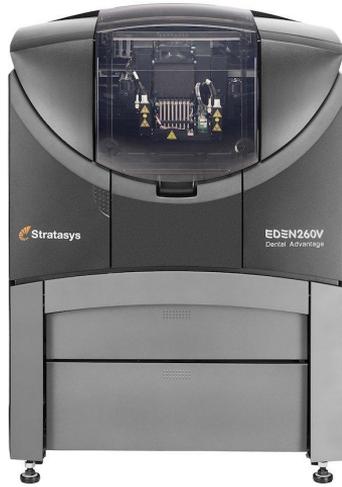


# Slicing Guide for Objet studio

# What is Objet Studio?

Objet studio is a 3D Slicer software for creating toolpath files for Stratasys Polyjet machines. **Polyjet Machines at Mhub:**



**Eden 260**



**Objet 30 Prime**

# Material Selection



**Eden 260**

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**Med 610** - Clear material with medical/ dental rating



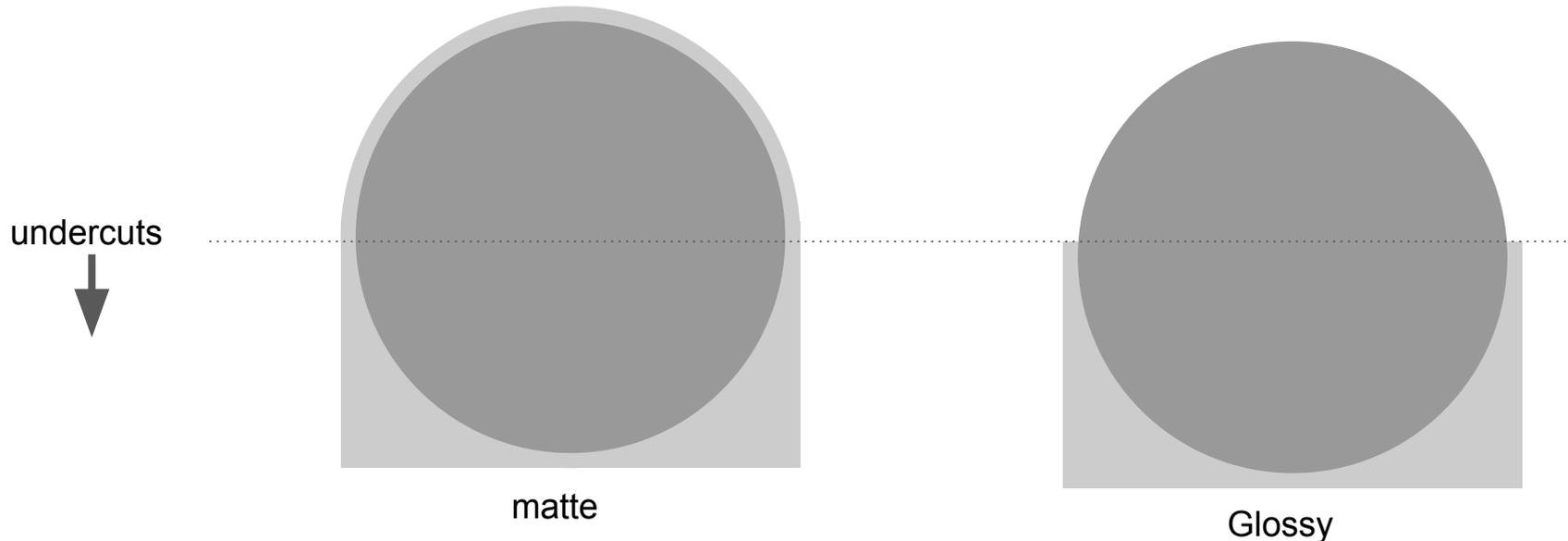
**Objet 30 Prime**

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**Vero Grey** - Rigid opaque grey

# Two print finishes: Matte & Glossy

All downward facing surfaces require support material. A matte surface is achieved by covering model material with support material and curing with UV light. Therefore if you were printing a sphere as shown below you can only achieve a gloss finish on the top half of the object. Choose between matte and glossy finish based on your project needs. Glossy mode will use less support material and therefore cost less, but matte mode allows you to achieve a uniform finish and get higher precision for small components



# Print Speed

High Speed - 28um

High Quality - 14um

There are two print speeds/resolutions to select from. Also, the height of your build will have a direct relationship to the total time to print your part.

