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# **AppliCad Roofing Software**

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**Advanced Software for Roof Modelling and Estimating**

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## **Tutorial for Setting up Material Files**

Including important notes on field sizes etc.

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## Table of Contents

Including important notes on field sizes etc.....	1
<b>TABLE OF CONTENTS .....</b>	<b>2</b>
<b>IMPORTANT NOTES TO CREATING YOUR MATERIAL FILES .....</b>	<b>3</b>
Tiles, Shingles and Shakes .....	3
Metal Panels.....	3
Flashings .....	4
Custom flashings .....	5
Fasteners .....	5
Insulation.....	6
Membrane .....	6
Flashing detail.....	7
Fixtures .....	8
Downpipes .....	9
Extras .....	9
Misc items.....	10
Areas .....	10
Colours.....	11
Curving Charges .....	11
Tiles+ .....	12
Company .....	12
Job details.....	13
Customer (all people files) .....	13
<b>DEFINING MATERIALS - METAL .....</b>	<b>14</b>
Modifying a Profile.....	14
Adding a New Profile .....	16
<b>DEFINING MATERIALS - TILES .....</b>	<b>17</b>
Modifying a tile .....	17
Adding a new tile.....	20
<b>DEFINING FLASHINGS.....</b>	<b>20</b>
Modifying a Flashing.....	20
Adding a new flashing .....	24

This document describes the number of characters each string field on the dialog boxes can contain, and a brief overview of setting up material data files.

## IMPORTANT NOTES TO CREATING YOUR MATERIAL FILES

The AppliCad software uses a data field structure within the program that is constrained to certain field sizes or number of characters in a string field. Below we have summarised the number of characters that may be used in the respective fields on each dialogue box. It is important that you do not exceed these constraints as it has been shown to cause unreliable functionality.

You **must** also avoid using spaces in the product codes. For example, if you need a fastener code that looks like this FTSC- 25 x 17, remove the spaces entirely like this FTSC-25x17 or use an underscore instead of the space like this FTSC-\_25\_x\_17. Spaces in product codes have been found to be the single most common source of unreliable function of the software.

## Tiles, Shingles and Shakes

Manufacturer 25  
Profile 25  
Name 25  
Material 25

## Metal Panels

Manufacturer 25  
Profile 25  
Finish 25  
Fastener 25  
Product code 25

**Define panels (rec = 1 of 9)**

Manufacturer: Supplier

Profile: Curve Quality 2

Finish: Colour

Fastener code: FP1265HT17

Product code: CQ60-2

Fasteners: 6.00 per sqm

Coverage width: 762.00 mm

Thickness: 0.60

Cost: 25.26 / sqm

Min order length: 0 mm

Max order length: 0 mm

Is this a composite panel? No

Select Delete Add

Update

Cancel Ok

## Flashings

Manufacturer 25  
 Finish 25  
 Fastener code 25  
 Description 25  
 Product code 25

**Define flashing (rec = 0 of 18)**

Type of flashing: Ridge

Manufacturer:

Finish:

Fastener code:

Description:

Product code:

Fasteners per m: 0.00

Maximum length: 0.00 mm

Costing method: per length

Cost per unit: 0.00

Estimation method: Split each run up to the maximum length

Pay rate schedule: Default

Select Delete Add

Cancel Accessories Stock-Lengths Ok

## Flashing accessories

Accessory name 25  
 Code 25  
 Finish 25  
 Fastener codes 25

Define Accessories - page 1 of 3

Flashing accessories for BHP\_O Gee Gutter, Painted, OG60-

Gutter alone

Accessory Name	Product code	Finish	Items per box	Cost per box	Number	Estimation method	Fastener timber frame	Fastener steel frame	Number of fasteners
External bracket	EB-1	Painted	1	1.00	900.00	mm spacing along flashing (nett)			0
External corner 90	EXCNR-9	Painted	1	1.00	1.00	per external corner (90)			0
Internal Corner 90	INTCNR-	Painted	1	1.00	1.00	per internal corner (90)			0
Stop end left	SE-L	Painted	1	1.00	1.00	per free left hand end			0
Stop end right	SE-R	Painted	1	1.00	1.00	per free right hand end			0
		Painted	0	0.00	1.00	Not estimated			0
		Painted	0	0.00	1.00	Not estimated			0
		Painted	0	0.00	1.00	Not estimated			0
		Painted	0	0.00	1.00	Not estimated			0
		Painted	0	0.00	1.00	Not estimated			0

Cancel Select Next-Page Ok

## Custom flashings

Name 79  
Description 79  
Manufacturer 79  
Finish 79

Custom flashing rates (rec = 0 of 24)

