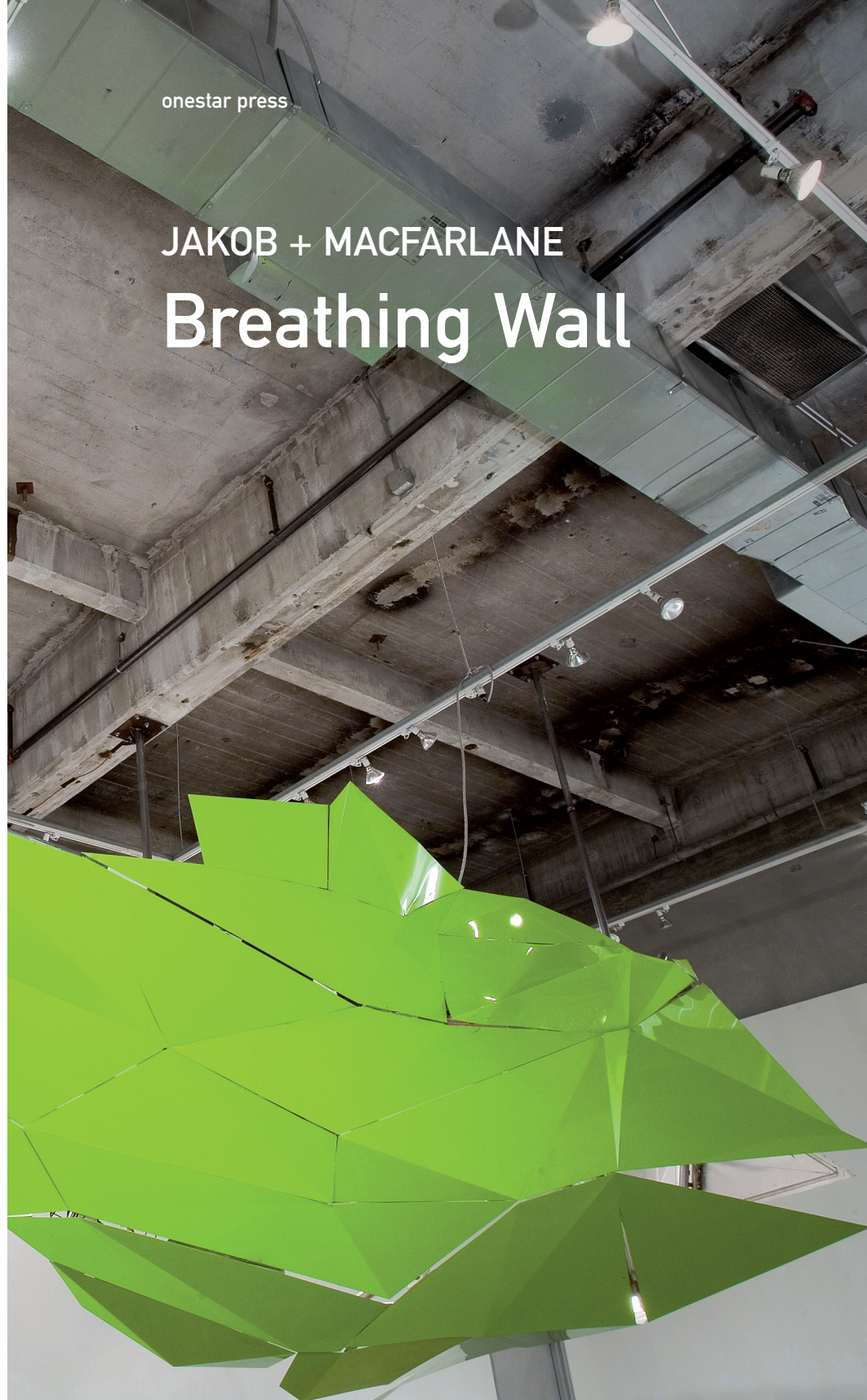




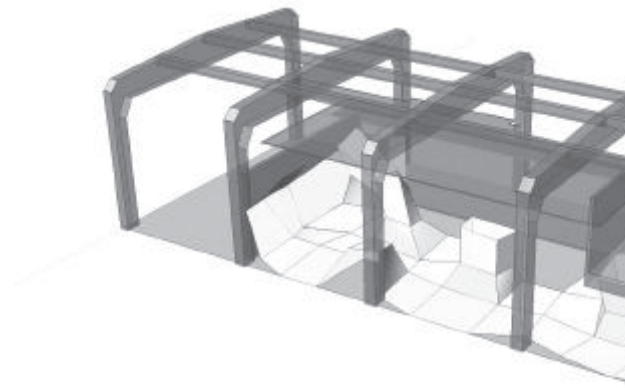
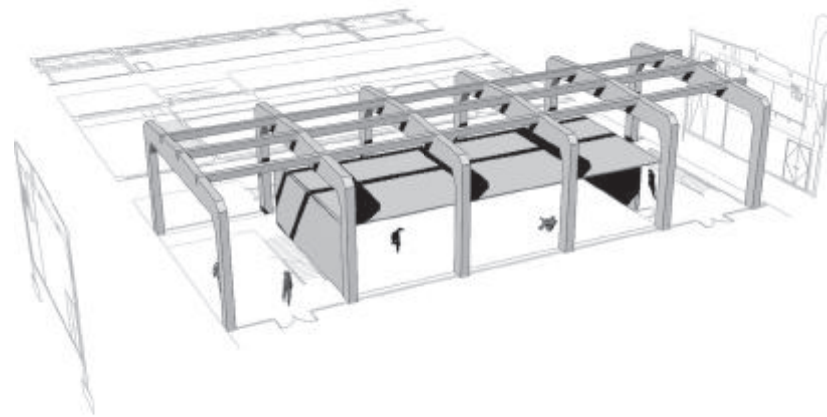
onestar press **jakob + macfarlane** breathing wall

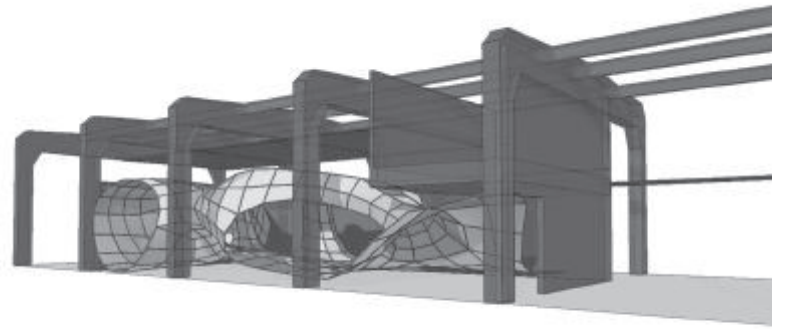
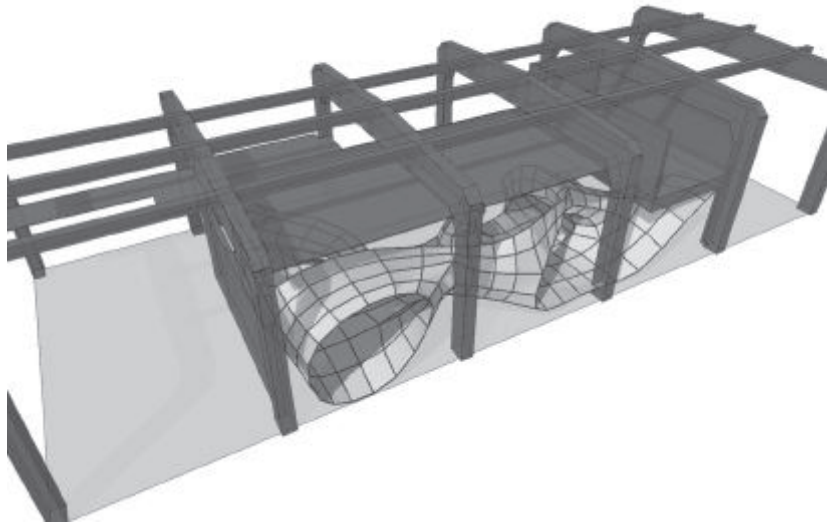
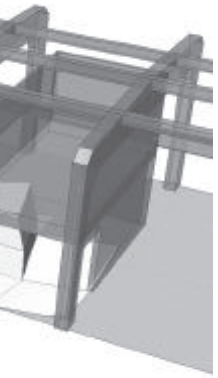


