My Hat is off to jost6453 who initially built these partitions, so he gets all the credit for this idea.

I came across his For Sale thread on this rear/top partition some years ago, and he was willing to share the info on the build.
https://www.corvetteforum.com/forums/c6-parts-for-sale-wanted/2809980-f-s-coupe-hatch-partition-2.html

He built his rear partition section out of wood, and the top portion out of 1" foam sheathing.

I used most of his method on my first go, but rather than use wood for the rear partition, I used the 1" 4x8 foam sheathing (Home Depot) covered in matching C6 ebony carpeting (Southern Car Parts) . The reason was to be able to build the rear partition and have it convex so as to stow the top without it coming in contact with the rear partition. The curve of the partition is very slight (see side view picture #14) and is held in place using Velcro (see #13) at the bottom of the hatch area.

On the front of the rear partition, I constructed a 6"x12" Clear Acrylic sheet (Home Depot) painted it gloss black on the backside, and added the C6 Logo and Corvette lettering to the front of the Acrylic. I also made one of these acrylic plates for the top cover.

Jost6453 rear wood partition is straight, so he cut a slot groove in the wood so that the edge of the top would slip into the groove when stowed.

The top portion is made out of the 1" foam Sheathing (Home Depot), covered in the same ebony matching carpeting as the rear partition. The heat and weight of the foam board started to droop downwards, so it would contact the top if it was stowed. In order to make the top portion stronger, and not add much weight, I used the same template and cut out a 4x4 floor underlayment plywood (3/16"thick). I cut out a section in the plywood to accept the C6 Acrylic plate and taped it in place using tuck tape. (see # 3)

I installed the plywood on top of the foam board and glued it in place using 3M 77 spay adhesive, which adhered quite well to the foam board. The same adhesive is used to glue the carpeting to the rear and top partitions.

The addition of the plywood prevented any sagging of the top partition.

With the above being said, I will do an almost complete step by step the building of the partition using my method for securing both the rear partition, and the top portion to the vehicle. Both are easily removed if required. Pictures will be added with the instructions on my build.

Materials used for this project:

4 yards of Carpet ($15.00 per running yard (40" x36" per yard) which is more than enough to cover all of the rear and top partitions.

1 - 4'x8' sheet of 1" Isolate Durofoam Plus (approx $15.00 per sheet) R-Tech insulating sheathing can also be used

1 – 4'x4' sheet of underlayment plywood 3/16" thick (approx $10.00)

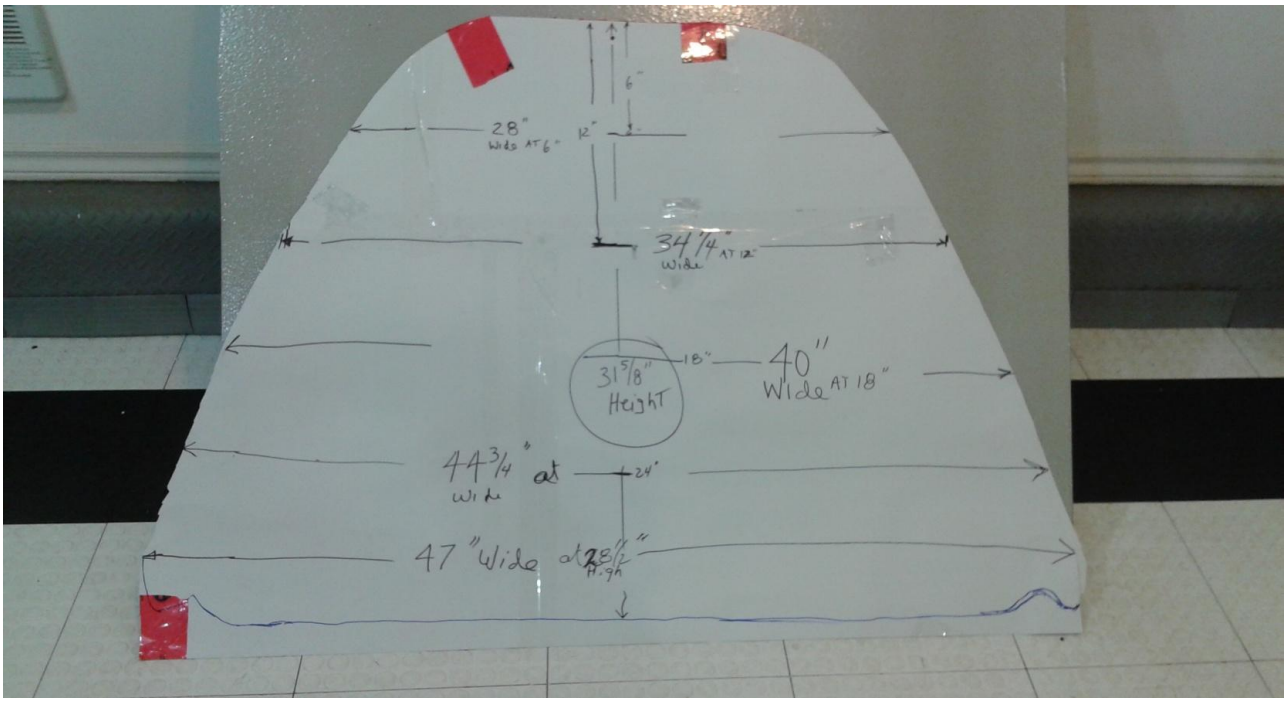
1 – Can of 16 oz 3M Super 77 adhesive spray (approx. $10.00)