Name

Description

Manufacturer

Finish

Stock sheet length 0.00 mm

Stock sheet width 0.00 mm

Cost of flat sheet \$ 0.00

Estimate sheets too? Yes

Bends 0 1 2 3 4 5 6

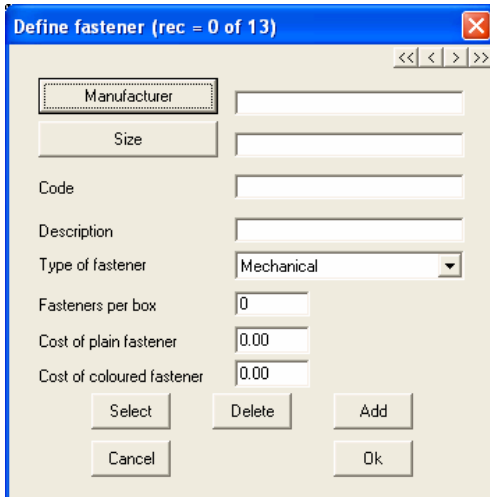
Girth

0.00 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00 mm	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Cancel Select Delete Auto-Fill Add Ok

## Fasteners

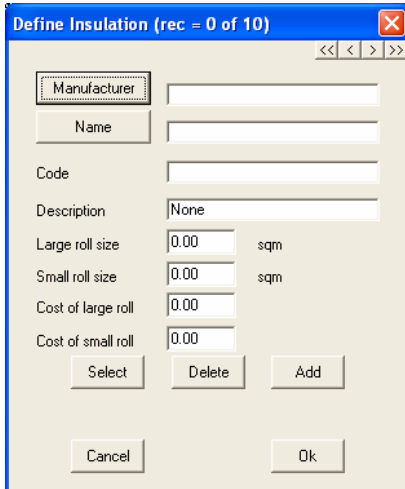
Manufacturer 25  
Size 25  
Code 25  
Description 25



The 'Define fastener' dialog box is titled 'Define fastener (rec = 0 of 13)'. It features a list box at the top labeled 'Manufacturer' with navigation buttons '<<', '<', '>', and '>>'. Below this are input fields for 'Size', 'Code', and 'Description'. A 'Type of fastener' dropdown menu is set to 'Mechanical'. Numerical input fields are provided for 'Fasteners per box' (0), 'Cost of plain fastener' (0.00), and 'Cost of coloured fastener' (0.00). At the bottom, there are 'Select', 'Delete', 'Add', 'Cancel', and 'Ok' buttons.

## Insulation

Manufacturer 79  
Name 79  
Code 50 (actually 79, but this string is used for the sizes too)  
Description 79



The 'Define Insulation' dialog box is titled 'Define Insulation (rec = 0 of 10)'. It includes a list box for 'Manufacturer' with navigation buttons '<<', '<', '>', and '>>'. Below are input fields for 'Name', 'Code', and 'Description' (which is pre-filled with 'None'). There are also input fields for 'Large roll size' and 'Small roll size', both with a unit of 'sqm'. Below these are input fields for 'Cost of large roll' and 'Cost of small roll'. The bottom of the dialog features 'Select', 'Delete', 'Add', 'Cancel', and 'Ok' buttons.

## Membrane

Manufacturer 79  
Name 79  
Code 79  
Description 79

**Define Membrane (rec = 0 of 12)**

Manufacturer:

Name:

Code:

Description:

Unit type:

Area method for BUR

Large size in sqm	<input type="text" value="0.00"/>	Cost	<input type="text" value="0.00"/>
Small size in sqm	<input type="text" value="0.00"/>	Cost	<input type="text" value="0.00"/>
Labour rate / sqm	<input type="text" value="0.00"/>		

Layout method for single-ply

Perimeter sheet width	<input type="text" value="0.00"/>	mm		
Length	<input type="text" value="0.00"/>	mm	Cost	<input type="text" value="0.00"/>
Length	<input type="text" value="0.00"/>	mm	Cost	<input type="text" value="0.00"/>
Field sheet width	<input type="text" value="0.00"/>	mm		
Length	<input type="text" value="0.00"/>	mm	Cost	<input type="text" value="0.00"/>
Length	<input type="text" value="0.00"/>	mm	Cost	<input type="text" value="0.00"/>

Select Delete Add

Cancel Ok

## Flashing detail

Name 79  
 Flashing label 100 (not user defined)  
 Database name 79  
 Figure name 79

**Define flashing detail (record 1 of 3)**

Name of flashing detail:

Flashing 1	APRON-1234, ZINCALUME	- ... +
Flashing 2	BG-1234, ZINCALUME	- ... +
Flashing 3	RB4075, GALVANISED	- ... +
Flashing 4	RB4075, Galvanised	- ... +

Database name of graphic detail:  ...

Figure name of graphic detail:  ...

