

# ESTIMATORXPRESS® ROOFING TRADE EDITION

## OVERVIEW

This tutorial is intended to supplement the **EstimatorXpress® Getting Started Guide** for **EstimatorXpress® Total Toolkit** in order to focus in with more detail on some of the **Workbooks** you will find in the **Roofing Trade Edition**. We suggest you read both documents to have a full understanding of the process of estimating and project managing using **EstimatorXpress®** before commencing with pricing up your own work.

## ESTIMATING A ROOF USING SEPARATE WORKBOOKS

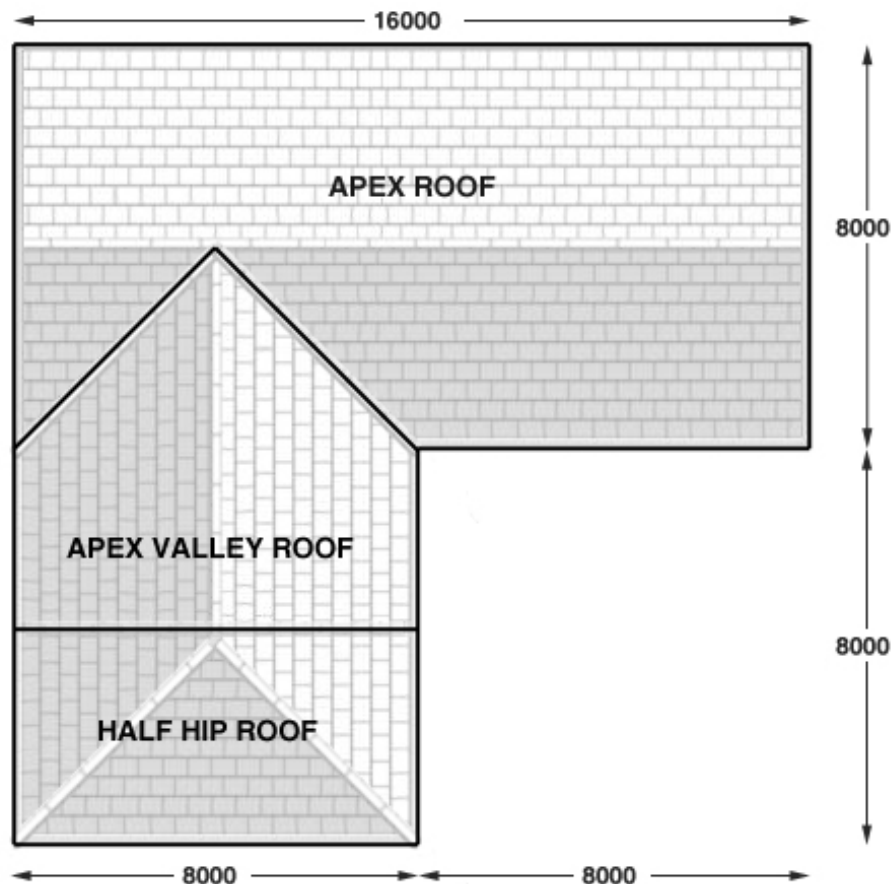
Complex roofs can be estimated in 2 different ways.

The first is to use the standard shaped roof **Workbooks** to estimate each part of the roof separately. The advantage of this option, if you are using a cut roof, is that you will be able to produce cutting lists for all of your timbers by using these **Workbooks**. The disadvantage is that there will be a few areas that you will be over-estimating for products where the roofs are joining but the calculators are not aware that it needs to cut out on resources because of this.

The alternative is to use the **Universal Roof Workbooks** to estimate the roof in one go. The advantage of this method is that you only need to go into one **Workbook** to price up the entire roof. The disadvantage of this method is that you will need to do more work in manually taking off length and areas of the roof to input into the wizard.

This tutorial will talk you through both methods of pricing a roof, starting with using separate **Workbooks**.

The **Apex Roof Workbook** will estimate the main roof on the building shown below. We will then run through the **Apex Valley Roof Workbook** to estimate the roof teeing into the main roof (up to the point where the hip end begins) and the **Half Hip Roof Workbook** to estimate for the hip end.

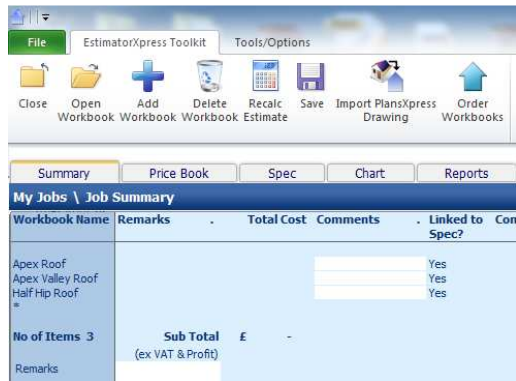


The roof **Workbooks** are **Specification linked Workbooks** (see page 18 of the **EstimatorXpress® Getting Started Guide** for an explanation of Specification linked Workbooks). To estimate the roof, simply enter your dimensions into the Dimensions Wizards and **EstimatorXpress®** will schedule all the **Materials, Labour and Plant** required and cost it for you too.

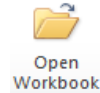
The **Apex Roof Workbook** will schedule the carcassing timber, roof tiling, felt undercloak and lead work, fascias and guttering, decorating, plastering and insulation required.

## 2 Estimating a roof using separate Workbooks – Apex Roof

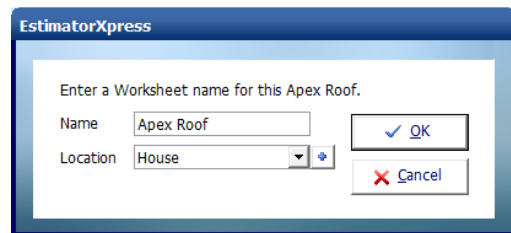
- [1] To begin, create a new estimate containing the **Apex Roof**, **Apex Valley Roof** and **Half Hip Roof Workbooks**. See page 41 of the **EstimatorXpress® Getting Started Guide** for a detailed explanation of creating a new estimate.



- [2] Having created an estimate to start estimating the roof click on **Apex Roof** in the Job Summary.



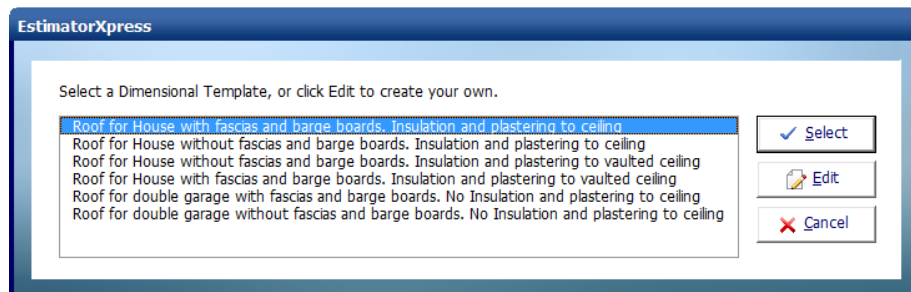
- [3] Click the **Open Workbook** button



You are then transferred to **Summary of Apex Roof Workbook** and a dialog box will automatically pop up asking you to give a name and location for the roof.

- [4] Enter any name you think is sensible and then select **House** for location. Click **OK**.

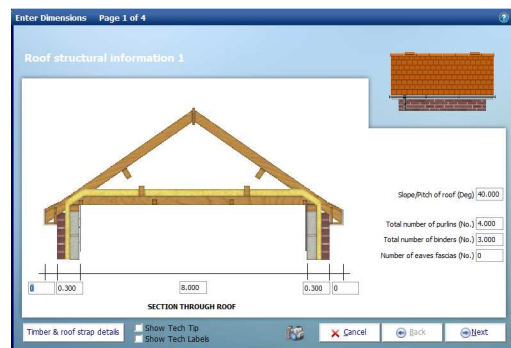
EstimatorXpress® then transfers you into the **Dimensions** screen of the **Apex Roof Worksheet**.



Another dialog box will automatically pop up asking you to select a template.

- [5] Choose the **Roof for House with fascias and barge boards. Insulation and plastering to ceiling** template.

These templates have already been set up for you to speed up the estimating process.



The **Dimensions Wizard** will automatically open up a dialog box containing drawings to assist you in entering and confirming dimensions for the **Apex Roof**.



**TIP:** Before you enter any dimensions, you may find it useful to switch on **Tech Tips** by ticking the **Show Tech Tips** check box in order to display useful information about each dimension in the top right of the screen, and also to switch on **Tech Labels** by ticking the **Show Tech Labels** check box. You can turn them on and off at any time by ticking and unticking the check boxes.

Enter Dimensions Page 1 of 4

**Roof structural information 1**

Clear span of joists:  
Enter clear internal distance between wall plates.

Slope/Pitch of roof (Deg) 40.000

Total number of purlins (No.) 2.000

Total number of binders (No.) 2.000

Number of eaves fascias (No.) 2

SECTION THROUGH ROOF

Timber & roof strap details

☒ Show Tech Tip  
☒ Show Tech Labels

Cancel Back Next

As per the plan of the roof at the start of the tutorial, we will enter the figures shown above to dimension the main section of roof. You can hit the **Enter** key or the **Tab** key after entering a number to skip to the next box. For each box you should see an appropriate Tech Tip in the top right of the window.

[6] Set the **Clear span of joists** to 7.4.

[7] Set the **Total number of purlins** to 2.

[8] Set the **Total number of binders** to 2

Timber & roof strap details

[9] Before you click **Next**, click on the button in the bottom left hand corner of the dialog called **Timber & roof strap details**.

Page 1 Additional Inputs

**Timber & roof strap details**

Spacing of joist noggings:  
Enter the spacing centres of the noggings fixed between the ceiling joists, (often provided to brace the ceiling and provide fixings for plasterboard ceilings). (When doing a vaulted roof with no ceiling set noggings centres to 0, this will then omit noggings)

SECTION THROUGH GABLE

SIDE ELEVATION

Eaves roof ventilators ? (Y/N) Y

Tilting fillets and support (Y/N) Y

Airgap and vent (M) 0.050

Cutting allowance to rafters and fascia (M) 0.200

Total end bearings for joists and binders (M) 0.200

Joist width (typical to calc noggings size) (M) 0.050

Rafter width (typical to calc noggings size) (M) 0.050

Spacing of rafter noggings (to support plasterboard) (M) 0

Return

☒ Show Tech Tip  
☒ Show Tech Labels

Cancel

Most of these items are fairly standard and will not need changing very often; on this screen we have just changed Spacing of rafter noggings (to support plasterboard) from 1.2 to 0 as we are not plastering the rafters and do not require additional noggings with rafters set at 0.400m widths. Click **Return** to return to **Roof Structural Information 1**.



[10] Click **Next** to continue.

**Enter Dimensions** Page 2 of 4

**Roof structural information 2**

**Eaves length (internal):**  
Enter the overall distance between walls at eaves. This dimension is combined with wall, soffit and tile overhang to give overall roof width.

Number of gable rafters each side, end 1 (No.) 2,000  
 Number of gable rafters each side, end 2 (No.) 2,000  
 Number of Bargeboards (No.) 2,000  
 No. of rain water pipes (No.) 2,000  
 Number of gutters (No.) 2,000  
 Length of rain water pipes (M) 5

**ROOF STRUCTURE ELEVATION**

Gutter details ☒ Show Tech Tip ☒ Show Tech Labels

As before you may find that certain dimensions are fairly standard and do not need to be changed. Change the other boxes to match the dimensions shown above. Remember if you are in doubt as to what dimension the box refers to you should be able to see the **Tech Tip** in the top right corner of the window.

[11] Set the **Eaves length (internal)** to 15.4.

[12] Set the **Length of rain water pipes** to 5.

**Gutter details**

[13] Click **Gutter details**.