Razor Knife – Cardboard-Poster Board-Tuck Tape-Sharpie- (3) 90 degree brackets of choice (I shaped my rectangle brackets to my liking and glued carpet to it) Sharp pair of scissors

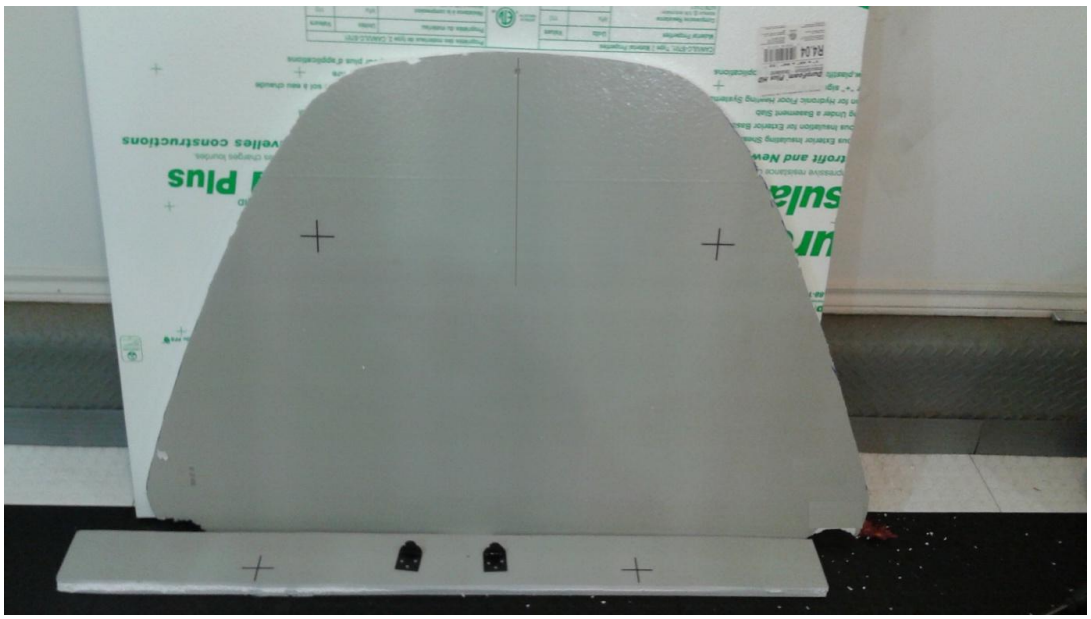
Clear Acrylic 11"x14" sheet for the C6 plate – Gloss black spray paint for the back of the plate