Tray Settings Job Manager

Insert Placement Validate Estimate Build Plane New Open Save Undo Redo Single View Zoom Tray Isometric By Material

HQ HS Draft RGD450 FullCure705 Building Time: 20:32

RGD450:	373.0
FullCure705:	582.0
Building Time:	20:32
Estimated Consumptions	

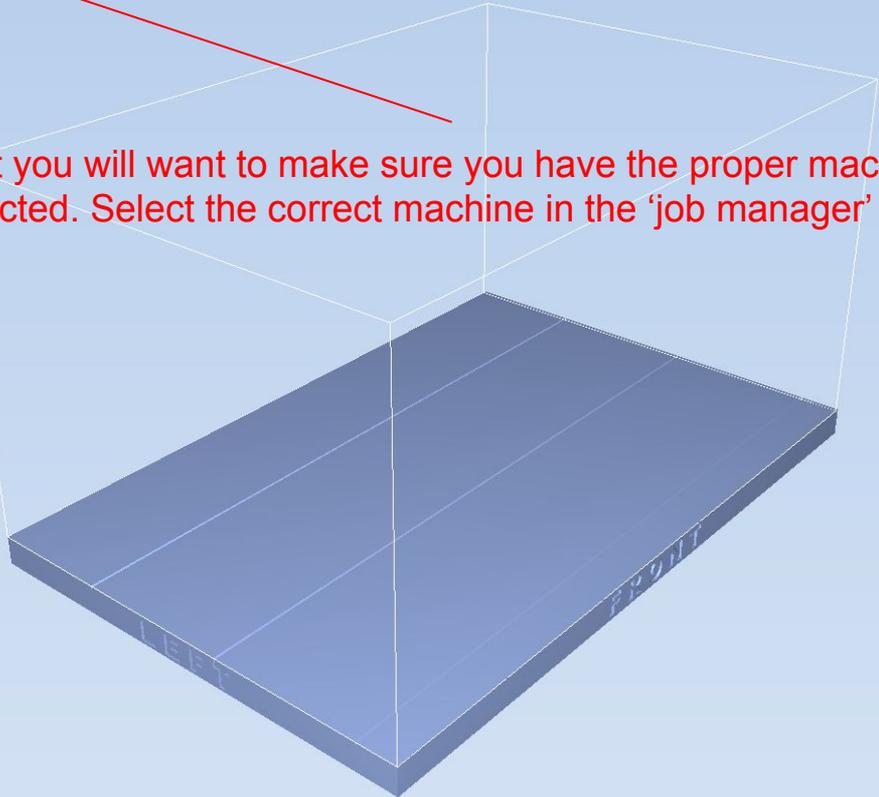
Model Build Process Selection File Edit View Colors Tray Material

Edit View Object Tools Style

Model Tree

- Tray1

First you will want to make sure you have the proper machine selected. Select the correct machine in the 'job manager' tab



Tray Settings Job Manager Job Tools Style

Connect Notifications 3D Printer Queue Job

Top Up Down Bottom Restart Stop Resume Delete View Edit

### Jobs Queue

Job Name	Status	Owner	Build Time	Model Consumption	Support Consumption	Printing Mode	Material Type
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Click the 'connect' button to select from a list of hardware

### Time

### History

Job Name	Status	Owner	Build Time	Model Consumption	Support Consumption	Printing Mode	Material Type
Tradeshow_samples	Error	dlevy	05:06	107 g	77 g	HS	Support_VeroGrey
labday show test	Stopped	dlevy	06:03	101 g	48 g	HS	FullCure705, VeroWhite