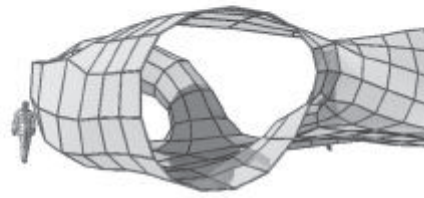
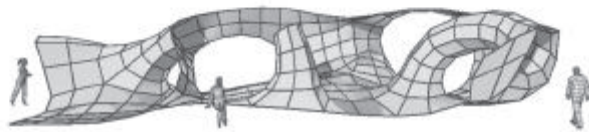
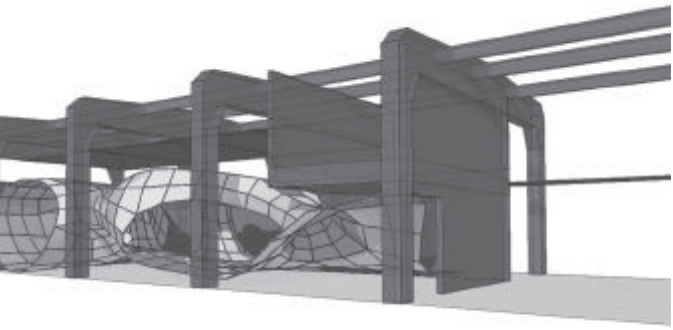
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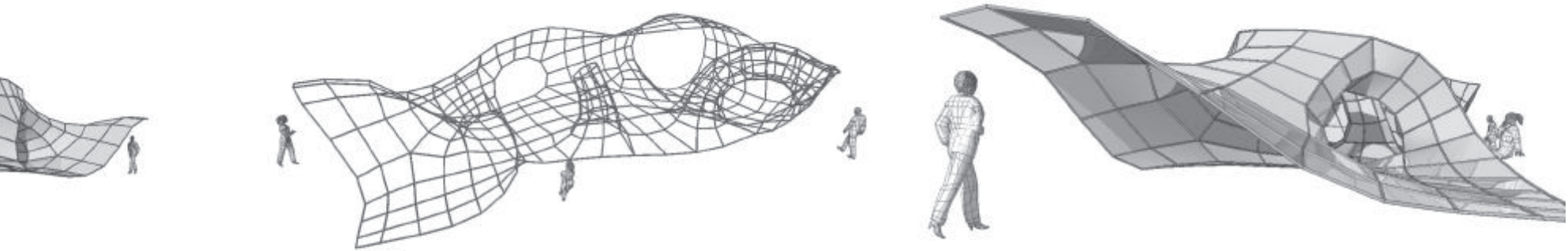
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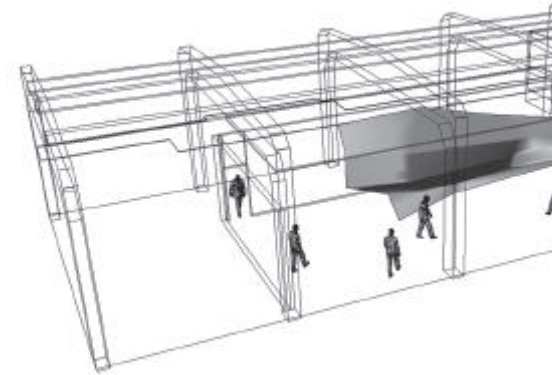
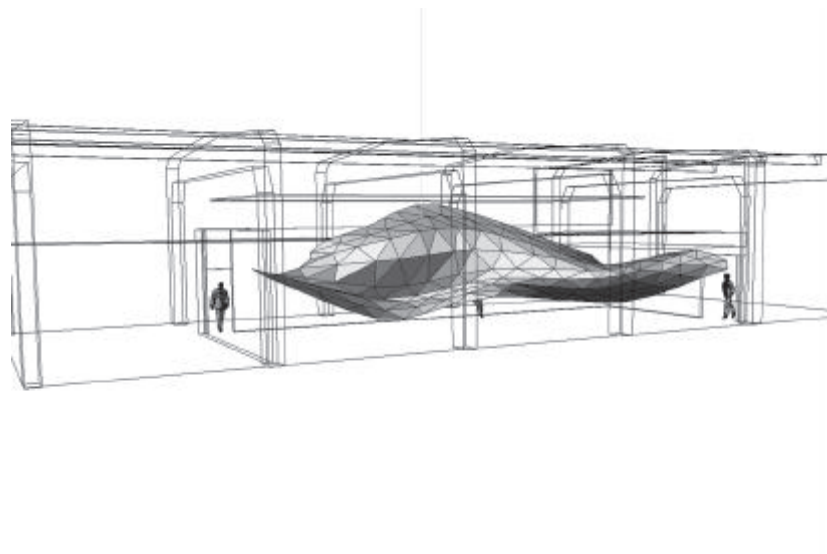
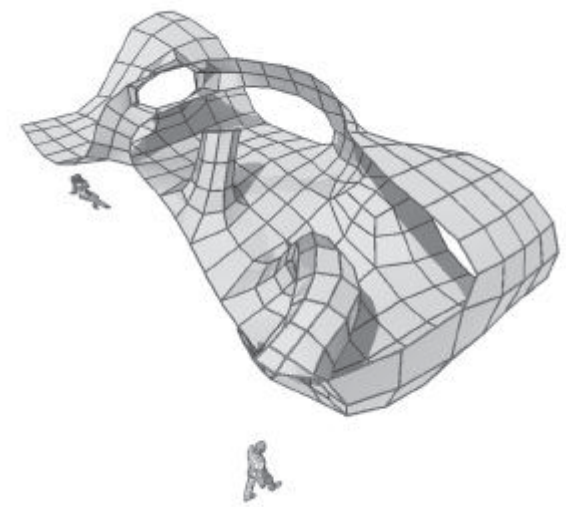
Breathing Wall

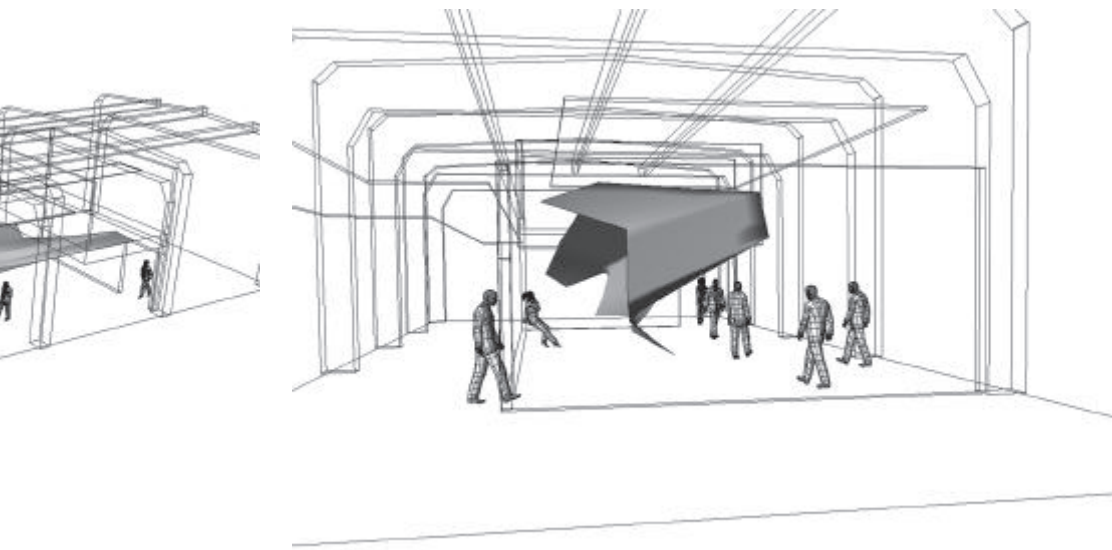


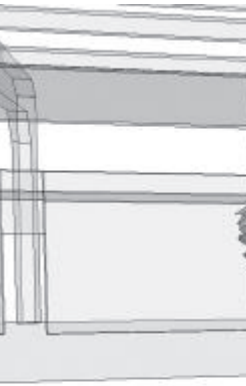


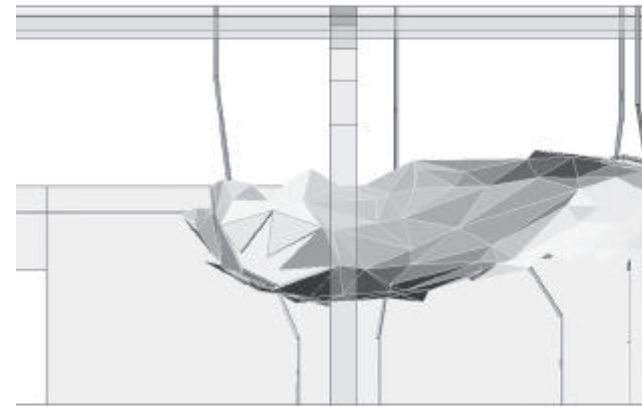
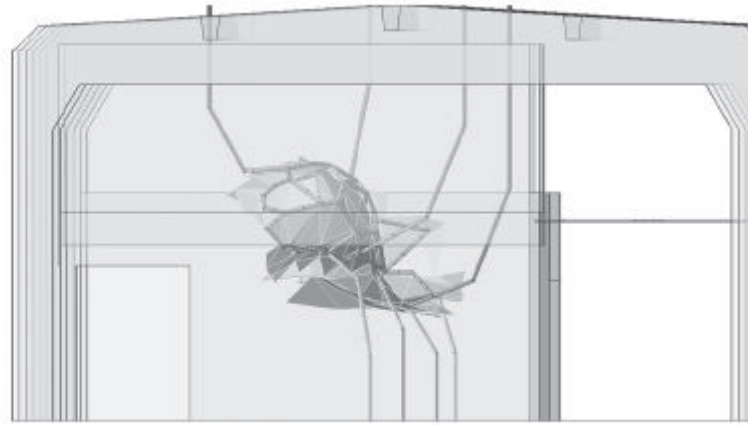
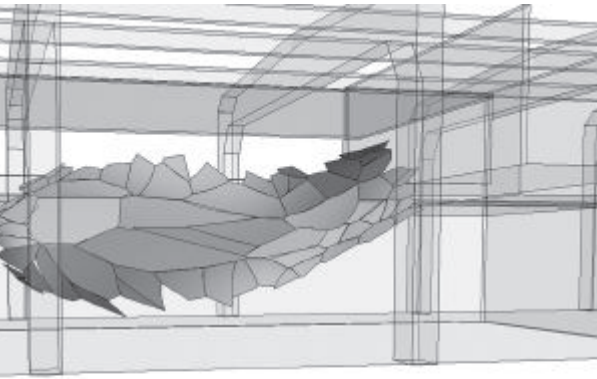


