

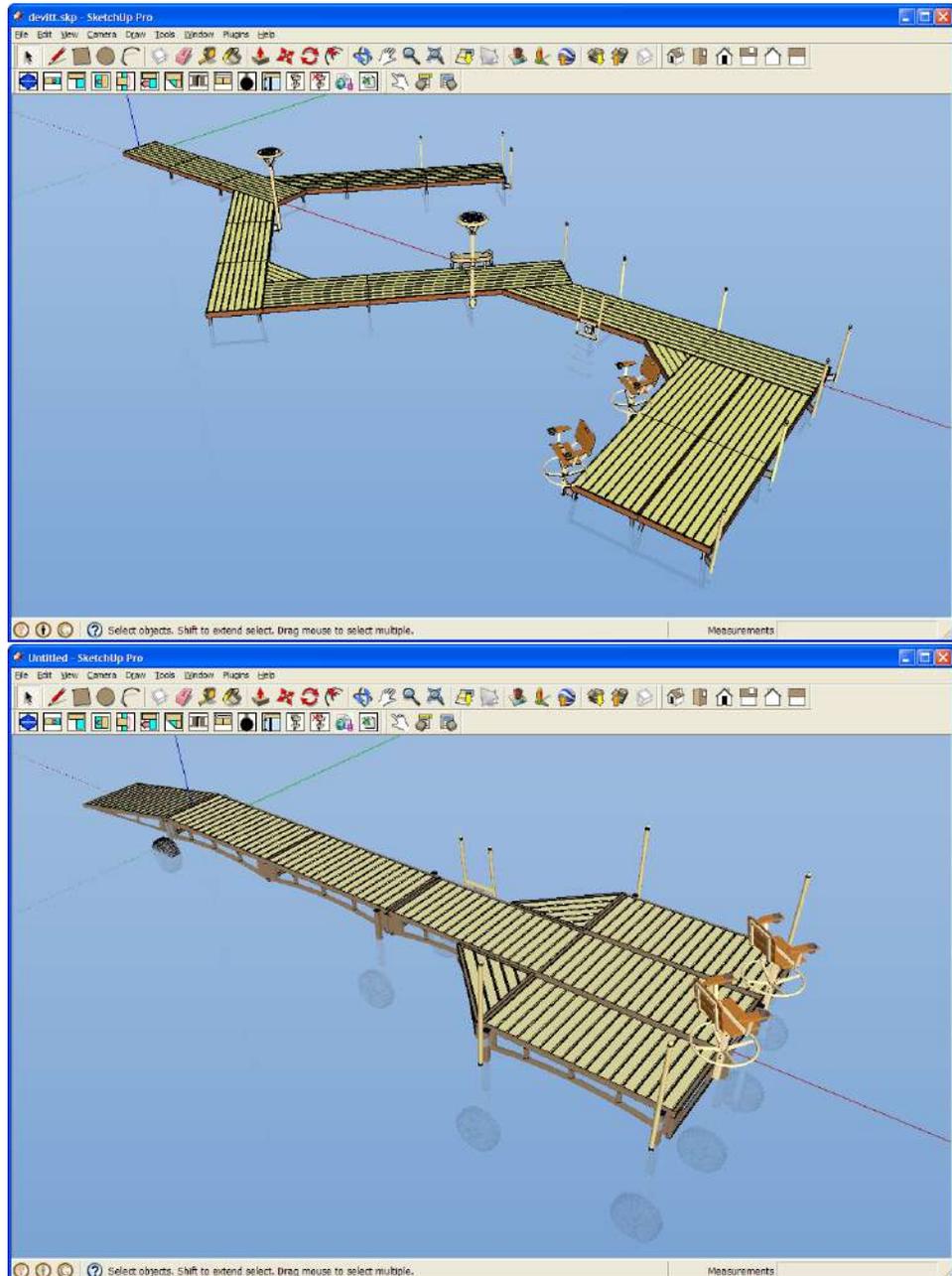
Lakefront Layout for SketchUp

Introduction

Google SketchUp is a tool for creating, editing and sharing 3D models. The Lakefront Layout Toolbar for Sketchup is a plug-in that quickly designs dock layouts, generates bill of materials, and accurately quotes your ShoreStation dock layouts.

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Requirements

Operating System	Windows XP/Vista/7 or Mac OS X (10.4+)
Recommended Hardware	2+ GHz processor. 2+ GB RAM. 500 MB of available hard-disk space. 3D class Video Card with 512+ MB of memory or higher. Please ensure that the video card driver supports OpenGL version 1.5 or higher and up to date.
	An internet connection is required to download the software and plug-in. It is also required to using the instructional videos. It is not required to operate the software and plug-in.