**Page 2 Additional Inputs**

**Gutter details**

**Gutter clip fixing centres:**  
Enter the distance between gutter clip centres.

Supplied length of gutter (M) 3,000  
 Supplied length of downpipe (M) 2,400

**GUTTER DETAILS**

☒ Show Tech Tip ☒ Show Tech Labels

This Additional Inputs screen lets you change the gutter details if needed.

**Return**

[14] Leave the figures as they are and click **Return** to return to Roof Structural Information 2.

**Next**

[15] Then click **Next** to continue to page 3 of 4.

Enter Dimensions Page 3 of 4

**Tiling & insulation information**

No of gable abutment (No.):

Abutment flashing

Length of abutment (M)

Ridge vent

0.100 Spacing of tile lathe (M)

Tile vent

N Is the roof covered with sarking board? (Y/N)

N Insulation to rafters? (Y/N)

0.200 Insulation overlap to ceiling edge (M)

Insulation

Insulation to ceilings? (Y/N)

Insulation overlap

**SECTION THROUGH ROOF**

Tiling details ☒ Show Tech Tip ☒ Show Tech Labels

Cancel Back Next

Page 3 of 4 of the **Apex Roof** Dimensions Wizard deals with **Tiling & insulation information**. Again we are going to use the default values. This page also covers abutments. The roof we are estimating does not join another building, but if it did this is where we would enter the length and number of gable abutments to allow for the lead work to join to the wall.

Page 3 also has an Additional Inputs screen for **Tiling details**. Not every **Dimension Wizard** page has Additional Inputs but if it does you will always find the button in the bottom left of the page. It's worth remembering this when going through **Dimensions Wizards** in other **Workbooks**.

Page 3 Additional Inputs

**Tiling details**

Sand/Cement point ridge: Enter 'Y' if ridge is conventionally bedded on sand and cement pointing. Otherwise enter 'N'.

Sand/Cement point ridge (Y/N)

Proprietary ridge fixing system? (Y/N)

Ridge

Sand/Cement point verge (Y/N)

Proprietary verge fixing system? (Y/N)

Verge

Undercloak

0.075 Tile overhang of fascia ends (M)

0.075 Tile/undercloak overhang 1 (M)

0.075 Tile/undercloak overhang 2 (M)

0.075

**SECTION THROUGH ROOF**

**SIDE ELEVATION**

Return ☒ Show Tech Tip ☒ Show Tech Labels

Cancel

Return

[16] Once you have had a look at this screen click **Return** to go back to Page 3.

Next

[17] Click **Next** to go to Page 4.

Enter Dimensions Page 4 of 4

**Roof finishes**

Ceiling plastered?: Enter 'Y' if the ceiling is plasterboarded. Otherwise enter 'N'. When doing a vaulted roof with no ceiling, set Ceiling plastered? to 'N'.

Under side of rafters plastered? (Y/N)

Under side of rafters decorated? (Y/N)

Prime soffits? (Y/N)

Decorate soffits? (Y/N)

Prime bargeboards and fascias? (Y/N)

Decorate bargeboards and fascias? (Y/N)

Ceiling plastered? (Y/N)

Ceiling plastering decorated? (Y/N)

Bargeboard

Plastering to rafters

Insulation

(Plastered) Ceiling

Fascia

Soffit

**SECTION THROUGH ROOF**

No Options Available ☒ Show Tech Tip ☒ Show Tech Labels

Cancel Back Finish



Page 4 of 4 concerns Roof finishes. This page is where you can enter details of plastering and decorating associated with the roof.



[18] Once more we are going to leave the default values and then click **Finish** to close the **Dimensions Wizard**.

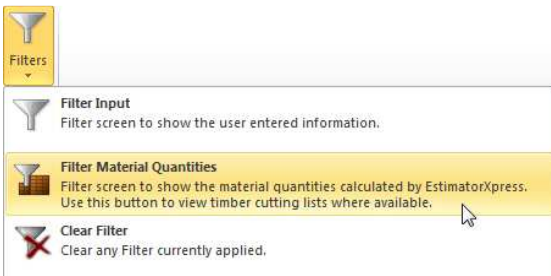
You will then be returned to the **Worksheet** where you will be able to see the dimensions you've just entered and the total cost for the **Worksheet** at the top left of the sheet.

Description	Units	
Clear span of joist	M	7.400
Wall width 1	M	0.300
Wall width 2	M	0.300
Soffit width 1 (Excluding airgap and vent)	M	0.200
Soffit width 2 (Excluding airgap and vent)	M	0.200
Airgap and vent	M	0.050
Tile overhang of fascia ends	M	0.075
Joist centres	M	0.400
Rafter centres	M	0.400
Slope/Pitch of roof	Deg	40.000
Spacing of tile lathe	M	0.100
Is the roof covered with sarking board ?	Y/N	N
Eaves length (internal)	M	15.400
Wall width 1	M	0.300
Wall width 2	M	0.300
Soffit width 1	M	0.200
Soffit width 2	M	0.200
Number of gable rafters each side, end 1	No.	2.000
Number of gable rafters each side, end 2	No.	2.000
Total number of purlins	No.	2.000
Total number of binders	No.	2.000

If you make a mistake entering your dimensions simply click on the column showing the dimensions, then click **Dims Wizard** on the top menu to go through the **Dimensions Wizard** again.

Alternatively you can click any cell with a white background and type a new value in directly.

As well as calculating the cost of the roof, the **Worksheet** also calculates the materials required. You can display a full breakdown of the material requirements including a cutting list for the roof timbers.



[19] Click on **Filters** and then **Filter Material Quantities**.

EstimatorXpress - Job 34: Separate Roofs, House

File EstimatorXpress Toolkit Tools/Options

Close Add Column Copy Column Delete Column Dims View Resources Resources Filters

Summary Price Book Spec Chart Reports Address Profit Inflation

My Jobs \ Job Summary \ Apex Roof \ Apex Roof - Dims

£ 29,765.63

Separate Roofs

Apex Roof

Apex Roof

Location Roof for House with fascias and barge boards. Insulation and plastering to ceiling

Apex roof joists	M	40 @ 7.6	304.00	Sawn Dry Graded Structural Softwood Treated 47.0 x 150mm
Noggings between roof joists	M	312 @ 0.35	109.20	Sawn Softwood Kiln Dried Treated 47.0 x 50mm
Apex roof rafters	M	80 @ 5.748	459.84	Sawn Dry Graded Structural Softwood Treated 47.0 x 125mm
Noggings between rafters	M	-	-	Sawn Softwood Kiln Dried Treated 47.0 x 50mm
Apex roof gable Ladder Rafters	M	8 @ 5.748	45.98	Sawn Dry Graded Structural Softwood Treated 47.0 x 125mm
Gable ladder noggings	M	36 @ 0.3	10.80	Sawn Softwood Kiln Dried Treated 47.0 x 50mm
Soffit carriers	M	88 @ 0.2	17.60	Sawn Batten Treated 25.0 x 38mm
Wall plate	M	2 @ 16.4	32.80	Sawn Dry Graded Structural Softwood Treated 75.0 x 100mm
Apex roof purlins	M	2 @ 16.4	32.80	Sawn Dry Graded Structural Softwood Treated 75.0 x 225mm
Apex roof binders	M	2 @ 15.6	31.20	Sawn Dry Graded Structural Softwood Treated 47.0 x 175mm
Apex roof ridge	M	1 @ 16.4	16.40	Sawn Dry Graded Structural Softwood Treated 25.0 x 200mm
Roof structure fixings (allowance)	M2	186.879	186.88	Round Wire Nails Bright 100mm x 25kg
Eaves fascia	M	2 @ 16.4	32.80	White 175mm Square Fascia x 16mm x 5.0M
Bargeboard	M	4 @ 5.748	22.99	White 175mm Square Fascia x 16mm x 5.0M
Bargeboard fixings	M	22.992	22.99	White plastic top Nail 40mm - 10G
Lathe	M	118 @ 16.55	1,952.90	Sawn Batten Treated 25.0 x 38mm
Lathe nails	M	1,952.900	1,952.90	Round Wire Nails Galvanised 65mm x 25kg
Tiling fillets	No.	88.000	88.00	Sawn Furring Treated 47.0 x 50mm (2 Pack)
Tiling fillet support board	M	2 @ 16.4	32.80	Cement Soffit Strip 2400 x 150 x 4.5mm
Eaves ventilator	M	2 @ 16.4	32.80	Soffit Vent 2440mm (For 6-10mm soffit board)
Eaves ventilator fixings	M	32.800	32.80	Wood Screws Steel CSK Twin Thread 6 x 0.75 inch (200 box)
Gable soffits (side 1)	M2	2 @ 5.548 * 0.2	2.22	White 400mm PVC Board x 9mm x 5.0M
Gable soffits (side 2)	M2	2 @ 5.548 * 0.2	2.22	White 400mm PVC Board x 9mm x 5.0M
Eaves soffits (side 1)	M2	1 @ 16.4 * 0.2	3.28	White 400mm PVC Board x 9mm x 5.0M
Eaves soffits (side 2)	M2	1 @ 16.4 * 0.2	3.28	White 400mm PVC Board x 9mm x 5.0M
Soffit fixings	M2	10.998	11.00	White plastic top Nail 40mm - 10G

Your **Worksheet** should then look like this.

EstimatorXpress - Job 4: Roofing Trade Edition - 1, House

File EstimatorXpress Toolkit Tools/Options

Close Add Column Copy Column Delete Column Dims View Resources Resources Filters

Summary Price Book Spec Chart Reports Address Profit Inflation Compare

My Jobs \ Job Summary \ Apex Roof \ Apex Roof - Dims

£ 29,574.07

Roofing Trade Edition - 1

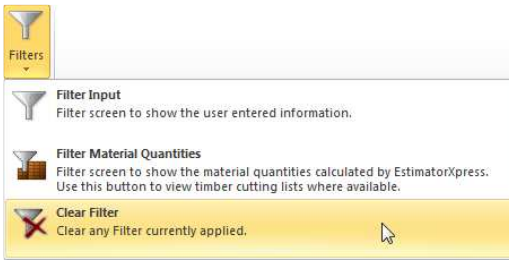
Apex Roof

Apex Roof

Location Plan Tile for House with fascias and barge boards. Insulation and plastering to ceiling

