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Solution Papers

Summary: *Purlins*

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Overview: SolidBuilder has the ability to create roof purlins for polebarns or timber frame structures with the use of its standard functionality. This solution paper aids you in making the necessary changes to *SolidBuilder's* settings, and shows you the necessary steps to create roof purlins. This solution paper does assume that you have completed the *SolidBuilder* tutorial, and have a basic understanding of how the program works.

Solution:

1. Create the roof
2. Make sure your model is in plan view.
3. Right click on one edge of a roof section and select Frame. The roof frames.
4. Click on the Framing icon. Click on the Modify icon from the tool bars on the far left. The Modify Framing dialog box opens. Select roof. You are prompted to select the roof with framing to modify. Move the bulls-eye over the roof edge. It highlights in red. Left mouse click.
5. The Modify Options dialog box opens. Select Insert, hit Select. The Select Framing Member dialog box opens. Select Block and OK.
6. Set the width to 1.5", the depth to 3.5" and the Depth Offset to -3.5". This is assuming you are using 2x4 purlins standing on edge. If you are laying them flat, set the width to 3.5", the depth to 1.5" and the Offset to -1.5".
7. You are prompted to Mark start endpoint. Assuming you roof runs from left to right on your screen, hit the E key and move the pointer to the very outside left edge of the roof eave. Left click twice. You are prompted to mark the end point. Move the cross to the far right outside edge of the roof eave, hit E and pick the point, left clicking one to select it and a second time to lock it.
8. You are prompted to Indicate side for width. Move the mouse pointer near the ridge and left click. The first purlin has been created.
9. To create the rest of the purlins on the same roof section, select Copy Multiple from the Modify Options dialog box that is still open. Hit Select.
10. You are prompted to Select member to copy. Left click on the purlin you just created. Enter the desired number of copies and hit OK (this is the number of additional purlins). You are prompted to Enter base point. Left click anywhere. You are prompted for the offset point. Hit the Y key and enter the purlin spacing either as a positive if the copies are going up from the original purlin or as a negative if they are going down from the original.

Repeat the process for the other side of the roof