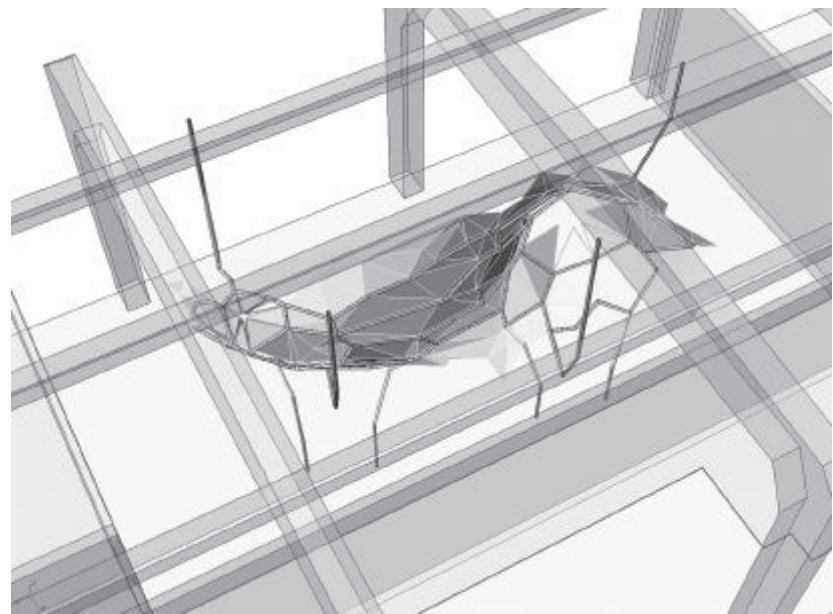
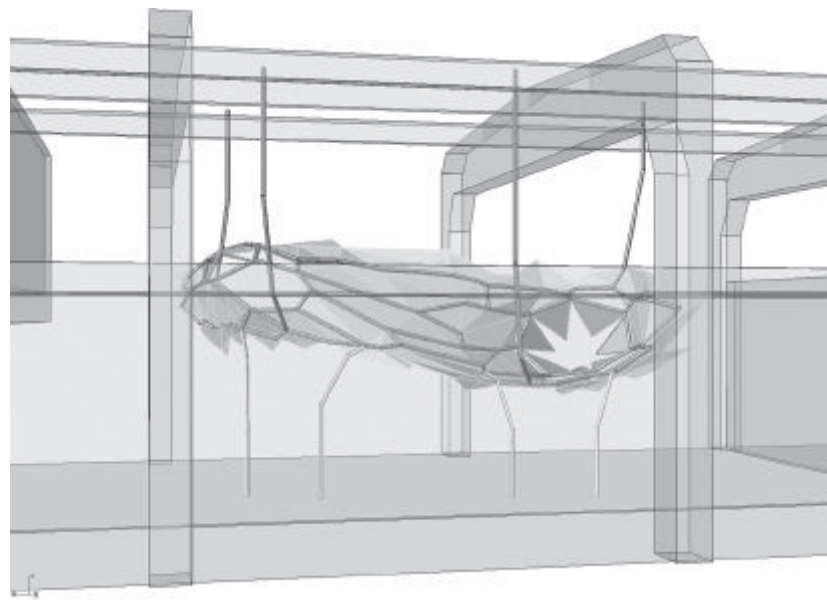


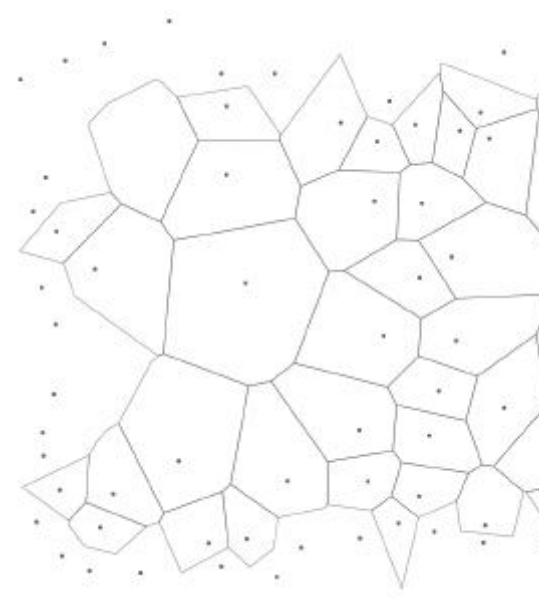
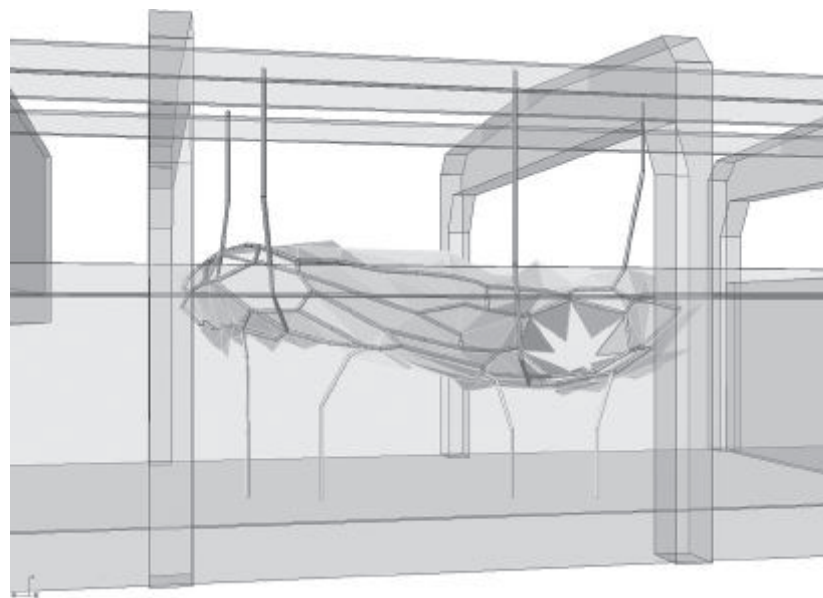
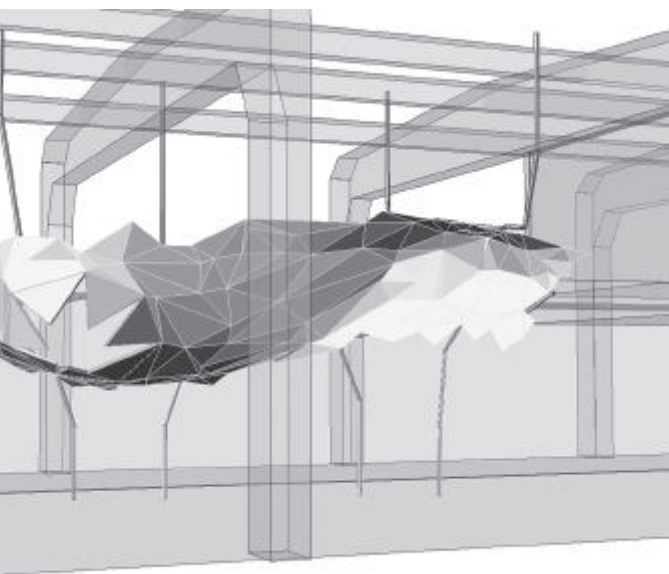


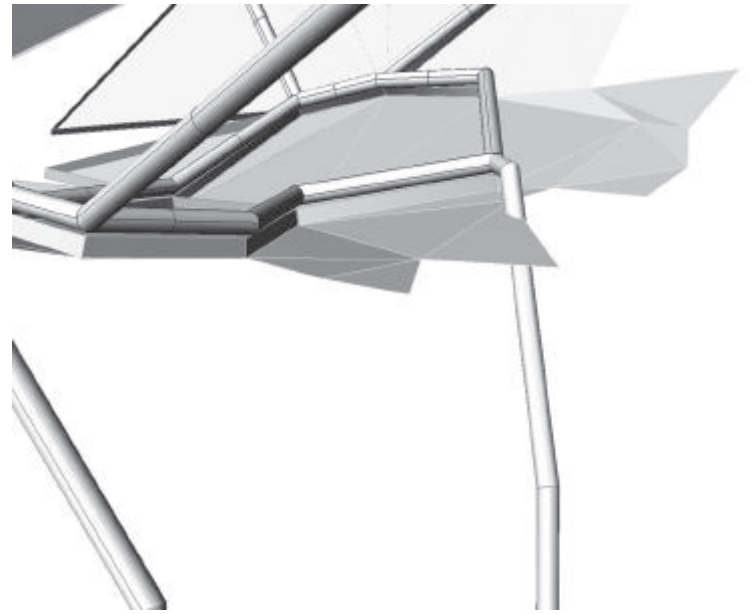
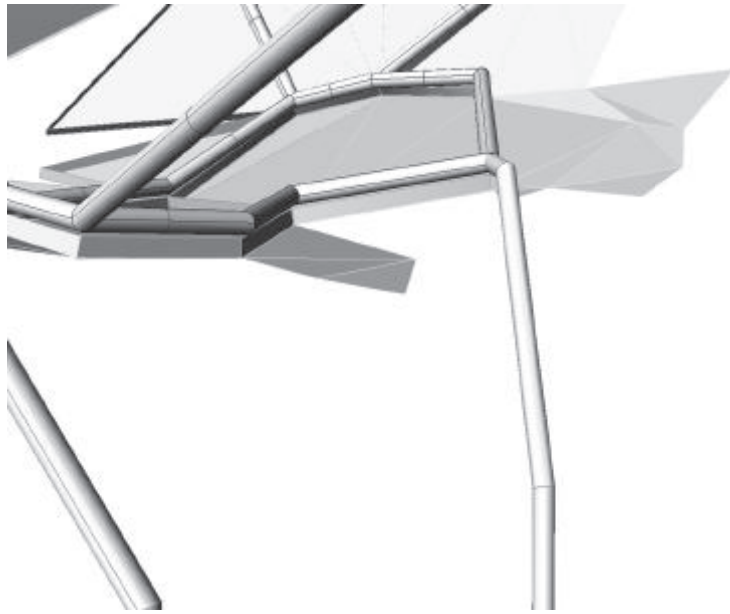
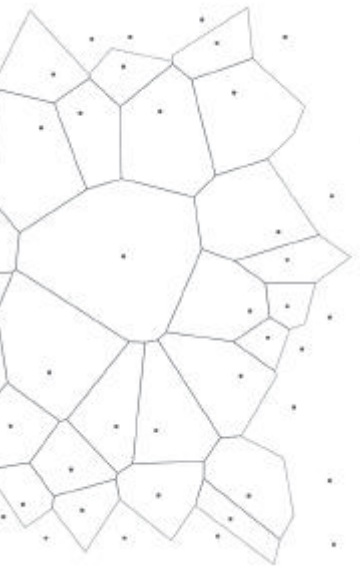