### Available Resources

FullCure705 0 grams

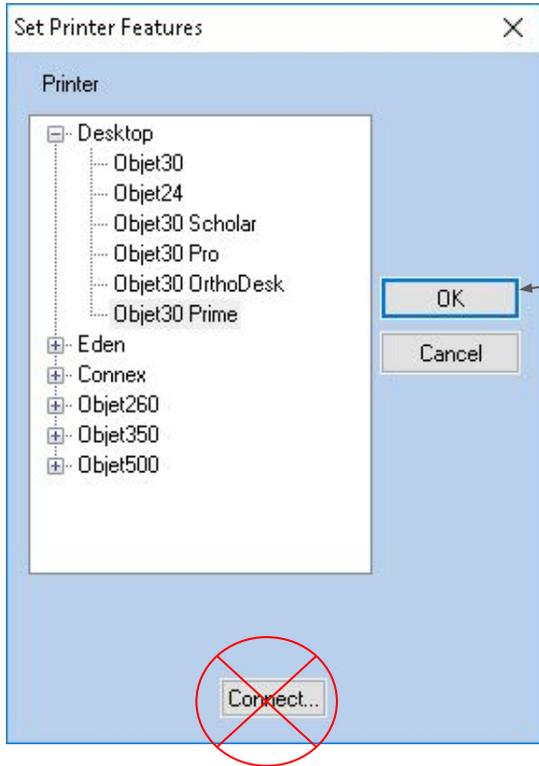
VeroWhite 0 grams

### Material Consumption

### Tray Preview

Waste 1800 grams

Ready X=203.89 Y=468.70 Z=0.00 Models: 0 NUM SCRL



Find your machine and click 'OK'

It will prompt you to restart the application

Do not click connect

Tray Settings Job Manager

Insert Placement Validate Estimate Build Plane New Open Save Undo Redo Single View Zoom Tray Isometric By Material HQ HS Draft RGD450: 373.0 FullCure705: 582.0 Building Time: 20:32 Estimated Consumptions

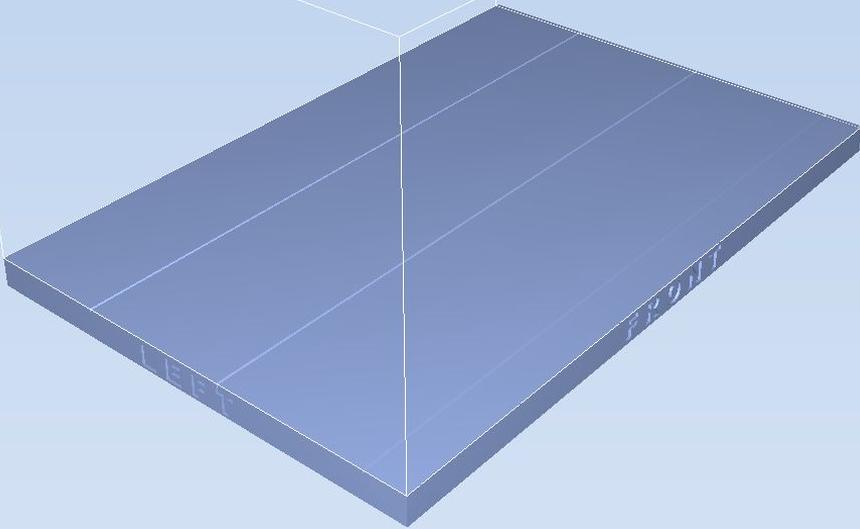
RGD450:	373.0
FullCure705:	582.0
Building Time:	20:32
Estimated Consumptions	



Insert your part

Accepted files: .STL

**YOUR FILES MUST BE A SOLID MANIFOLD (WATER TIGHT) MODEL**



Tray Settings Job Manager

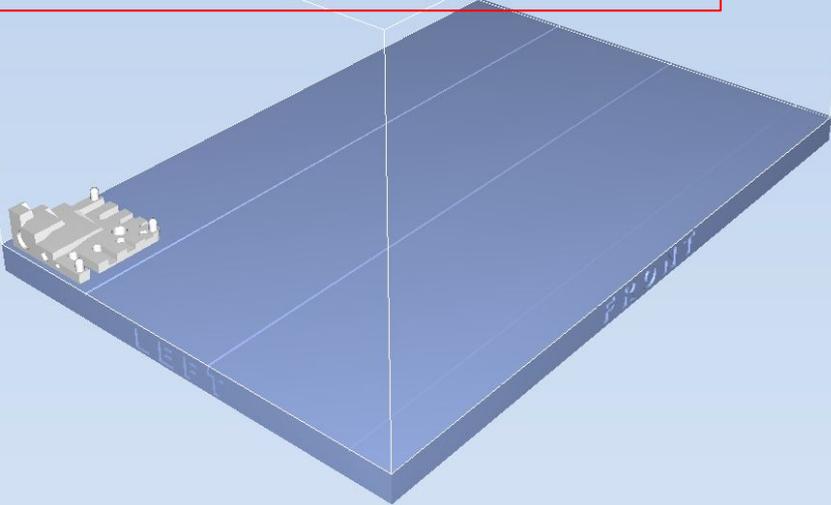
Insert Placement Validate Estimate Build Plane New Open Save Undo Redo Single View Zoom Tray Isometric By Material

