

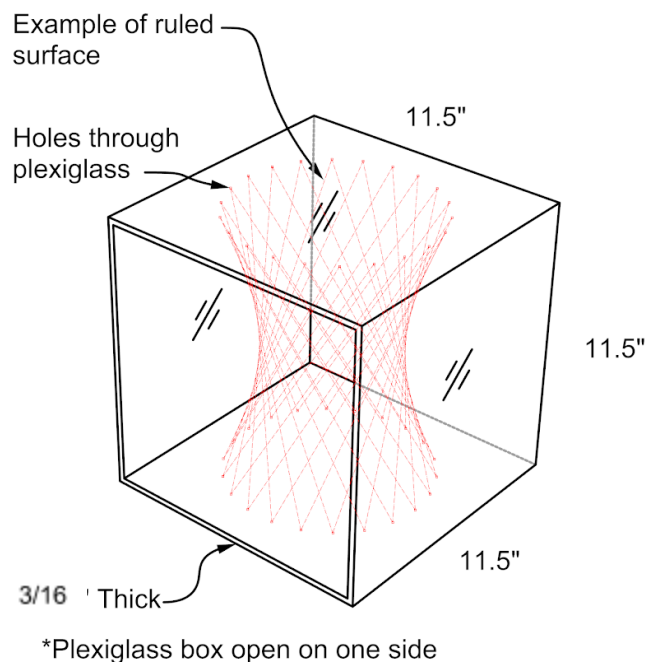
PROJECT 01: Surface “Rules”

DUE: February 24st, Friday

In this exercise you will be defining a surface or surfaces using strings within a cube.

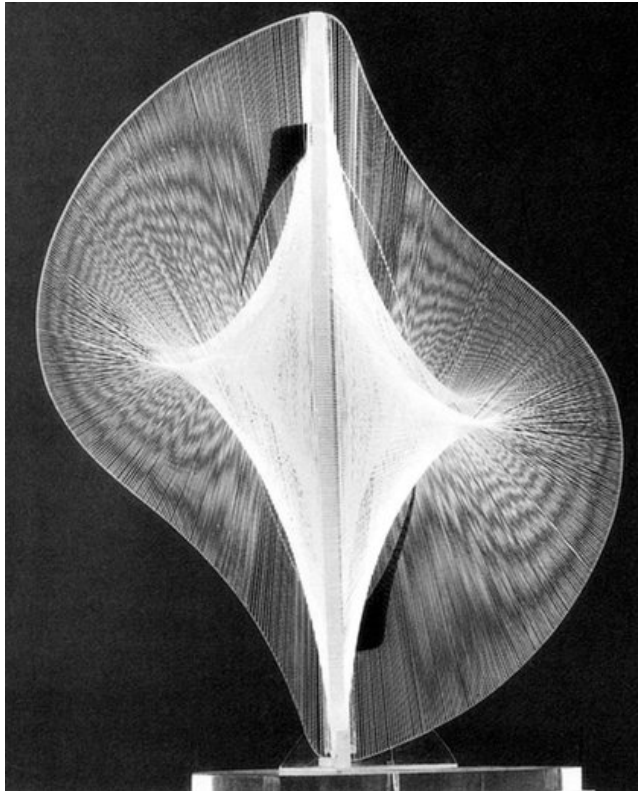
1. Due February 10th: Using rhino/ grasshopper create two or more curves on the faces of a 11.5”x11.5” x 11.5” cube, subdivide the curves equally, and connect those division points using a “line from two points” component. This series of lines can then be lofted to create a surface. Create at least 5 different surface variations.
2. Choose one of your design options to build into a physical model. You will be laser cutting holes at the endpoints of your string. Connect the holes using string. The string can be any color(s) you like. Consider the composition of the surface(s) within the cube. Use 2,3,4, or all 5 faces of the cube. The boundary will be an 11.5” x 11.5” x 11.5” plexiglass cube, with one side one open. The plexiglass is to be 3/16” thick.
Labeling your holes to keep track of their connectivity is one of the keys to this project. Create a drawing to map the holes and their connectivity relationships.

*Note: it will be paramount that the string is taught and does not sag. You can accomplish this by using elastic string, adding springs, or even weights. This is another opportunity for creativity!

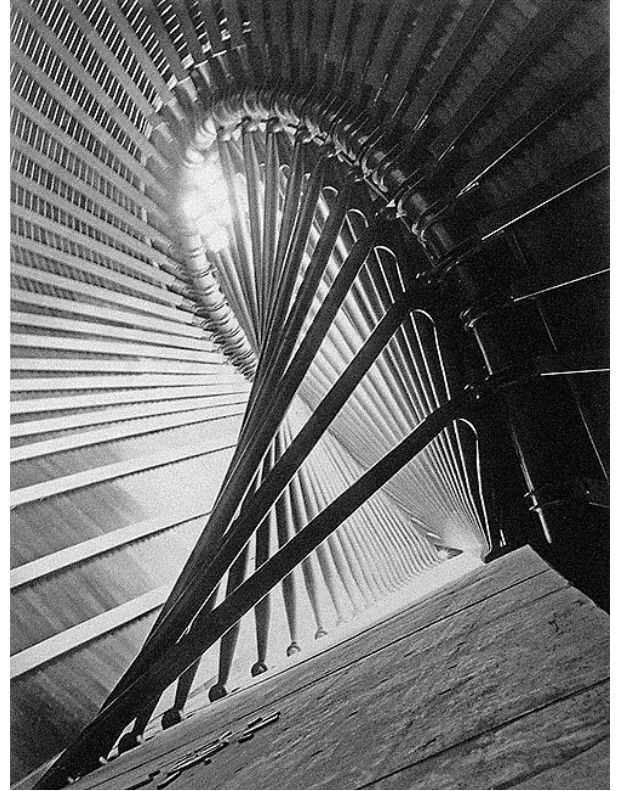


Some inspirational references:

Naum Gabo, *Lineare Raumkonstruktion Nr. 2*



Kenzo Tange, *Yogogi National Indoor Stadium*



Gabriel Dawe, *Plexus*, The Toledo Museum of Art