TOP PORTION OF THE PARTITION

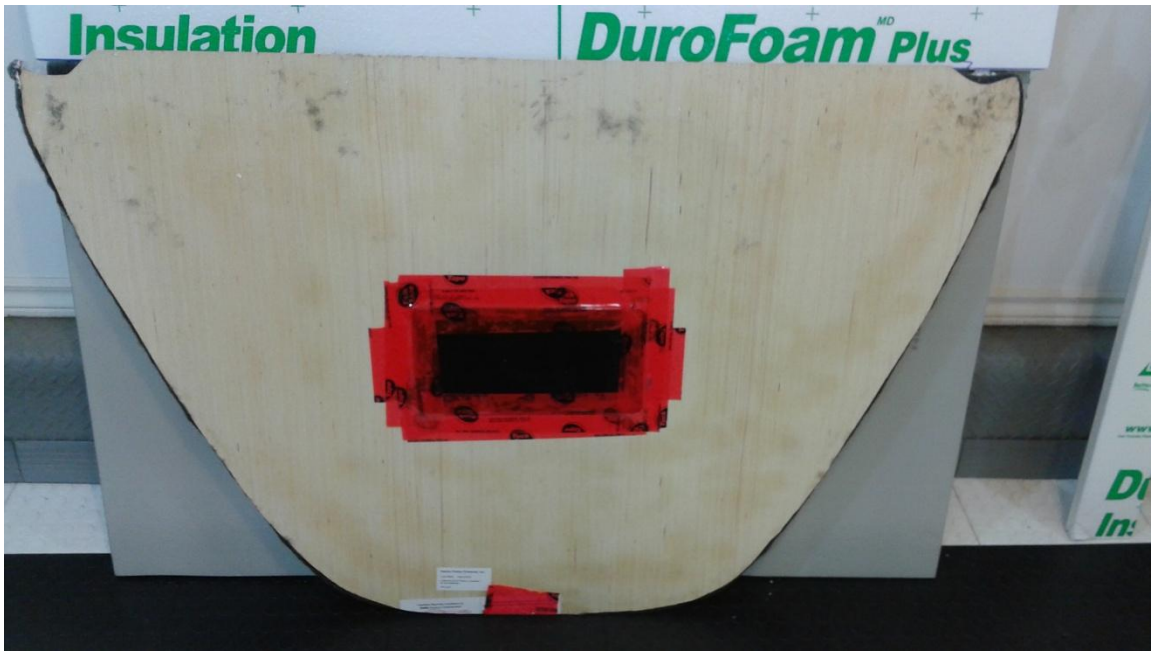
1) The top portion template is made from poster board. Much patience and numerous tweaks and cuts were needed to get the template near perfect. Remember, about 1/8" is required all around in order to make room for the finished glued carpet on the side of the partition. These are the dimensions for my application, but you have to make your own to fit. My template can be used as a guide to build yours.



2) The top portion is now cut out from the foam board using a razor knife. Notice that the bottom portion is notched at the corners to accommodate the rear hatch struts from contacting the top portion of the partition when the hatch is closed. The carpeted plywood shows the notches much clearer (#4)



3) The top 3/16” plywood was cut out using the same template. Notice that the acrylic plate is already put over the cut out, and Tuck Tape holds the plate in place. A dry fit of the plywood is made at the rear window, just to be assured that the fit is within 1/8” of the edges, and not forced into place. Trimming for the fit may be necessary. I had to make a few minor adjustments around the edges for my application.



4) Once the plywood fit is acceptable, the plywood can be covered in ebony carpeting. The carpet had to carefully cut into the correct shape and secured to the plywood using 3M 77 spray adhesive. The carpet goes slightly over the side edges of the plywood. The top 6” part of the carpet was not glued to the plywood at this time. This is to later make accommodation for the plywood insert into the foam board.

Here is a close-up of top plywood with acrylic logo with carpet edging around the acrylic plate.

5) The cut out foam board (#2) is placed on the back of the plywood, and once in the proper location, it is glued onto the plywood using the 3M 77 adhesive. This is where a dry fit of the top portion is done to assure that the fitment is not too tight, and will accept the extra width of the carpet on the sides and top. The foam board can be trimmed as required at this point.

6) A small portion of the foam was cut out on the top (2” x 3” x 3/8” high), and a piece of plywood was glued in that cut-out and secured to the back plywood using 2 nuts and bolts. This is required to accept the screw that will secure the top bracket to the top partition. That is the reason the carpet was left unglued at the top so drilling could be done to accept the bolts and nuts. The nuts and bolts are counter sunk.