Add flashing Add fastener

Select Add Delete

Update

Cancel Ok

## Fixtures

Name 79  
 Manufacturer 79  
 Product code 79  
 Flashing code 25  
 Database name 79  
 Figure name 79

**Define Fixture (record 1 of 1)**

<< | < | > | >>

Name of fixture: Skylight

Manufacturer: Herd

Product code: SKY-1

Flashing 1: SF-1 Length: 0.00

Database name of fixture: Fixtures.dab

Figure name of fixture: Skylight

Insertion method: Get a location and orientation point

Cost: 20.00

Cost to install: 15.00

Select Add flashing Delete flashing Add Delete Update Cancel Ok



## Downpipes

Manufacturer 25  
Finish 25  
Size 25

Define downpipe rec 0 of 28

Manufacturer

Finish

Size

Style

Thickness

Item code	Length	Cost
Length 1 <input type="text"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>
Length 2 <input type="text"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>

Estimation method

Item code	Item cost	Spacing	Report
Pop <input type="text"/>	<input type="text" value="0.00"/>		<input type="text" value="Yes"/>
Strap <input type="text"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	<input type="text" value="Yes"/>
Offset <input type="text"/>	<input type="text" value="0.00"/>		<input type="text" value="Yes"/>
Shoe <input type="text"/>	<input type="text" value="0.00"/>		<input type="text" value="Yes"/>
Elbow <input type="text"/>	<input type="text" value="0.00"/>		<input type="text" value="Yes"/>

Reduce downpipe length due to offset by

Select Delete Add

Cancel Ok

## Extras

Description 79

Define extras Page 1 of 5

Description	Qty	Cost	Type of item
Licence Fee	1.00	21.00	Material item
Bay Window (F&G)	1.00	10.00	Labour item
Bay Window (Roof)	1.00	11.00	Labour item
Boundary Flashing	1.00	12.00	Labour item
Bullnose - sq mtr	1.00	13.00	Labour item
Bullnose - per sheet	1.00	14.00	Labour item
Chimney	1.00	15.00	Labour item
Curved apron	1.00	16.00	Labour item
Curved barge	1.00	17.00	Labour item
Curved hips	1.00	18.00	Labour item

Cancel Next-Page Ok

## Misc items

Manufacturer 79  
Description 79

Define miscellaneous items. Page 1 of 20

Manufacturer	Description	Mat Qty	Mat Cost	Include mat	Lab Qty	Lab Cost	Include lab	Auto lab
Steve's Supplies	Tube of silicon	1.00	5.05	Yes	0.00	0.00	Yes	No
Sample supplier	Claw hammer1	2.00	6.07	No	0.00	0.00	Yes	No
Manufacturer	Another item	10.00	22.00	No	0.00	0.00	Yes	No
Stratco	Pop 100x50 Zinc	1.00	3.00	Yes	0.00	0.00	Yes	No
		0.00	0.00	Yes	0.00	0.00	No	No
		0.00	0.00	Yes	0.00	0.00	No	No
		0.00	0.00	Yes	0.00	0.00	No	No
		0.00	0.00	Yes	0.00	0.00	No	No
		0.00	0.00	Yes	0.00	0.00	No	No
		0.00	0.00	Yes	0.00	0.00	No	No

Cancel Next-Page Ok

## Areas

Label 79  
Area name 79

Define delivery area names

Delivery label for costing: Delivery

Include for costing: Yes

Area name	Rate
Area 1	1.00
Area 2	2.00
Outer 2	3.00
Outer 4	25.00
North	0.00
West	0.00
sethhwte	12.00
	0.00
	0.00
	0.00

Cancel Ok

Colours

Colour 79

Define colours

Manufacturer

...

Colour

...

Delete

Add

Cancel

Ok

Colours

Colour 79

Define colours

Colour

...

Delete

Add

Cancel

Ok

Curving Charges

Product code 25

Define curving charges

Curving material

...

Product code	From length	To length	Cost to curve
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00

Cancel

Ok

## Tiles+

Manufacturer 40  
 Profile 40  
 Name 40  
 Material 40  
 Code 40  
 Batten 40  
 Fastener 40

**Define tile**

Manufacturer:  Profile:   
 Name:  Material:

---

**Field tile**

Code:  Lap style:   
 Nominal length:  Nominal width:   
 Maximum headlap:  Linear cover of 1 piece:   
 Minimum headlap:  Coverage:  pieces per m2  
 Recommended batten:  Batts required:   
 Fastener for field tile:  Number:   
 Order units:   
 Cost per Piece:

