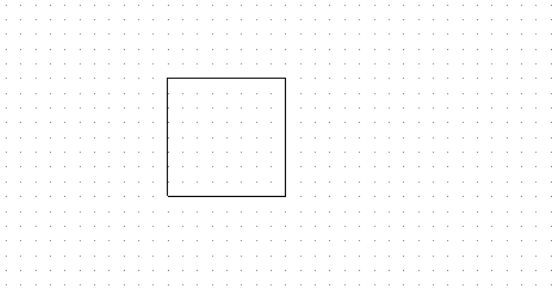
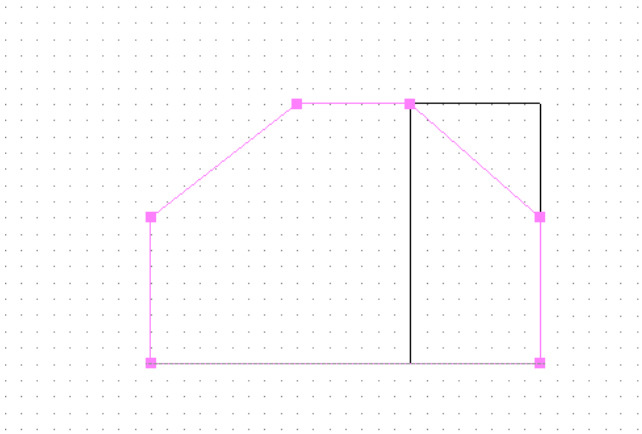
build desk® save your energy	Constructing a warm roof with a dormer in Carbon Checker	BuildDesk **Carbon Checker**

In Plan view, draw the dormer (choosing the Zone Height to be its full height).

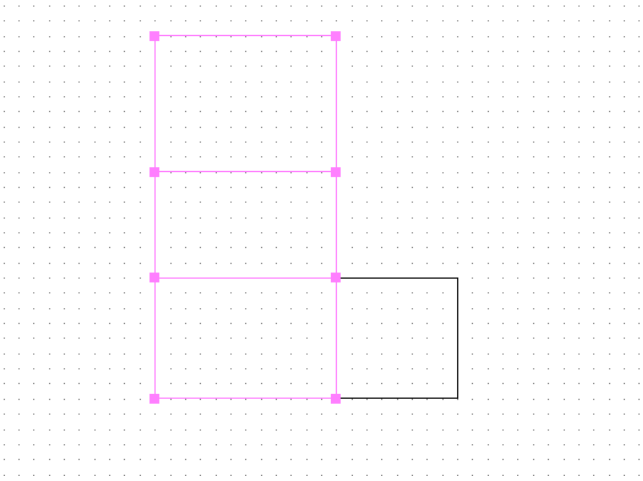


(The colours on screenshots have been inverted to save ink if printing.)

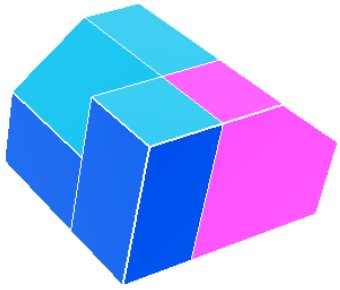
Use 2D view from the menu to view from Left, Front, Right or Back as appropriate. Using the dormer as a guide, draw the first part of main part of roof, choosing appropriate value for Zone Depth.



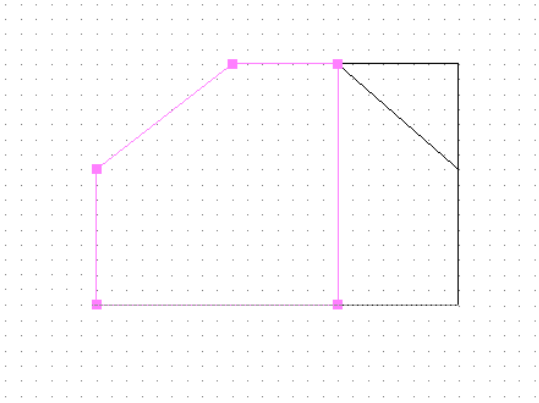
Switch back to Plan View and move newly-created zone next to dormer zone.



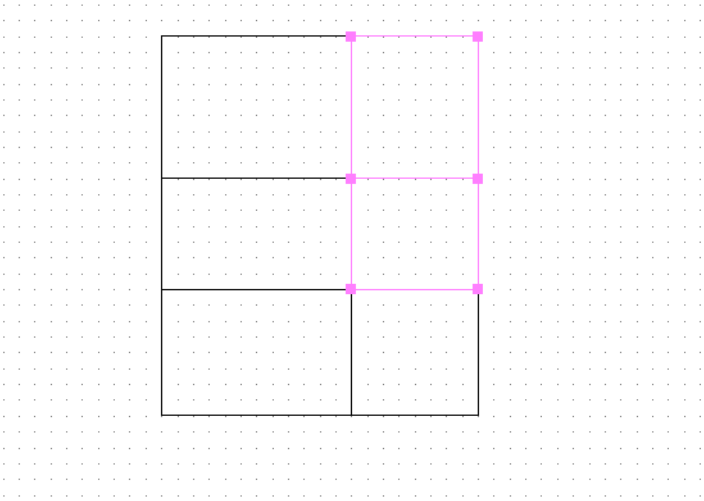
Check using 3D view.



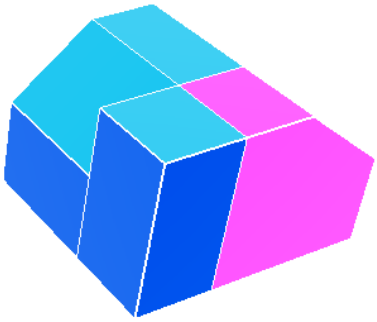
Go back to appropriate side view. Using the dormer as a guide, draw the next part of main part of roof, entering the dormer's width on plan as the Zone Depth.



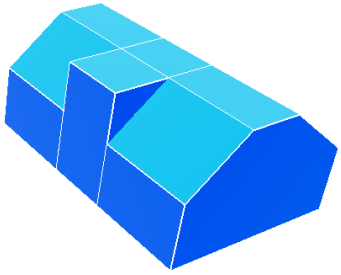
Switch back to Plan View and move newly-created zone next to appropriate position behind dormer.



Check using 3D view



Use the principles above to add the next main part of the roof to obtain the following:



Zones can then be merged as appropriate. Carbon Checker only allows a zone to be merged with one other zone. As an alternative to merging, the dividing construction can be defined so that it does not affect calculation results. To do this, create an internal wall type both the U-value and thermal capacity value defined as zero. Apply this wall construction to the relevant surface of both zones that meet at this virtual surface.

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July 2012