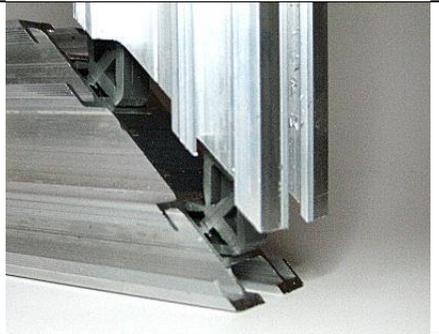
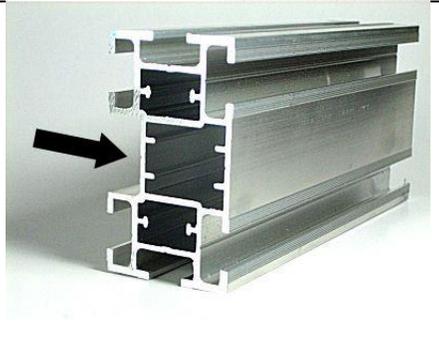


## Building a Frame Using the TS44 Extruded Aluminum Bar

	<p>Miter the TS44 bar at 45 degrees.</p> <p>Once the frame is fabricated we can start screwing it to the wall (Bricks, cement, concrete, stucco, dry walls...) See hereafter for details about space between screws and where to drill and screw.</p>
	<p>In the mitered corners we insert the TS90 PVC corners ... These PVC corners are there to helping during the installation.</p>
	<p>Photo: This is how and where the two PVC corners are fitting in the TS44.</p>
	<p>For large frames: Drill between the two channels as indicated on the photo.</p> <p>The flat part of the extrusion will be against the wall.</p>

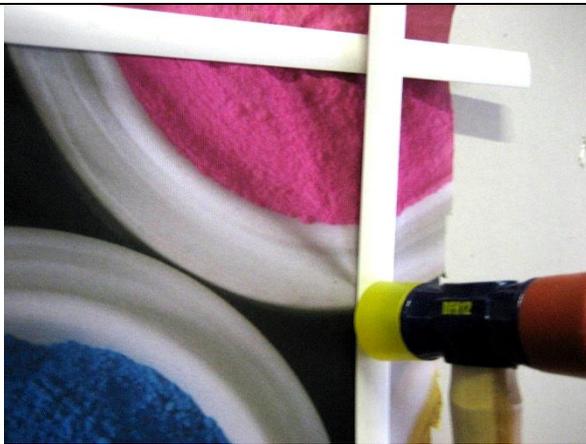
### **TS44 – GRAPHIC FIXED ON THE FRONT**

The graphic must have a bleed of 4" minimum to handle it during the installation.  
When the graphic is mounted on the front the graphic dimensions must be:  
Width + 4" + 4" and high + 4" + 4"

When the graphic is installed on the front, the frame can be fixed on the wall with a space between screws (4" Tapcon is recommended) of around 18".  
When the insert is pounded by the hammer the extrusion is laying on the wall.



Position the graphic and maintain it in place, starting from the top, using small pieces (1") of clipping bar.

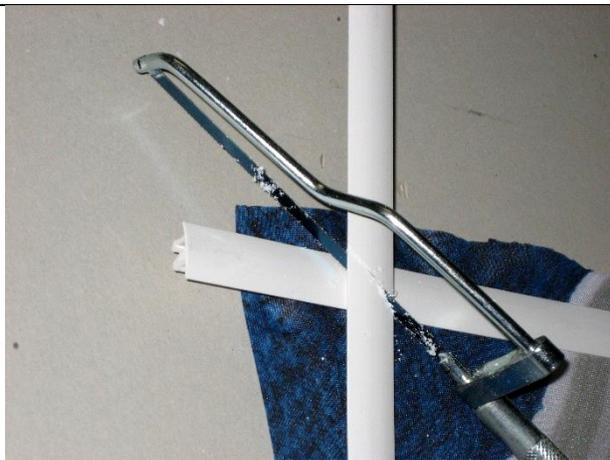


Then the insert segments are removed using a flat screwdriver and replaced by a longer one using a dead blow hammer or a **hard nylon head** hammer.  
>>> It is important to use the appropriate hammer (See picture)  
Neither a steel hammer that would increase the risk of breaking the TS79 on impact, nor a rubber hammer are recommended



The TS79 (Inserts) bars are crossing at each corner.

Next step cut the angles with a mini hacksaw.



Using a mini hacksaw to cut the corners as shown.

Do not forget to mark the bar underneath with the blade.

Gently pull the top bar and put the underneath one on top. Then cut it following the mark.



One corner, 2, 3, 4...

Then remove the extra bleed  
...and your TS32 frame is finished!

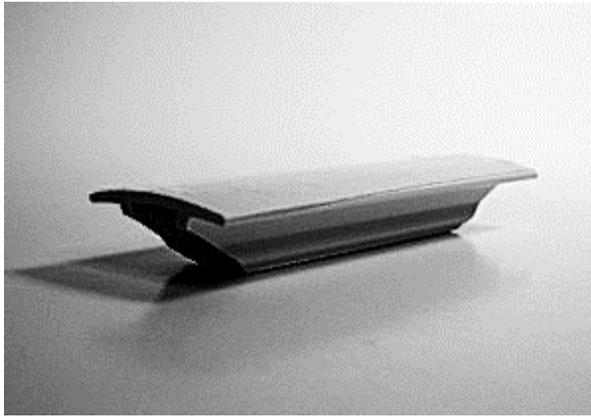
***TS44 Frame fixed on a Wall – GRAPHIC FIXED ON THE SIDE***

The graphic must have a bleed of 4" minimum to handle it during the installation.  
When the graphic is mounted on the side the graphic dimensions must be:  
Frame Width + 4" + 4" and frame height + 4" + 4".