Apex roof joists	M	40 @ 7.6	304.00	Sawn Dry Graded Structural Softwood Treated 47.0 x 150mm
Noggings between roof joists	M	312 @ 0.35	109.20	Sawn Softwood Kiln Dried Treated 47.0 x 50mm
Apex roof rafters	M	80 @ 5.748	459.84	Sawn Dry Graded Structural Softwood Treated 47.0 x 125mm
Noggings between rafters	M	-	-	Sawn Softwood Kiln Dried Treated 47.0 x 50mm
Apex roof gable Ladder Rafters	M	8 @ 5.748	45.98	Sawn Dry Graded Structural Softwood Treated 47.0 x 125mm
Gable ladder noggings	M	36 @ 0.3	10.80	Sawn Softwood Kiln Dried Treated 47.0 x 50mm
Soffit carriers	M	88 @ 0.2	17.60	Sawn Batten Treated 25.0 x 38mm
Wall plate	M	2 @ 16.4	32.80	Sawn Dry Graded Structural Softwood Treated 75.0 x 100mm
Apex roof purlins	M	2 @ 16.4	32.80	Sawn Dry Graded Structural Softwood Treated 75.0 x 225mm
Apex roof binders	M	2 @ 15.6	31.20	Sawn Dry Graded Structural Softwood Treated 47.0 x 175mm
Apex roof ridge	M	1 @ 16.4	16.40	Sawn Dry Graded Structural Softwood Treated 25.0 x 200mm
Roof structure fixings (allowance)	M2	186.879	186.88	Round Wire Nails Bright 100mm x 25kg
Eaves fascia	M	2 @ 16.4	32.80	White 175mm Square Fascia x 16mm x 5.0M
Bargeboard	M	4 @ 5.748	22.99	White 175mm Square Fascia x 16mm x 5.0M
Bargeboard fixings	M	22.992	22.99	White plastic top Nail 40mm - 10G
Lathe	M	118 @ 16.55	1,952.90	Sawn Batten Treated 25.0 x 38mm
Lathe nails	M	1,952.900	1,952.90	Round Wire Nails Galvanised 65mm x 25kg
Tiling fillets	No.	88.000	88.00	Sawn Furring Treated 47.0 x 50mm (2 Pack)
Tiling fillet support board	M	2 @ 16.4	32.80	Cement Soffit Strip 2400 x 150 x 4.5mm
Eaves ventilator	M	2 @ 16.4	32.80	Soffit Vent 2440mm (For 6-10mm soffit board)
Eaves ventilator fixings	M	32.800	32.80	Wood Screws Steel CSK Twin Thread 6 x 0.75 inch (200 box)
Gable soffits (side 1)	M2	2 @ 5.548 * 0.2	2.22	White 400mm PVC Board x 9mm x 5.0M
Gable soffits (side 2)	M2	2 @ 5.548 * 0.2	2.22	White 400mm PVC Board x 9mm x 5.0M
Eaves soffits (side 1)	M2	1 @ 16.4 * 0.2	3.28	White 400mm PVC Board x 9mm x 5.0M
Eaves soffits (side 2)	M2	1 @ 16.4 * 0.2	3.28	White 400mm PVC Board x 9mm x 5.0M
Soffit fixings	M2	10.998	11.00	White plastic top Nail 40mm - 10G
Sarking	M2	-	-	BBA OSB3 2400 x 1200 x 13mm
Nails for sarking	M2	-	-	Clout Nails Galvanised 65mm x 25kg (plating)
Roofing felt	M2	186.879	186.88	Breather Membrane 700 1.5 x 50 m
Tiles	M2	186.879	186.88	Plain Clay Tile (60 per m2) (Allowance 60.70 each)
Tile Nails	M2	186.879	186.88	Round Wire Nails Galvanised 65mm x 25kg
Ridge tile	M	16.550	16.55	Half Round Clay Ridge (300mm) (Allowance 112 each)
Eaves tiles	M	33.100	33.10	Clay Eaves Tile (Allowance 60.90)
Top tiles	M	33.100	33.10	Clay Eaves Tile (Allowance 60.90)
Verge tiles	M	22.584	22.58	Clay Tile 1/2 Half (Allowance 11.40 each)
Tile undercloak 1	M	2 @ 5.646	11.29	Cement Soffit Strip 2400 x 150 x 4.5mm
Tile undercloak 2	M	2 @ 5.646	11.29	Cement Soffit Strip 2400 x 150 x 4.5mm
Proprietary ridge fixing system	M	-	-	PVC Dry Ridge Vent System
Proprietary ridge fixings	M	-	-	Round Wire Nails Galvanised 65mm x 25kg
Proprietary gable fixing system	M	-	-	PVC Dry Verge System
Proprietary gable fixings	M	-	-	Round Wire Nails Galvanised 65mm x 25kg
Sand pointing/bedding to ridge	M	16.550	16.55	Building Sand Bulk Bag
Sand pointing/bedding to verge	M	22.584	22.58	Building Sand Bulk Bag
Cement in pointing/bedding to ridge	M	16.550	16.55	Blue Circle Mastercrete Original Cement 25kg Bag
Cement pointing/bedding to verge	M	22.584	22.58	Blue Circle Mastercrete Original Cement 25kg Bag
Gable abutment (On roof)	M	-	-	LEAD Flashing Code 4 - 3m x 300mm
Gable abutment (To abutment)	M	-	-	Cavity Tray Gable Abutment
Gutter	M	2 @ 16.55	33.10	Half Round Gutter 4m x 112mm
Down pipe	M	2 @ 5.646	11.29	Half Round Downpipe 4m x 68mm

As you can see **EstimatorXpress®** will list the number and length of each timber required such as joist, rafters, purlins and binders, as well as the total length required in metres.



[20] To return to the normal view of the **Worksheet** click **Filters** and then click **Clear Filter**.

We will now look at the output that **EstimatorXpress®** produces. **EstimatorXpress®** has produced a schedule of **Materials** and **Labour** required to construct the roof, including an allowance for wastage.



[21] Click the **View Resources Output** button.

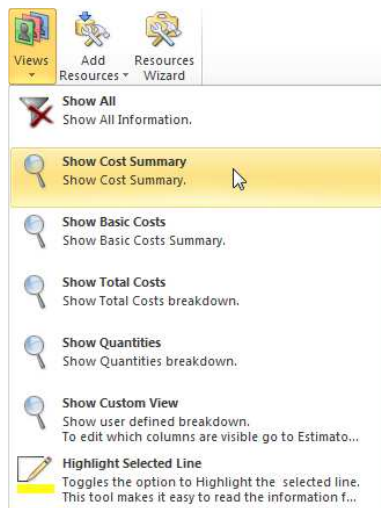
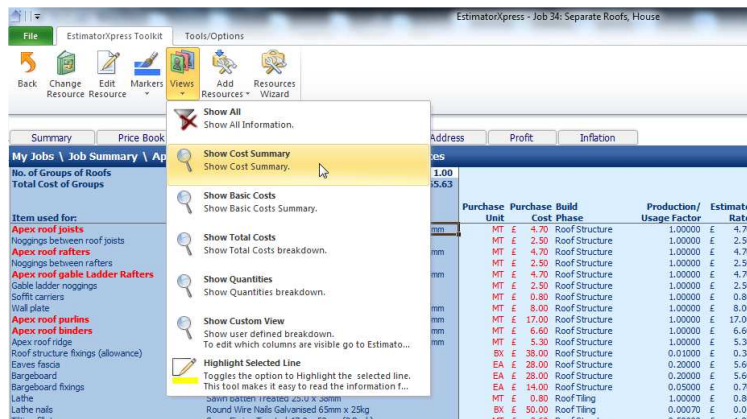
You are transferred to the **Apex Roof Resources Output** screen. You will see that **EstimatorXpress®** has calculated the order quantities and costs associated with all the **Material** and **Labour**, including an allowance for wastage, for the **Apex Valley Roof**. Scroll across the screen with the horizontal scroll bar to see all of the data. Below is a description of each column.

Column Name	Description
Item used for	The <b>item used for</b> simply describes what the item or task is. For example the <b>item used for</b> could be the 'Tiles' or 'Fix tiles, felt and laths' which you'll find used in all of the <b>EstimatorXpress®</b> roof <b>Workbooks</b> .
Description	This is the description of the resource currently selected for the task being carried out.
Purchase Unit	This information comes from the <b>Price Book</b> and describes in what unit we are purchasing the resource. For materials this could be things like each, bag, metre or Kg. For Labour this could be units such as hour, day or week.
Purchase Cost	This information comes from the <b>Price Book</b> and states the cost per unit of the selected resource.
Build Phase	The <b>Build Phase</b> that the resource is associated with. <b>Build Phases</b> are very important in <b>EstimatorXpress®</b> as they drive the <b>Bar Chart</b> detailing the program of works and the <b>Quote by Build Phase</b> . Creating your own <b>Build Phases</b> and associating a task with this <b>Build Phase</b> will automatically add a new bar into our <b>Bar Chart</b> , and a new section into our <b>Quote By Workbook</b> .
Production / Usage Factor	The <b>Usage Factor</b> describes how much of this resource we are using per <b>Unit</b> calculated in the <b>Worksheet</b> . For example how many tiles we need per square metre of roof face or how many square metres of felt, batten & tiles can be laid per hour.
Estimate Rate	The <b>Estimate Rate</b> is the cost per <b>Unit</b> . It is calculated by multiplying the <b>Purchase Cost</b> by the <b>Usage Factor</b> .
Unit	This is the usage unit of the resource e.g. the <b>Worksheet</b> has calculated the area of tiling so the <b>Estimate Rate</b> is a cost per square metre, and the <b>Unit</b> is set to M2.
Waste Factor	This information comes from the <b>Price Book</b> and states how much wastage is being allowed for when using the stated resource.
Type	This information comes from the <b>Price Book</b> and refers to the type of the resources. The <b>Type</b> is important to know so that you can find a <b>Resource</b> easily when searching the <b>Price Book</b> .
Resource	The <b>Resource</b> refers to the type of resource, for example <b>Labour</b> , <b>Material</b> , <b>Plant</b> , <b>Sundry</b> or <b>Subcontractor</b> .
Quantity Per Item	The <b>Quantity Per Item</b> displays the quantity required based upon the dimensions provided in the <b>Worksheet</b> . This is shown as the quantity of units, so in the case of tiles it is measured in metres squared, rather than number of tiles.
Total Quantity	The <b>Total Quantity</b> is the <b>Quantity Per Item</b> multiplied by the number of identical items set in the <b>Resources Output</b> screen.  For example in the <b>Apex Roof Workbook Resources Output</b> screen you will see "No of Groups of Roofs" in the top left corner. If this is set to 2 we are estimating 2 identical roofs. The <b>Total Quantity</b> will then be twice as much as the <b>Quantity Per Item</b> .



Cost	The <b>Cost of Resource</b> required that has been calculated from the dimensions entered into the worksheet excluding an allowance for wastage.
Wastage Cost	The cost allowance made for wastage. This is calculated by multiplying the <b>Purchase Cost</b> by the <b>Wastage Factor</b> .
Total Cost	The <b>Total Cost</b> is the sum of the <b>Cost</b> and the <b>Wastage Cost</b> .
Quantity	The <b>Quantity</b> shows the quantity in terms of the <b>Purchase Unit</b> (without wastage). For example how many tiles rather than how many square metres of tiles.
Wastage	The Wastage shows the allowance for wastage in terms of the <b>Purchase Unit</b> . For example how many tiles have been allowed for wastage rather than how many square metres of tiles.
Total	<b>Total</b> is the sum of <b>Quantity</b> and <b>Wastage</b> for example the total number of tiles required including the allowance for wastage.
Units	The <b>Units</b> column is exactly the same as <b>Purchase Unit</b> , but it is shown on the very end column so that the <b>Total</b> column makes sense when you are reading the figures in it.

- [22] Now use the **Views** drop-down menu to look at the output. Choose from **Show Cost Summary**, **Show Basic Costs**, **Show Total Costs**, **Show Quantities** and **Show All**.



If you press **Show Cost Summary** button from the **Views** drop-down menu, you will see a summary of Costs, Wastage Costs and Total Cost inc. Wastage for each **Resource**.

If you press **Show Basic Costs** button from the **Views** drop-down menu, you will see basic cost information including purchase unit, cost per purchase unit and no. of units required.

If you press **Show Total Costs** button from the **Views** drop-down menu, you will see extended cost information including estimated units required, total quantities including wastage allowance, and total cost of each resources.

If you press **Show Quantities** button from the **Views** drop-down menu, this shows total quantities of materials required including wastage.

If you press **Show All**, this shows you all the **Resources Output** for the estimate relating to the **Apex Roof**.



- [23] Assuming you are satisfied with the estimate output for your **Apex Roof**, return to the **Apex Roof Worksheet Dimensions** screen using the **Back** button.

Summary			
My Jobs \ Job Summary \ Apex Roof \ Apex Roof - Dims \ Apex Roof - Resources			
No. of Groups of Roofs		1.00	
Total Cost of Groups		£	29,765.63
Item used for:	Separate Roofs Description	Resource	Quantity Per Item
Fix soffit carriers	Joiner	Labour	17.600
Fix wall plate	Joiner	Labour	32.800
Fix apex roof purlins	Joiner + Mate	Labour	32.800
Fix apex roof binders	Joiner + Mate	Labour	31.200
Fix apex roof ridge board	Joiner + Mate	Labour	16.400
Fix eaves fascia	Joiner + Mate	Labour	32.800



[24] Click the **Resources Wizard** button on the top menu.

