Number: 5  
Objective: Illustrate use of Barge Lines  
Commands used: Hip-To-Gable

The first roof is the one above.
A note with barge lines before we start, if a barge line goes up 500mm, it must come down 500mm otherwise it will not work.

We will start at the valley on the garage and go right until we hit the portico, which I believe is 2450mm. From here we go up about 600mm, right 1mm, down the 600mm we went up plus the distance the portico sticks out which is about another 600mm. Now go right the width of the portico including the 600mm into the roof. Go down 1mm and then left 600mm. Go down about 1500 and that brings us to the bottom left corner of Bedroom 1.

For this roof it is easier if we draw around the eave line and set the eave overhang to 0, instead of the wall line so continue around the roof and close it as normal.

Select No to Gable ends, No to changing overhang and Yes to barge lines. As you can see on the above drawing there are 4 barge lines so we need to select these four lines.

Select lines 1 and 2 first, as these are the easier of the two sets. When you select the line it will start to flash, select no to the first line, as this should be the wall line, and yes to the second line, as this should be the fascia line.

Now we need to select barge lines 3 and 4. When you select line 3 it will start to flash, there will be 2 short lines and 2 longer lines. We want to choose the second of the shorter lines. The process is the same for barge line 4.

When you have selected all 4 barge lines, right click your mouse and your roof will be drawn up correctly.
The second roof looks like the one above, and the processed used is similar to the previous one.
Start this one at the bottom left corner of bedroom 1. Go up 3590mm, right the distance the portico
goes into the main roof, I used 1000mm. Now go up 1mm, left 1600, up 3400, right 2170 plus 1000,
up 1mm left 1000, up 8980, right 18260 and close square.
When the roof defaults box appears make sure that the eave overhang is set to 0, and continue. Select
No to gable ends, and Yes to change eave overhang. Select walls 1-5 and change the overhang to
450mm. When you are finished right click the mouse to continue.
Select Yes to Barge lines and select eave lines A and B.
NOTE: Make sure you select the shorter of the two EAVE lines, you will be told if you select the
wall line.
When these lines are selected, right click the mouse and your roof will be drawn up.
When the roof has drawn up you will notice that there is a hip end on the portico. Select the Mod-
Roof | Hip-To-Gable command and select the ridge line of this hip. It will then be changed into a
gable end.
This now completes this roof.