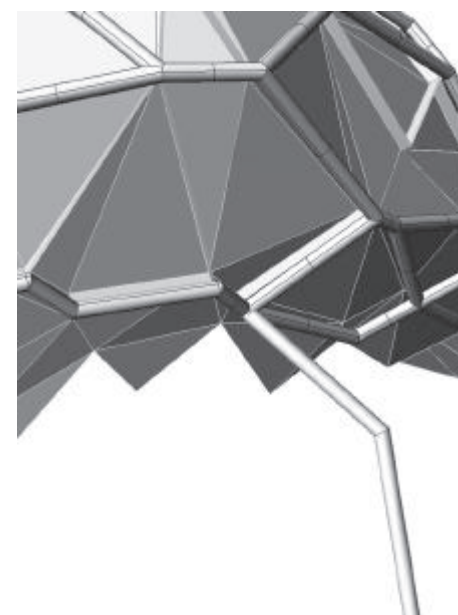
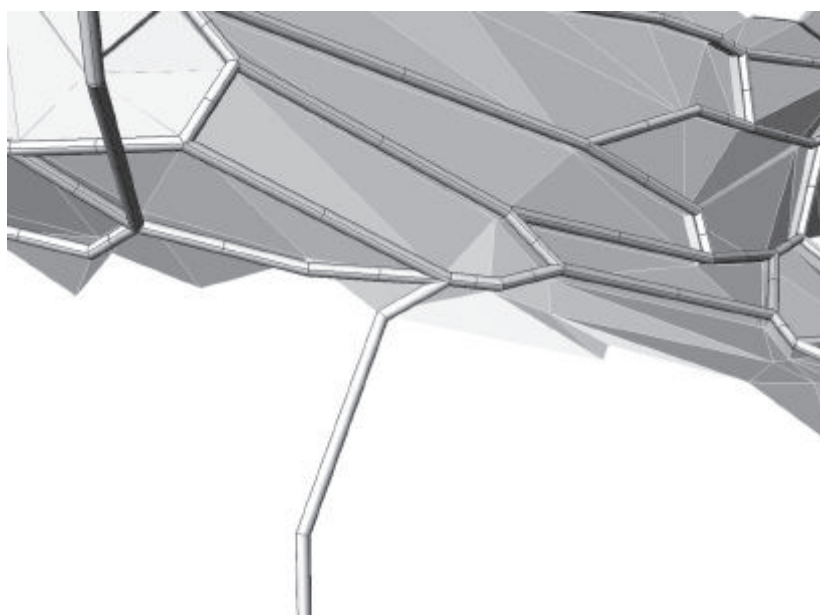
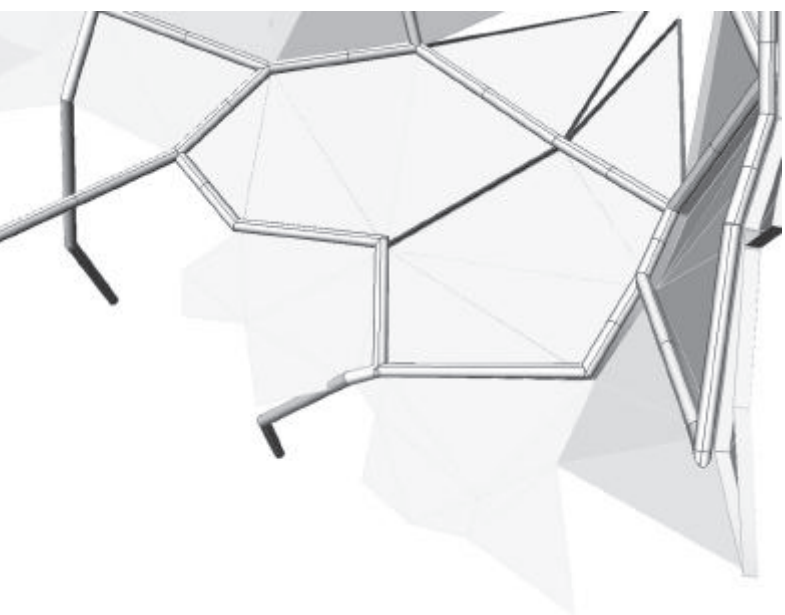


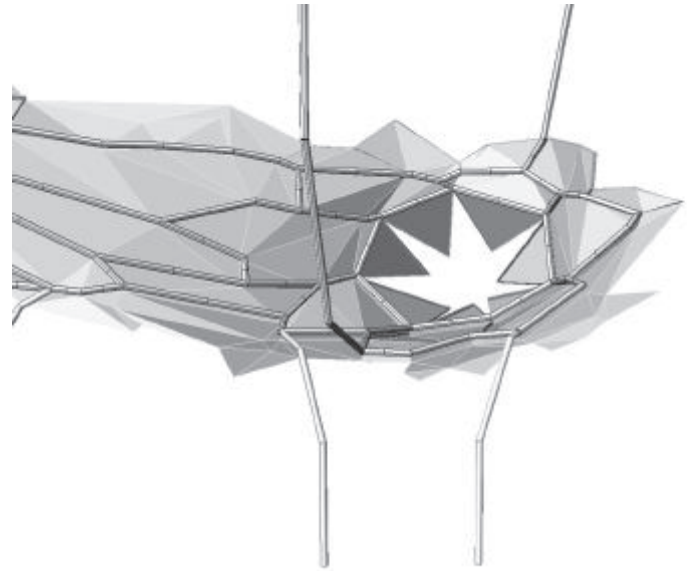
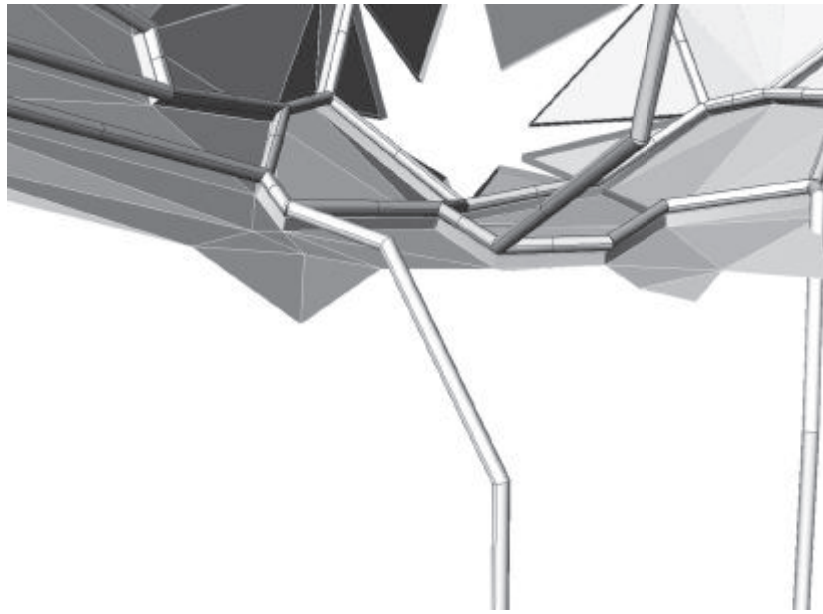


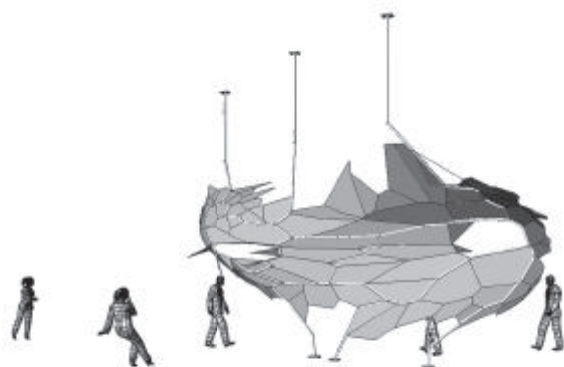
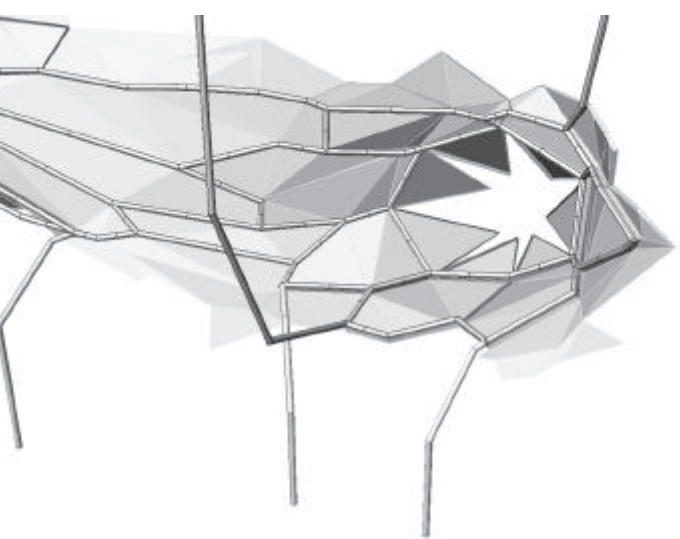


