

Arch 673: Design Project

The object of the final project is to *design* an enclosure system, and to justify and explain this design based on the principles covered in this course.

Select an enclosure system for a studio project, a favourite building, or some other real project with known site, climate, program and client context.

Design and draw a detail section (or exploded isometric) of the four enclosure intersections (listed below) with sufficient information to allow a builder to build and a plans reviewer to understand the intent of the design. Information over and above this may need to be added to the drawing to ensure that the design intent is clear to me.

- a) wall to roof
- b) interior suspended floor junction with the wall (perhaps combined with d or with a balcony)
- c) window to wall connection (sill or head *and* jamb)
- d) a wall to foundation detail at grade/sidewalk etc.

The location of the four details should be identified on a larger-scale key drawing of the entire building section or isometric.

The details should show how the support, control, and finish functions (and maybe distribution) functions of the enclosure are met at each junction. Typically rain, heat, air flow and diffusion control layers need to be identified. Construction sequencing, material choice specifications, etc should be identified on the drawing.

On a single page of single-spaced paragraphs, describe your design intent, approaches, strategies and goals. Explicitly explain the design principles of rain control, heat control, air control, movements and tolerances, vapour control, etc.

Marks will be awarded for the combination of difficulty of design problem and quality of the design presented.

The deliverables are to be in 8.5 x 11 or 11x17 folded to 8.5x11 sized paper bound in a permanent manner (staples or similar, NOT paper clips). In general, it is advisable to draw at about 1:5 scale, but smaller or larger may be necessary or sufficient.

A cover sheet, identifying the document as an Arch 673 Final project and identifying your full name with student ID number is required.

Due Date: April ?, 2006