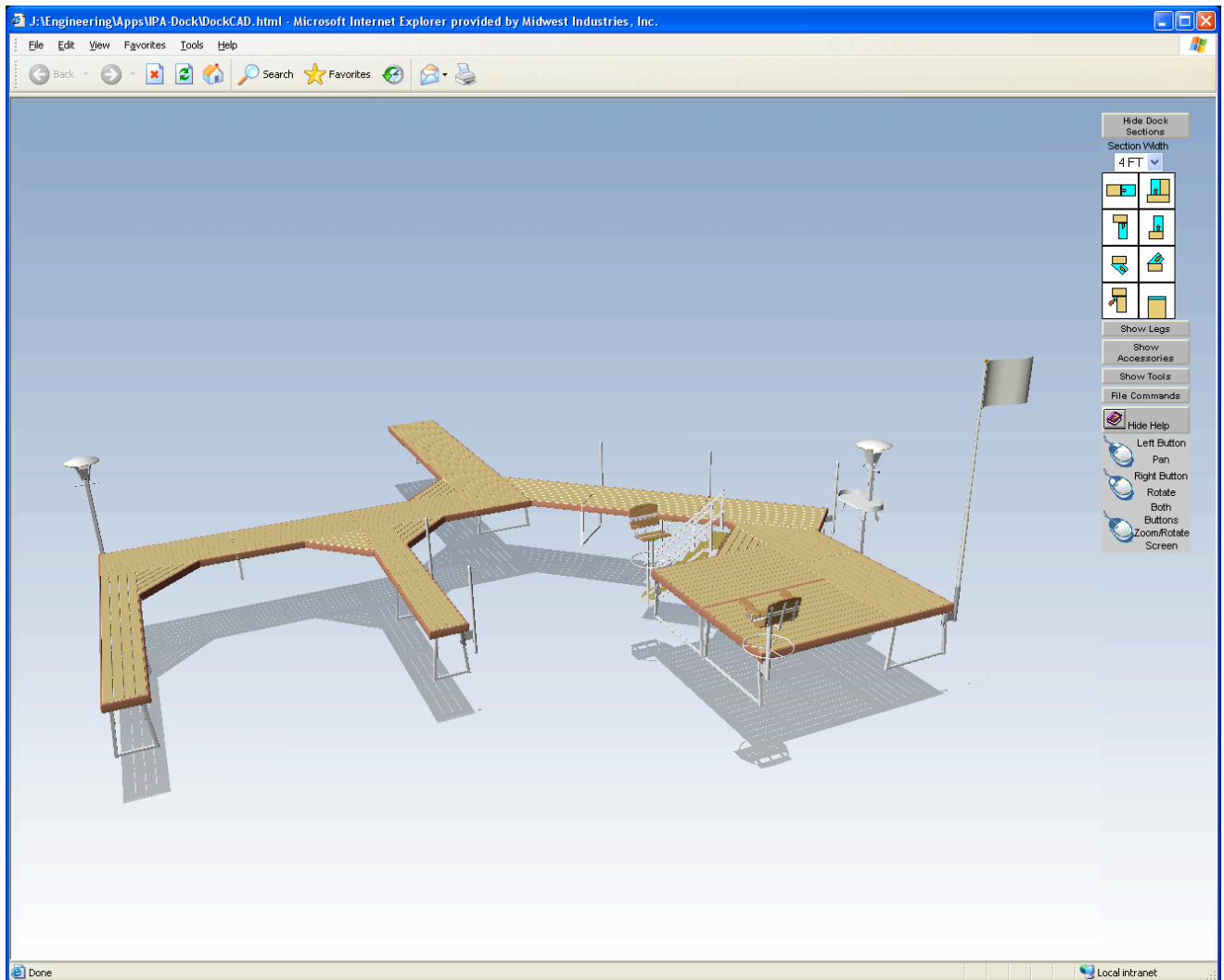


ShoreStation Lakefront Layout Instructions

Introduction

ShoreStation Lakefront Layout is the easiest way to visualize and configure a ShoreStation Dock layout. This handy tool allows installers, dealers, and potential owners to explore the variety of layout options using ShoreStation components. Lakefront Layout can be used over the internet or, the program can be downloaded and customized for frequent users.

One of the main features of Lakefront Layout is that the program will generate a basic material list from your layout design. This material list is for quoting purposes only and should be verified by a ShoreStation dealer before any purchase is made.