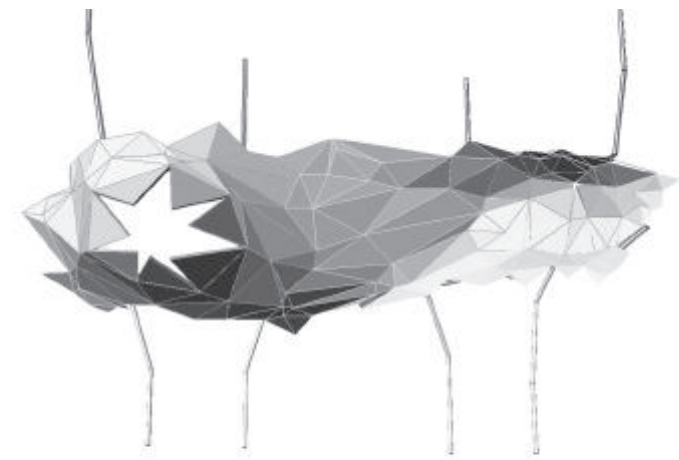
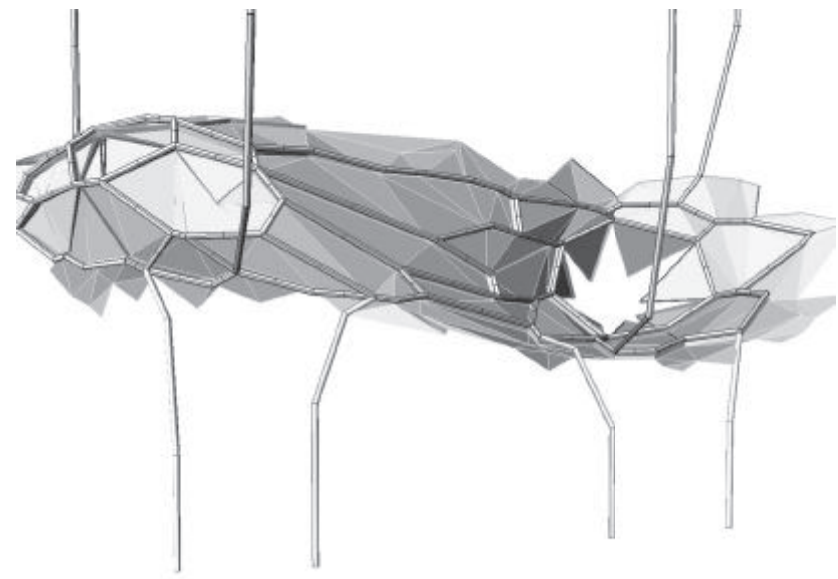
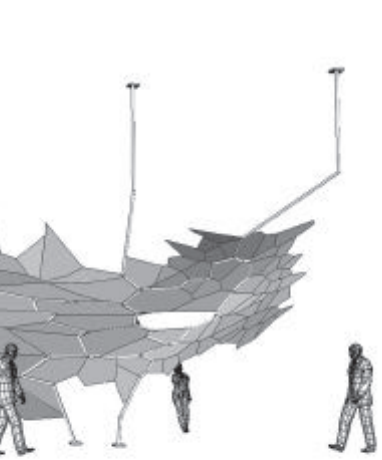


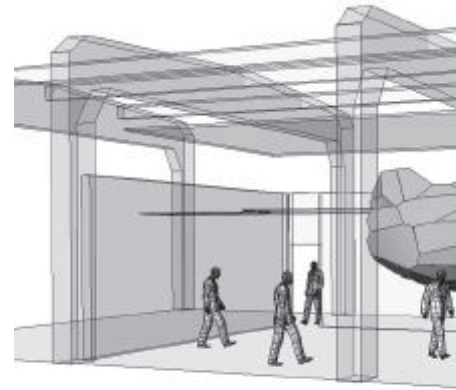
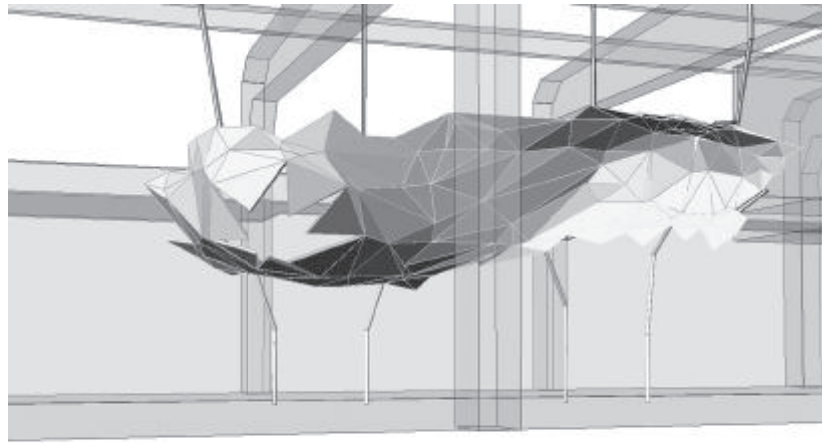
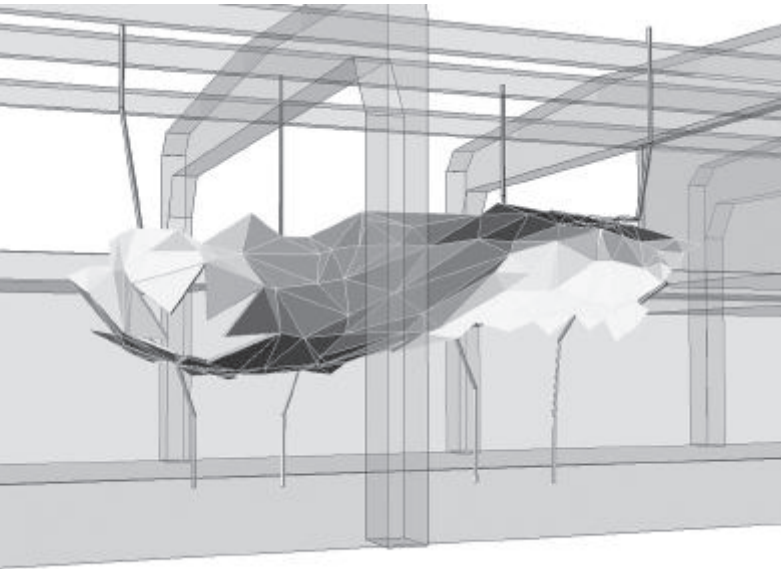


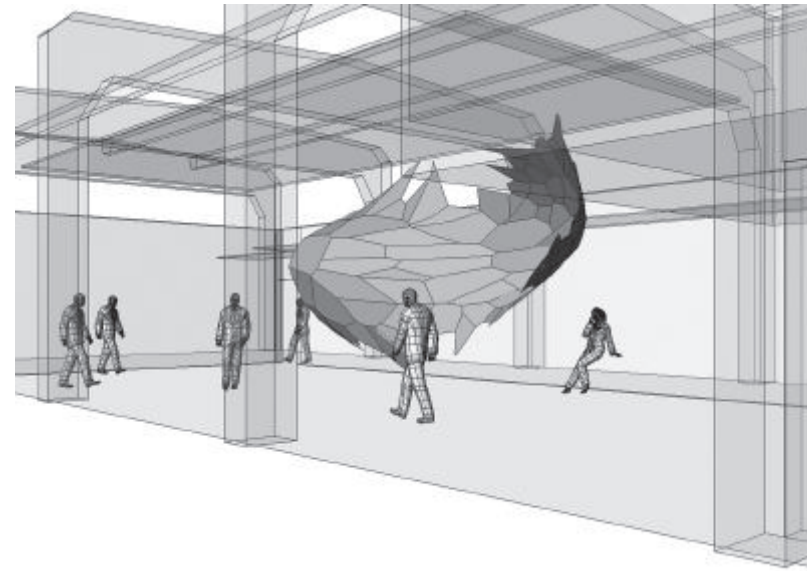
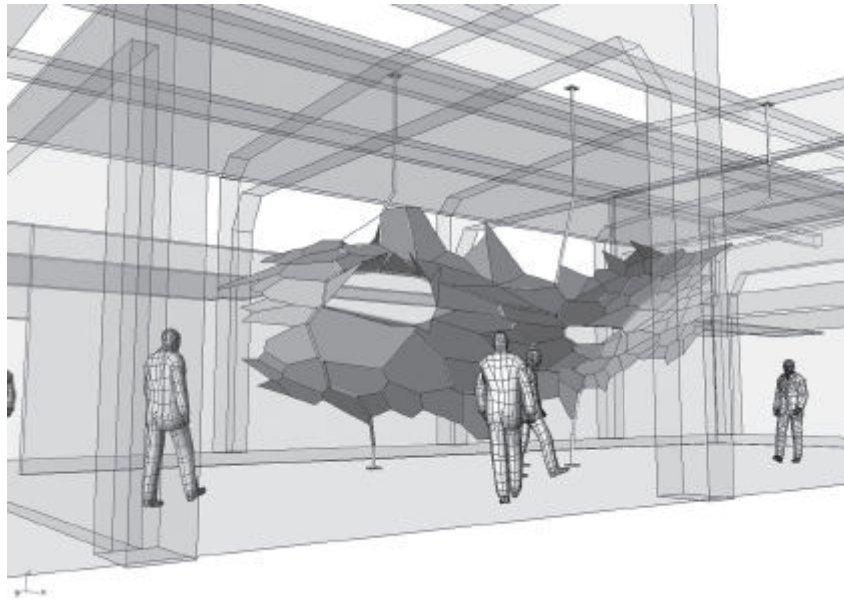
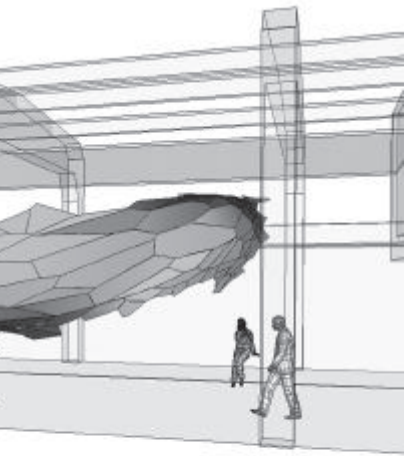