Apex Roof: Review Resources - Page 1 of 4

### Roof structure

**Item Used For:**  
Apex roof joists

**Select Resource Type:**  
Carcasing Timber

**Resource Used:**  
Sawn Dry Graded Structural Softwood T

<b>Build Phase:</b> Roof Structure	<b>Quantity:</b> 304.00m
<b>Item Cost:</b> £4.70 per Metre	<b>Order Qty:</b> 326.80 Metre
<b>Usage Factor:</b> 1	<b>Estimate Rate:</b> £4.70 per m
<b>Total Cost including Wastage:</b> £1,535.96	

[Edit Build Phase & Usage Factor](#)

Soffit and vent details: Material  [Close](#) [Back](#) [Next](#)

The **Resources Wizard** provides much of the same information as the **Resources Output** screen.

The **Item Used For** description is displayed as a label with a line indicating the item on the diagram that it refers to. In the screen above the **Item Used For** that can be seen highlighted in yellow has its details displaying on the right hand side.

You can select a different **Item Used For** by clicking on the corresponding label.

The **Select Resource Type** drop down box allows you to filter the **Resource Used** drop down. So with the **Select Resource Type** set to *Carcasing Timber* the **Resource Used** drop down will only show carcasing timber materials.

You can use the **Resource Used** drop down box to select a different material to be used for the **Item Used For** selected.

Information about the **Item Used For** is displayed below the **Resource Used** drop down box.

If you are changing the material of labour used, you will often need to change the usage factor.



[25] Click on the **Edit Build Phase & Usage Factor** button.

**Edit Resource**

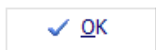
<b>Purchase Cost</b> Item used for: Apex roof joists Sawn Dry Graded Structural Softwood Treated 47.0 x 150mm £4.70 per Metre	<b>Purchase Quantities</b> Quantity: 304 Wastage: 7.50%
<b>Usage</b> Usage Units: M Usage Factor: 1.00000	<b>Build Phase</b> Roof Structure
<b>Estimate Rate</b> £4.70 per m	<b>Cost Summary</b> Cost: £1,428.80 Wastage Cost: £107.16 Total Cost: £1,535.96

[OK](#) [Cancel](#)

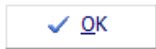


- [26] If you click on the **Usage Factor Calculator** button another window will pop up allowing you to change how much of the specified material is used or how much time it takes to complete a task.

In this example **EstimatorXpress®** is calculating in metres and we are buying the timber by the metre so we have a usage factor of 1.



- [27] Click **OK** to return to the **Edit Resource** dialog box.



- [28] Click **OK** to return to the **Resources Wizard**.

On each page you can switch between the **Material** resources and **Labour, Plant, Subcontract & Sundry** by using the **Resource Type Selection** drop down box at the bottom of the page.

As with the **Dimensions Wizard**, there are sometimes additional input screens you can access by clicking the button at the bottom left of the window.



- [29] Click on **Soffit and vent details**.

Apex Roof: Review Resources - Page 1 Options

### Soffit and vent details

SECTION SHOWING SOFFIT AND TILTING FILLET DETAILS

Item Used For:  
Soffit carriers

Select Resource Type:  
Carcassing Timber

Resource Used:  
Sawn Batten Treated 25.0 x 38mm

Build Phase:  
Roof Structure

Quantity:  
17.60 m

Item Cost:  
£0.80 per Metre

Order Qty:  
18.92 Metre

Usage Factor:  
1

Estimate Rate:  
£0.80 per m

Total Cost including Wastage:  
£15.14

Edit Build Phase & Usage Factor

Return Material Close

Return

[30] Click **Return** to go back to Page 1.

Next

[31] Click **Next** to advance through each page reviewing the **Resources** specified. Don't forget to look at the optional pages to familiarise yourself with what is being allowed for.

Apex Roof: Review Resources - Page 2 of 4

### Roof structure

SECTION SHOWING ROOF STRUCTURE DETAILS

Item Used For:  
Apex roof gable ladder batten

Select Resource Type:  
Carcassing Timber

Resource Used:  
Sawn 25 x 100 Structural Softwood T & M

Build Phase:  
Roof Structure

Quantity:  
15.00 m

Item Cost:  
£4.70 per Metre

Order Qty:  
16.40 Metre

Usage Factor:  
1.09

Estimate Rate:  
£4.70 per m

Total Cost including Wastage:  
£76.83

Edit Build Phase & Usage Factor

Gutter details Material Close Back Next

Apex Roof: Review Resources - Page 2 Options

### Gutter details

SECTION SHOWING GUTTER DETAILS

Item Used For:  
Gutter

Select Resource Type:  
Rainwater Goods

Resource Used:  
Half Round Gutter 100 x 110mm

Build Phase:  
Roof Structure

Quantity:  
10.00 m

Item Cost:  
£28.00 per Metre

Order Qty:  
10.90 Metre

Usage Factor:  
1.09

Estimate Rate:  
£28.00 per m

Total Cost including Wastage:  
£306.12

Edit Build Phase & Usage Factor

Return Material Close

Apex Roof: Review Resources - Page 3 of 4

### Tiling details

SECTION SHOWING TILING DETAILS

Item Used For:  
Lafite

Select Resource Type:  
Carcassing Timber

Resource Used:  
Sawn Batten Treated 25.0 x 38mm

Build Phase:  
Roof Tiling

Quantity:  
1.00 m

Item Cost:  
£0.80 per Metre

Order Qty:  
1.00 Metre

Usage Factor:  
1.00

Estimate Rate:  
£0.80 per m

Total Cost including Wastage:  
£0.80

Edit Build Phase & Usage Factor

Ridge and verge details Material Close Back Next

Apex Roof: Review Resources - Page 3 Options

### Ridge and verge details

SECTION SHOWING RIDGE AND VERGE DETAILS

Item Used For:  
Proprietary ridge fixing system

Select Resource Type:  
Sheet material

Resource Used:  
Current Soffit Strip 2400 x 150 x 4.5mm

Build Phase:  
Roof Tiling

Quantity:  
1.00 m

Item Cost:  
£1.00 per Metre

Order Qty:  
1.00 Metre

Usage Factor:  
1.00

Estimate Rate:  
£1.00 per m

Total Cost including Wastage:  
£1.00

Edit Build Phase & Usage Factor

Return Material Close

Apex Roof: Review Resources - Page 4 of 4

### Roof finishes

SECTION THROUGH ROOF

Item Used For:  
Plasterboard

Select Resource Type:  
Plasterboard

Resource Used:  
Plasterboard Square Edge 1200 x 2400

Build Phase:  
Roof Tiling

Quantity:  
1.00 m

Item Cost:  
£5.00 per Sheet

Order Qty:  
1.00 Sheet

Usage Factor:  
1.00

Estimate Rate:  
£5.00 per m

Total Cost including Wastage:  
£5.00

Edit Build Phase & Usage Factor

No Options Available Material Close Back Finish

The page uses the same drop down boxes and buttons allowing you to change the **Resources** specified for each task.

Finish

[32] When you get to the last page click **Finish** to return to the **Worksheet Dimensions** page.

Close

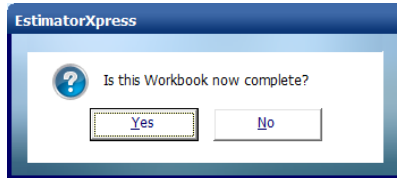
[33] Click **Close** to go back to the list of **Worksheets** in the **Apex Roof** workbook.

If you need to estimate multiple **Apex Roofs** you could click **Add Worksheet** to add another worksheet and repeat the whole process.



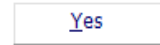
[34] Click **Close** again to go back to the **Job Summary** screen.

You will see this window pop up.



Clicking yes will mark the **Workbook** as being complete. This is to help you keep track of which **Workbooks** you have completed.

Even if you click yes you can still go back into the **Workbook** and make changes if required.



[35] Click Yes.

You are returned to the **Job Summary** and the price of the **Apex Roof Workbook** can be seen with the total cost of all your work estimated so far.

File

EstimatorXpress Toolkit

Tools/Options

Close

Open Workbook

Add Workbook

Delete Workbook

Recalc Estimate

Save

Import PlansXpress Drawing

Order Workbooks

Summary

Price Book

Spec

Chart

Reports

...

My Jobs \ Job Summary

Workbook Name	Remarks	Total Cost	Comments	Linked to Spec?	Complete?
Apex Roof		£ 29,765.63		Yes	Completed
Apex Valley Roof					
Half Hip Roof					
*					
No of Items 3	Sub Total	£ 29,765.63			
	(ex VAT & Profit)				
Remarks					

If you wish to stop and close this current Estimate:

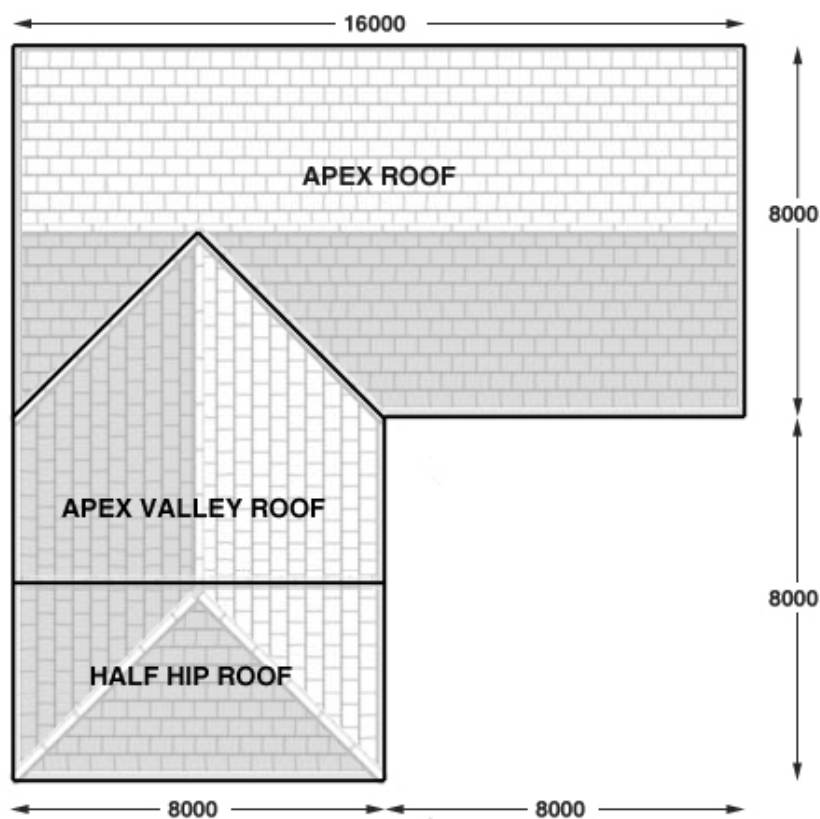
1. Press the **Close** button on the top left of the **Job Summary** screen.
2. You are transferred to the **My Jobs** screen. Close this screen also using the **Close** button.
3. You are now in the **Main Menu** Screen. To close **EstimatorXpress®** press the **Exit** button in the top right of screen.





## ESTIMATING AN APEX VALLEY ROOF

The **Apex Valley Roof Workbook** is used to estimate the part of the roof show below that tees into the **Apex Roof** that we estimated in the previous tutorial.



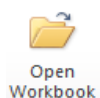
If you wish to start this tutorial having closed EstimatorXpress®:

1. Press the **My Estimates** button at the top of the **Main Menu** screen.
2. This will transfer you to the **My Jobs** screen. Click on the estimate you created for the Apex Roof tutorial.
3. Press the **Open Estimate** button. You are now ready to start the next tutorial.



File					
EstimatorXpress Toolkit					
Tools/Options					
Close	Open	Add	Delete	Recalc	Save
Workbook	Workbook	Workbook	Workbook	Estimate	
Import PlansXpress Drawing					
Order Workbooks					
Summary					
My Jobs \ Job Summary					
Workbook Name	Remarks	Total Cost	Comments	Linked to Spec?	Complete?
Apex Roof		£ 29,765.63		Yes	Completed
Apex Valley Roof					
Half Hip Roof					
No of Items 3	Sub Total	£ 29,765.63			
(ex VAT & Profit)					
Remarks					

- [1] To start estimating the roof click on **Apex Valley Roof** in the Job Summary.



