

**Model Design Checklist**

We recommend reviewing the checklist below to help identify any issues with your design before attempting to 3D print. The sizes listed for the various design features are CBM recommendations for printing on plastic FDM printers, resin SLA printers and nylon SLS printers.

**Alpha Carbon Backbone**

All bacbones have a size of 1.25

**Molecular Bonds:**

Hydrogen bonds are only displayed in beta sheets, not alpha helices

Hydrogen bonds are set “solid”

Hydrogen bonds and disulfide bonds are set “to backbone”

Hydrogen bonds and disulfide bonds have a size of 0.75

Identify and remove “triangle” hydrogen bonds (see image to the right)

All molecular bonds have a subtle color

**Sidechains:**

Sidechains have a size of 0.75

Sidechains do not have “bumpy backbones”

Only sidechains that help communicate your molecular story are shown

**Support Struts:**

Support struts are added to all protein chains

Individual struts are added to connect any nucleic acids or small molecules

Struts do not cut through key sidechains or small molecules

All struts have a subtle color