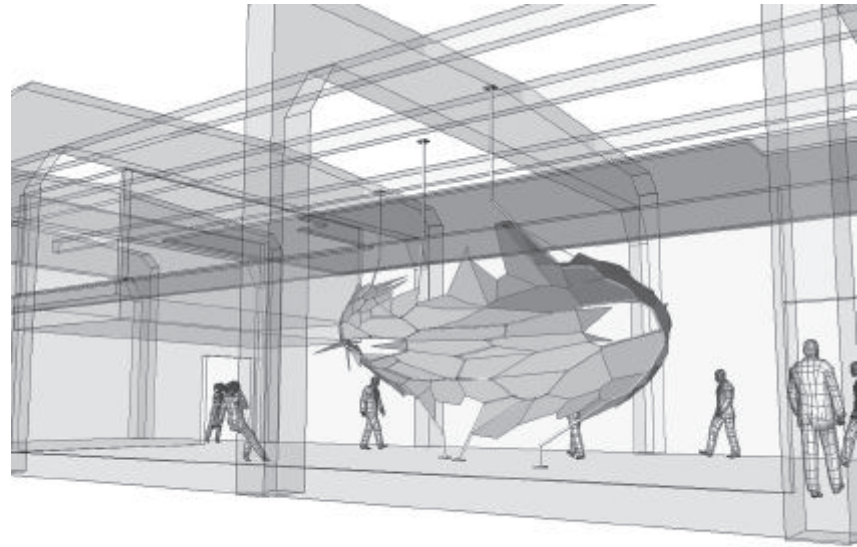
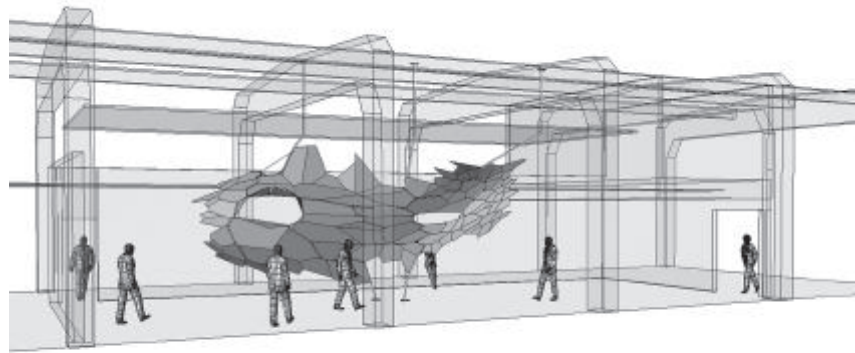


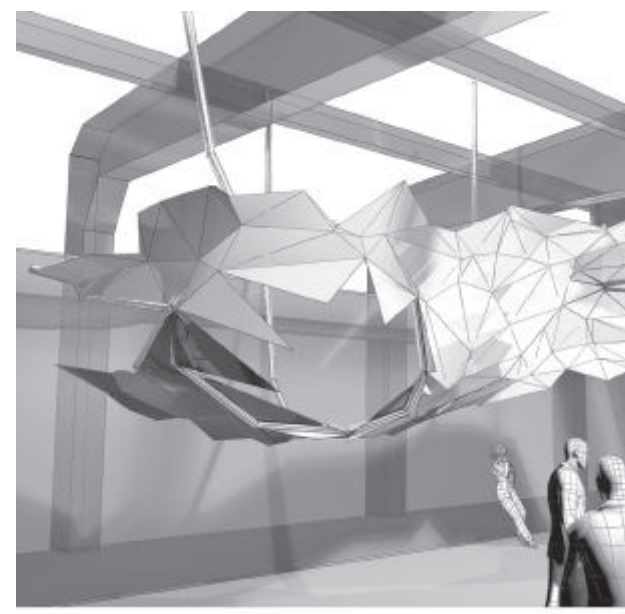
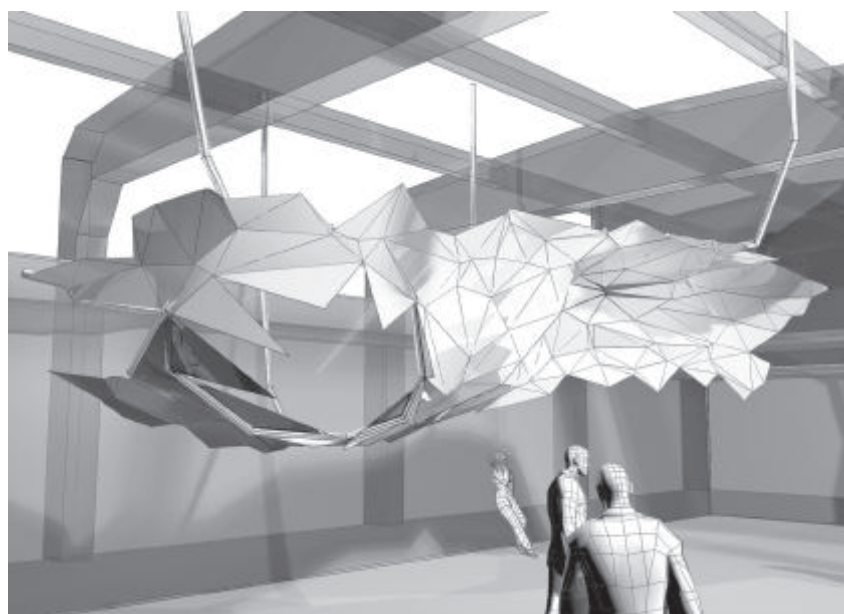
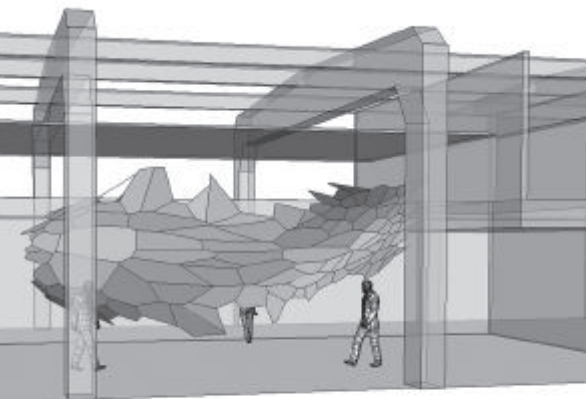


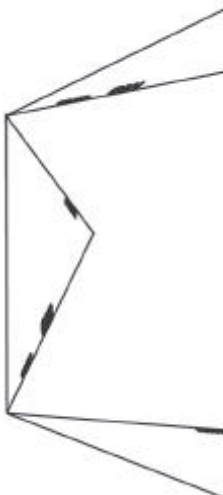
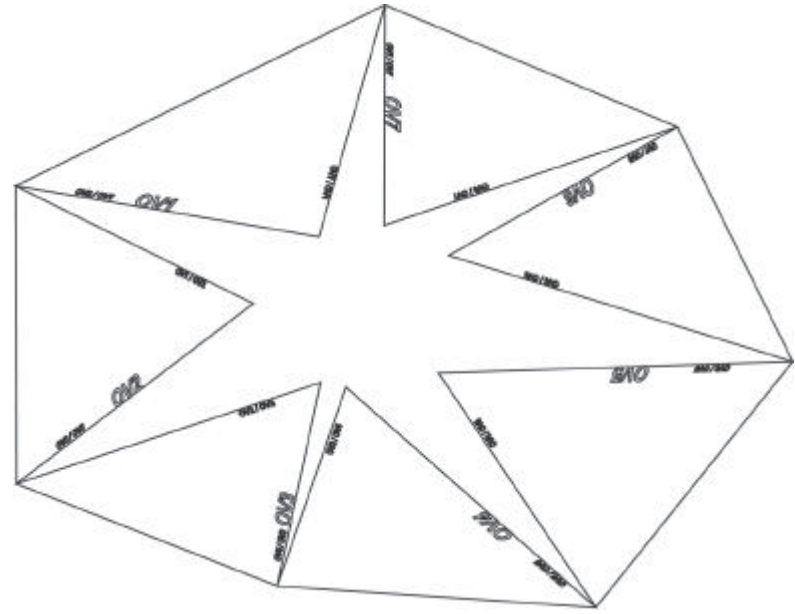
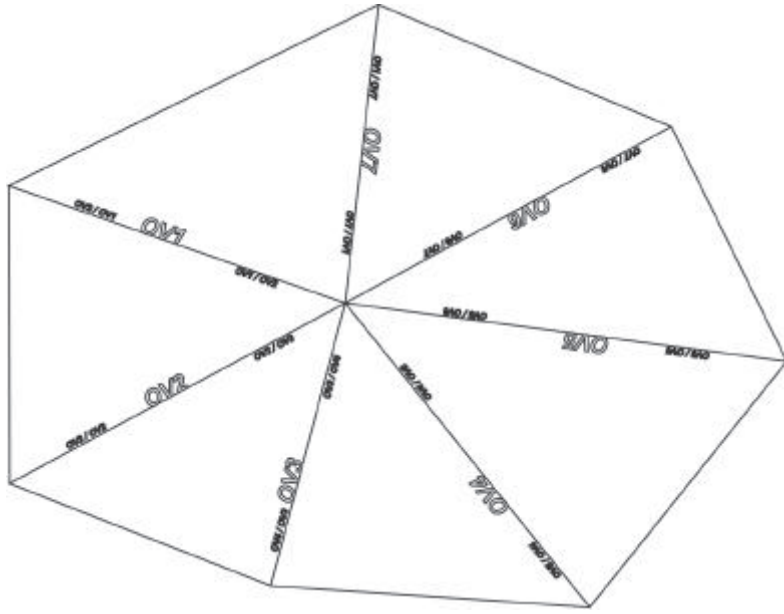