---

**Accessories**

Description	Code	Estimation method	Cost	Length or No
1 <input type="text"/>	<input type="text"/>	Not estimated	0.00	0.00
2 <input type="text"/>	<input type="text"/>	Not estimated	0.00	0.00
3 <input type="text"/>	<input type="text"/>	Not estimated	0.00	0.00
4 <input type="text"/>	<input type="text"/>	Not estimated	0.00	0.00
5 <input type="text"/>	<input type="text"/>	Not estimated	0.00	0.00
6 <input type="text"/>	<input type="text"/>	Not estimated	0.00	0.00

Select Delete Add

Next page

Cancel Ok

## Company

All 79 characters

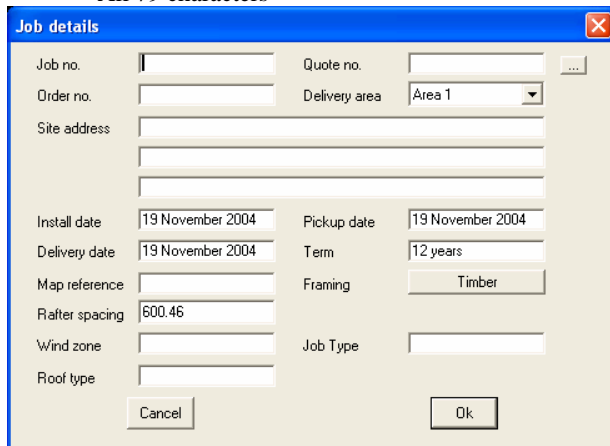
**Your company details**

Name:   
 Address:   
  
 Phone:   
 Fax:   
 Note 1:   
 Note 2:   
 ABN:

Cancel Ok

## Job details

All 79 characters

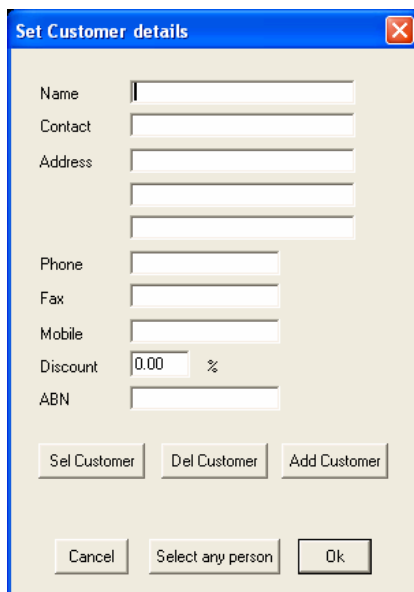


The 'Job details' dialog box contains the following fields and controls:

- Job no. (text box)
- Quote no. (text box with a browse button '...')
- Order no. (text box)
- Delivery area (dropdown menu showing 'Area 1')
- Site address (three stacked text boxes)
- Install date (19 November 2004)
- Pickup date (19 November 2004)
- Delivery date (19 November 2004)
- Term (12 years)
- Map reference (text box)
- Framing (button labeled 'Timber')
- Rafter spacing (600.46)
- Wind zone (text box)
- Job Type (text box)
- Roof type (text box)
- Cancel button
- Ok button

## Customer (all people files)

Name 79  
 Contact 79  
 Address1 79  
 Address2 79  
 Address3 59 (see business number below)  
 Phone 20  
 Fax 20  
 Mobile 20  
 ABN 20 (saved in the address3 string)



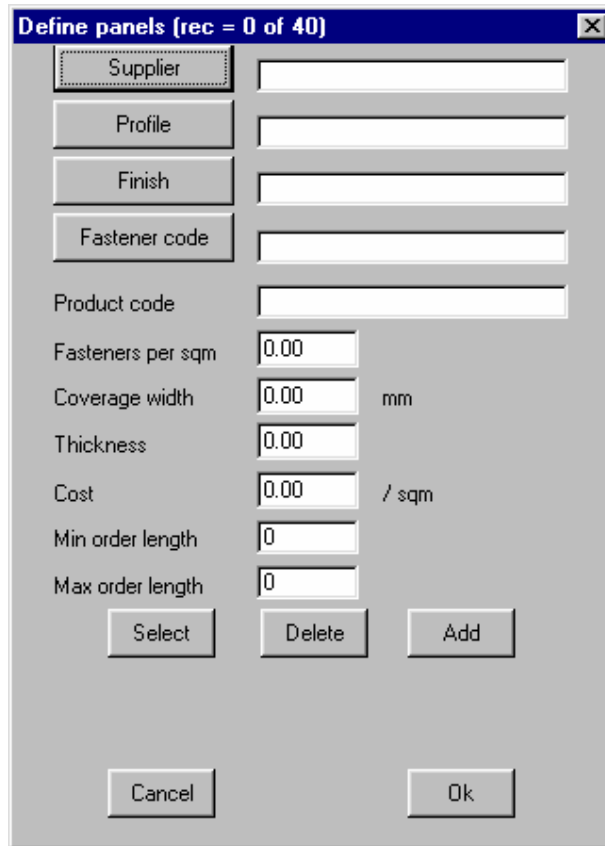
The 'Set Customer details' dialog box contains the following fields and controls:

- Name (text box)
- Contact (text box)
- Address (three stacked text boxes)
- Phone (text box)
- Fax (text box)
- Mobile (text box)
- Discount (0.00 %)
- ABN (text box)
- Sel Customer button
- Del Customer button
- Add Customer button
- Cancel button
- Select any person button
- Ok button

## Defining Materials - Metal

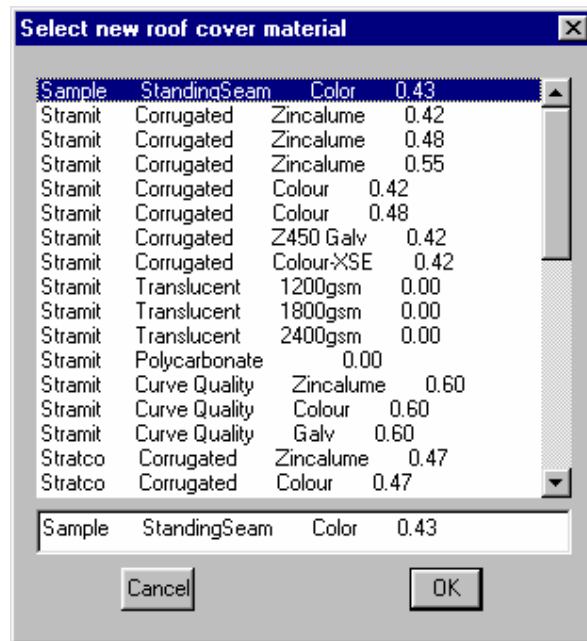
### *Modifying a Profile*

The first step when defining profiles is to select **Cover | Define Materials | Metal Panels** from the main menu. The dialog box below is displayed.

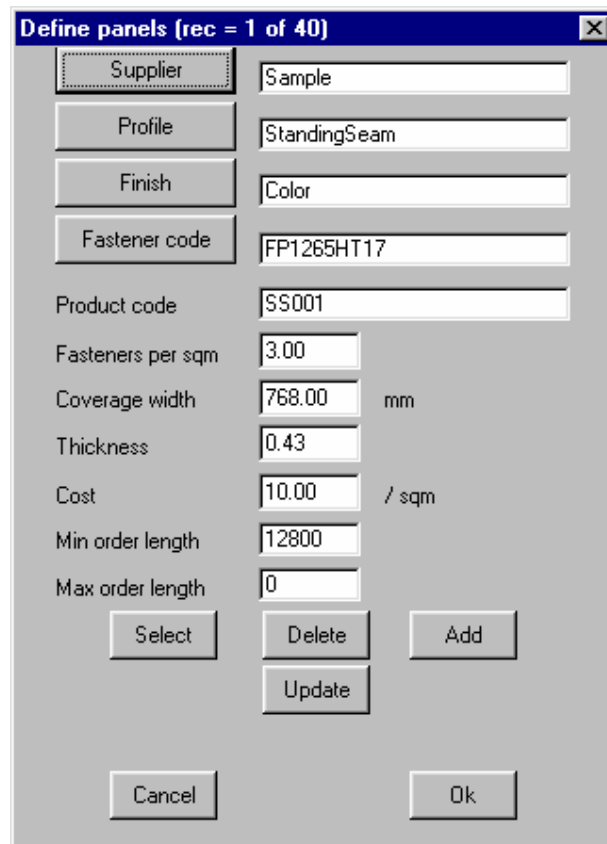


The dialog box is titled "Define panels (rec = 0 of 40)". It contains several input fields and buttons. On the left, there are four buttons: "Supplier", "Profile", "Finish", and "Fastener code". To the right of these buttons are four corresponding text input fields. Below these are four more text input fields labeled "Product code", "Fasteners per sqm", "Coverage width", and "Thickness". To the right of "Fasteners per sqm", "Coverage width", and "Thickness" are numerical input fields with "0.00" entered. To the right of "Cost" is a numerical input field with "0.00" entered, followed by the unit "/ sqm". Below these are two more numerical input fields labeled "Min order length" and "Max order length", both with "0" entered. At the bottom, there are three buttons: "Select", "Delete", and "Add". At the very bottom, there are two buttons: "Cancel" and "Ok".

With this dialogue box now open you have the choice to either update an existing profile definition (such as cost), or add a completely new profile. To modify an existing profile, click on **Select**. This will bring up the **Select New Roof Material** dialog box (next page).



As shown in the above dialog box you can select the profile you want to modify and then click **Ok**. This will take you back to the previous dialog box but this time with the details of the profile selected is displayed in the fields.