- [2] Click the **Open Workbook** button.

EstimatorXpress

Enter a Worksheet name for this Apex Valley Roof.

Name:

Location:

You are then transferred to **Summary of Apex Valley Roof Workbook** and a dialog box will automatically pop up asking you to give a name and location for the roof.

- [3] Enter any name you think is sensible and then select **House** for location. Click **OK**.

EstimatorXpress® then transfers you into the **Dimensions** screen of the **Apex Valley Roof Worksheet**.

EstimatorXpress

Select a Dimensional Template, or click Edit to create your own.

☒ Tiled roof with fascias and barge boards, insulation and plastering to ceiling

☐ Tiled roof without fascias and barge boards, insulation and plastering to ceiling

☐ Tiled roof with fascias and barge boards, insulation and plastering to vaulted ceiling

☐ Tiled roof without fascias and barge boards, insulation and plastering to ceiling

Another dialog box will automatically pop up asking you to select a **Dimensional Template**.

- [4] Choose the **Tiled roof with fascias and barge boards, insulation and plastering to ceiling** template.

[5] Click **Select**.

Enter Dimensions Page 1 of 4

Roof structural information 1

**SECTION THROUGH ROOF**

Slope/Pitch of roof (Deg) 45.000

Slope/Pitch of Parent Roof (Deg) 45.000

Percentage tile intersection reuse (%) 1.000

Total number of purlins (No.) 2.000

Total number of binders (No.) 2.000

Number of eaves fascias (No.) 1.000

Timber & roof strap details ☐ Show Tech Tip ☐ Show Tech Labels

The **Dimensions Wizard** will automatically open up a dialog box containing drawings to assist you in entering and confirming dimensions for the **Apex Valley Roof**.



**TIP:** Before you enter any dimensions, you may find it useful to switch on **Tech Tips** by ticking the **Show Tech Tips** check box in order to display useful information about each dimension in the top right of the screen, and also to switch on **Tech Labels** by ticking the **Show Tech Labels** check box. You can turn them on and off at any time by ticking and unticking the check boxes.

Enter Dimensions Page 1 of 4

Roof structural information 1

**SECTION THROUGH ROOF**

**Percentage tile intersection reuse:**

Enter 100 % if all tiles on intersection with parent roof can be (re)used as is the case with all new work, i.e. tiles already allowed in main roof can be utilised on projection. In extension work it is often not practical to use any or all of tiles. If none can be used enter 0.0%. If say half can be used enter 50%.

Slope/Pitch of roof (Deg) 40

Slope/Pitch of Parent Roof (Deg) 40

Percentage tile intersection reuse (%) 100

Total number of purlins (No.) 2.000

Total number of binders (No.) 2.000

Number of eaves fascias (No.) 2

Timber & roof strap details ☒ Show Tech Tip ☒ Show Tech Labels

Enter the figures as shown above. You can hit the **Enter** or **Tab** key after entering a number to skip to the next box. For each box you should see an appropriate Tech Tip in the top right of the window.

[6] Set the **Clear span of joist** to 7.4.

[7] Set the **Slope/pitch of roof** to 40.

[8] Set the **Slope/Pitch of Parent Roof** to 40.

[9] Set the **Number of eaves fascias** to 2.

Before you click **Next**, remember there is sometimes an additional input screen.

**Timber & roof strap details**

[10] Click the **Timber & roof strap details** button in the left hand corner of the window.

Page 1 Additional Inputs

### Timber & roof strap details

Spacing of rafter noggings (to support plasterboard) (M) 0

Spacing of rafter noggings (to support plasterboard): Enter the spacing centres of the noggings fixed between the rafters to provide fixings for plasterboard ceilings if required.

SECTION THROUGH GABLE

SIDE ELEVATION

Eaves roof ventilators ? (Y/N) Y

Tilting filets and support (Y/N) Y

Airgap and vent (M) 0.050

Total end bearings for joists and binders (M) 0.200

Joist width (typical to calc noggings size) (M) 0.050

Cut allow to rafters, fascia, ridge & valley (M) 0.200

Rafter width (typical to calc noggings size) (M) 0.050

Return ☒ Show Tech Tip ☒ Show Tech Labels Cancel

Most of these items are fairly standard and will not need changing very often; on this screen we have just changed Spacing of rafter noggings (to support plasterboard) from 1.2 to 0 as we are not plastering the rafters and do not require additional structural support from the noggings.

Return

[11] Click **Return** to return to **Roof Structural Information 1**.

Next

[12] Click **Next** to continue.

Enter Dimensions Page 2 of 4

### Roof structural information 2

Roof STRUCTURE ELEVATION

Number of gable rafters each side, end 1 (No.) 0

Number of Bargeboards (No.) 0

No. of rain water pipes (No.) 2,000

Number of gutters (No.) 2,000

Length of rain water pipes (M) 5

Number of gutter angles (No.) 1,000

Gutter details ☒ Show Tech Tip ☒ Show Tech Labels Cancel Back Next

Although you will find a lot of the dimensions are fairly standard, we will be making a few changes because we are attaching a hip onto the end of the roof so don't require gable rafters, bargeboards or fascias at the gable end.

[13] Set the **Eaves length (internal)** to 3.8.

[14] Set the **Wall width** to 0.

[15] Set the **Soffit width** to 0.

[16] Set the **Number of gable rafters each side, end 1** to 0.

[17] Set the **Number of Bargeboards** to 0.

[18] Set the **Length of rain water pipes** to 5.

Note we've set the soffit width to zero as we are going to be place a half hip roof at the end.

Gutter details

[19] Click **Gutter details**.

This Additional Inputs screen lets you change the gutter details if needed.

Return

[20] Leave the figures as they are and click **Return** to return to Roof Structural Information 2.

Next

[21] Click **Next** to continue to page 3 of 4.

Page 3 of 4 of the **Apex Roof Dimensions Wizard** deals with **Tiling & insulation information**. Again we are going to use the default values. This page also deals with abutments to walls. The roof we are estimating does not abut to another building but if it did this is where we would enter the length and number of gable abutments.

Page 3 also has an Additional Inputs screen for **Tiling details**. Not every **Dimension Wizard** page has Additional Inputs but if it does you will always find the button in the bottom left of the page. It's worth remembering this when going through Dimensions Wizards in other **Workbooks**.



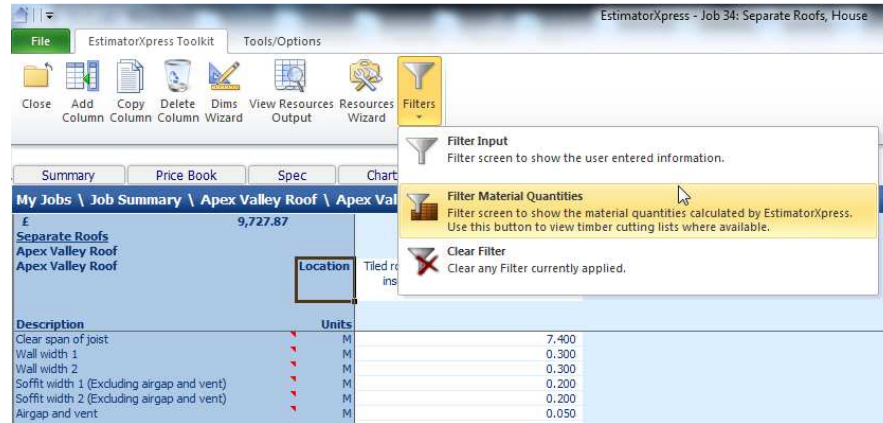


If you make a mistake entering your dimensions simply click on the column showing the dimensions then click **Dims Wizard** on the top menu to go through the **Dimensions Wizard** again.

Alternatively you can click any cell with a white background and type a new value in directly.

When you have finished entering the dimensions you will see the cost displayed at the top left corner of the worksheet.

As well as calculating the cost of the roof the **Worksheet** also calculates the materials required. You can display a full breakdown of the material requirements including a cutting list for the roof timbers.



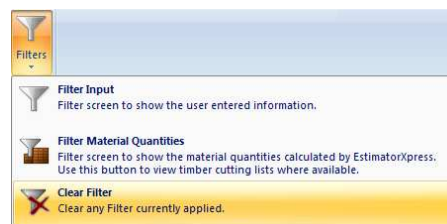
[25] Click on **Filters** and then **Filter Material Quantities**.

Your **Worksheet** should then look like this:

The screenshot shows the EstimatorXpress software interface in the 'Worksheet' view. The 'Filters' menu is open, and the 'Filter Material Quantities' option is selected. The background shows a detailed worksheet with a table of materials and their quantities.

Description	Units	Quantity	Cost	Material
Apex valley roof joists	M	11 @ 7.6	83.60	Sawn Dry Graded Structural Softwood Treated 47.0 x 150mm
Noggings between roof joists	M	80 @ 0.35	28.00	Sawn Softwood Kiln Dried Treated 47.0 x 50mm
Apex valley roof rafters	M	22 @ 5.748	126.46	Sawn Dry Graded Structural Softwood Treated 47.0 x 125mm
Noggings between rafters	M	-	-	Sawn Softwood Kiln Dried Treated 47.0 x 50mm
Apex valley roof gable ladder rafters	M	-	-	Sawn Dry Graded Structural Softwood Treated 47.0 x 125mm
Apex valley roof intersection rafters	M	11 @ 5.748	63.23	Sawn Dry Graded Structural Softwood Treated 47.0 x 125mm
Gable ladder noggings	M	-	-	Sawn Softwood Kiln Dried Treated 47.0 x 50mm
Soffit carriers	M	22 @ 0.3	6.60	Sawn Batten Treated 25.0 x 38mm
Wall plate	M	2 @ 3.8	7.60	Sawn Dry Graded Structural Softwood Treated 75.0 x 100mm
Purlins to valley roof	M	2 @ 5.925	11.85	Sawn Dry Graded Structural Softwood Treated 75.0 x 225mm
Valley lay boards	M	2 @ 7.267	14.53	Sawn Dry Graded Structural Softwood Treated 25.0 x 150mm
Valley boards	M	4 @ 7.267	29.07	Sawn Dry Graded Structural Softwood Treated 25.0 x 150mm
Tile undercloak valley strip	M	4 @ 7.267	29.07	Sawn Batten Treated 25.0 x 38mm
Apex Valley Binders	M	2 @ 4	8.00	Sawn Dry Graded Structural Softwood Treated 47.0 x 175mm
Apex valley roof ridge	M	1 @ 8.25	8.25	Sawn Dry Graded Structural Softwood Treated 25.0 x 200mm
Roof structure fixings (allowance)	M2	67.751	67.75	Round Wire Nails Bright 100mm x 25kg
Eaves fascia	M	2 @ 3.8	7.60	White 175mm Square Fascia x 16mm x 5.0M
Eaves fascia fixings	M	7.600	7.60	White plastic top Nail 40mm - 10G
Bargeboard	M	-	-	White 175mm Square Fascia x 16mm x 5.0M
Bargeboard fixings	M	-	-	White plastic top Nail 40mm - 10G
Lathe	M	118 @ 6	708.00	Sawn Batten Treated 25.0 x 38mm
Lathe nails	M	708.000	708.00	Round Wire Nails Galvanised 65mm x 25kg
Tilting fillets	No.	22.000	22.00	Sawn Furring Treated 47.0 x 50mm (2 Pack)
Tilting fillet support board	M	2 @ 3.8	7.60	Cement Soffit Strip 2400 x 150 x 4.5mm
Eaves ventilator	M	2 @ 3.8	7.60	Soffit Vent 2440mm (For 6-10mm soffit board)
Eaves ventilator fixings	M	7.600	7.60	Wood Screws Steel CSK Twin Thread 6 x 0.75 inch (200 box)

As you can see **EstimatorXpress®** will list the number and length of each timber required such as joist, rafters, purlins and binders, as well as the total length required in metres.



[26] To return to the normal view of the worksheet click **Filters** and then click **Clear Filter**.



