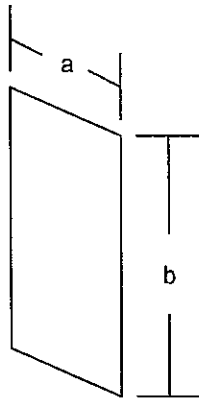


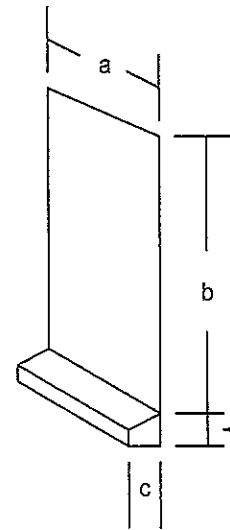
# Storm Panel Measuring Instructions



## Measuring Opening Without Projecting Sill

a = Opening width. Storm Panel width to be in 1' or ½' increments. (Always go to next lineal for pricing). Example: if opening is 40" in width the storm panel width will be either 42" or 48". The panels will still be 1' wide but 1 panel will simply lap over 6" onto the preceding panel.

b = Opening height. Add 4" to height for actual shutter height.



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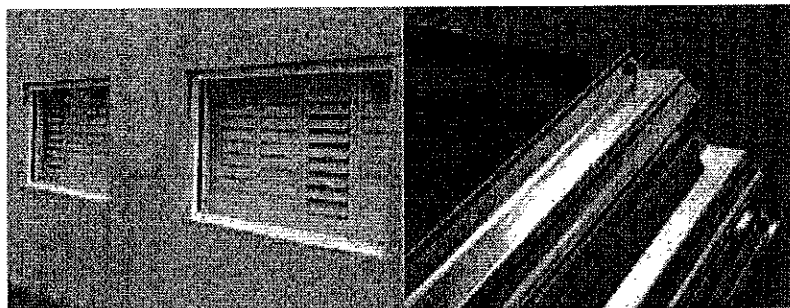
b = Opening height. Add 4" to height from bottom of sill for actual shutter height.

c – Sill Projection. If opening has projecting sill, measure projection for correct build-out F-track or sill angle dimension. Build-out F-tracks, sill angles and headers are available in 3/8", 1", 2" and 3" increments. If any projection is greater than 3", build-out tube will be required. If any build-out is greater than 3/8", side angles are recommended. (Standard F-tracks, headers and sill angles are flush and have no build-out attributes.)

If storm panels are to be installed on windows or doors that go to floor, removable sill angles are available. If there is a door sill or any projection, measure projection and order build-out header or build-out to fasten header to that equals projection. Lexan storm panels require studs top and bottom, headers are not to be used. Storm panels can be direct mounted by using fasteners specified by the appropriate product approval drawing. Panels can be mounted vertically or horizontally in accordance with span tables and fastener requirements for that particular product.

The instructions above are a suggested method of measuring only. Construction methods differ from building to building. It is important to remember that hurricane shutters are specified to mount to something structural within the framework of the building. It is each dealer's responsibility to determine what the shutters will be attached to and whether or not the above suggested guidelines should be used for each opening being measured.

## Installation Photos



The following storm panel installation instructions are for a typical horizontal surface mount on a masonry building.

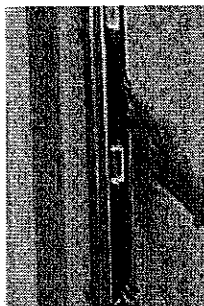
The first step in the installation process is to determine where to drill for the Tampin(R) Brand Machine Screw Anchors. I have, after 1,000's of installations, developed a simple but neat system. Using a panel for this opening, simply place it centered over the opening horizontally. If you have a sill that you can rest the panel on, that will be the easiest. Check that you have equal overlap of the opening right and left. Mark both right and left all holes. Be sure you mark each hole at the center of the key. If you are working alone, I would then drill each marked spot, clean the hole of all dust and insert and set a Tampin(R) in each hole. Install the panel using sidewalk bolts in the lower holes. Install the next panel up using the top holes of the first panel and the bottom holes of the next panel. Then mark the holes for the second panel. Then keep repeating the steps until all panels are installed.

If you have no sill, this method will work just as easily. Using a panel for the opening center the panel horizontally at the top of the opening and above the opening an amount that will provide equal coverage above and below when you are finished. You can start at the bottom if you prefer but the panels hang down better working from the top down. Mark the upper right hole in the panel. Using the combo drill bit drill the hole, clean out the dust, insert and set the Tampin(R).

