

# FORM

PIONEERING DESIGN

ON THE CHEAP

**SOCIAL CONSTRUCTS**

Creating Encounters Large and Small

**WORK OUTS**

Accessible, Affordable Gym Design

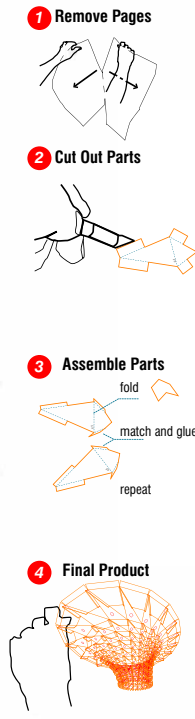
**GREEN BY DESIGN**

The LEED Factor

U.S. \$6.95 / CANADA \$8.95



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*Liquid Sky*

**A down and dirty project: assemble your own paper model based on Liquid Sky at MoMA / PS1 - Queens, NY, Summer 2007**

Liquid Sky was a collaboration among the following:

- Design:** Ball-Nogues Studio
- Structural Engineers:** Endres Ware Architects & Engineers, Arup
- Computation:** Product Architecture Lab at Stevens Inst. of Technology
- Water Effects:** Fountainhead
- Seating Hammocks:** Sheila Pepe
- Posters:** Israel Kandarian
- Construction:** 40 magnificent volunteers

Ball-Nogues Studio is Benjamin Ball, Gaston Nogues, and Andrew Lyon

- Expenditures:** collaborators and consultants - \$0
- materials, rentals, outside fabrication, transportation and food - \$70,000**
- Materials:** Polyester reinforced Mylar film (\$6/yd.), untreated utility poles (\$250/unit), sports netting (\$0.40/sf.), adhesive backed dacron reinforcement (\$15/yd.), beer (\$9.49/12 pak.), earth anchors (\$75/unit), comealongs (\$43/unit), cable (price varies), turnbuckles (price varies), grommets (\$49/144 pcs set)
- Equipment:** high reach forklift, bobcat w/ auger, 28 ton crane, chainsaw, boom lift, CNC table cutter, jackhammer, impact wrench, rigging gear, grommet dies, Weber grill
- Accommodations:** tent
- Printing:** none
- Software:** Digital Project, Rhino, Oasys
- Design Time:** eight weeks
- Construction Time:** eight weeks
- Dissassembly Time:** five days

