

A. For the 2-Design Tool

Requirements

Our design tool is compatible with Rhino 7.4 on Windows. In addition, to use the tool, several plugins for Rhino Grasshopper need to be installed. These plugins include:

- [Mesh Pipe](<https://www.grasshopper3d.com/forum/topics/mesh-pipe>)
- [Human](<https://www.food4rhino.com/en/app/human>)
- [Human UI](<https://www.food4rhino.com/en/app/human-ui>)

Launch the design tool

First, open the `sustainflatable design tool.3dm` file, which includes a few pre-defined 3D models and render settings. Next, open Rhino's Grasshopper and open the `sustainflatable design tool.gh` file to access the GUI console. These steps will allow you to test the design tool and create your own projects based on the file.

For further instructions on how to use the design tool, please refer to the steps outlined in our paper.

B. For the 3-Pump and 4-Valve

You may need the following software to view certain files:

PDF - Adobe Acrobat Reader or any other PDF reader software

DXF - AutoCAD, DraftSight, or any other CAD software that supports DXF files

STL - Solidworks, PreForm, Creo, or any other software that supports STL files