

vertical construct

choreographing sight, light, sound and materials

Walls enclose and divide, separate and join, reveal and conceal. As an architect, this archetypal element provides a multitude of spatial effects which require control and a conscious finesse. Analyzing and testing are ways to gain necessary awareness to orchestrate the material for your spatial means.

Project

This assignment has three parts:

1. Analyze the **precedent envelope**. Individually, index the envelope's materials, identify the primary and secondary structural systems, assembly organization, and programmatic orientation. In plan and section, diagram the movement of light, transfer of sound, visual sight lines and temperature as it transfers through the material assembly.
2. Test through **material constructs**. Working in teams of three and at the 1:1 scale, develop a scheme that demonstrates control of light, water, and sound using lessons learned from both the building and conceptual precedent projects. The construct must fit within a 16"x16" footprint.
3. Document and observe through **drawings**. Individually, develop construction drawings of your vertical construct that identifies size, assembly and material type used. Diagram the behavior of light, water and sound as it relates to a specific site.

Objectives:

includes the observation of climate behavior on material envelopes, implementation of creative building envelope materials and assemblies, understanding of material properties and resistance

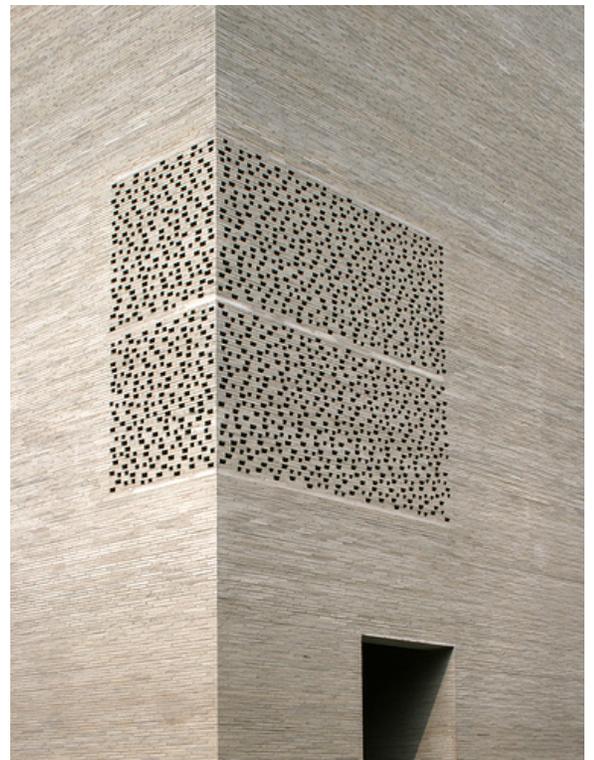
Grading: will be made according to depth and breadth of research, precedent synthesis, material implementation, craftsmanship of material assembly, graphical quality of drawings, and clarity in expressing ideas in audio and visual formats.



LIGHT LINES . Atherton/Keener



PAPERVILLAIN . The Functionality



KOLUMBA . Peter Zumthor

vertical construct

Schedule

Week 1: precedent research

Week 2: precedent analysis / material fabrication

Week 3: observing / testing / drawings

Precedent Review: 01/25/12

Construct Review: 02/01/12

Construct Due: 02/10/12

Submission & Presentation of your projects will be made at 1:00 pm Friday, February 10.

Requirements: should be understood as the minimum submission necessary for issuance of the grade "C".

individually

- precedent project description
- precedent project diagrams
- construct drawing

teams

- material mock-up
- final construct

Precedents:

Building

Caltrans District 7 . Morphosis (metal)

Jean-Marie Tjibaou Center . Renzo Piano
(wood & steel)

Kolumba . Peter Zumthor (brick)

Concept

Light Lines . Atherton/Keener (light)

PaperVillain . the Functionality (suspension)



JEAN-MARIE TJIBAOU CENTER . Renzo Piano



CALTRANS DISTRICT 7 . Morphosis