RampDesign



User Guide

and

Installation Documentation

**Table of Contents**

[**Introduction**](https://docs.google.com/document/d/1NHKFcJA-1lAKZ4z8GnaioLsY4KqIHA1GndIYvwacD7k/edit#heading=h.992mksyh0u3l)

**Installation**

**User Guide**

**Usage Information**

**Introduction**

Ramp design in a free to use software created by Western Michigan University's senior design team, for the purpose of aiding in the design process of ramps for Habitat for Humanity, Battle Creek chapter.

**Installation Guide**

This section will go through the steps for installation.

**Basic installation**

1. Download latest version of the program at:

<https://github.com/WMU-CS-HFH-Group/ramp-designer>

**Advanced installation**

1. Download latest version of the program at:

<https://github.com/WMU-CS-HFH-Group/ramp-designer>

2. Open in Eclipse Java IDE

3. Right Click ramp-designer

4. Click Export…

5. Expand Java

6. Choose Runnable JAR file

7. Click next

8. Under "Launch configuration:" choose ramp-designer main

9. Under "Export destination:" choose the ramp-designer folder and overwrite the existing RampDesign.jar

10. Ensure the "Extract required libraries into generated JAR" is selected

11. Click Finish

12. Click OK (if it pops up)

13. Click Yes to overwrite

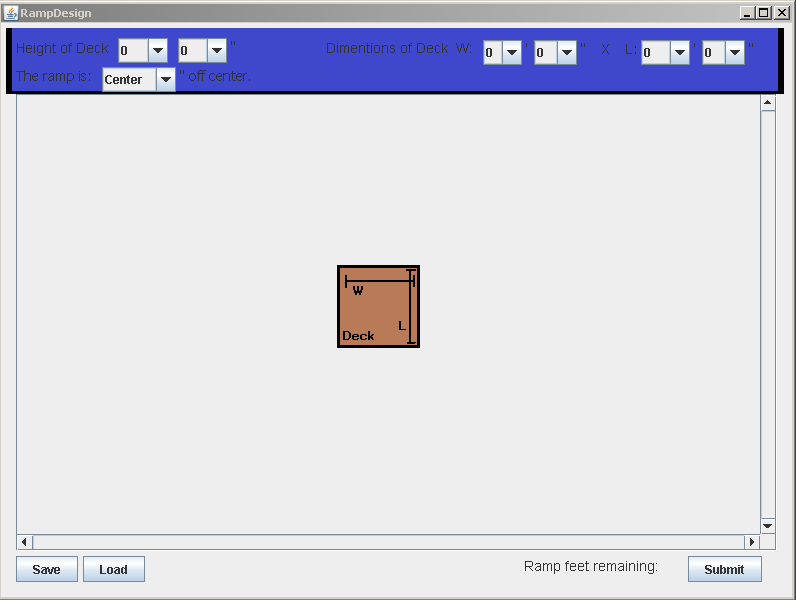
14. Click OK a final time

\*This installation guide was made using Eclipse release Neon 4.6.3

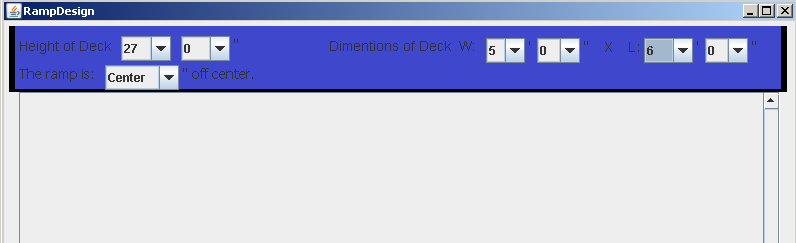
**User Guide**

This section will cover information on the usage of the program.

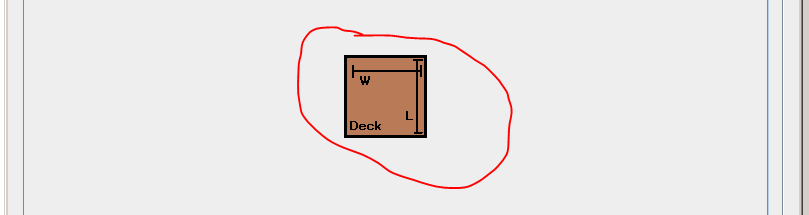
To run program run the RampDesign.jar file, this will pull up the main window.



