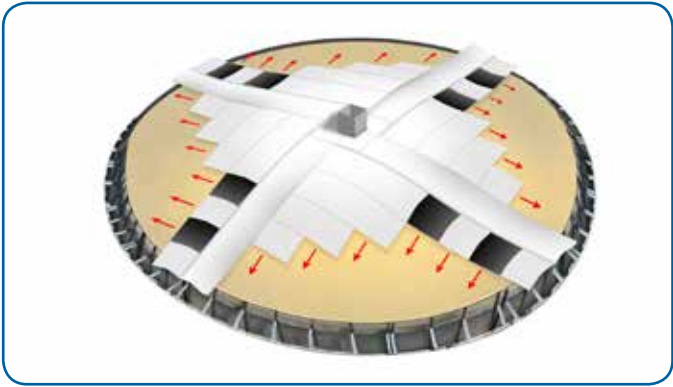
# 3 STEP

- ◆ Place 6 to 8 people along the edge of the stepped layers. Use more people at the top where the cover is heaviest. As a team, start pulling the cover sideways down the pile along the side of the next section so your new edge can be joined with the next section.
- ◆ With the section pulled out and down to the bottom, the two sections can be joined by sewing or utilizing the RainFlap system.
- ◆ Repeat the process on the other sections.

### FOUR-PIECE COVER WITH CENTER RING LIFT

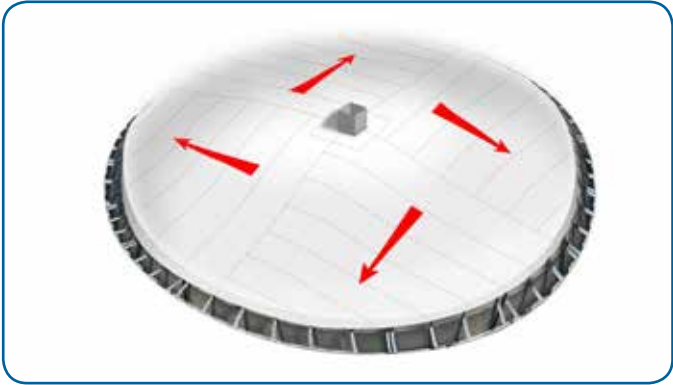
In step #3, unroll all four pieces from the center to the outer wall. Unfold the top layer revealing the stair stepped edges. Pull each panel completely out, however use care to avoid snagging the cover on the aeration tubes. Now join all four sections together with the RainFlap™ system.

Anchor cover perimeter to keep from whipping in the wind, until pile is completely filled.



## FINAL LAYOUT

- ◆ After all of the sections have been pulled out and joined, it is time to batten the outside edges to the wall or anchor to the ground.
- ◆ If you have walls, hang the edge of the cover over the nailing strip at the top of the wall by about 2 feet and batten the edge with a 2" X 4" wood board using nails or screws.
- ◆ If you have a ground pile, the edge should be covered with tires, sandbags, railroad ties, soil or something sufficient to hold the edge down in place.



**CONSIDERATIONS:** Check weather conditions prior to starting your installation, do not try to deploy covers in windy conditions. During and after deployment, some type of ballast must be used to prevent wind from taking control of the cover material, aeration fans may also be utilized. Typically, sandbags are used for ground piles without aeration and should be placed as required to prevent damage to the cover during installation.

Depending on the current wind conditions, the crew should be able to take advantage of a slight breeze by pumping a layer of air under the cover to help float the material while deploying. If at any time the air underneath becomes too excessive, the deployment crew should pull the cover closer to ground level to help push out some of the air. If an unexpected wind gust comes up during deployment, the crew should hold the leading edge of the cover material down to the grain pile to avoid wind lift. If uncontrolled wind lift occurs, immediately stay clear of the cover to avoid injury.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage. Limited Warranty available at [www.ravenefd.com](http://www.ravenefd.com)