Installing Lakefront Layout

System Requirements

- Immersive Design's WebView viewer.
The latest version of the plug-in can be downloaded from:
<http://www.immdesign.com/webview/>
NOTE: The user must have administrative privileges to install the plugin.
- Internet Explorer 5.5 or higher
- Most compatibility issues with WebView are caused by old graphics cards or drivers. If you have issues with WebView, try reducing the display settings to 256 colors (Start-->Settings-->Control Panel-->Display-->Settings-->Colors). If this fixes the error, it suggests that the graphics card is insufficient.

Optional:

- Microsoft Excel is required for material list creation. The product was tested with Microsoft Excel version 2003.

Using Lakefront Layout on the Internet

Lakefront Layout can be used directly from www.ShoreStation.com. This only requires a broadband connection (cable, DSL, etc.) and it will ensure you are working with the most up-to-date version. Dealers/Installers wishing to customize the order template file will want to use the downloadable version.

Downloading for offline or customized used

The downloadable version of Lakefront Layout is available at www.shorestation.com in the Forum section. A password for the Forum is required. The download is a ZIP archive containing the folder IPA-Dock. Extract this folder to whatever location you prefer. Opening the 'DockCAD.html' file within the extracted IPA-Dock folder will start the program.

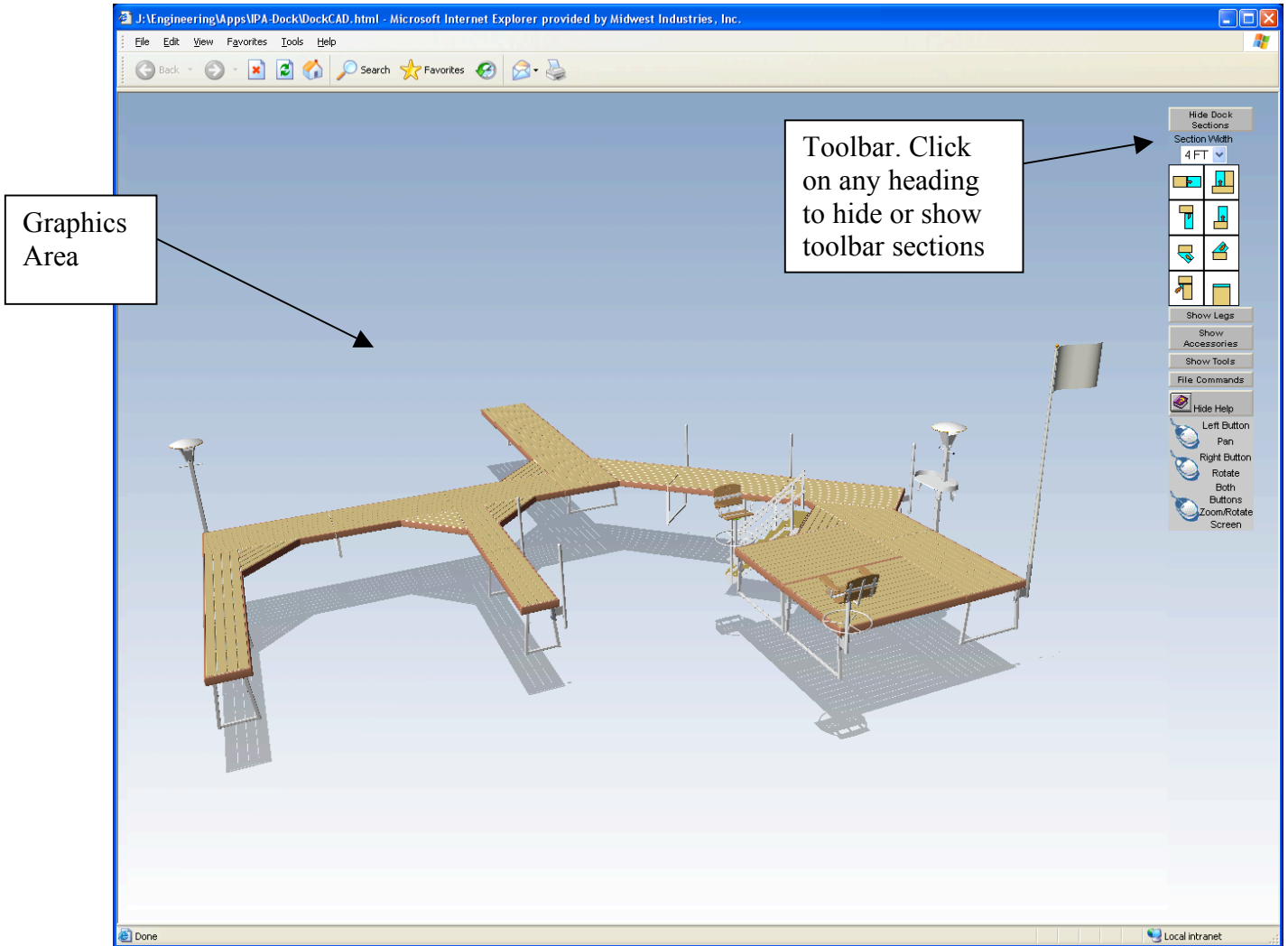
Customizing

The downloadable version will allow you to edit and customize the 'Template.xls' form. This makes it easy for you to include customized pricing, business names, logos, etc. To do this, open the file directly from the IPA-Dock folder and edit this document. Keep in mind that the first row for the Excel bill of material list must be row 18 for the export to function correctly. Be sure to test and check pricing calculations for accuracy. If a part number is entered incorrectly, it may result in an incorrect price.