As shown above the dimensions and prices of the profiles are now filled out.

The **Fasteners per sqm** is how many fasteners will be inserted every square metre (or foot when in imperial).

**Coverage width** is the width of each panel.

**Thickness** is the thickness of the panel.

**Cost** is how much the selected material will cost per square meter(foot).

**Min order length** is the minimum length that can be supplied.

**Max order length** is the maximum length that can be supplied.

If you need to modify the selected material, make the modifications and then click **Update**. This will now update the materials details into the materials database.

### ***Adding a New Profile***

If you want to add a completely new profile, type in the details in the appropriate fields and select **Add**. This will add the new profile to the materials database. With the new or modified profile in the materials database click **Ok** to exit.

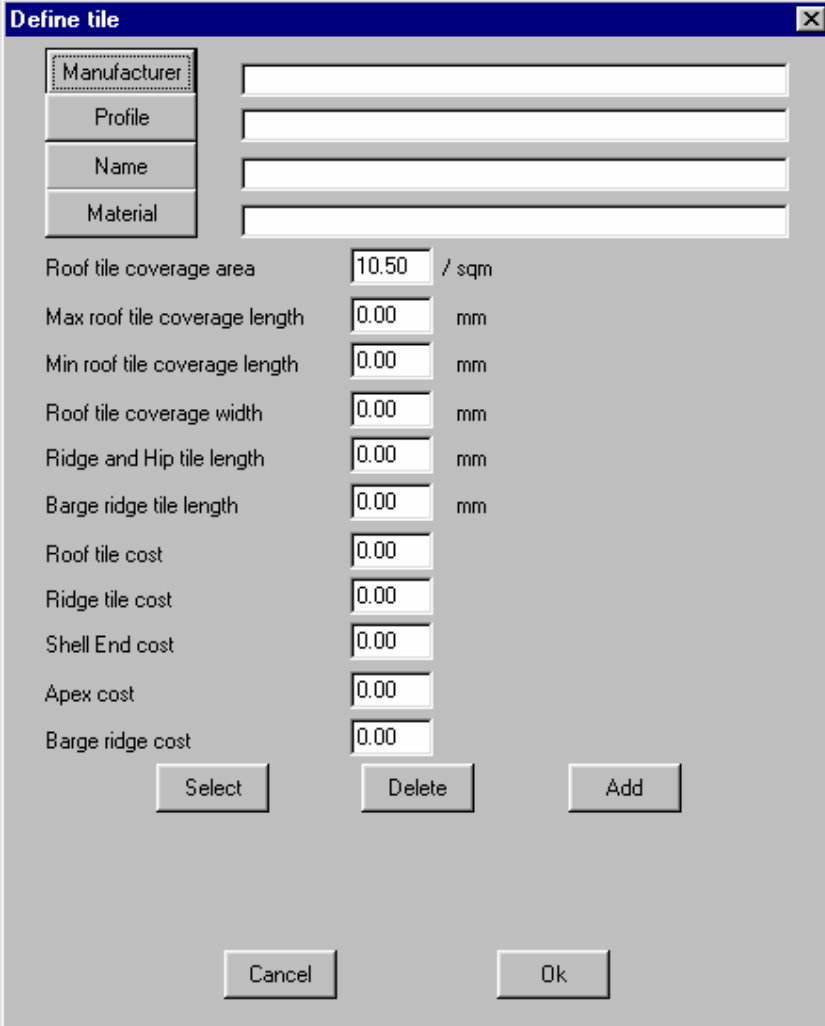
You may select an existing profile, modify its details and save as a new profile using **Add**, instead of **Update**. In this way you can add an entire product line in just a few minutes work. You only have to do this once to input the products that you use, or to change details, e.g. if your supplier drops their price for you.



## Defining Materials - Tiles

### *Modifying a tile*

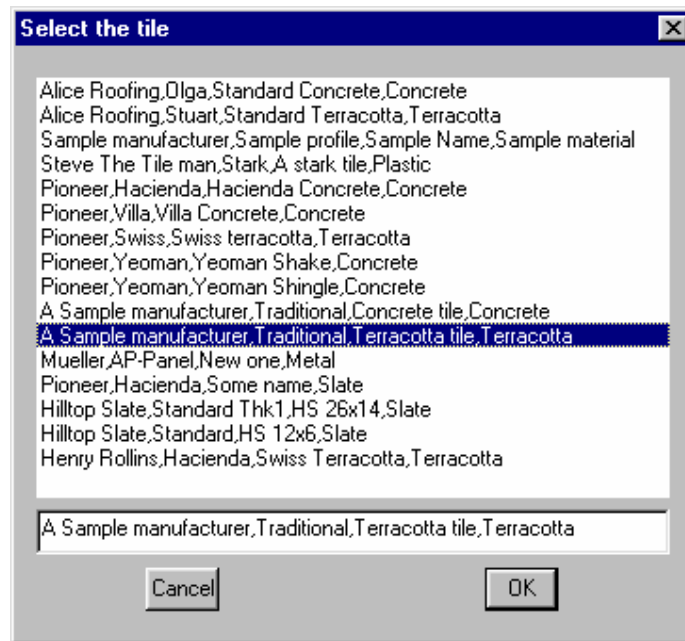
The first step when defining materials is to select **Coverage | Define Materials | Tiles** from the main menu. The dialog box below is displayed.