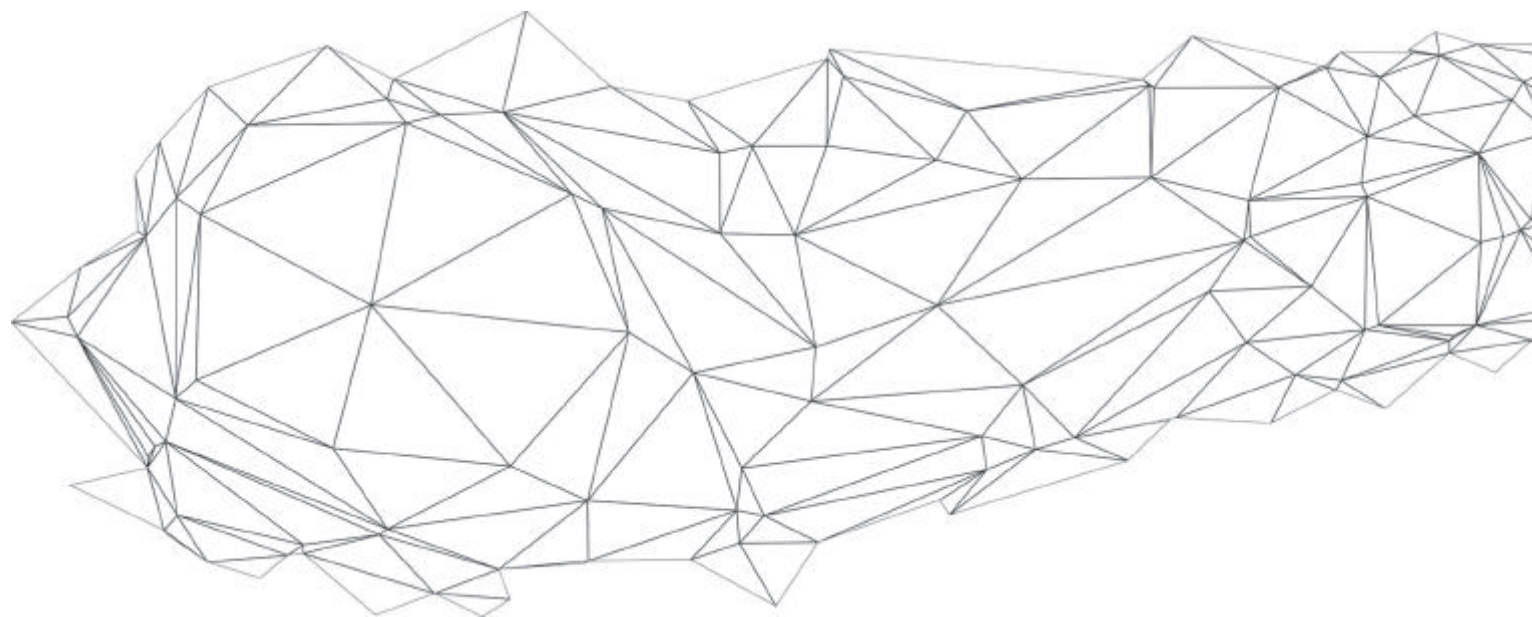
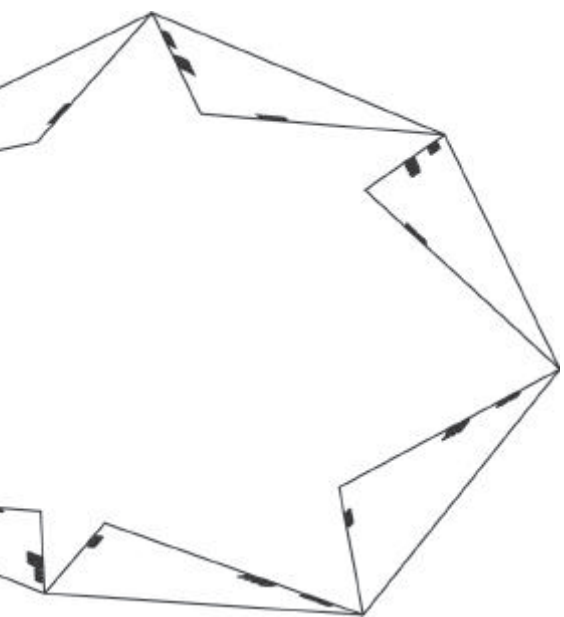


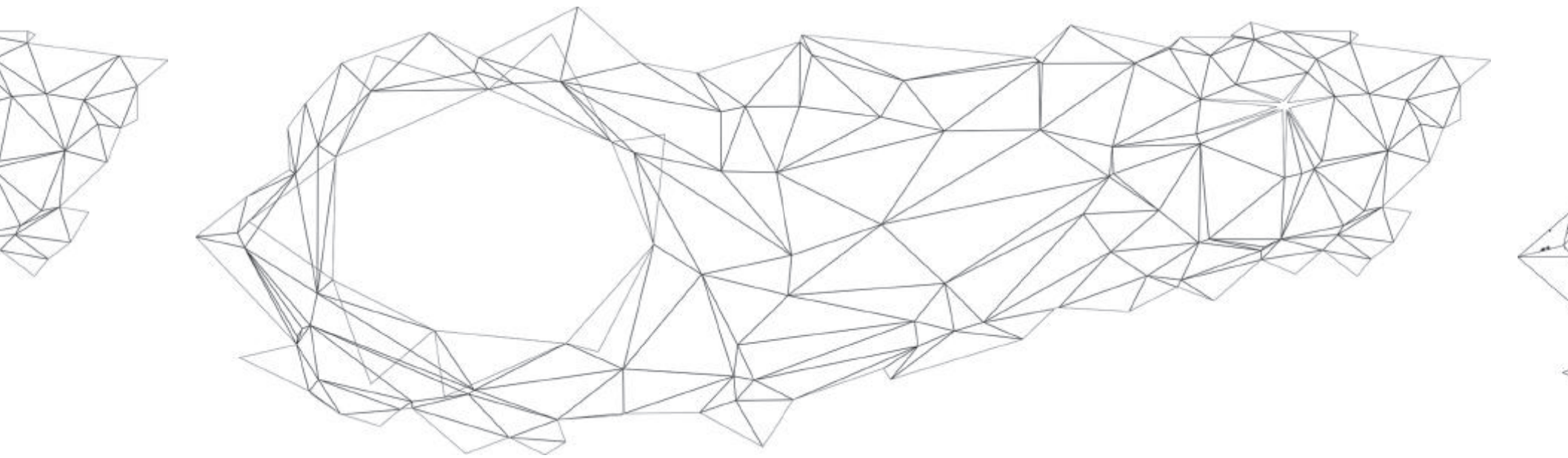


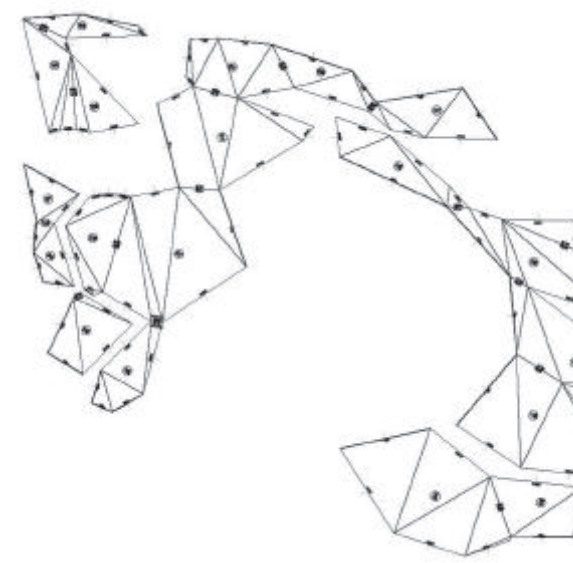
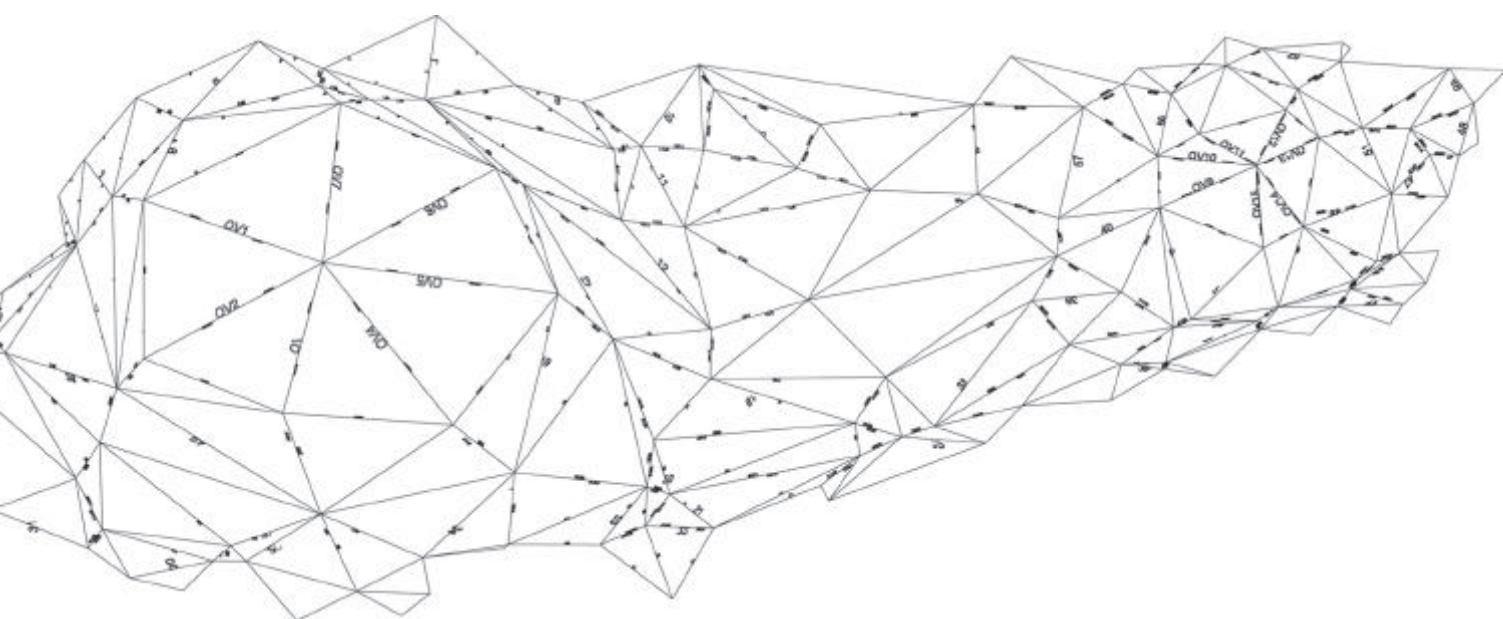