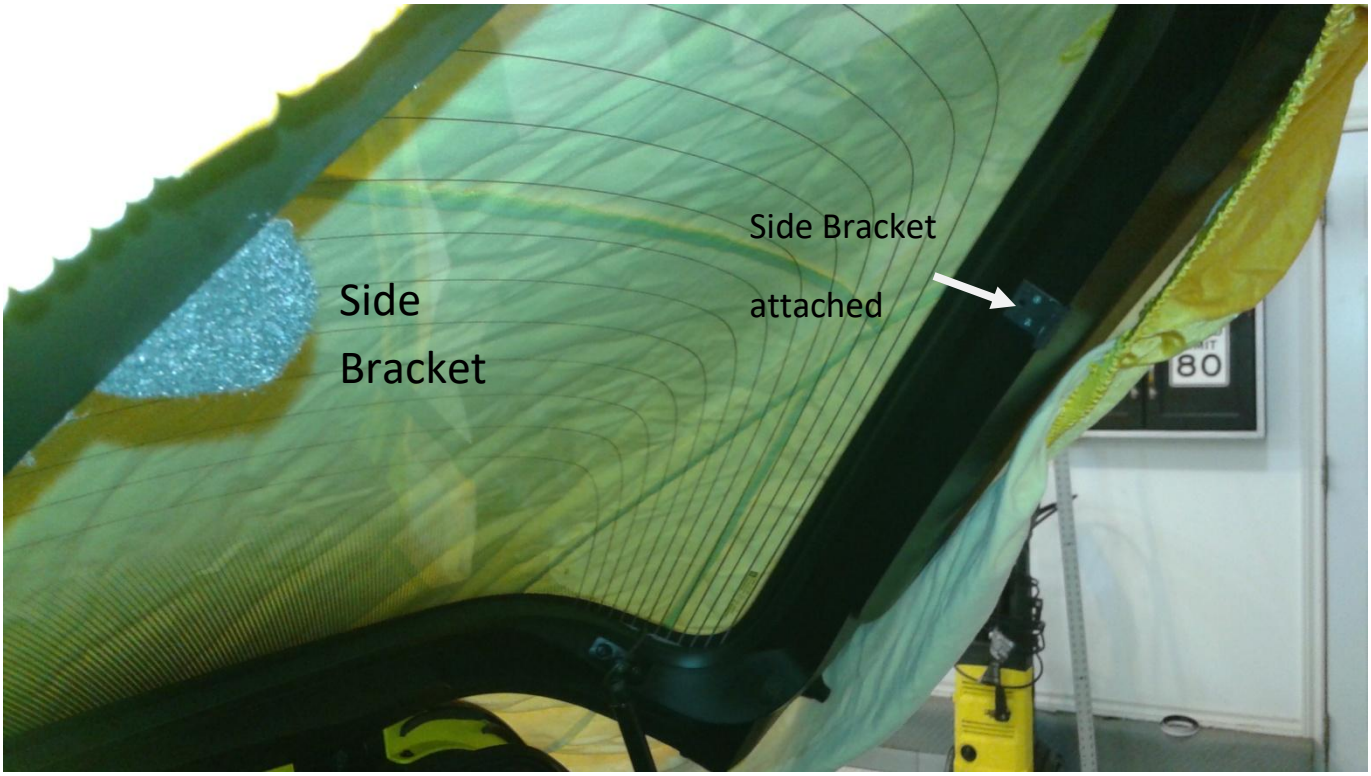
7) The carpet is cut to shape, and glued on the top partition foam board. The carpet has to extend over all the edges using the 3M 77 adhesive. It is glued to the edges, and trimmed as required for a nice even edge with the carpet from the plywood edge. This edge is not seen once the partition is installed, so perfection is not necessarily required.

8) The top portion carpeting is completed, and fitted to assure a good tight fit in the window frame. If trimming is required, the carpet can be pulled back to get at the foam board for trimming. The carpet can be re-glued using the adhesive

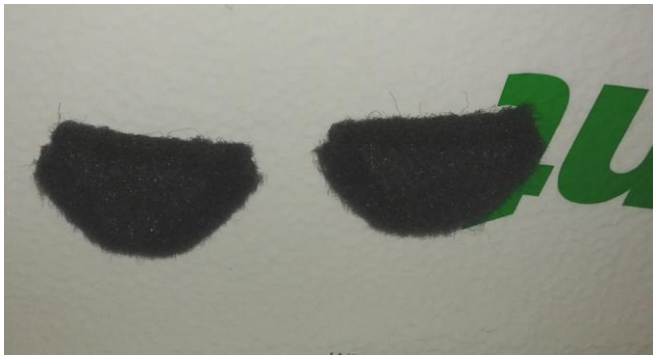
9) In order to keep the top portion secured in place, there are 4 securing points for the top partition.
   a) One on the top. (a bracket is attached inside the window frame, with a hole drilled into the bracket to accept a wood screw that will hold the top portion securely in place) See #6

   <u>TOP BRACKET</u>

b) One bracket on each side is constructed, and is secured to the window frame using 2 small screws inside the window frame. These brackets are to hold each side in place.



