

FastCUT[®] optimiser for



ALUCOBOND[®]

JOB DETAILS

Job Number

- Type relevant job number in white box

Customer

- Type customer that job is for in white box

Project

- Type project name in white box

Prepared by

- Type your name in white box

Material Specification

Description

- Highlight and delete "Default" from white box and type Alucobond

Density

- Highlight and delete numbers in white box (7850).
- Density is not required for Alucobond.

To remove density field go to File > Preferences and select No under "Use density?"

Sheet thickness

- Type 4mm, or relevant sheet thickness in white box

Type

- Ensure "sheet" is selected and not "length"

Remarks

- Add any remarks (e.g.: cutting date required, off cuts needed etc.)

PARTS LIST

"Mark End List" button

- This is for use if only a number of the panels are to be optimised from the total entered. For example, there may be 100 different panels to enter but only 50 are required immediately. After these first 50 are entered click "Mark End of List", then enter the remainder of the panels. This will ensure only the first 50 are optimised.

"Consolidate Identical Sizes" located at bottom of page

- Select this if sizes can, or are to be grouped together. This will generally increase the speed of the optimiser and essentially the cutting time, as like panels can be cut at once.

Tolerances

- These can be altered manually by changing the digit in the white box. Default is 1mm.

Fillers

- These are only used if { } brackets are placed around the panel name. These are not required for Alucobond as all jobs are different. Fillers are only used when identical sizes are needed continuously from job to job.

Name

- Enter a Panel name, this could be "Column", "Panel A" etc.

Qty

- Enter quantity of panels required in that size

Width, Length

- Enter width and length of panel

Note if you wish to have length × width instead of width × length, go to File > Preferences > Lengths/Widths Columns. Click Length before Width, then click OK.

Grain

- Type "G" in column if material is directional, if non-directional leave blank.

/ea

- Enter amount only if you are charging a price per panel.

For example if a panel was required @ 250mm x 350mm, we may have set a price of \$30 per panel. This \$30 once entered into this column would be calculated during optimisation stage.

MACHINE PARAMETERS

Machine Description

- Enter description in white box. (I.e. Alucobond Wall Saw, Festool Plunge Cut Saw etc)

Machine Kerf Width Allowance

- Enter allowance for saw blade (Alucobond Wall Saw = 4mm)

Maximum Machine Capacity

- This will generally be 4000 given Alucobond standard maximum width. Smaller Table Saws etc may have limited capacity

Clamping

- Ensure "Never" is selected.
Clamping is only used if material needs to be held down whilst cutting, if required enter length of clamp needed.

STOCK

Off cuts

- Return to stock
If this is selected there is an option of returning by weight and/or size. Limits need to be entered in the Smaller/Larger white boxes. To "Preserve Grain" check box.
- Discard All
As Fastcut Optimiser for Alucobond minimises wastage, generally there will be no need for off-cuts to be returned to stock, as off-cuts will be too small.

Name

- Enter name of material (i.e. Silver Metallic).

Qty, Width, Length

- Enter available stock quantity, sheet length and width.

Edge Trim

- To trim factory edges allow 1mm (when using Silicone Butt Joint Technique).

End Trim

- To square ends only allow 5mm
- To remove factory ends and square ends allow 10mm
- For Anodised sheets, allow 21mm to square ends and remove Anodising rack marks

Remnant

- Refers to an off-cut that has been returned to stock. Generally this will not be required with Alucobond projects.

Omit

- Enables that particular sheet to be omitted from the optimisation process. For example, there may be a sheet size of 2500 × 1250 in stock but you do not wish to use that size.

/ea.

- Enables any extra costs you wish to associate with cutting this sheet to be added. For example if cutting was being charged @ \$20 per sheet, \$20 would be entered into box.

/sq.m

- Enables a cost per square metre to be charged. Generally this would be left blank as a square metre price is put in RATES.

/kg

- Enables cost per kilogram, generally will not be required for Alucobond.

RATES

1.0 Material ex stock

- This is a charge for material. Recommended that sq/m price be used, for example \$65.

2.0 Off cut pricing

- This is only relevant if "Return to Stock" was chosen under off cuts. Type price to be debited, sq/m price to be credited or kg cost to be credited.

3.0 Processing

- Enter in relevant field if charging per cut, per sq/m, per kg, lineal metre or cuts in total. If charging per sheet none of these will need to be entered as price has been filled out on STOCK tab.

TO OPTIMISE

Click **Optimise** on menu toolbar

Click "**Options**" button

On Material

- If job is to be optimised on "**Waste Factor**", check that box and enter desired minimum wastage factor.

On Job Cost

- If job is to be optimised on "**Job Cost**", check that box.

Optimising Process Options

- "Try exhaustive search" will take some time.
- "Stop automatically after", you can enter the number of trials to perform before stopping.
- "Pause automatically after" will enable you to set a time limit on the optimisation process.

Click **OK**

You are now ready to optimise

- Click **GO**
- To pause optimisation click "**Interrupt**"
- Click "**Resume**" when ready to continue.
- To **stop** click "**Terminate**".

A report will be produced, which will include job cost, wastage %, number of panels drawn from ex-stock, number and size of each panel, identical panels, parts optimised, parts not optimised, off cuts, etc.

Patterns

- To view cutting patterns click Patterns on menu toolbar and click on Pattern required.

Printing

- Click print icon and select information required.

Saving

- Remember to save under a relevant reference

Once saved this file can only be opened by opening Fastcut Optimiser for Alucobond only. File cannot be opened through My Documents etc.

PLEASE NOTE

For questions not covered
in this manual,
please refer to
HELP menu in program

FastCUT® optimiser for Alucobond®

- Ideal for bar, rod and plate. Estimating all sorts of sheet and linear products
- Used around the world
- Anywhere material is processed for manufacturing
- Full Excel Interface. Use your spreadsheet data directly with FastCUT® optimiser for Alucobond®
- FastCUT® optimiser for Alucobond® calculates mass and perimeter of parts.

You can even specify saw width for materials.



Distributed by:



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