NOTE:

If you are customizing the document, be sure to save a back-up copy of the template.xls file in another directory on your computer. The original may be overwritten by updates to the software.

Screen Layout



Creating a dock layout

Step 1

The dock is built from the shoreline out. The first step is to select the width of the first dock section.

Step 2

Click on the add a section icon



to add the first dock section.

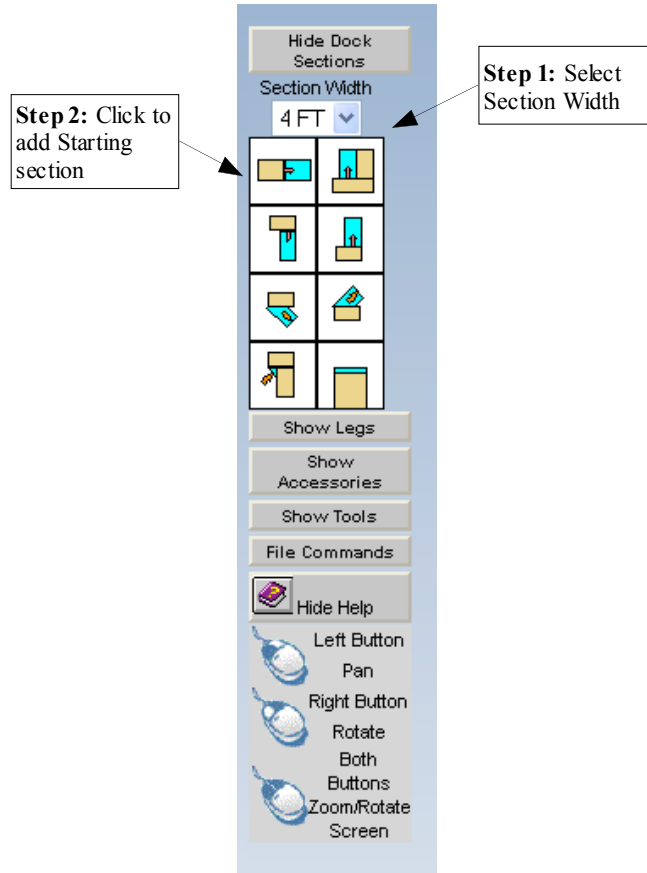
A dock section of specified width will be added to the graphics section

Step 3

Continue to use the other section layout icons to design your layout. Refer to Table 1 (below) for detailed information about the different icons.

Table 1

Icon	Description
	Adds the first dock section. The section width will be based on the 'Section Width' Menu.
	Add a dock section to the end of the selected dock section. The section added will be the same width as the selected section.
	Add a section beside of the selected section. The section width will be based on the 'Section Width' Menu. Side-by-side sections can only be added to the first section of a straight or L.
	Add an L-section to the <i>left</i> of the selected section. The section width will be based on the 'Section Width' Menu.
	Add an L-section to the <i>right</i> of the selected section. The section width will be based on the 'Section Width' Menu.
	Add a 45 degree section to the <i>left</i> of the selected section. 45 degree sections are only available in 4 FT widths.
	Add a 45 degree section to the <i>right</i> of the selected section. 45 degree sections are only available in 4 FT widths.
	Add a mitered corner section to the selected L-section.
	Place an end-trim board on the selected section.