Close

[27] Click **Close** to go back to the list of **Worksheets** in the **Apex Valley Roof Workbook**.

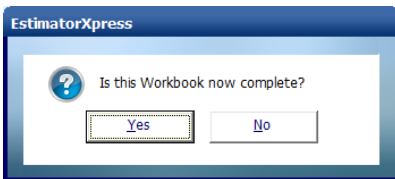
If you need to estimate multiple apex roofs you could click **Add Worksheet** to add another **Worksheet** and repeat the whole process.



Close

Click **Close** again to return to the **Job Summary** screen.

You will see this window pop up.



Clicking **Yes** will mark the **Workbook** as being complete. This is to help you keep track of which **Workbooks** you have completed.

Even if you click **Yes** you can still go back into the **Workbook** and make changes if required.

Click **Yes**.

You are returned to the **Job Summary** and the price of the **Apex Valley Roof Workbook** can be seen with the total cost of all your work estimated so far.

EstimatorXpress Toolkit

Tools/Options

Close

Open Workbook

Add Workbook

Delete Workbook

Recalc Estimate

Save

Import PlansXpress Drawing

Order Workbooks

Summary

Price Book

Spec

Chart

Reports

A

My Jobs \ Job Summary								
Workbook Name	Remarks	Total Cost	Comments	Linked to Spec?	Completed			
Apex Roof		£ 29,765.63		Yes	Completed			
Apex Valley Roof		£ 9,727.87			Completed			
Half Hip Roof								
No of Items 3								
Sub Total		£ 39,493.50						
(ex VAT & Profit)								
Remarks								

If you wish to stop and close this current Estimate:

1. Press the **Close** button on the top left of the **Job Summary** screen.
2. You are transferred to the **My Jobs** screen. Close this screen also using the **Close** button.
3. You are now in the **Main Menu** Screen. To close **EstimatorXpress®** press the **Exit** button in the top right of screen.



Close

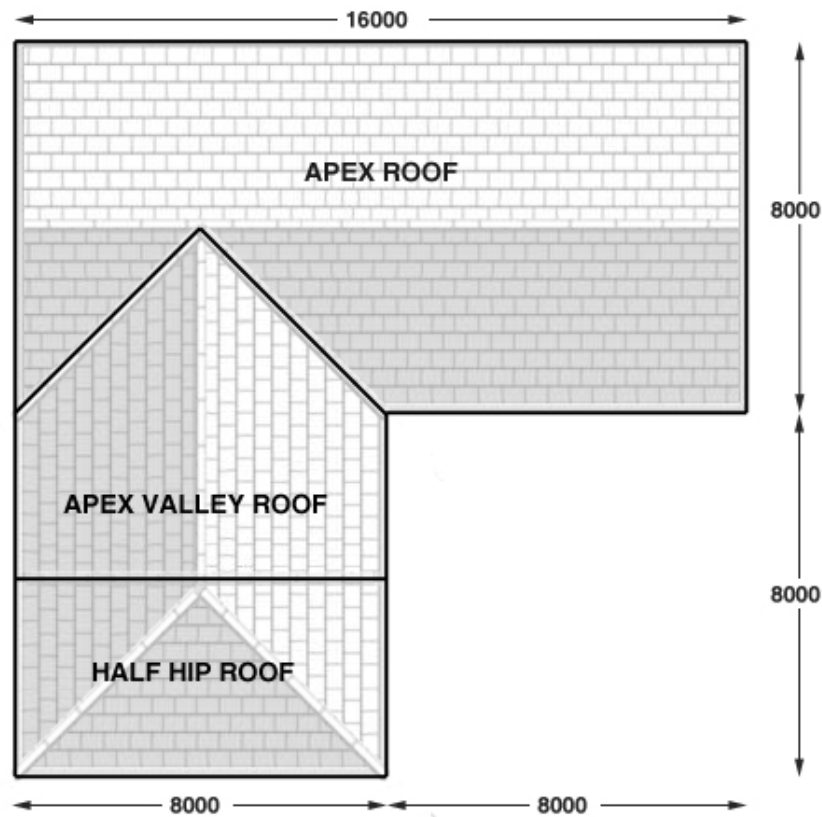


Close



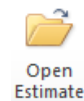
## ESTIMATING A HALF HIP ROOF

The **Half Hip Roof Workbook** is used to estimate the part of the roof show below that tees into the Apex Roof we estimated in the previous tutorial.



If you wish to start this tutorial having closed EstimatorXpress®:

1. Press the **My Estimates** button at the top of the **Main Menu** screen.
2. This will transfer you to the **My Jobs** screen. Click on the estimate you created for the Apex Roof tutorial.
3. Press the **Open Estimate** button. You are now ready to start the next tutorial.



[1] To start estimating the roof click on **Half Hip Roof** in the Job Summary.



[2] Click the **Open Workbook** button.

EstimatorXpress

Enter a Worksheet name for this Half Hip Roof.

Name:

Location:

You are then transferred to **Summary of Half Hip Roof Workbook** and a dialog box will automatically pop up asking you to give a name and location for the roof.

- [3] Enter any name you think is sensible and then select **House** for location. Click **OK**.

EstimatorXpress® then transfers you into the **Dimensions** screen of the **Half Hip Roof Worksheet**.

EstimatorXpress

Select a Dimensional Template, or click Edit to create your own.

- Half hip roof with fascia boards, insulation and plastering to ceiling
- Half hip roof with no fascia boards and soffit, insulation and plastering to ceiling
- Half hip roof with fascia boards and soffit, insulation and plastering to vaulted ceiling
- Half hip roof with no fascia boards and soffit, insulation and plastering to vaulted ceiling
- Half hip garage roof with no fascia boards and soffits, No insulation and plastering to veiling
- Half hip garage roof with fascia boards and soffit, No insulation and plastering to ceiling

Another dialog box will automatically pop up asking you to select a template.

- [4] Choose the **Half hip roof with fascia boards, insulation and plastering to ceiling** template.

[5] Click **Select**.

Enter Dimensions Page 1 of 4

Roof structural information 1

SECTION THROUGH ROOF

Slope/Pitch of roof (Deg) 45.000

Total number of purlins (No.) 2

Total number of binders (No.) 2

Number of eaves fascias (No.) 1.000

Length of hip corner tie (M) 0.900

Timber & roof strap details ☐ Show Tech Tip ☐ Show Tech Labels

The **Dimensions Wizard** will automatically open up which is a dialog box containing drawings to assist you in entering and confirming dimensions for the **Half Hip Roof**.



**TIP:** Before you enter any dimensions, you may find it useful to switch on **Tech Tips** by ticking the **Show Tech Tips** check box in order to display useful information about each dimension in the top right of the screen, and also to switch on **Tech Labels** by ticking the **Show Tech Labels** check box. You can turn them on and off at any time by ticking and unticking the check boxes.

Enter Dimensions Page 1 of 4

Roof structural information 1

SECTION THROUGH ROOF

Slope/Pitch of roof: Enter the angle of the roof, measured from the horizontal.

Slope/Pitch of roof (Deg) 40

Total number of purlins (No.) 2

Total number of binders (No.) 2

Number of eaves fascias (No.) 1.000

Length of hip corner tie (M) 0.900

Labels: Ridge, Rafter, Binder, Purlin, Eaves fascia, Wall plate, Noggings (to ceiling joists), Joist, Wall plate strap, Soffit, Tilting fillet

Timber & roof strap details ☒ Show Tech Tip ☒ Show Tech Labels

Enter the figures as shown above. You can hit the **Enter** or **Tab** key after entering a number to skip to the next box. For each box you should see an appropriate Tech Tip in the top right of the window.

[6] Set the **Clear span of joists** to 7.4.

[7] Set the **Slope/Pitch of roof** to 40.

[8] Set the **Total number of purlins** to 2

[9] Set the **Total number of binders** to 2.

Before you click **Next**, remember there is sometimes an additional input screen.

**Timber & roof strap details**

[10] Click the **Timber & roof strap details** button in the bottom left hand corner of the window.

Page 1 Additional Inputs

### Timber & roof strap details

Spacing of rafter noggings (to support plasterboard) (M)

Spacing of rafter noggings (to support plasterboard):  
Enter the spacing centres of the noggings fixed between the rafters to provide fixings for plasterboard ceilings if required.

SECTION THROUGH GABLE

SIDE ELEVATION

Eaves roof ventilators ? (Y/N)

Tilting fillets and support (Y/N)

Airgap and vent (M)

Total end bearings for joists and binders (M)

Joist width (typical to calc noggings size) (M)

Cut allow to rafters, fascia, ridge & valley (M)

Rafter width (typical to calc noggings size) (M)

Return ☒ Show Tech Tip ☒ Show Tech Labels Cancel

Most of these items are fairly standard and will not need changing very often; on this screen we have just changed Spacing of rafter noggings (to support plasterboard) from 1.2 to 0 as we are not plastering the rafters.

Page 1 Additional Inputs

### Timber & roof strap details

Spacing of rafter noggings (to support plasterboard) (M)

Spacing of rafter noggings (to support plasterboard):  
Enter the spacing centres of the noggings fixed between the rafters to provide fixings for plasterboard ceilings if required.

SECTION THROUGH ROOF

Wallplate strap fixing centres (M)

Eaves roof ventilators ? (Y/N)

Tilting fillets and support (Y/N)

Airgap and vent (M)

Total end bearings for joists and binders (M)

Joist width (typical to calc noggings size) (M)

Cut allow to rafters, fascia, ridge & hip (M)

Rafter width (typical to calc noggings size) (M)

Return ☒ Show Tech Tip ☒ Show Tech Labels Cancel



Return

[11] Click **Return** to return to **Roof Structural Information 1**.

Next

[12] Click **Next** to continue.

You might notice that page 2 is similar to Page 2 of the **Apex Roof** and **Apex Valley Roof Workbooks**. One difference however is that it doesn't ask us for a length dimension. This is because the **Workbook** only deals with working out the half hip end so it calculates the width of the roof from the pitch of roof entered on page 1 of the **Dimensions Wizard**.

Enter Dimensions Page 2 of 4

**Roof structural information 2**

Joist centres: Enter distance between centres of joists.

Joist centres (M) 0.400 Rafter centres (M) 0.400

"Gable end"

Rafter

Joist

Nogging

Hip rafter

Fascia

Soffit

ROOF STRUCTURE ELEVATION

0.200

Does "gable end" of half hip adjoin other roof? (Y/N) Y

Is there a gutter serving the hip roof? (Y/N) Y

No. of rain water pipes (No.) 2.000

Length of rain water pipes (M) 5.000

Number of gutter unions (No.) 2.000

Number of gutter stop ends (No.) 2.000

Number of gutter angles (No.) 2.000

Gutter details

☒ Show Tech Tip

☒ Show Tech Labels

Cancel Back Next

Confirm the dimensions are set as required.

Gutter details

[13] Click **Gutter details**.

Page 2 Additional Inputs

**Gutter details**

Gutter clip fixing centres: Enter the distance between gutter clip centres.

Gutter clip fixing centres (M) 1.200

Gutter outlet

Gutter fixing clip

Gutter stop end

Gutter swan neck

Down pipe

Down pipe clip

Down pipe fixing centres (M) 1.200

Supplied length of gutter (M) 3.000

Supplied length of downpipe (M) 2.400

GUTTER DETAILS

Return

☒ Show Tech Tip

☒ Show Tech Labels

Cancel

This Additional Inputs screen lets you change the gutter details if needed.

Return

[14] Leave the figures as they are and click **Return** to return to Roof Structural Information 2.

Next

[15] Click **Next** to continue to page 3 of 4.

