Tutorial
The purpose of this tutorial is to create the roof geometry as shown below, with a high set ridge line at the front.

1. Start off with the basic L-Shaped roof using the dimensions that suit your roof shape.

2. Then, delete the stuff we know we don’t need (planes, and lines), knowing that we’re about to embark on reconstruction using the **Smartlines** functions.
3. It is advisable to turn off wall lines at this time because they can confuse you with too many lines – **Tools > Set Display**.

4. Next, trim the eave line to extend it out to where we want it. Use the Smartlines > Trim-to-length option. When we do this, it allows us to enter the required line length.

5. Next draw a new gable end up using the Smartlines option **Insert-Freehand**. I snap to the end of the new line (using middle mouse button) and then type in $iy(length)$, (incremental length, in the Y axis) which is the end of the line and select Gable as a
linetype and then 20 degree pitch.

6. Using the Copy-Line command, I then copy the Ridge and a Hip, snapping them to the required place at the end of existing lines (snap with middle mouse button).
7. ...and then trim them up using the Smartlines > Trim-to-Corner option.

8. Then, using the Trim-to-ZLine option, we trim the eave back to directly below the longer ridge...
9. ...and then draw a freehand line to the apex and make it an Apron.

10. Finally, we add all the planes back in using the Insert-Plane command and Bob’s your Uncle!
That’s it.

Now use the checking tools and apply your roof material to complete your quotation.

End