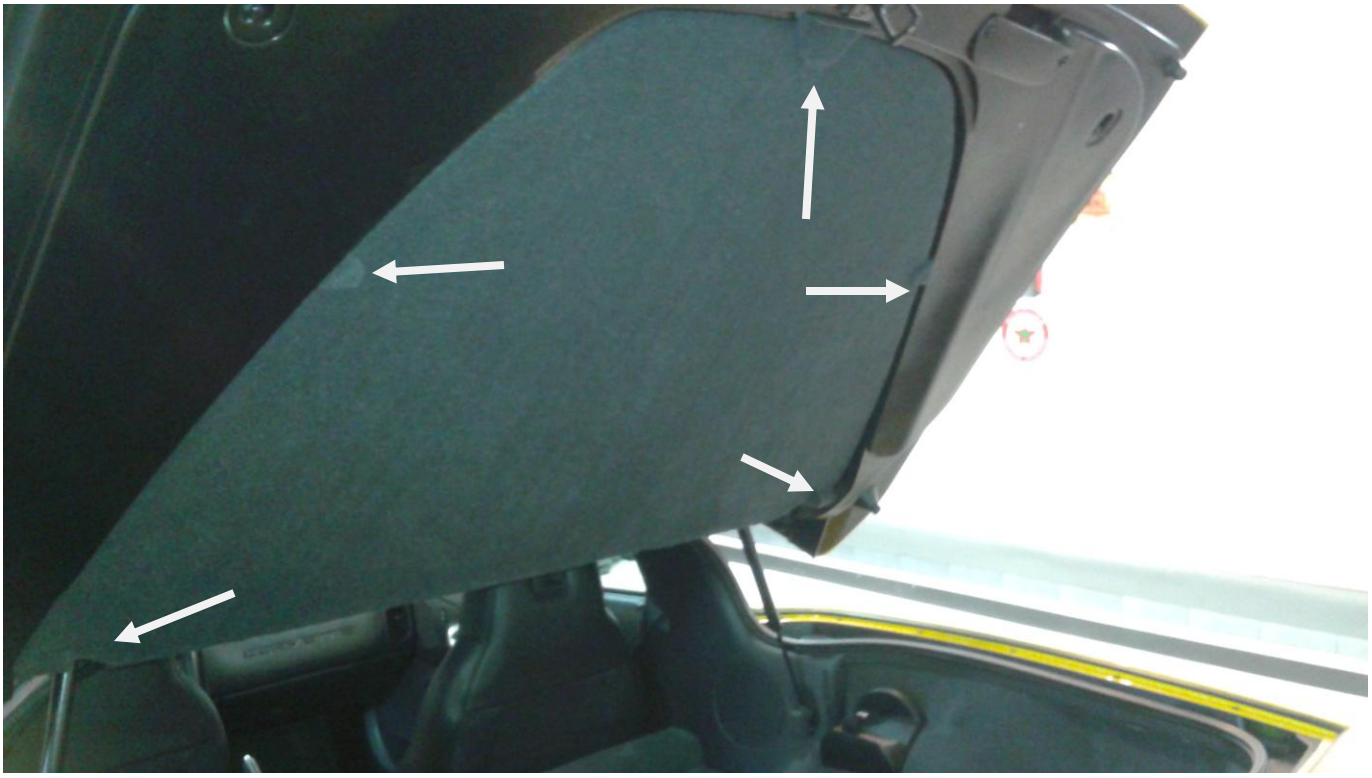
Side brackets attached to the inside window frame.



Wood Spacers with carpet (1/4" -3/8" thick) depending on your requirements. (more info on these spacers (#19))

c) The 2 bottom cargo net holder nuts are removed and replaced with a longer bolt wrapped in carpeting. The partition sits between the window frame and the top of the carpeted bolts.

