Assignment 3b
November 17, 2003

Half Scale Joint

This assignment is due December 1, 9AM

INTRODUCTION
We are finally at half scale modeling of building components. The goal of this assignment will be to challenge the relationship of design and true NC machinery. Although you will not have to design a full working system, this model is a prototypical detail of a joint as part of a larger system. In the case of this assignment your system is made up of components where every joint is slightly different in shape, yet the geometric relationships are the same. In other words this joint could be parametric. Your job will be to design and fabricate one joint (fig. 1)

From stock thicknesses and custom cuts on the water jet cutter, design a structurally sound joint that is aesthetically pleasing of aluminum and glass. The goal is to show design intent not to create a working joint.

SCALE = 1’ = 6”

POINT OF PURCHASE

Glass
Pearl Art Store (Cheap Picture Frames)

Metals
Bulldog Sheet Metal
77 Hurley St. Cambridge, MA 02141
(617) 661-BULL

The Metal Source
11 Forbes Road Woburn, MA 01801
781.932.0482

Hardware
Economy Hardware & Home Depo
FABRICATION PROCESS
1) Detail Geometry
2) Model Parts
3) Model Connections
4) Separate By Fabrication
   Milled Parts
   Water Jet Cut Parts
   Glass Parts
   Hardware
5) Create Dxf
6) Create Tool Paths In Omax
7) Cut Parts And Assemble

Fig. 1 Completed Assembly
TURN IN PROCEDURE ON STELLAR

Full turn in procedures will be announced next week as part of assignment 3c.

Cutting in Groups of 4 – A signup sheet will posted on the ZCORP OVEN

Cutting days are
  Wednesday  10AM & 12PM
  Thursday   10AM & 12PM
  Friday     10AM

Consult Carlos on a time to cut

Enjoy