The 'Define tile' dialog box is a window with a title bar and a close button. It contains several input fields and buttons. On the left, there are four buttons: 'Manufacturer', 'Profile', 'Name', and 'Material'. To the right of these buttons are four corresponding text input fields. Below these, there are ten rows of labels and input fields. The first row is 'Roof tile coverage area' with a value of '10.50' and a unit of '/ sqm'. The next four rows are 'Max roof tile coverage length', 'Min roof tile coverage length', 'Roof tile coverage width', and 'Ridge and Hip tile length', each with a value of '0.00' and a unit of 'mm'. The next three rows are 'Barge ridge tile length', 'Roof tile cost', 'Ridge tile cost', 'Shell End cost', 'Apex cost', and 'Barge ridge cost', each with a value of '0.00'. At the bottom, there are three buttons: 'Select', 'Delete', and 'Add'. At the very bottom, there are two buttons: 'Cancel' and 'Ok'.

Label	Value	Unit
Roof tile coverage area	10.50	/ sqm
Max roof tile coverage length	0.00	mm
Min roof tile coverage length	0.00	mm
Roof tile coverage width	0.00	mm
Ridge and Hip tile length	0.00	mm
Barge ridge tile length	0.00	mm
Roof tile cost	0.00	
Ridge tile cost	0.00	
Shell End cost	0.00	
Apex cost	0.00	
Barge ridge cost	0.00	

With this dialog box now open you have the choice to either update an old tile definition (such as cost), or add a completely new tile. To modify an old tile, click on **Select**. This will bring up the tile select dialogue box.



As shown in the above dialog box you select the appropriate tile and then select **Ok**. This will take you back to the previous dialog box but this time with the details of the tile selected displayed in the fields.

Define tile id= 11

Manufacturer	A Sample manufacturer	
Profile	Traditional	
Name	Terracotta tile	
Material	Terracotta	

Roof tile coverage area	10.55	/ sqm
Max roof tile coverage length	330.20	mm
Min roof tile coverage length	304.80	mm
Roof tile coverage width	304.80	mm
Ridge and Hip tile length	355.60	mm
Barge ridge tile length	420.00	mm
Roof tile cost	1.00	
Ridge tile cost	0.80	
Shell End cost	2.00	
Apex cost	2.00	
Barge ridge cost	0.00	

Select

Delete

Add

Update

Cancel

Ok

As shown above the dimensions of the tiles are now filled out.

The **Roof tile coverage area** is how many tiles will fit in a square metre/foot.

**Max roof tile coverage length** is the maximum length of the tile.

**Min roof tile coverage length** is the minimum length of the tile.

**Roof tile coverage width** is the width of the tile.

**Ridge and hip tile length** is the length of the tiles that cover the ridges and hips.

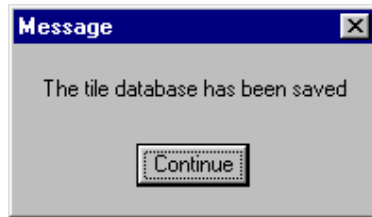
**Barge ridge tile length** is the length of the tiles that cover barge line.

The final five fields allow you to set item for **tile**, **ridge**, **shell end**, **apex** and **barge ridge**. If you need to modify the selected tile, make the modifications and then select **Update**. This will now update the tile details into the tile database.

**Note:** This process is the same for slate, shingles, shakes or metal 'tile' panels

## Adding a new tile

If you want to add a completely new tile, type in the details in the appropriate fields and select **Add**. This will add the new tile to the tile database. With the new or modified tile in the tile database click **Ok** to exit. The following dialog box will then appear telling you the tile database has been updated.



You may select an existing tile, modify its details and save as a new tile using **Add**, instead of **Update**. In this way you can add an entire product line in just a few minutes work. You only have to do this once to input the products that you use, or to change details, e.g. if your supplier drops their price for you.