Adding leg frames to the dock layout

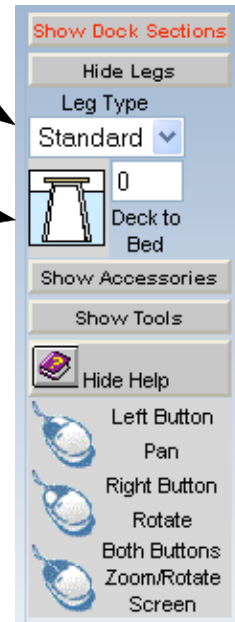
Step 1

Select the dock leg type (Stationary or Rolling) from the drop down menu.

Use “Standard” for Stationary Dock or “Roll-In” for Rolling Dock.

Step 1: Select Leg frame type

Step 3: Click the frame icon to insert leg frame



Step 2: Enter the deck to bed measurement in inches


Step 2

Enter the deck to bed measurement. The deck to bed measurement is the depth of the water plus the height of the deck above the water in inches.

Example: If you have 22 inches of water and you want the dock to be 18 inches above the water, the deck to bed measurement would be 40 inches.

Step 3



Click on leg frame icon  to insert the leg frame on the select dock section. Leg frames are added to any selected dock section.

Note: The leg frames are shown without braces, wheels or extensions to simplify the computer graphics requirements, but the appropriate brace and extension will be included in the material list export.

Note: Add end boards to the layout prior to adding leg frames to ensure the appropriate end-style leg frame is selected for the material list.

Adding Accessories

Step 1

Select the dock section where you would like the accessory located.

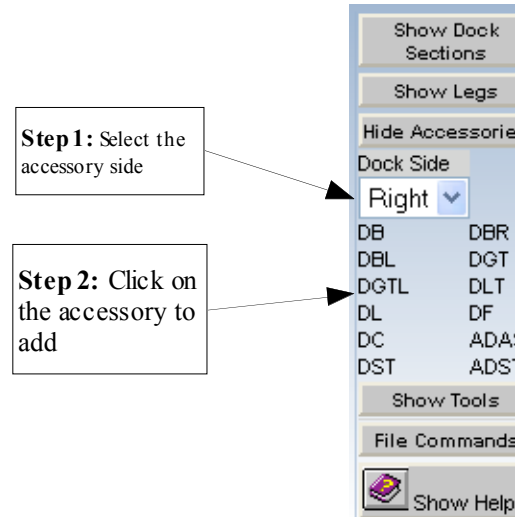
Step 2

Most accessories first require the selection of a specific ‘dock side.’ This identifies the side of the dock you want the accessory mounted to when looking down the section toward the leg frame end.

Note: Not all accessories require a dock side to be identified.













Step 3

Click on the name of the accessory you would like to add.



Accessory	Description
DB	Standard dock bumper
DBR	Right-hand corner dock bumper
DRL	Left-hand corner dock bumper
DGT	Dock Gear Tower
DGTL	Dock Gear Tower Light
DL	Mast style ladder
DC	Dock swivel chair
DF	Dock Flag Pole
ADAS	Aluminum Dock Aqua Steps
DST	Dock Bench (Leg Mounted)
ADST	Dock Bench (Deck Mounted)

The Tools Menu

Icon	Description
	Top View
	Angled View (ISO)
	Dock View – looking down the first section of the dock layout towards the lake.
	Zoom out to fit entire layout
	Zoom Window. Click and drag a box around the area you want to zoom into.
	Zoom Object. Select an object and click this icon.
	Toggle shadows. Click to turn on or off the shadow view. The shadows enhance the view, but require more computing power.
	Print current view. This will open the print Preview window. You might want to change the print options to Landscape to fit the layout on one page.
	Export Bill of Materials to excel template.
	Delete the selected Item
	Toggle from 'line view' to 'shaded view'
	Lock/Unlock objects for movement.



Spinning and Manipulating the Image



Panning

Click and hold the left mouse button to pan or slide the layout.

