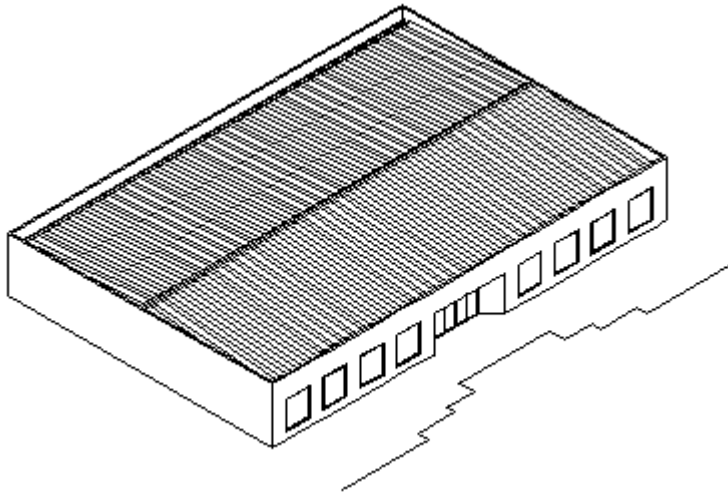


# Parapet Walls

This month we'll use a couple of commands to model up a parapet wall, with mouldings and signage, for a simple shopfront. I am building this model in Smart Architect LT Pro, running on AutoCAD LT®, so no solid objects are being used.

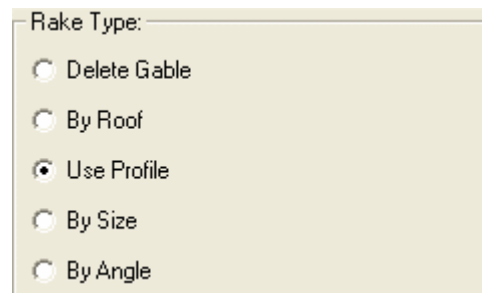
The simple model in **Figure 1** was created as a box with concrete walls using the **Wall Room** command. I then used a polyline outline to create a gable-ended roof with gutters and moved it into position. I added the splayed walls to the foyer area and finally inserted some windows and the glass sliding door. Now let's create the parapet.



**Figure 1**

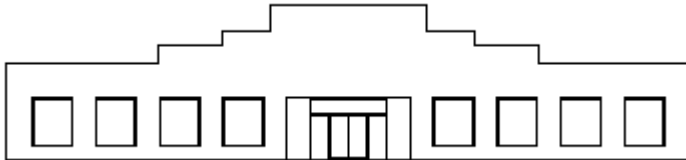
**Step 1:** Draw a 2D polyline to represent the profile of the parapet. It is a good idea to draw the polyline to the exact dimensions of the parapet profile and preferably from left to right. Note the outline in front of the model in **Figure 1**.

**Step 2:** Go to **Design menu > Walls > Rake Wall** and then select the front wall as prompted. Select the **Use Profile** option in the dialog box and click on **OK**.



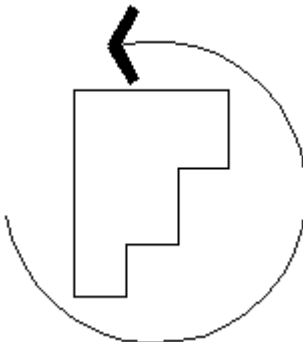
**Figure 2**

**Step 3:** Select the polyline profile as prompted by the command line (pick the left-hand end), then hit Enter to exit the command. The top of the wall will have taken on the profile of the selected polyline, view the model in isometric to see the result. The command can be run while in an isometric view for an instant display.



**Figure 3**

**Step 4:** The next thing to do is draw the sectional profile of the parapet capping mould, **Figure 4** shows my profile. Use a closed polyline, drawn anticlockwise. The profile can be as elaborate as you like.



**Figure 4**

**Step 5:** Draw a line, or polyline, along the top of each section of the parapet to which the capping is to be applied.

**Step 6:** Now extrude the profile along each path using the **Model** command. Go to **Design menu > 3D Model > Model**, then select the path along the top of the parapet, as prompted.