When the graphic is fixed on the side, the frame must be fixed on the wall with a smaller space between screws.

When the insert is pounded by the hammer on the side only the screws in the wall are supporting the blows, so the extrusion must be solidly fixed to the wall not to displace the frame.

A screw (4" Tapcon is recommended) every 15" is recommended. More screws are needed because the hammer blows will only be supported by the screws (Tapcon)



TS79W PVC Segments

Cut PVC segments as shown (8" to 12")

These segments will be used to maintain the printed graphic on the frame.

They will then be replaced by longer PVC strips that will fix and stretch the graphic



Here you can see the installers replacing the segments (On the left on the photo) by long white PVC inserts (White is recommended for outdoor)



The printed graphic installation steps are:

- 1) Fix the graphic with insert segments all around the frame. Do not try to stretch the graphic too much. Start inserting segments on the top, then the top half of each side, and finish inserting the segments by the bottom.



- 2) Then replace segments by longer PVC inserts (TS79W).

If the frame is large (Width over 30') consider starting from the top in the center and continuing towards the sides.

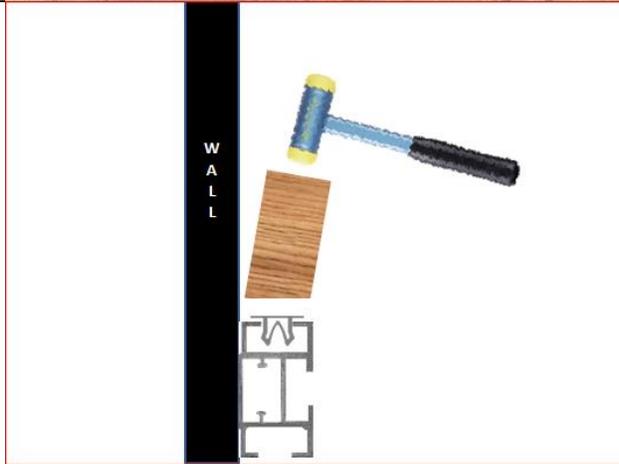
Do not allow any wrinkles at this step, be sure the graphic is well horizontally stretched, if not wrinkles will propagate on the entire graphic.



In the corners, the way to cut the insert is different.

When installing a graphic on a frame fixed on the wall, if your insert is longer than the end of the corner, you can cut 8"-12" before the corner using a cutter with a razor blade and make a nice junction. It will be easier to cut in a slanted way a smaller piece of insert.

For large outdoor graphics this refinement is not necessary.



Use a piece of 2" x 4" to inserting the TS79W PVC insert on the side. This way you will get enough space to pound your hammer on the insert. Cut the 2" x 4" with an angle of 15 degrees, it is sufficient to give some space and provide a good transmission of the blow on the insert.

To pound a piece of 2" x 4" on the side of the frame around a foot of free space is necessary.



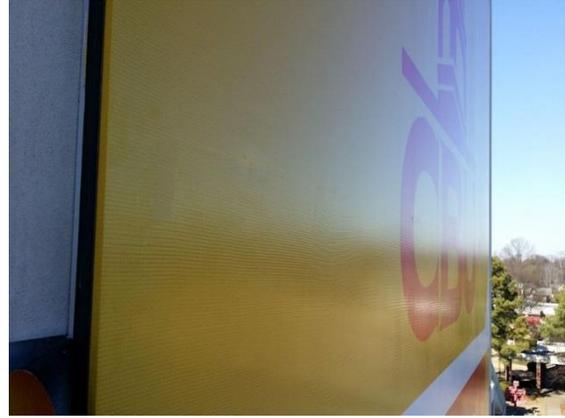
Once the PVC inserts are inserted all around the frame you can remove the extra bleed.

**Do this step at the very end**, once you are satisfied with the graphic stretch

## TS44 - Customers' Realizations



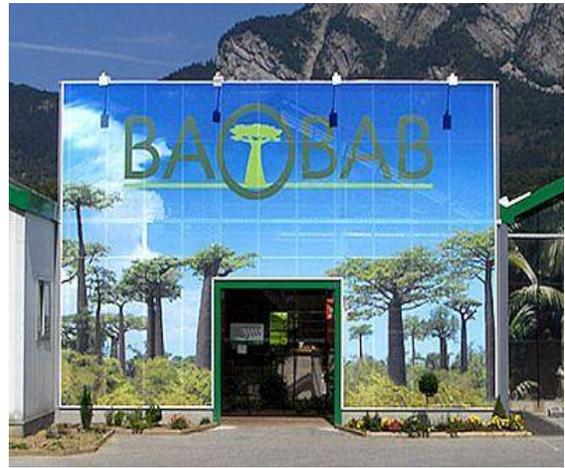
TS44- Swimming Pool Entrance Facade



TS44 frame with graphic fixed and stretched on the side.



TS44 - Large non-rectangular frame.  
Installation of the printed graphic.



Our banner stretching system works fine with non-rectangular frames.  
Here a retail shop façade.