HQ	HS	Draft	RGD450:	373.0
RGD450			FullCure705	582.0
			Building Time:	20:32
			Estimated Consumptions	

Model Tree

- Tray1

Automatic placement calculates the best suggested orientation for printing (optimized for minimizing print time and support material)



Tray Settings Job Manager

Edit View Object Tools Style

Insert Placement Validate Estimate Build Plane New Open Save Undo Redo Single View Zoom Tray Isometric By Material

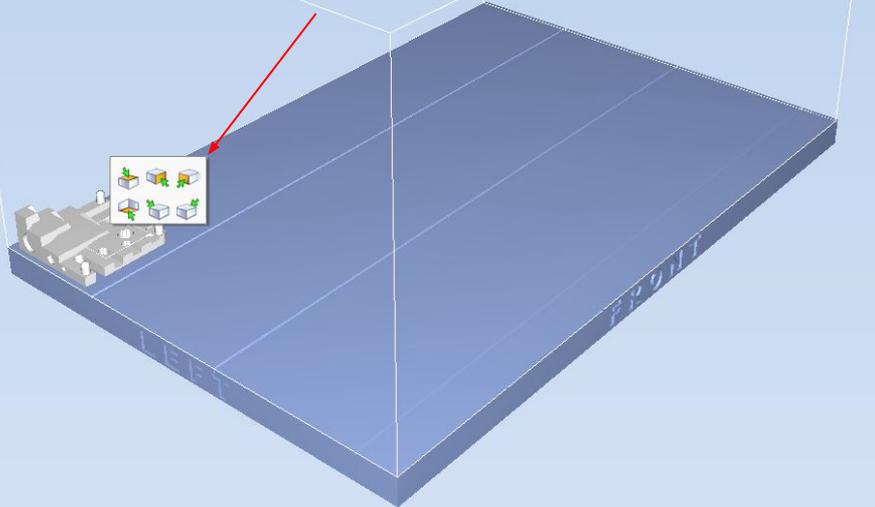
HQ HS Draft RGD450: 373.0 FullCure705 582.0 Building Time: 20:32

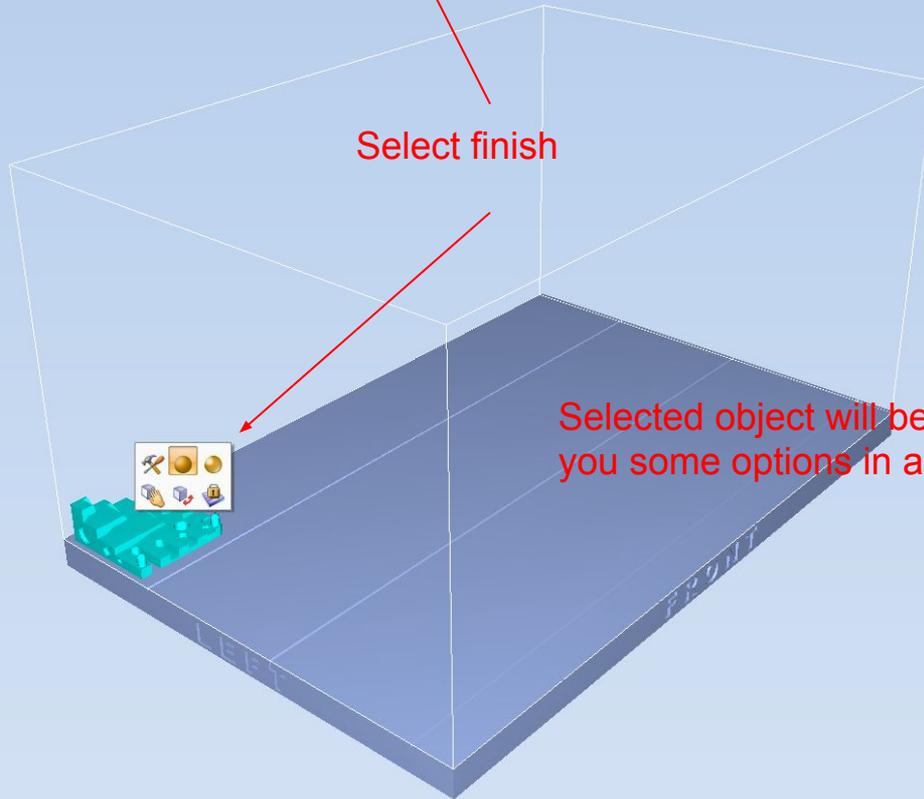
Model Build Process Selection File Edit View Tray Material Estimated Consumptions