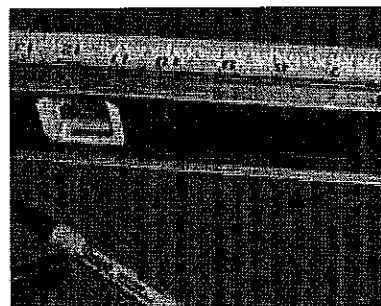
Using a sidewalk bolt attach the panel at the upper right hole loosely.



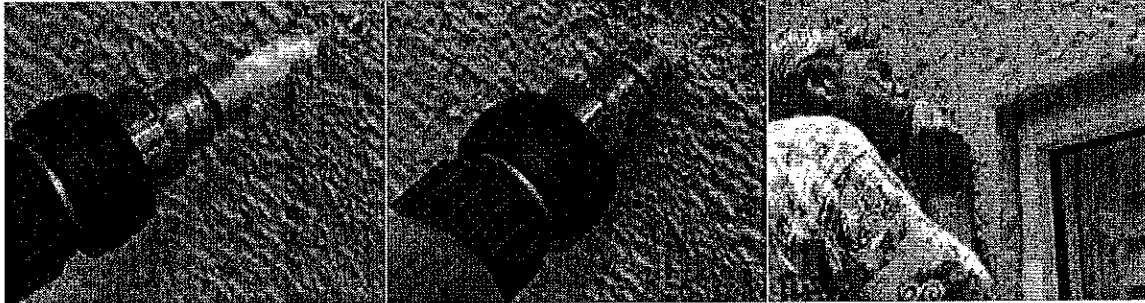
This is a trade secret. Pick up panel on the left end and level the panel and mark all holes on that end of the panel. One point, make sure the mark for these holes are in the keyway near the top. This must coincide with how the sidewalk bolt on the right end of the panel rests in the keyway as you hold up the panel for leveling and marking the holes on the left end of the panel. Take the panel down and using the combo bit drill, clean holes, insert and set Tampins(R).



Remember the level we marked every 6 inches? Use it to line up with the holes you have already drilled and make sure the holes are plumb (level) vertically on each side of the opening. This is one of those times where you "measure twice and drill once"



I recommend you mark a level at 6-inch increments for use when marking the spots to drill for installation of Tampins(R). Keep the felt marker handy for marking the wall.



This special COMBO drill bit will drill the necessary hole at the proper depth in a masonry wall for a Tampin(R). Great tool and a great time saver. You gotta have one if you are using Tampins(R).

The combo bit will stop drilling at the collar to insure proper depth for the Tampin(R).

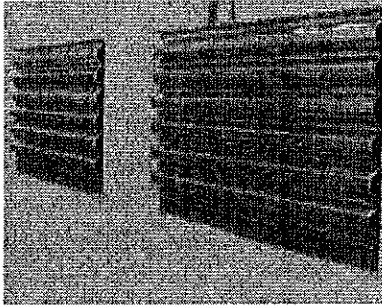
This is a trade secret! After you drill the hole for your Tampin(R) there will be a lot of dust left behind. **YOU MUST** clean out the dust **BEFORE** inserting the Tampin(R) in the hole! If you don't clean out the dust and set a Tampin(R) in the uncleaned hole, you will NOT BE ABLE TO SCREW IN A SIDEWALK BOLT. The dust left in the hole will coat the threads inside of the Tampin(R) and no amount of work will clean the threads. The easiest way to clean the hole is to use a small hose and simply blow vigorously into the hole cleaning out ALL of the dust. I did not have a hose so I used a retractable pen barrel to blow into the hole. Works great but sends the dust all over you.



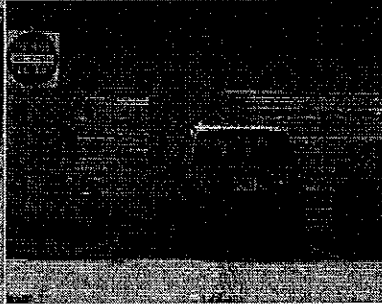
The Tampin(R) being inserted in the pre drilled hole. Note: the brass end goes in first.

The setting tool will insure the Tampin(R) is set in place properly. The tool is a must have if you are using Tampins(R) The act of setting is done with one firm hit with a hammer. Hitting the tool several times could damage the Tampin(R). If you damage the Tampin(R), they are very difficult to remove so do it right the first time. **ONE FIRM HIT BY THE HAMMER!**

This is what the Tampin(R) looks like when properly set.



This an after picture. Proud of yourself for doing a great install?



Example of a horizontal mount.



Example of a vertical mount.