Engineering Drawing and Solid Model Requirements

Due: On your Studio day, week of 2012-11-26 @ 2100

Submission Mechanism

Please submit a file entitled <TeamIdentifier>_Model.zip through the Project Submission option on the Journals site that contains:
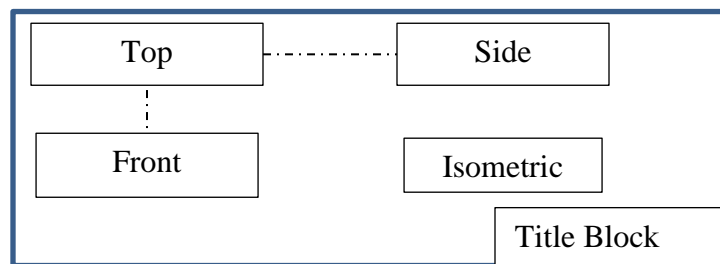
1. Your solid model saved in a .stl file
2. Your solid model saved in the native file format of the tool used to build it (i.e *.scad, or *.prt)
3. Your engineering drawing in PDF format

Regardless of whether you choose to have your solid model 3D printed or not, you must still submit all files through the Journals site by the deadline.

For those wishing to get their model printed, only the .stl file needs to be sent 72 hours in advance of your Studio to ante.t.lausic@gmail.com.

Engineering Drawing Requirements

- Must demonstrate three projections of the solid model (top, front, and side) as well as one isometric view and a title block. They should be laid out on the page in A3 (ISO) format:

- Centrelines should connect the centres of the top, front and side views
- There must be a border around the components demonstrated above
- Title Block must contain the following information: Name of the part, revision number (if it is the first one Rev. 1), Units of measurement, Team Identifier that created the drawing
- All dimensions needed to construct the part must be labeled only once on the drawing (not once per view, but once per drawing). There should be no redundancy in dimensioning.
- Where possible all dimensions should be shown on the view that would most intuitively be used to measure them
- Where possible all dimensions should start from a common reference point (i.e. bottom of the handisleeve)