## Defining Flashings

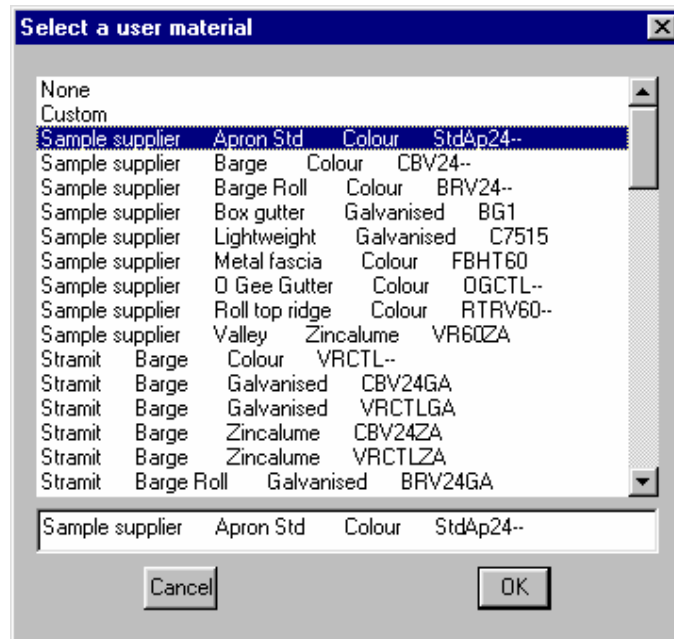
### Modifying a Flashing

The first step when defining flashings is to select **Cover | Define Materials | Flashing** from the main menu. The dialog box below is displayed.

With this dialog box now open you have the choice to either update an old flashing

definition (such as cost), or add a completely new flashing. To modify an old flashing, first select the type of flashing that you want to modify.

To choose your flashing click on **Select**. This will bring up the Select a User Material dialog box.



As shown in the above dialog box you select the appropriate material and then select **Ok**. This will take you back to the previous dialog box but this time with the details of the material selected displayed in the fields.

**Define flashing (rec = 23 of 72)**

Type of flashing:

Supplier:

Finish:

Fastener code:

Description:

Product code:

Fasteners per m:

Maximum length:

Costing method:

Cost per unit:

Estimation method:

Select Delete Add

Update

Cancel Stock-Lengths Ok

As shown above the dimensions of the flashing are now filled out.

The **Fasteners per m** is how many fasteners will be inserted every square metre/foot.  
**Maximum length** is the maximum length that the flashing is supplied to by the manufacturer. (Only needed if your estimation method is by max length).  
**Costing Method** is how the flashings are costed, either per meter/foot, or per length.  
**Cost Per Unit** is how much the selected material cost per costing method.  
**Estimation Method** Is how you want to calculate how you want the flashing lengths to be measured. (Shown in the following dialog box).

Define flashing (rec = 23 of 72)

Type of flashing
Apron

Supplier
Sample supplier

Finish
Colour

Fastener code
ST12x50

Description
Apron Std

Product code
StdAp24--

Fasteners per m
3.00

Maximum length
2400.00

Costing method
per meter

Cost per unit
32.43

Estimation method
Split each run up to the maximum length

Select
Split each run up to the maximum length
Split each run into maximum length pieces
Split total run length into maximum length pieces
Split each run into stock length pieces
Split total run length into stock length pieces

Cancel
Stock-Lengths
Ok

As you can see in the above dialog box there are 5 different ways of estimating the flashings.

**Split each run up to the maximum length:** This means that each run is split up into any length up to and including the maximum length.

**Split each run into maximum length pieces:** This means that each run of flashing is cut up into maximum length pieces.

**Split total run length into maximum length pieces:** This means to take the total flashing length around the roof, and calculate the number of maximum length runs that it will need.

**Split each run into stock length pieces:** This will split each individual run only into the stock length pieces defined in the “Stock-Lengths” section (select button at bottom of dialog).

**Split total run length into stock length pieces:** This will add up all runs around the whole job (each different flashing type separately) and divide it into the stock length pieces.

Selecting **Stock Lengths** will bring up the following dialog box.

Length	Cost	Length	Cost	Length	Cost	Length	Cost	Length	Cost
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Cancel Ok

This is the dialog box that you use to set your stock lengths. To enter a stock length click on a length field and type in the appropriate length, and then double click on the corresponding Cost field and enter the cost of the length.

If you need to modify the selected flashing, make the modifications and then select **Update**. This will now update the materials details into the materials database.

### ***Adding a new flashing***

If you want to add a completely new flashing, type in the details in the appropriate fields and select **Add**. This will add the new flashing to the flashings database. With the new or modified flashing in the flashings database click **Ok** to exit.

You may select an existing flashing, modify its details and save as a new flashing using **Add**, instead of **Update**. In this way you can add an entire product line in just a few minutes work. You only have to do this once to input the products that you use, or to change details, e.g. if your supplier drops their price for you.