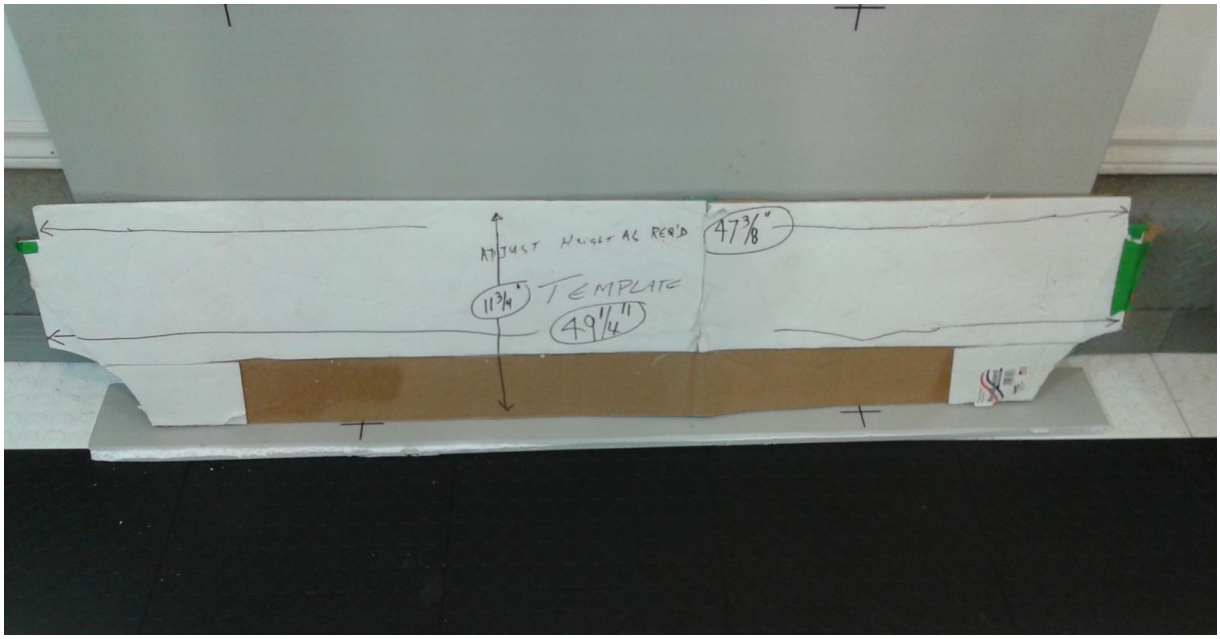
10) The top portion is now secured in place. (notice the 3 brackets and lower holding bolts.)



REAR PARTITION

11) The rear partition template is made from cardboard, and again it has to be tweaked many times in order to get the correct fitment between the rear partition and the top portion when the hatch is closed.

The height is the most important aspect to assure that the top partition just barely makes light contact with the top of the rear partition. In my application, with the rear partition sitting on top of the Lloyd's mat, the final height was 11 3/4". Each application will likely have a different height requirement.



12) The rear partition, with the acrylic Corvette Logo plate is cut from the foam board and covered in the ebony carpeting.

13) After a dry fit, the Velcro strip is laid on top of the Lloyd's mat in a convex fashion and that will accept and hold the bottom portion of the rear partition securely.

14) A picture of the rear partition in place over the Velcro. The convex partition will fit in the rear area and prevent the stowed targa top from contacting the rear partition. The struts touch the rear partition when the rear hatch is open, but does not create any issues as the foam board takes the indentation of the strut rod.

16) The hatch area showing the gap between the stowed targa top and the rear partition. As you can see, there is an inch or better as the contour of the partition matches the curve of the stowed top.

17) The rear partition in place with the top partition sitting nicely on top of the rear partition. The acrylic C6 logo plate was installed in the foam board indentation made prior to carpeting, and glued into place. The carpet around the acrylic plate outline was carefully cut and glued.

18)

I think this looks great in the vehicle, with the Acrylic C6 logo plate adding a further dimension and OEM type of finish.

19) The 2 spacers mentioned previously for the side brackets are used only when the targa top is stowed. The spacers are wedged between the side brackets and the top partition so as to push the center portion of the top partition as high into the window frame as possible. This assures that there is an air space between the stowed targa top and the top partition. No contact is made between the two with the spacers in place.

Here is a picture of the spacer in place under one of the brackets.

The other option would be to use a ¾" thick foam board with the 3/16" plywood, so the top partition would fit further up into the window frame. Of course, the brackets used to hold up the partition would have to be attached a bit lower in the window frame.

Good Luck if you decide to take this on as your next DIY.