Installation Instructions

Step 1 – Download and install Google SketchUp 2015

Download SketchUp 2015 from <http://www.sketchup.com/download>. SketchUp is free for personal use. The Lakefront Layout software will work with both the free (SketchUp Make) and Professional versions of SketchUp.

Step 2 – Download the Lakefront Layout for SketchUp extension

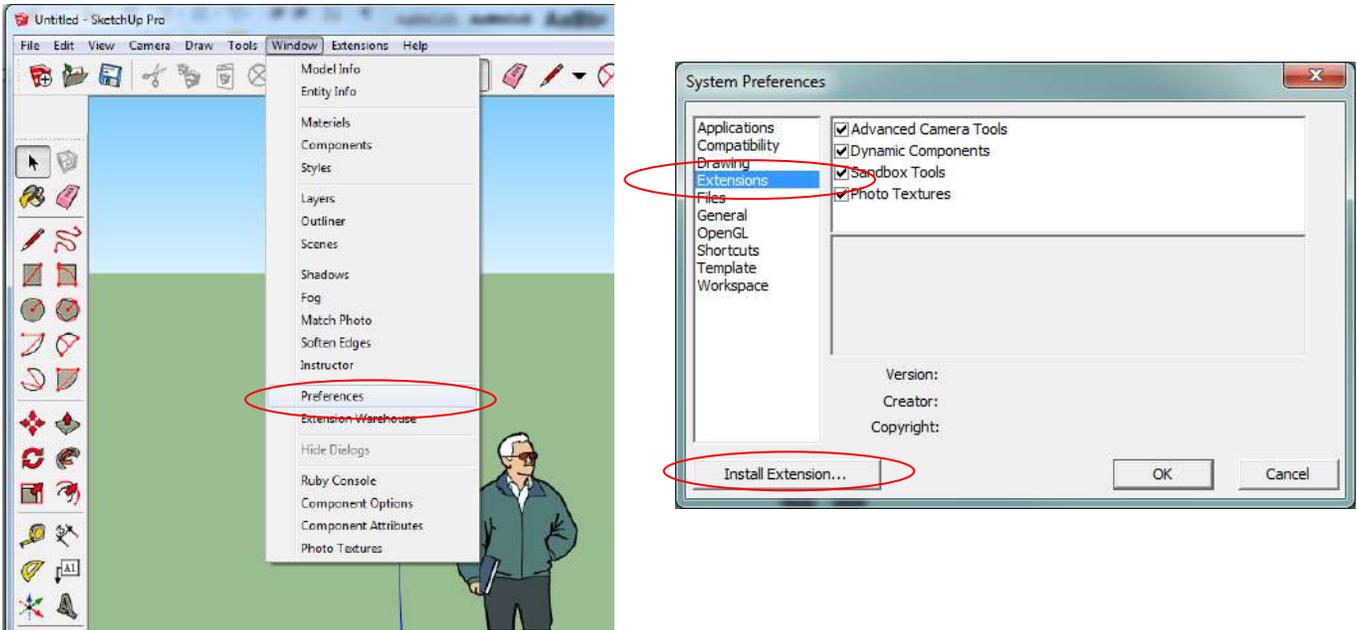
Download the installer [here](#). Be sure to select a download location you can find later (like 'My Documents').

Step 3 – Start SketchUp 2015

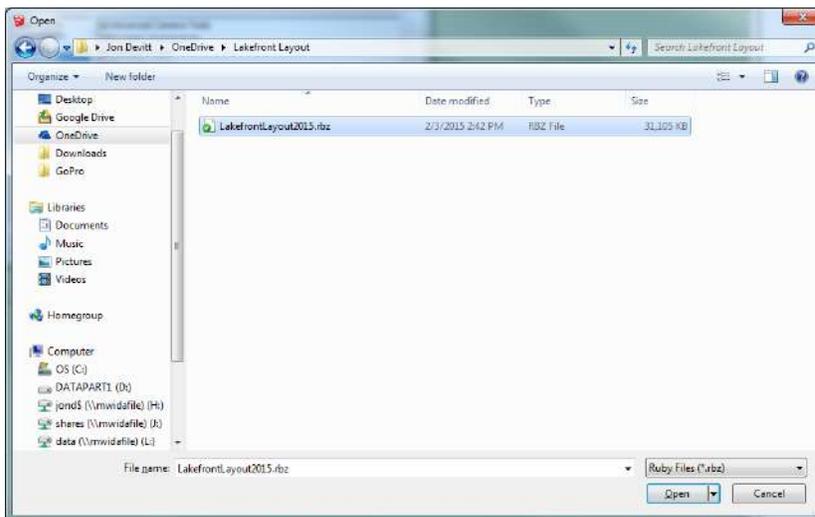
Start Google SketchUp. If this is the first time you have run Sketchup, a window will open with information. Click on the **Choose Template** button and select the “**Product Design and Woodworking - Inches**” template. Other templates can be used, but this template is suggested for best results.

