



insideout

Specification Document

The object should be entirely generated through 3D visualisation and modelling tools.

Specifications For Model Design and Construction

- The object is to be machined and shipped within the dimensions of 6cm x 6cm x 6cm.
- Minimum wall thickness is 1mm, however localised features or surface details, e.g. texture, lettering and hole features, can be 0.5mm in size.
- Polygon count for each Object should be kept to fewer than 200,000.
- Polygons should be tessellated (triangular).
- The triangulation tolerance is .01 @ 10° to 15°.
- Merge points (keeping 1 pt polygons).
- View in *flat shade* mode to ascertain true smoothness (not smooth shade)
- File formats that can be used are: STL (preferred) and OBJ.
- Objects must be 'closed' ie have internal and external walls.
- Objects must be designed so as to accommodate the removal of filler/support material that is applied during the printing stage.
- Objects may be comprised of multiple components.
- ARRK (Melbourne) will build the models in a material called "FullCure720", this is a medically approved material that is safe to handle and wear on skin. Please note this material cannot withstand temperatures above 50 degrees C.
- "FullCure720" is slightly transparent (depending on the wall thickness of the model).
- The object can be designed to require a degree of construction and reconfiguration and take up an area larger than 6cm square *but no larger than 36cm square*.

NB: When in storage or touring, the sculpture must fit within a box 6cm x 6cm x 6cm.

The following links may be of assistance:

- <http://www.ark.com.au/browse.asp?ContainerID=cad> (Explanations and Tutorials)
- www.solidview.com (to download free 3D CAD Viewer)

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