**Step 7:** Select the **Pline Profile** option in the dialog box, click on **OK**, then select the capping profile. Pick a centroid point, eg, the top left hand corner of the profile and the extrusion is completed.

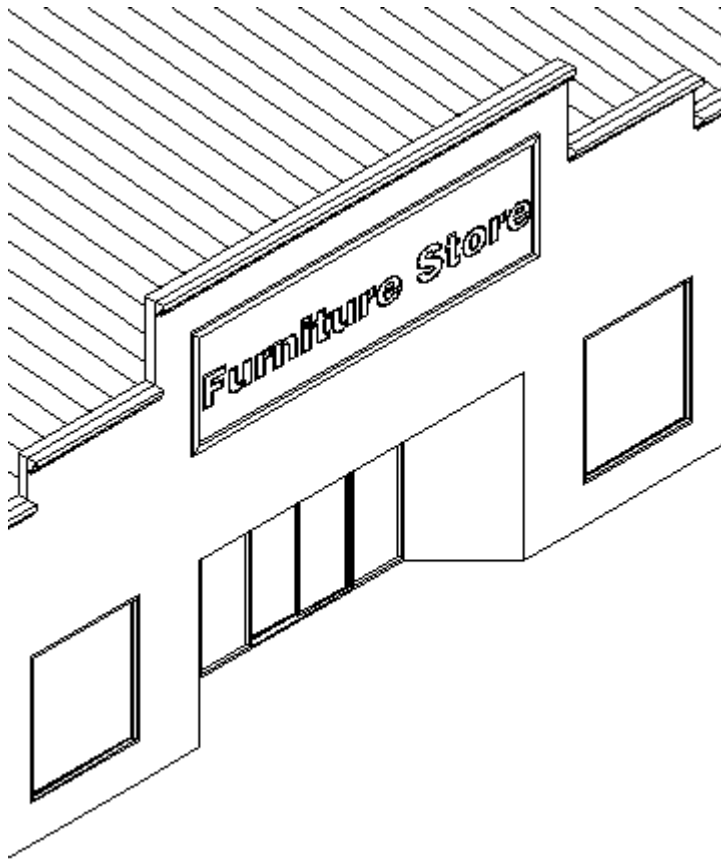


Figure 5

I used the **Model** command to create the border of the sign and just some simple text for the signage.

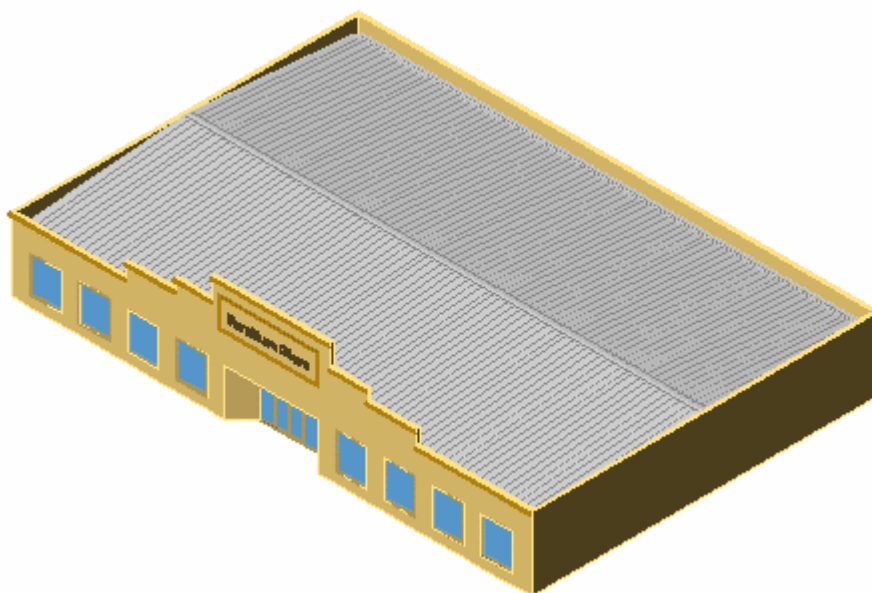


Figure 6

**Figure 5** is an isometric view of the model that has been shaded, while **Figure 6** is a front elevation after I had added a bull nosed verandah. We'll have a look at verandahs in a future help file.



**Figure 7**