

Exercise 3: Thickened Plane + the Explosion

Choose one of the three following options.

A. Solid Material

- Carve, grind, or cast non-orthogonal plane figures from a solid material (or liquid material that cures to solid)
- An invention of a jig to determine location and angle is suggested
- 3d printing is not allowed

B. Thick Sheet Material

- Generate non-orthogonal details of a plane figure geometry
- Material must be of significant thickness—such as 3/4" plywood
- CNC Milling or Waterjet cutting is required

C. 3D Print

- Demonstrate the potentials of non-orthogonal plane figure intersections
- High detailed connections are required
- Figure must internalize, mirror, or produce negative space in addition to the use of plane figures

For each of the three selections, the following deliverables are required

- A physical model of roughly 6" size or greater of the material/method selected
- A presentation of geometric operations employed (as well as failures)
- A composite drawing that exploits the potentials of the strategy

MIT OpenCourseWare
<http://ocw.mit.edu>

4.105 Geometric Disciplines and Architecture Skills: Reciprocal Methodologies
Fall 2012

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.