Model Tree

- Tray1

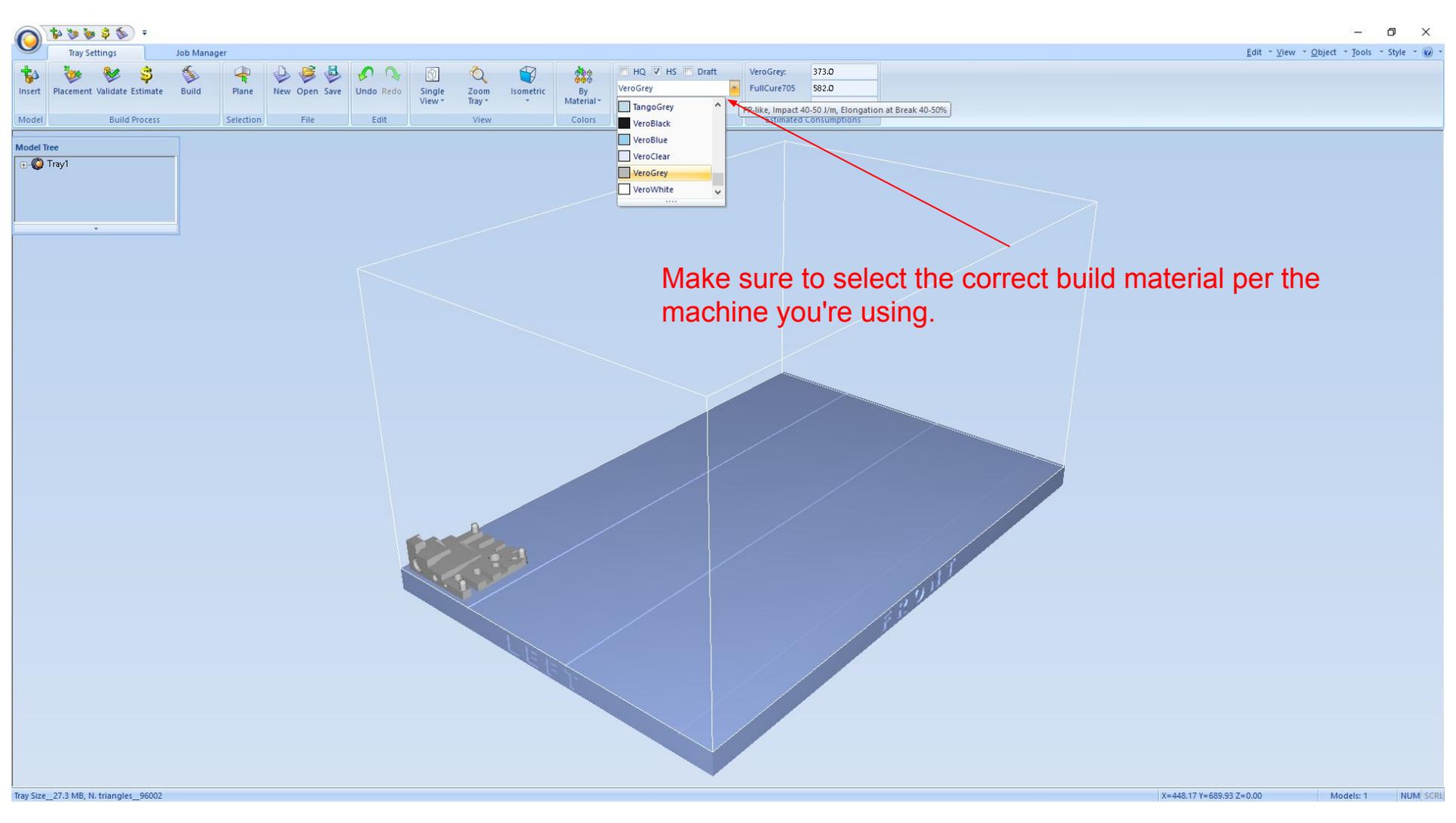
The PLANE tool lets you select a face and designate its orientation of alignment to the build tray