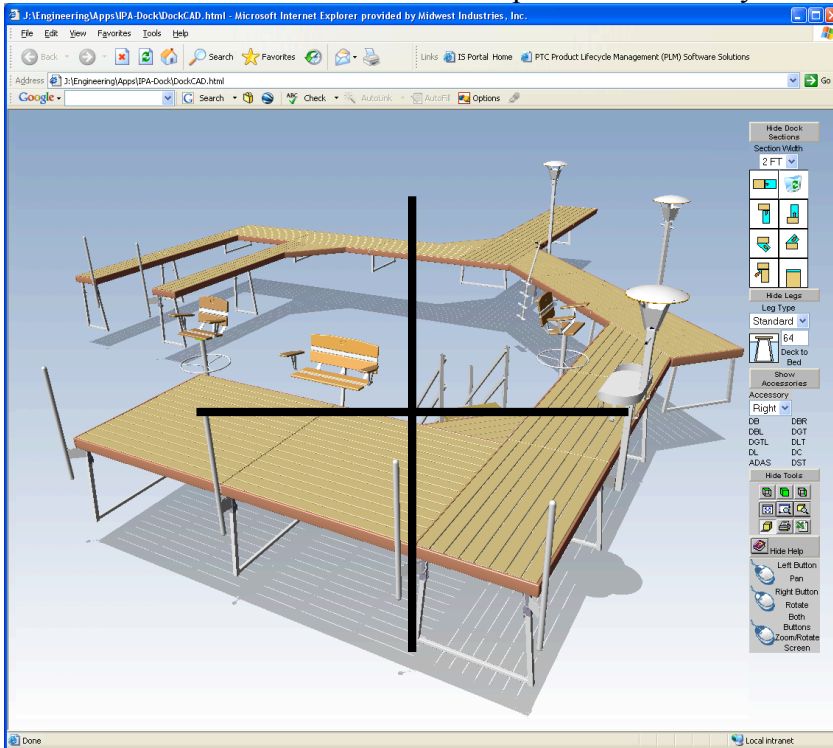



Figure 1



Spinning

Spinning the model can be difficult to master. It is best to visualize a set of ‘crosshairs’ on your computer screen (Figure 1). Moving the mouse vertically will roll the layout about the horizontal crosshair. Moving the mouse horizontally will roll the layout about the vertical crosshair. Take your time and practice with small models with intentional movement. If you get lost or disoriented, simply use one of the orientation icons  to return to one of the starting orientations.





Zooming

Click and hold both mouse buttons to zoom or tilt the layout. Moving the mouse vertically will zoom in or out. Moving the mouse horizontally will roll the layout side to side. If you have a mouse with a ‘wheel’, you can also zoom in and out by rolling the wheel.