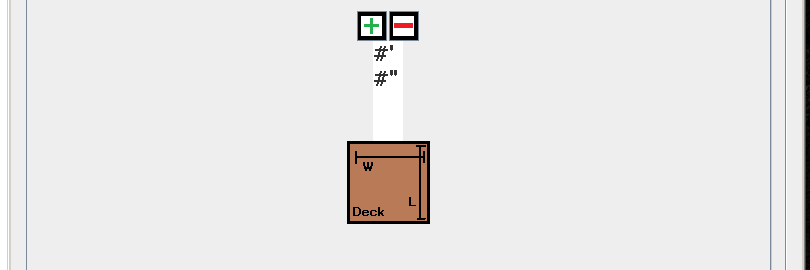
Input information into top section, first, for best results:



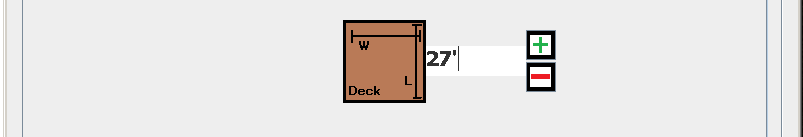
Next add in initial ramp by clicking the deck icon:



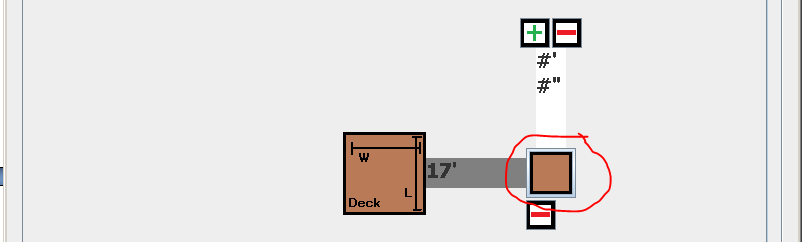
This will add the first ramp, continue to click the deck icon to change the ramps orientation:



Next enter the desired length of the ramp into the ramp window:

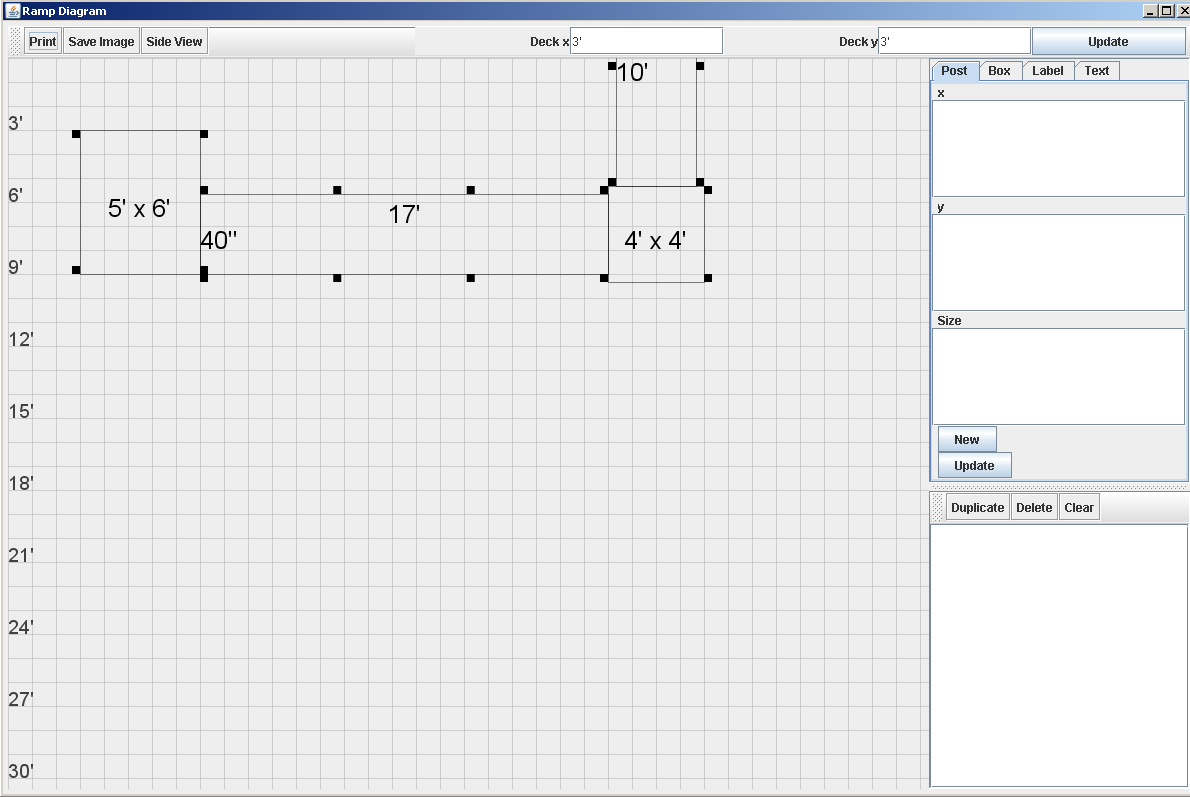


If more ramp section are needed click the + button on the window. This will add in the next section for editing. Change orientation of the ramp by clicking the turnaround icon:



Lastly choose the desired offset of the ramp in the top portion of the window.

When you have a desired ramp configuration click the submit button on the bottom of the window. This will pull up the Schematic View:



**Usage information**

This section is free to use, open source software that was specifically designed for Habitat for Humanity, Battle Creek chapter. The creators take no responsibility to the miss use to the software, but encourage the redistribution and editing of the software for use to other organizations. Any editing done to the original project deems future use as a new project and only associated with this project as a origin source code.