Enter Dimensions Page 3 of 4

**Tiling & insulation details**

No of gable abutment: Enter the number of gable abutments to the roof (1 or 2)

No of gable abutment (No.) 0

Abutment flashing

Length of abutment (M) 0

Ridge vent

Sarking board

Spacing of tile lathe (M) 0.100

Tile vent

Is the roof covered with sarking board? (Y/N) N

Insulation to rafters (Y/N) N

Insulation overlap to ceiling edge (M) 0.200

Insulation

Insulation to ceiling? (Y/N) Y

Insulation overlap

SECTION THROUGH ROOF

Tiling details

☒ Show Tech Tip

☒ Show Tech Labels

Cancel Back Next

Page 3 of 4 of the **Apex Roof Dimensions Wizard** deals with **Tiling & insulation information**. Again we are going to use the default values for this example estimate. This page also covers abutments. The roof we are estimating join a wall which would require lead flashing to be calculated, but if it did this is where we would enter the length and number of gable abutments.

Page 3 also has an Additional Inputs screen for **Tiling details**. Not every **Dimensions Wizard** page has Additional Inputs but if it does you will always find the button in the bottom left of the page. It's worth remembering this when going through **Dimension Wizards** in other workbooks.

**Tiling details**

[16] Click **Tiling details**.

**Return**

[17] Once you have had a look at this screen click **Return** to go back to Page 3.

**Next**

[18] Click **Next** to go to Page 4.

**Finish**

[19] Page 4 of 4 concerns **Roof finishes**, this page is where you can enter details of plastering and decorating associated with the roof. Once more we are going to leave the default values and then click **Finish** to close the **Dimensions Wizard**.

You will then be returned to the **Worksheet** where you will be able to see the dimensions you've just entered and the total for the **Worksheet** at the top left side of the sheet.

Description	Units	
Clear span of joist	M	7.400
Wall width 1	M	0.300
Wall width 2	M	0.300
Soffit widths to perimeter of roof	M	0.200
Airgap and vent	M	0.050
Tile overhang of fascia ends	M	0.075
Joist centres	M	0.400
Rafter centres	M	0.400
Slope/Pitch of roof	Deg	40.000
Spacing of tile lathe	M	0.100
Is the roof covered with sarking board?	Y/N	N
Total number of purlins	No.	2.000
Total number of binders	No.	2.000
Number of eaves fascias	No.	1.000
Is there a gutter serving the hip roof?	Y/N	Y
No. of rain water pipes	No.	2.000
Length of rain water pipes	M	5.000
Number of gutter angles	No.	2.000
Number of gutter stop ends	No.	2.000
Number of gutter unions	No.	2.000

If you make a mistake entering your dimensions simply click on the column showing the dimensions then click **Dims Wizard** on the top menu to go through the **Dimensions Wizard** again.

Alternatively you can click any cell with a white background and type a new value in directly.

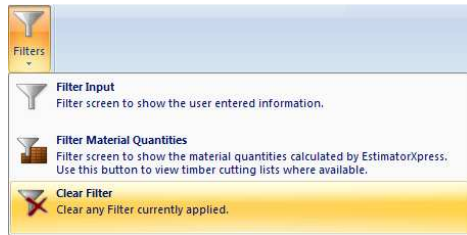
As well as calculating the cost of the roof the **Worksheet** also calculates the materials required. You can display a full breakdown of the material requirements including a cutting list for the roof timbers.

[20] Click on **Filters** and then **Filter Material Quantities**.

Your **Worksheet** should then look like this:

Description	Units	
Hip roof joists	M	11 @ 7.6
Noggings between roof joists	M	80 @ 0.35
Hip roof rafters	M	22 @ 5.748
Noggings between rafters	M	-
Soffit carriers	M	46 @ 0.3
Hip corner ties	M	2 @ 0.9
Wall plate	M	2 @ 3.8 & 1 @ 7.6
Purlins to hip roof	M	4 @ 2.05 & 2 @ 3.9
Hip ridge rafter	M	2 @ 7.189
Hip roof binders	M	2 @ 3.9
Roof structure fixings (allowance)	M2	48.837
Eaves fascia	M	1 @ 17
Eaves fascia fixings	M	17.000
Lathe	M	118 @ 4.325
Lathe nails	M	510.350
Tilting filets	No.	46.000
Tilting file support board	M	1 @ 17
Eaves ventilator	M	1 @ 17
Eaves ventilator fixings	M	17.000
Eaves soffits (side 1)	M2	1 @ 17 * 0.2
Soffit fixings	M2	3.400
Sarking	M2	-
Nails for sarking	M2	-
Roofing felt	M2	48.837
Tiles	M2	48.837
Eaves tiles	M	17.300

As you can see **EstimatorXpress®** will list the number and length of each timber required such as joist, rafters, purlins and binders, as well as the total length required in metres.



[21] To return to the normal view of the worksheet click **Filters** and then click **Clear Filter**.



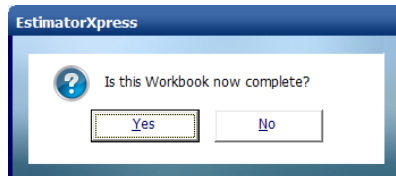
[22] Click **Close** to go back to the list of **Worksheets** in the **Half Hip Roof Workbook**.

If you need to estimate multiple apex roofs you could click **Add Worksheet** to add another **Worksheet** and repeat the whole process.



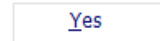
[23] Click **Close** again to go back to the **Job Summary** screen.

You will see this window pop up.



Clicking yes will mark the **Workbook** as being complete. This is to help you keep track of which **Workbooks** you have completed.

Even if you click yes you can still go back into the workbook and make changes if required.



Click **Yes**.

You are returned to the **Job Summary** and the price of the **Half Hip Roof Workbook** can be seen with the total cost of all your work estimated so far.

File

EstimatorXpress Toolkit

Tools/Options

Close

Open

Add

Delete

Recalc

Save

Import PlansXpress Drawing

Order Workbooks

Summary

Price Book

Spec

Chart

Reports

Ad

My Jobs \ Job Summary

Workbook Name	Remarks	Total Cost	Comments	Linked to Spec?	Complete?
Apex Roof		£ 29,765.63		Yes	Completed
Apex Valley Roof		£ 9,727.87			Completed
Half Hip Roof		£ 9,405.06			Completed
No of Items 3	Sub Total	£ 48,898.55			
	(ex VAT & Profit)				
Remarks					

If you wish to stop and close this current Estimate:

Press the **Close** button on the top left of the **Job Summary** screen.



You are transferred to the **My Jobs** screen. Close this screen also using the **Close** button.



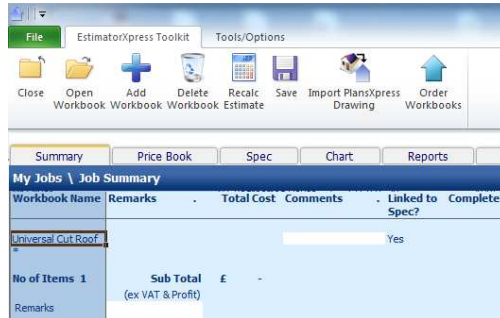
You are now in the **Main Menu** Screen. To close **EstimatorXpress®** press the **Exit** button in the top right of screen.



## ESTIMATING A ROOF USING THE UNIVERSAL CUT ROOF

We are now going to use the **Universal Cut Roof Workbook** to estimate the roof we previously estimated using the **Apex Roof**, **Apex Valley** and **Half Hip** roof **Workbooks** to show you an alternative method to price the same work.

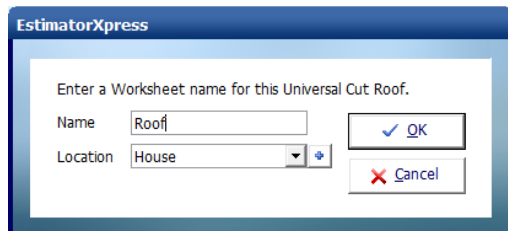
To begin, create a new estimate containing only the **Universal Cut Roof** workbook. See page 41 of the **EstimatorXpress® Getting Started Guide** for a detailed explanation of creating a new estimate.



- [1] To start estimating the roof click on **Universal Cut Roof** in the Job Summary.

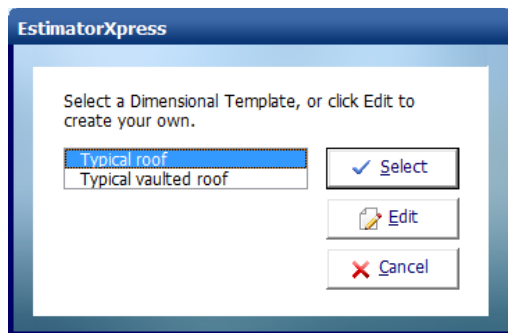


- [2] Click the **Open Workbook** button



You are then transferred to **Summary of Universal Cut Roof Workbook** and a dialog box will automatically pop up asking you to give a name and location for the roof.

- [3] Enter any name you think is sensible and then select **House** for location. Click **OK**.



There are only two dimensional templates to choose from **Typical roof** (flat ceiling) or **Typical vaulted roof**.

- [4] Click on **Typical roof**.



- [5] Click **Select**.

Page 1 of 5 of the **Dimensions Wizard** will pop up asking us to enter the Overall roof Dimensions.

Remember to tick **Show Tech Tip** and **Show Tech Labels**.

The **Universal Cut Roof Workbook** will ask us for a lot more information rather than it automatically being worked out. The idea behind this is that we might have a complicated roof that the regular roof **Workbook** won't be able to calculate.

Enter Dimensions Page 1 of 5

Overall roof dimensions

TOTAL tile area in PLAN (M2) 0

Slope/pitch of roof (No.) 45.000

TOTAL length of ALL eaves (M) 0

NOTE THAT ROOF CAN BE OF ANY SHAPE OR SIZE OR CAN BE PART OF A ROOF

TOTAL length of ALL hip ridges in PLAN (M) 0

Slope/pitch of hip (No.) 45.000

No. of hip ridges (No.) 0

TOTAL PLAN length of ALL gables at JOIST level (M) 0

TOTAL length of ridges (M) 0

TOTAL length of ALL valleys in PLAN (M) 0

Slope/pitch of VALLEY (No.) 45.000

TILED PLAN VIEW OF ROOF

No Options Available ☐ Show Tech Tip ☐ Show Tech Labels

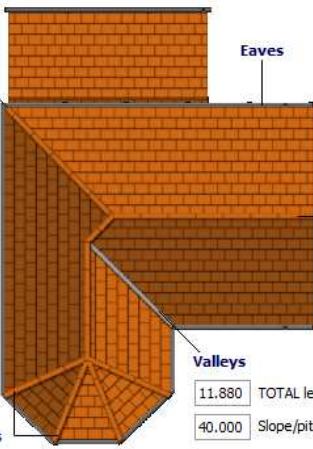
Cancel Back Next



Enter Dimensions Page 1 of 5

### Overall roof dimensions

**TOTAL tile area in PLAN:**  
Enter TOTAL area of the roof as measured in PLAN ignoring the slopes completely. (The sloped area of the roof will be worked out automatically by the program.)



**Hips**  
TOTAL tile area in PLAN (M2) 204.960  
Slope/pitch of roof (No.) 40.000  
TOTAL length of ALL eaves (M) 40.400

**NOTE THAT ROOF CAN BE OF ANY SHAPE OR SIZE OR CAN BE PART OF A ROOF**

TOTAL length of ALL hip ridges in PLAN (M) 11.880  
Slope/pitch of hip (No.) 40.000  
No. of hip ridges (No.) 2.000

**Eaves**  
TOTAL PLAN length of ALL gables at JOIST level (M) 16.800

**Gables**  
TOTAL length of ridges (M) 24.400

**Ridge**  
TOTAL length of ALL valleys in PLAN (M) 11.880  
Slope/pitch of VALLEY (No.) 40.000

**Valleys**

**TILED PLAN VIEW OF ROOF**


No Options Available ☒ Show Tech Tip ☒ Show Tech Labels

Cancel Back Next

Using the plan at the start of the tutorial we can work out the dimensions required to fill in Page 1 of 5. You could do the same using a scale ruler and printed plan. Enter the following dimensions:

- [6] Set the **TOTAL tile area in PLAN** to 204.96.
- [7] Set the **Slope/pitch of roof** to 40.
- [8] Set the **TOTAL length of ALL eaves** to 40.4.
- [9] Set the **TOTAL length of ALL hip ridges in PLAN** to 11.88.
- [10] Set the **Slope/pitch of hip** to 40.
- [11] Set the **No. of hip ridges** to 2.
- [12] Set the **TOTAL PLAN length of ALL gables at JOIST level** to 16.8.
- [13] Set the **TOTAL length of ridges** to 24.4.
- [14] Set the **TOTAL length of ALL valleys in PLAN** to 11.88.
- [15] Set the **Slope/pitch of VALLEY** to 40.