Select finish

Selected object will be highlighted and give you some options in a fly out menu.



Make sure to select the correct build material per the machine you're using.

Material selection dropdown menu:

- Verogrey (selected)
- TangoGrey
- Veroblack
- Veroblue
- Veroclear
- Verogrey
- Verowhite

Material properties table:

Verogrey:	373.0
FullCure705:	582.0

Additional text: *like, Impact 40-50 J/m, Elongation at Break 40-50%*

Tray Settings Job Manager

Insert Placement Validate Estimate Build Plane New Open Save Undo Redo Single View Zoom Tray Isometric By Material

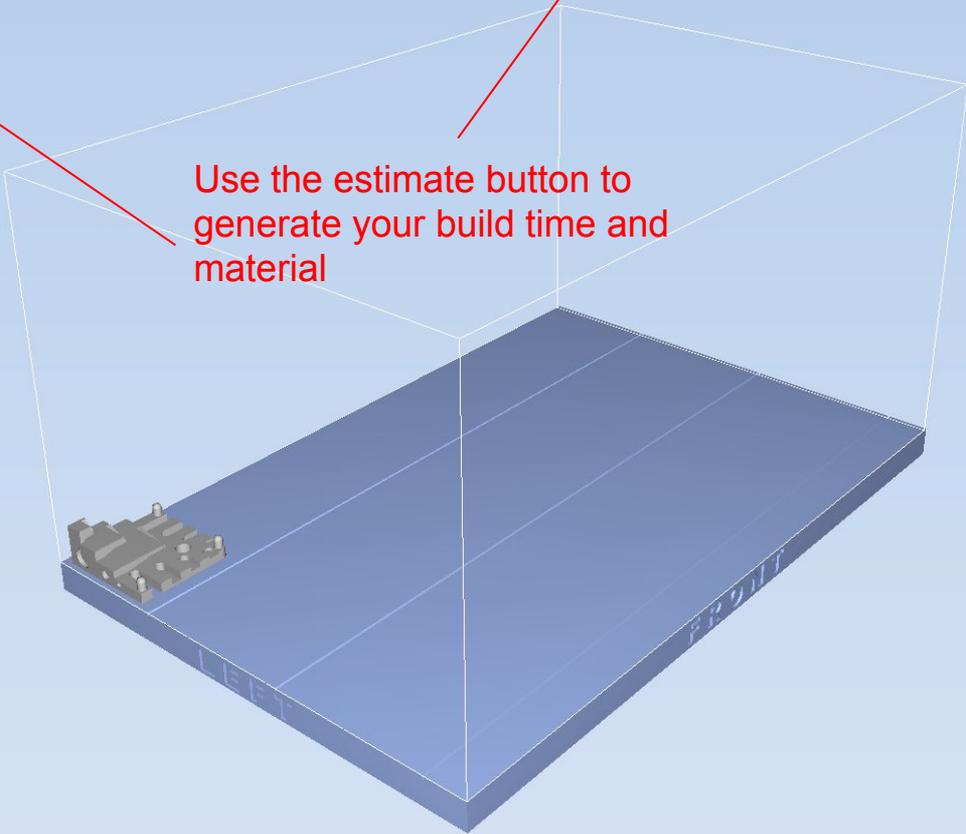
HQ HS Draft VeroGrey: 373.0 FullCure705 582.0 Building Time: 20:32 Estimate Consumptions