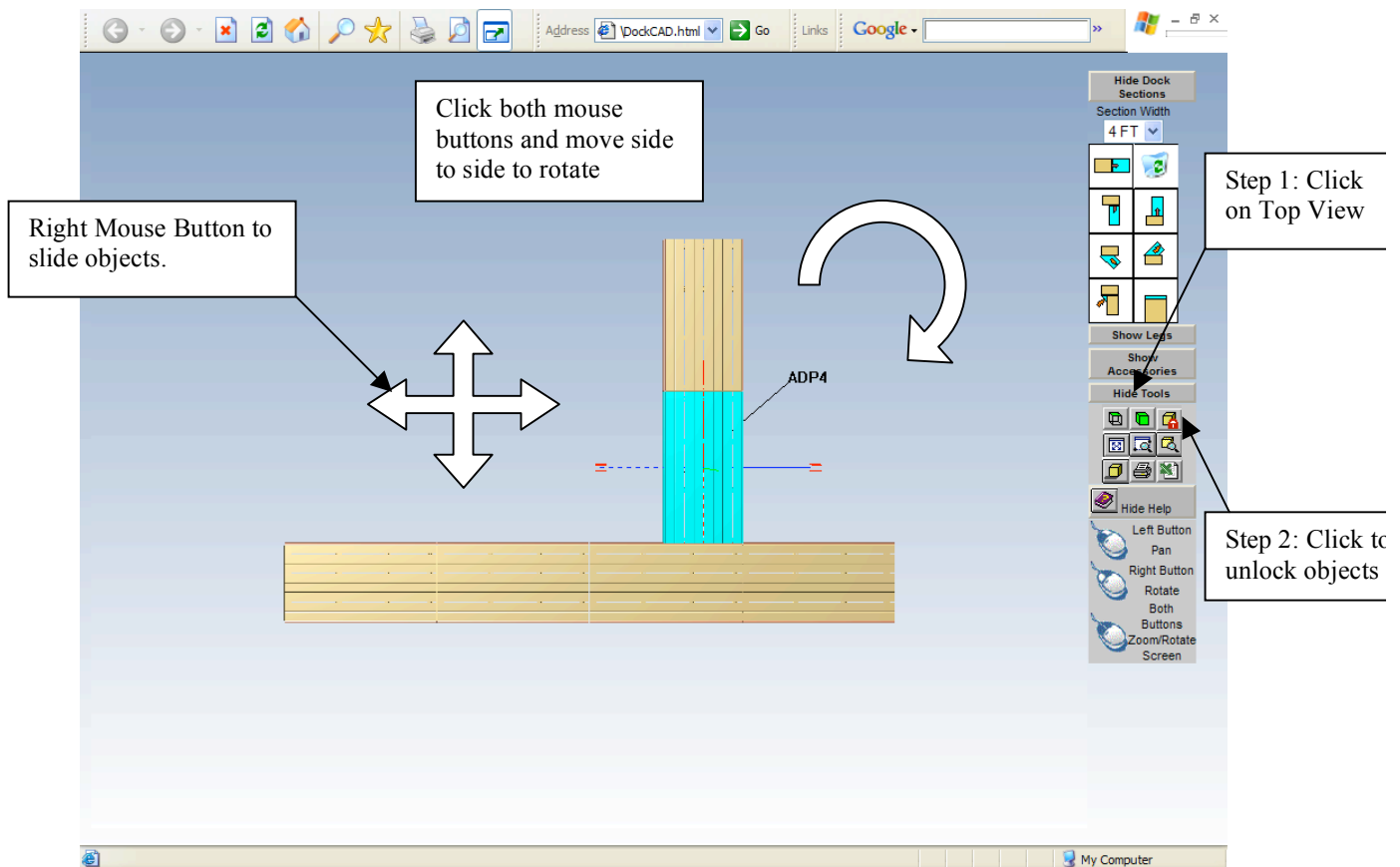
Moving Objects

You can unlock objects for adjustment. This function allows you to slide components to different locations on the layout. This functionality is useful for adjusting L-section and top-mounted dock benches.

To adjust objects, unlock the objects by clicking the  button in the Tools Menu. You will notice that objects you select now are highlighted including a Red, Green and Blue axes. Use the Pan, Rotate and Zoom mouse functions to slide or rotate the components about the various axis.

For best results, orient the layout into the Top view () prior to unlocking and moving object. The top view will limit the object movement making adjustment easier.


Lock objects again by pressing the  button. This will keep you from making accidental object movements later.



File Commands

The *File Commands* menu allows you to save and load dock layouts.

Dock layout files can be saved to a file on your computer for later use or documentation. Dock files are text (.txt) files. To save a dock layout, type in a path and file name for the storage location (example:

c:\docks\layout). Click on the  icon to save the file. If a path is not included in with the file name, the system will save the file to your desktop.

NOTE: Dock components that have been moved using the move tool will be saved in their original position.

To load a dock file, click the *Browse* icon to browse to the file location. Select the file to load.



Special Considerations

Using the Materials List

If you would like to save the materials list generated by your layout design, be sure to re-name it and save it to a different directory on your computer so it does not replace the original Excel file template.

NOTE: Before making a purchase, this materials list should be verified by a ShoreStation dealer. Special lake conditions such as wave action, bed type, and water fluctuation may require additional equipment.

Dock Styles

The configuration created represents the Aluminum/Poly-sided dock line offered by ShoreStation in both Roll-in and Stationary leg styles. The configuration will be basically the same for other styles of ShoreStation free-standing dock (all cedar or Aluminum/Cedar sections). The main difference will be connector brackets for L, 45 degree, and Miter sections. These components will need to be manually added to the material list.

Dock Leg Calculations

Dock leg frame sizes are calculated using the minimum frame height listed in the ShoreStation Dock Manual. The leg frame selection should be reviewed by a qualified installer. Installers may prefer different leg frame selections based on lake fluctuation, bed type, and wave action.

Rolling Dock

Rolling Dock configurations will include the correct leg frame size, but the program will not calculate the need for special extension legs required for L sections. Wheels are NOT included in the material list export.

Additional Accessories

This version of the Lakefront Layout tool does not include all ShoreStation Dock accessories. Due to difficulty depicting the component or its placement, particularly with some top mounted seats and special connectors, some accessories could not be included in this package. Please refer to the ShoreStation product brochures for images and specifications of all accessories. Others can be added manually to the material list.

Bugs and Issues

If you have any difficulty using this tool or find any bugs in the software, please contact ShoreStation Customer Service at 800-859-3028 or e-mail dclough@midwestindustries.com