Step 4 – Install the Lakefront Layout extension

With SketchUp open, select the 'Preferences' option from the 'Windows' menu. Click on the 'Extensions' option and then click on the 'Install Extension' button.

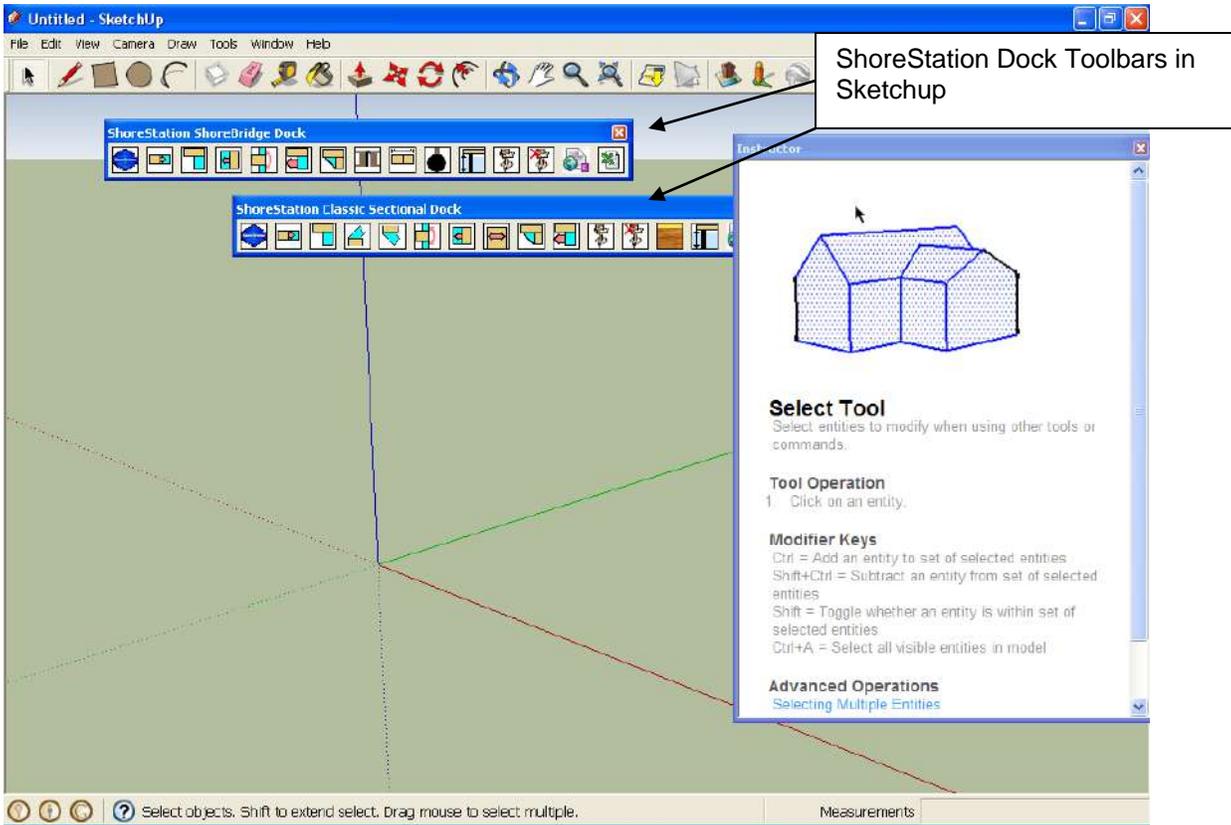


Browse for the LakefrontLayout2015.rbz file that was downloaded in the previous steps and click on 'Open'. Select 'Yes' from the warning that is presented.

