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Solution Papers

Summary: *Creating a Raked Window Symbol*

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Overview: This document describes a method to create a 3-D window symbol to fit in a Raked opening. The following procedures use **SolidBuilder** and the **Cad menu** commands.

Solution:

Before starting, make sure you know the approximate slope and size of the opening that this symbol is going to fit into. In **SolidBuilder**, select **File, New, Model** and specify a name. This will give you a blank drawing to work with. Activate **CAD menu**(File/Cad menu).

Switching the view and aligning the cursor:

1. Select **View** from the pull down menu
2. Select **Face → Front**
3. This will rotate into a front view.
4. Select **Draw → Tools → C-Space/Align/View**

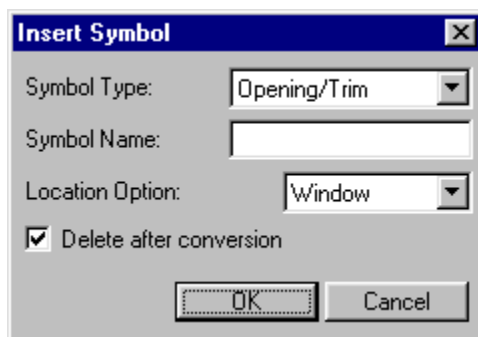
Drawing the Symbol:

1. Select **Draw** from the pull down menu.
2. Select **Polygon**
3. Select **Common**
4. Move your cursor on the drawing screen and left click.
5. Then type in the outside dimension of your window. You want to make sure you have the same slope as the opening and approximately the same dimensions. Once you get to the last corner, right click and select **Finished** on the menu.
6. Select **View → Zoom Drawing**
7. Select **Edit/Fill Color/Polygon**
8. Select the polygon and then select White for the color.
9. Select **Edit → Color → Polygon**- Select the polygon and then select White for the color.
10. **Geometry → Sweep → Linear → Polygon**
11. Select the polygon and then a box will appear. Change the colors to White and then select OK. Left click on the screen and then right click and select XYZ. Type in **-4"** for the Delta Z-value (this will make the window 4" thick) and Construction and Relative is toggled and then select OK.
12. Select **Geometry → Offset** and select the original Polygon (may have to switch to 3d view to select). Type in 2" (thickness of jamb) and choose inward. Set the colors to gray.
13. Use the Sweep command again as in step 7 for this new polygon. Save your work.
14. Click on **Structure → Join**. Right click and select List Objects. Click on the first one and then right click again and select List Objects and select the second object. Now you should have the window as one object.

15. Click Painted to see if the colors come out, if not then you can go to Edit → Fill Color → Polygon and change a polygon that is not coming out to the correct color.
16. Select Tools→Toolbars→ Edit, Select Developer, Click OK.
17. Click Open in the developer toolbar; change Files of Type to EX. And open sbstart.ex
18. Click on Execute File (!). This will open Solid Builder back up

Saving the New Symbol to a Library:

1. Now from the SolidBuilder icons choose the **Symbols icon**.
2. Select **Insert, One Opening/Trim**.
3. This will display the Insert Symbols dialog box.
4. **Highlight** the desired symbol library that you want to add the new symbol to, and Double Click.
5. Select the desired symbol category that you want to add the symbol to, and Double Click.
6. If you want to create a new symbol category select the Add button and type in the new category name, this will add it to the list and then you can continue on.
7. Click on the **Add** button
8. This will display the dialog box shown below. Set the symbol type to Opening/trim and type in a name for the symbol (max of 8 characters and no spaces). Then select **OK**.



9. Select the window on the screen.
10. After selecting the object, SolidBuilder will display the symbol in that category and can be inserted into any window opening.