

How do I determine the proper mesh panel dimensions?

GaleShield Weather Control panels are “*custom fabricated*” for proper fit and a pleasing appearance, therefore, your measurements are important. If, after reading and viewing the dimension information you have questions, please e-mail or call our office.

All GaleShields typically are mounted to the outside of the posts for maximum efficiency. The dimensions for a given opening for a Slide-Up Model are slightly different from a Stationary Model.

1) STATIONARY MODEL -

This model is fabricated with a 1” hem around the perimeter and “0” size grommets are installed in the corners and approximately every 12” around the perimeter. They are positioned in the middle of the hem, thus 1/2” from the outer edge. Therefore, to provide a proper mounting ledge the mesh should be 2” to 3” larger than the opening it covers. (1” to 1-1/2” per side)

a) **WIDTH:**

We typically suggest measuring center-to-center of the vertical posts and then deduct 1” to provide tolerance for posts that are not exactly plumb. This will prevent overlaps and provide an adequate surface for proper screw penetration.

Corner bays - Width dimensions are typically measured from the outer edge of the corner post to the center of the next post. That dimension should be identical to the center-to-center dimensions of the side wall bays. By making the corner bay screen widths the same as the side wall panels all panels will be the same, thus making installation simpler.

Gutter Downspouts - You should determine whether you want to mount the screen panels next to downspouts (if there is adequate mounting space (an inch or so on each side) **OR** loosen the downspouts, swing them out and install the screens underneath, then replace the spouts. These panels of differing size should be noted on a schematic of your area.

b) **HEIGHT:**

Side Wall - Usually, at the top, just under the roof material, there will be a horizontal 2” x 6” purlin attached to the outer post surface. It is perpendicular to the ground and provides a mounting surface for the top mesh hem. Measure from the top of the purlin down to the bottom of whatever horizontal mounting surface exists at the bottom. That can be any board attached to the outer post surface **OR** inset between the posts with its outer surface close to the outer post surface. If it is a 2” x ?” board laid flat (such as a liner wall cap) then measure down to its bottom edge. This will provide an adequate mounting surface of 1-1/2”. Then, again to provide some “fudge” room, deduct 1” for slight discrepancies to the structure.

Note: There are instances, such as gutters mounted directly to the eave purlin, when it becomes impossible to use the outer purlin surface. The top hem may be screwed to the **INNER SURFACE** of the eave purlin and can be accomplished using the same dimension as above. Since the GaleShield mesh is vinyl coated, it will not ravel when cut. Therefore, during installation, notches are cut in each upper corner to allow the **TOP HEM** to be pulled to the **INSIDE** and screwed to the eave purlin. Then the side hems are screwed to the **OUTER POST SURFACE**. (You may wish to utilize this mounting procedure as a preference even when there are no obstacles, such as roofs with 2’ to 3’ of overhang.)

End Wall - Typically, the end wall will have a “Gable Enclosure” with framework of 2 X 6’s covered with siding of some type (metal or wood). There is usually a 2” x ?” running horizontally at the bottom of the gable closure. This can be used as the top mounting surface, similar to the eave purlin on the side walls. It is your decision to mount to the **OUTER or INNER** surface. (as explained previously) Then measure down to a similar horizontal mounting surface, as you did for the side wall.

1) SLIDE-UP MODEL -

The Slide-Up Model is designed similar to a Roman Shade. It gathers into folds as it is raised. Therefore, when it is at the top there will be approximately 20" to 24" of folds hanging down. The design allows the sides to be attached to the slide mechanism each 36" and thus prevents excessive edge fluttering (such as allowed by a roll-up design without edge connections). An exclusive GaleShield aluminum slide rail extrusion accommodates the slide connections on both sides. We recommend maximum slide-up height to be 8' or less. When an opening is greater than 8' the top section may be attached as a stationary portion of the screen and screwed tight to the posts. This Provides full height protection and when raised to the top there is a 6' opening. We do offer 10' rails for those close to our headquarters in Vancouver, WA and able to pick them up.

There are two reasons behind this recommendation:

- 1) Articles up to 8' in length can be shipped without severe restrictions and freight up-charges.
- 2) Providing the rails in sections can be done, but aligning the two pieces at the joint must be performed with extreme care. They are being attached to wood surfaces that are not perfectly smooth, thus a slight off-set in the joining rail sections can cause the poly slide blocks to slightly hang up requiring a nudge by hand to get it past the joint. If you require greater than the 8' slide then a section of not more than 34" may be added at the bottom of the slide rail. Then only ONE poly block traverses the joint and can be easily reached to nudge it past the joint.

a) **WIDTH:**

Aluminum slide rails are attached vertically to the outer post surface with their edge aligned with edge of the post. The aluminum slide rails extend out from the outer post surface 1-1/2" , thus align with the outer surface of the 2" x 6" eave purlin. The GaleShield design requires the mesh panel to overlay the slide rails. Therefore, the width should be 1" less than the center-to-center post dimension to allow the mesh overlay and prevent adjacent screen panels from touching each other.

NOTE: Using GaleShields on structures that are not equipped with gutters is not advised since large volumes of rain water pouring off the roof, runs down the GaleShield and usually runs inside the arena soaking the footing. Exceptions to this would be structures with adequate roof overhangs (2' to 3' or more)

b) **HEIGHT:**

Slide-Up models are fabricated with a 1" hem across the top and on both sides. The bottom has a horizontal pocket fabricated into the screen panel and is not attached to the framework. You must determine the bottom point of the screen panel. If there is a liner wall that does not have a top cap extending past the outer post surface, the screen should hang a few inches below the top of the wall . If there is a top cap that protrudes past the outer post surface, then the screen bottom should just touch that board, allowing the screen panel to hang straight without obstruction. By deducting an inch or so from the **HEIGHT DIMENSION** you will have some adjustment tolerance to raise or lower the entire panel prior to securing the top hem.

c) **DOWNSPOUT OBSTRUCTION:**

Since gutter downspouts are normally mounted to the outside of the posts, it requires a change in the GaleShield width dimensions. The Slide-Up Model requires at least 1-1/2" from the post edge for sufficient mounting area and another 1/2" for clearance. It is best to install a 2" x 4" at the edge of the post to provide the 1-1/2"space and mount the aluminum rail to it. This will then provide adequate room for the mesh to over-lay the rail and not contact the downspout, thus allowing smooth operation when raised and lowered. If this is done, the screen width should be 1" less than the dimension from the downspout to the center of the adjacent post.