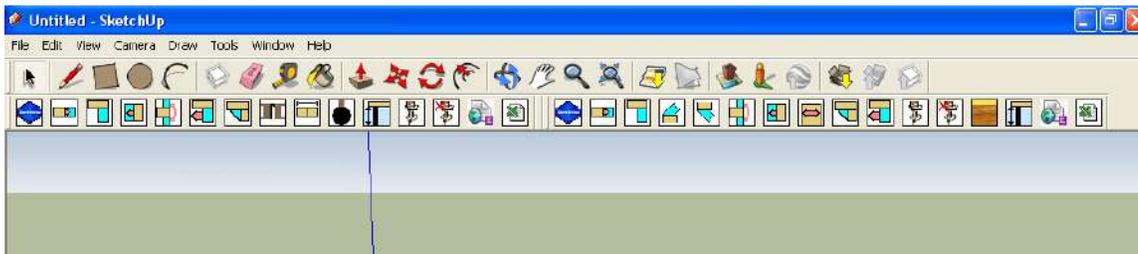


Step 5 – Look for the toolbar!

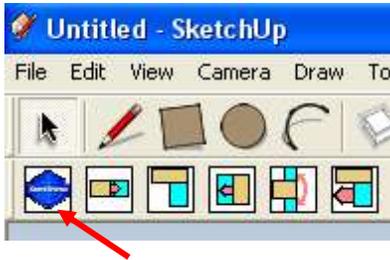
SketchUp should now be open with the Lakefront Layout plug-in installed as shown. Both the Traditional sectional dock toolbar and the ShoreBridge toolbar will show the first time.



Move the toolbar toward the top to anchor them to the Sketchup window as shown. You can also close the 'Instructor' window by clicking on the red X on the upper right corner. The upper part of the Sketchup window should now look similar to the one below.



Click on the ShoreStation icon on either toolbar to set the program to configure either Classic Sectional or ShoreBridge dock layouts. Click OK on the Validity Check, and then select either Classic Sectional or ShoreBridge from the next dialog. You can change between dock systems using this icon again.



Classic Sectional Toolbar Quick-Reference

Icon	Function	Description
	About the toolbar	This displays the toolbar version information. Clicking this will also allow you switch between ShoreBridge and Classic Sectional Dock systems
	Start the dock layout	Add dock sections to an empty layout.
	Change length of selected dock run	Click to modify the number of sections in the currently selected dock run
	Add a dock run to the side	Click to add sections to the side of the currently selected dock run.
	Add a 45 degree dock run to the right	Click to add sections to the right side (as you are looking down the dock).
	Add a 45 degree dock run to the left	Click to add sections to the left side (as you are looking down the dock).
	Flip the side the L sections are on	Click to flip the selected dock sections to the other side of the dock run. This only works on sections placed with the  icon.
	Change the number of sections wide	Click to edit the number of sections wide in the currently selected dock run
	Change the section width	Click to change the width (2', 4', 6', 8') of the currently selected dock run
	Toggle the miter	Click to toggle the miter corner from one side, both sides, or no miter
	Change location	Click to modify the connection location of the currently selected dock run.
	Place accessory	Click to add an accessory to the dock layout. When clicked, the accessory locations will be shown as balloons and you will be asked for the type of accessory to place.
	Delete accessory	Click to delete accessories from the dock layout. The place-holder balloon will be replaced.
	Change section style	Click to change the style of the dock (EON, Cedar Sided Aluminum, All Cedar)
	Enter Water Depths	Click to edit the water depths for each 8' increment from shore.
	Create Quote	Click to load pricing and save a dock quote. The dock quote will be saved in html format.
	Create Excel Quote	Click to load an Excel pricing template and create a quote.