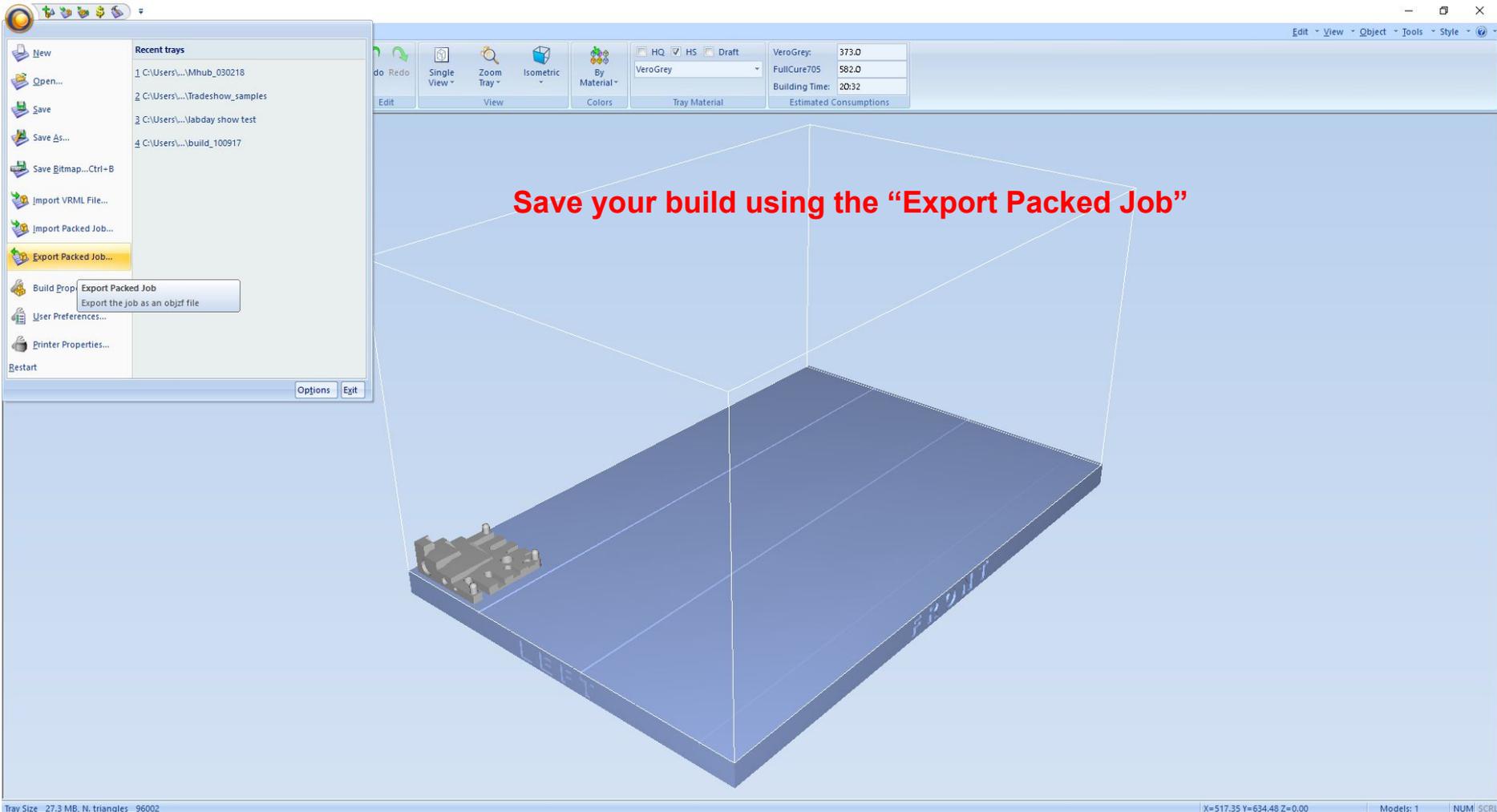
Model Build Process Selection File Edit View Tray Material

Model Tree

Tray1

Estimate  
Estimate materials and time





**Save your build using the “Export Packed Job”**