Please note the roof shown in the **Dimensions Wizard** is just an example of the type of roof you could estimate. The roof estimated depends entirely on the information provided by the user.

-  [16] Click **Next** to continue.

**Page 2** is shown below. This is where we need to enter information such as the length of ALL purlins and binders and also the soffit width to gable and eaves.

Enter Dimensions Page 2 of 5

### Roof structural information 1

**TOTAL length of ALL binders:**  
Enter the TOTAL LENGTH of all binders for this section of roof.

TOTAL length of ALL binders (M)

TOTAL length of ALL lean to apex wall plates (M)

NOTE THAT THE ROOF CAN BE ANY SHAPE AND SIZE

TOTAL length of ALL purlins (M)

TOTAL length of ALL lean to internal wall plates (M)

STRUCTURAL PLAN VIEW OF ROOF

SECTION THROUGH LEAN TO ROOF

Timber and roof strap details ☒ Show Tech Tip ☐ Show Tech Labels

[17] Set the **TOTAL length of ALL binders** to 48.

[18] Set the **TOTAL length of ALL purlins** to 46.8.

Timber and roof strap details

[19] Click **Timber and roof strap details** to go to the Additional Inputs window.

Page 2 Additional Inputs

### Timber and roof strap details

**Spacing of joist noggings:**  
Enter the spacings of the noggings which are affixed between ceiling joists.

SECTION THROUGH GABLE

SIDE ELEVATION

Eaves roof ventilators? (Y/N)

Tilting fillets and support? (Y/N)

Cutting allowance per rafter, valley, hip. (M)

End bearings for joists and binders (both ends) (M)

Return ☒ Show Tech Tip ☐ Show Tech Labels

Return

[20] We are going to leave values as they are and click **Return** to go back to Page 2.

Next

[21] Click **Next** to proceed to page 3.

Enter Dimensions Page 3 of 5

### Roof structural information 2

**Rafter centres:**  
Enter the spacings of the rafters (centre to centre).

Rafter centres (M)

Joist centres (M)

Length of each hip corner tie (M)




Are there bargeboards to gables? (Y/N)

No. of gable rafters (No.)

Are there eaves fascia boards? (Y/N)

**STRUCTURAL PLAN VIEW OF ROOF**

Gutter details ☒ Show Tech Tip ☐ Show Tech Labels

Gutter details

[22] Click **Gutter details**.

Page 3 Additional Inputs

### Gutter details

**TOTAL no. of gutter angles:**  
Enter the TOTAL number of gutter angles on this section of roof.

Gutter clip fixing centres (M)

TOTAL no. of gutter stop ends (No.)

Down pipe fixing centres (M)

**GUTTER DETAILS**

TOTAL no. of rain water outlets (No.)


TOTAL length of rain water pipes (M)

TOTAL no. of gutter angles (No.)

Supplied length of gutter (M)

Supplied length of downpipe (M)

Return ☒ Show Tech Tip ☐ Show Tech Labels



[23] Set the **TOTAL no. of gutter stop ends** to 4.[24] Set the **TOTAL no. of rain water outlets** to 6.[25] Set the **TOTAL length of rain water pipes** to 30.[26] Set the **TOTAL no. of gutter angles** to 3.

Return

[27] Click **Return**.[28] Again we are going to leave the values as they are and click **Next** to move onto the next window.

Enter Dimensions Page 4 of 5

### Tiling and insulation information

**ENTER VALUES FOR ANY ROOF SHAPE**

No of tile and half tiles required per metre of abutment flashings (No.) 5.000

No of tile and half tiles required per metre of valley (No.) 10.000

No of tile and half tiles required per metre of hip (No.) 10.000

Length of ALL abutment to walls (M) 0

Is the roof covered with sarking board? (Y/N) N

Spacing of tile lathe (M) 0.100

Insulation to ceiling? (Y/N) Y

Insulation to rafters (Y/N) N

Insulation usage factor (No.) 1.150

**SECTION THROUGH ROOF**

**FLASHINGS TO LEAN TOO ROOF**

No of tile and half tiles required per metre of valley:  
Enter the no. of tile and halves (if appropriate) for each metre run of the valley.

Tiling details ☒ Show Tech Tip ☐ Show Tech Labels

[Cancel](#) [Back](#) [Next](#)

[29] Set the **No of tile and half tiles required per metre of valley** to 10.

[30] Set the **No of tile and half tiles required per metre of hip** to 10.

[Next](#) [31] Click **Next**.

Enter Dimensions Page 5 of 5

### Roof finishes

0 Spacing of rafter noggings (to support plasterboard) (M)

N Underside of rafters plastered? (Y/N)

N Underside of rafters decorated? (Y/N)

Ceiling plaster plastered? (Y/N) Y

Plastering to ceiling decorated? (Y/N) Y

Prime bargeboards and fascias? (Y/N) N

Decorate bargeboards and fascias? (Y/N) N

Prime soffits? (Y/N) N

Decorate soffits? (Y/N) N

**SECTION THROUGH ROOF**

**TOTAL flat ceiling area to ALL of roofs:**  
Enter the TOTAL area of ALL flat ceiling within the roof. This information is used to calculate the area of plastering to the flat ceiling or in the case of a vaulted ceiling, the area of any plastering to the sloping ceiling. The area is also used to calculate the length of joists required over the entire ceiling.

**TOTAL flat ceiling area to ALL of roofs (M2)** 173.16

**You must enter the ceiling area even if ceiling is not required as area is used to calculate roof timbers etc. !!**

**PLAN VIEW OF CEILING**

No Options Available ☒ Show Tech Tip ☐ Show Tech Labels

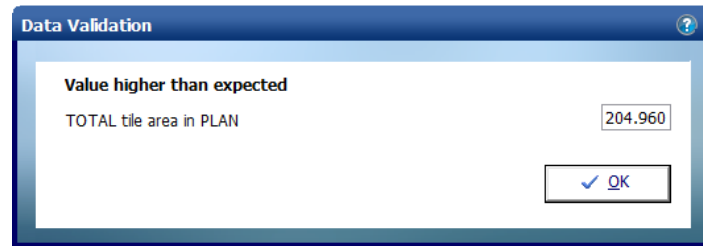
[Cancel](#) [Back](#) [Finish](#)

[32] Set the **Spacing of rafter noggings (to support plasterboard)** to 0.


[33] Set the **TOTAL flat ceiling area to ALL of roofs** to 173.16.

[34] Set the **Spacing of rafter noggings (to support plasterboard)** to 0.

[Finish](#) [35] Click **Finish**.



If you have entered the values shown in this tutorial you should see the **Data Validation** window. This window will pop-up if **EstimatorXpress®** thinks the value entered might be higher than it should be for a typical roof being priced up in the **Universal Cut Roof Workbook**. However we know the value we have entered is correct.

 [36] Click **OK**.


You will then be returned to the **Worksheet** where you will be able to see the dimensions you've just entered and the total for the **Worksheet** at the top left side of the sheet.

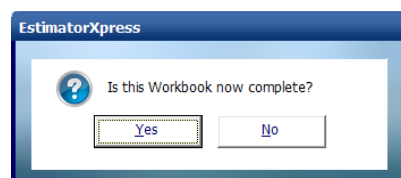
My Jobs \ Job Summary \ Universal Cut Roof \ Roof - Dims		
£ 46,168.15		
Single Roof		
Universal Cut Roof		
Location		Typical roof
Description	Units	
TOTAL length of ALL eaves	M	40.400
Are there eaves fascia boards?	Y/N	Y
Soffit width to eaves (excluding airgap and vent)	M	0.200
Joist centres	M	0.400
Rafter centres	M	0.400
Width of rafter	M	0.050
Are there bargeboards to gables?	Y/N	Y
No. of gable rafters	No.	2.000
Soffit width of gables	M	0.200
TOTAL PLAN length of ALL gables at JOIST level	M	16.800
TOTAL length of ALL purlins	M	46.800
TOTAL length of ALL binders	M	48.000
TOTAL length of ALL lean to apex wall plates	M	-
TOTAL length of ALL lean to internal wall plates	M	-
Spacing of gable noggings	M	0.600
Length of gable noggings	M	0.300
Spacing of joist noggings	M	1.200
End bearings for joists and binders (both ends)	M	0.200
Cutting allowance per rafter, valley, hip	M	0.200
Length of soffit carrier material per rafter	M	0.300
Length of each hip corner tie	M	1.000
TOTAL tile area in PLAN	M2	204.960
Slope/pitch of roof	No.	40.000
TOTAL length of ridges	M	24.400
TOTAL length of ALL valleys in PLAN	M	11.880

If you make a mistake entering your dimensions simply click on the column showing the dimensions then click **Dims Wizard** on the top menu to go through the **Dimensions Wizard** again.

Alternatively you can click any cell with a white background and type a new value in directly.

 [37] Click **Close** to go back to the list of **Worksheets** in the **Universal Cut Roof workbook**.

 [38] Click **Close** again to go back to the **Job Summary** screen.



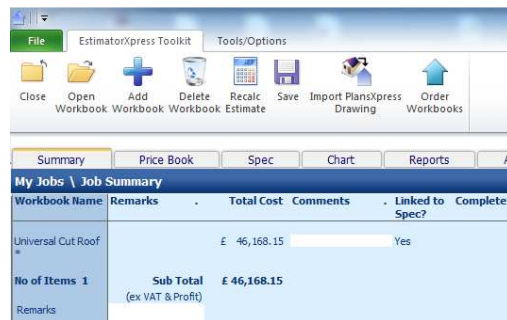
You will see this window pop up.

Clicking yes will mark the **Workbook** as being complete. This is to help you keep track of which **Workbooks** you have completed.

Even if you click yes you can still go back into the **Workbook** and make changes if required.



You are returned to the **Job Summary** and the price of the **Universal Cut Roof Workbook** can be seen with the total cost of all your work estimated so far.



You will notice that the 2 methods of pricing the roof have come out differently; using separate roof workbooks is 6% higher in cost. If you take a look at the reports in each estimate and compare the quantities of resources you will see that the separate roofs are over-estimating for some items. Where the **Apex Valley Roof** tees into the **Apex Roof** the tile area has been subtracted but we have allowed for too much lathe, roofing felt and timber for the rafters. The Soffit detail has also not been subtracted. Additionally the verge detail of the **Apex Valley Roof** should be subtracted as we know that there is in fact a **Half Hip Roof** attached to the gable end. We could now go back through the individual **Workbooks** to set some resources as 'not required' or subtract quantities of items to make the quote more accurate.

In this example of a complex roof the **Universal Roof Workbook** has produced the more accurate results, but the separate **Workbooks** have provided us with cutting list for all of our timbers required and with a little more work could be just as accurate in its material quantities. As the user of the system you can decide whether you wish to get an accurate estimate quickly, or to put a bit more time in to the estimate in order to make your job of ordering materials and carrying out the work a bit simpler.

**If you wish to stop and close this current Estimate:**

Press the **Close** button on the top left of the **Job Summary** screen.



You are transferred to the **My Jobs** screen. Close this screen also using the **Close** button.



You are now in the **Main Menu** Screen. To close **EstimatorXpress®** press the **Exit** button in the top right of screen.



Congratulations! You have completed the **EstimatorXpress® Roofing Trade Edition Tutorial**. You should now return to the EstimatorXpress Getting Started Guide to learn about the **Bar Chart Planner** and the **Reports** within **EstimatorXpress®**.