ShoreBridge Toolbar Quick-Reference

Icon	Function	Description
	About the toolbar	This displays the toolbar version information. Clicking this will also allow you switch between ShoreBridge and Classic Sectional Dock systems.
	Start the dock layout Add a straight dock run	Add dock sections to an empty layout. Clicking this icon with a dock run highlighted will allow you to connect another style of dock run to the end of the highlighted run. Example: Connecting 8' sections to the end of a 16' section run.
	Add a dock run to the side	Click to add sections at right angles to the side of the currently selected dock run.
	Change the number of sections wide	Click to add sections parallel to the side of the currently selected dock run.
	Flip the side the L sections are on	Click to flip the selected dock sections to the other side of the dock run. This only works on sections placed with the  ,  , or  icons.
	Change location	Click to modify the connection location of the currently selected dock run.
	Toggle the miter	Click to toggle the miter corner from one side, both sides, and no miter.
	Change connection type	Clicking this icon with nothing selected will change the default connection type for any additional sections. Clicking.
	Edit length of dock run	This command will change the number of sections in the current dock run. Use this to edit both straight, right angle Ls and parallel Ls.
	Place a leg system	Click this icon to select a leg system and place in using the mouse. This is similar to placing accessories. Use the  icon to delete leg systems.
	Enter Water Depths	Click to edit the water depths for each 8' increment from shore.
	Place accessory	Click to add an accessory to the dock layout. When clicked, the accessory locations will be shown as balloons and you will be asked for the type of accessory to place.
	Delete accessory	Click to delete accessories and leg systems from the dock layout. The place-holder balloon will be replaced.
	Create Quote	Click to load pricing and save a dock quote. The dock quote will be saved in html format.
	Create Excel Quote	Click to load an Excel pricing template and create a quote.

HTML Pricing Data

To enable quoting, a pricing file must be created. The pricing file must be a comma delimited text file (.csv). Comma delimited files are easily created using Microsoft Excel, OpenOffice Calc, or just with a generic text editor. You can use as many different pricing files as you need. You are asked to select the pricing file during quote creation.

Pricing File Format

The comma delimited information must be in the following order:

Part number, Description, Price

Where:

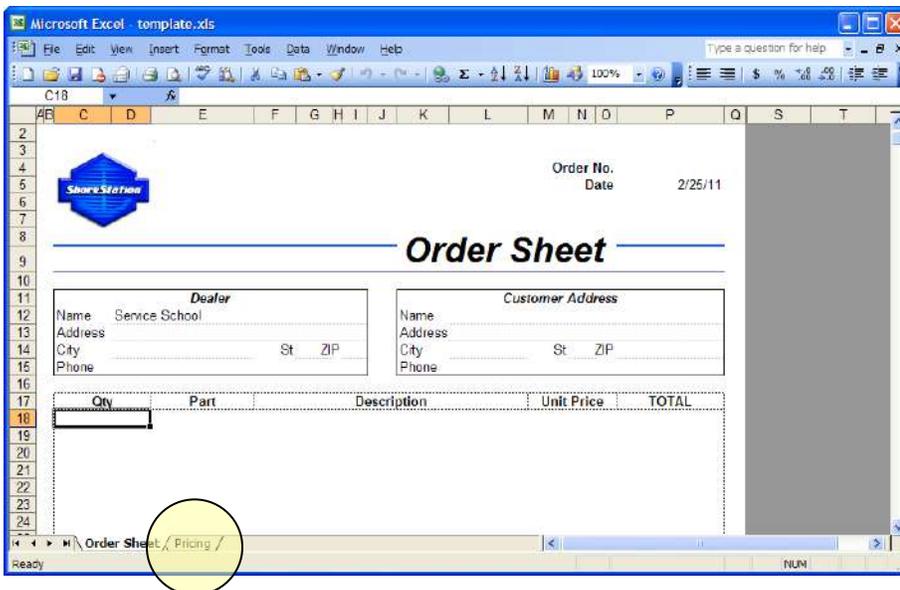
Part Number is exactly the part number (ADE4, LF364, etc)

Description is the description text you want to show in the quote

Price is the number of the price (numbers only)

Excel Templates

Quotes can be generated in Microsoft Excel using the supplied template in the 'ssdock folder in the Google Sketchup 'plugins' directory (typically this is C:\Program Files\Google\Google SketchUp 8\Plugins\ssdock). The template.xls file found in this folder can be copied to any folder of your choosing. The Excel file consists of two sheets. The first sheet is the actual quote form. It is OK to modify the heading of the form, but it is important that you do not delete rows or columns on this form. The second sheet is pricing data used by the quote form. You can modify the prices and descriptions to meet your needs. Also, if a price or part number is not referenced correctly, you may add parts to the list with pricing. If you add part numbers to the list, be sure to sort the list using the Excel sort command to ensure the quote form finds the correct data.



Some dealers will want different pricing for different scenarios. To do this, simply make copies of the template file and modify the pricing. You can choose the template file when you generate the quote.

Users of the previous Lake Front Layout program are able to use the template.xls files used with it.

Online Instruction

Check out the ShoreStation YouTube channel at <http://www.youtube.com/user/midwestindustries>. This channel includes video instruction for Lakefront Layout and videos feature the ShoreStation Boat Lifts and Dock Systems.