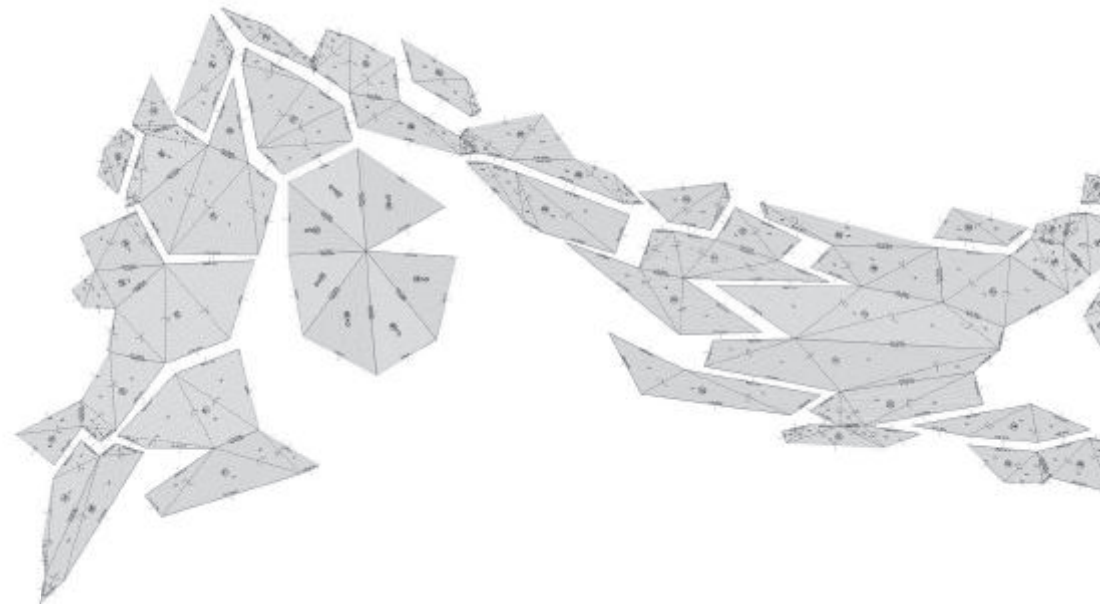
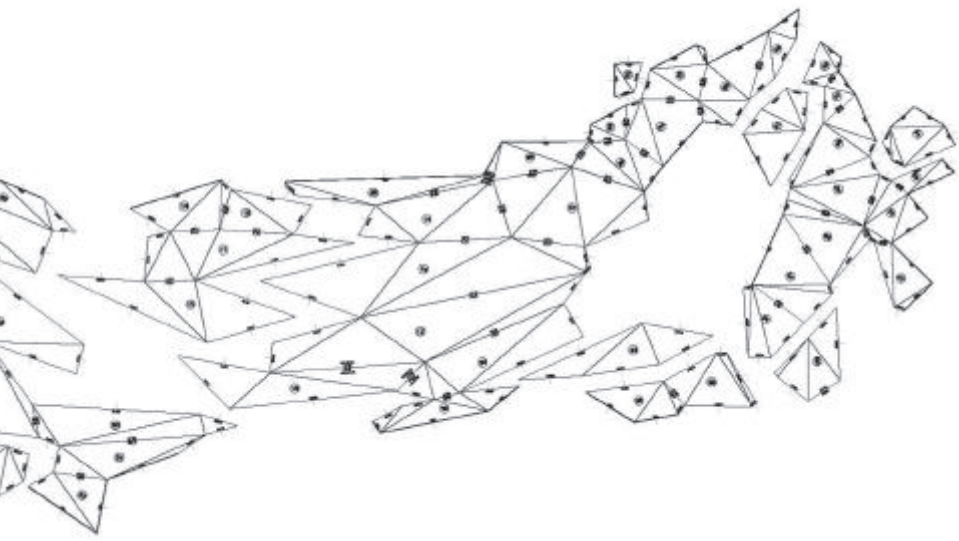


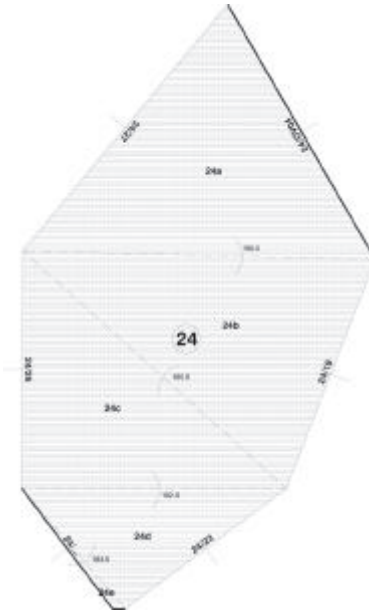
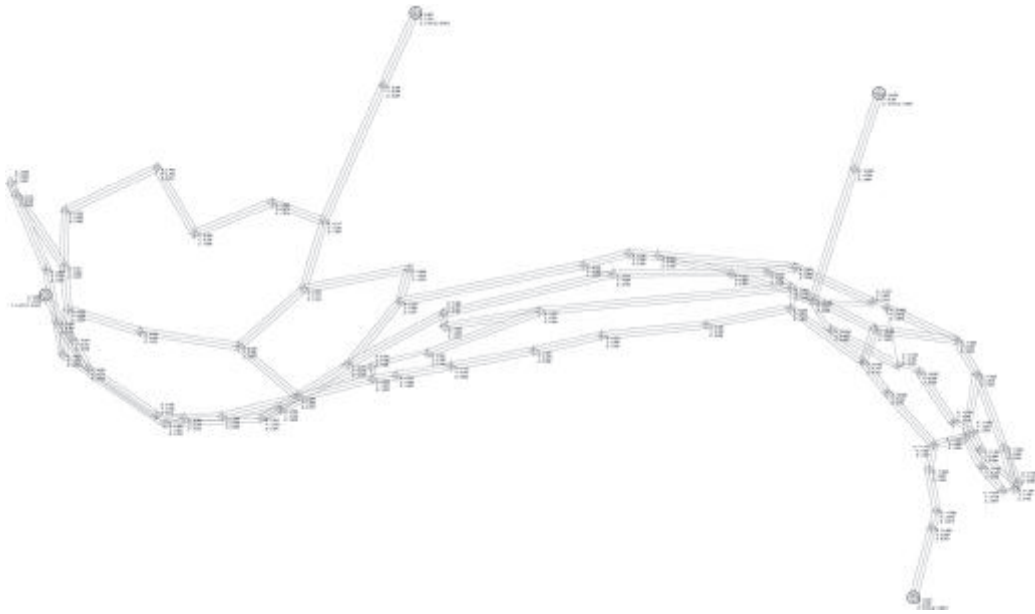


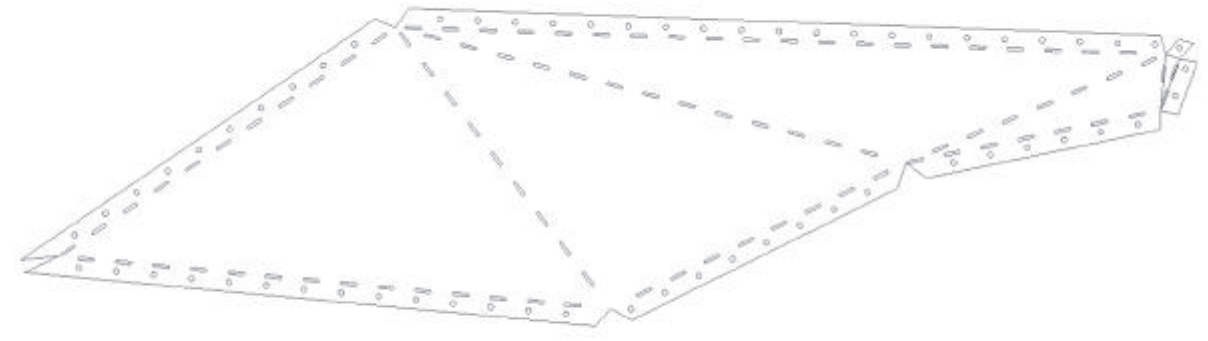
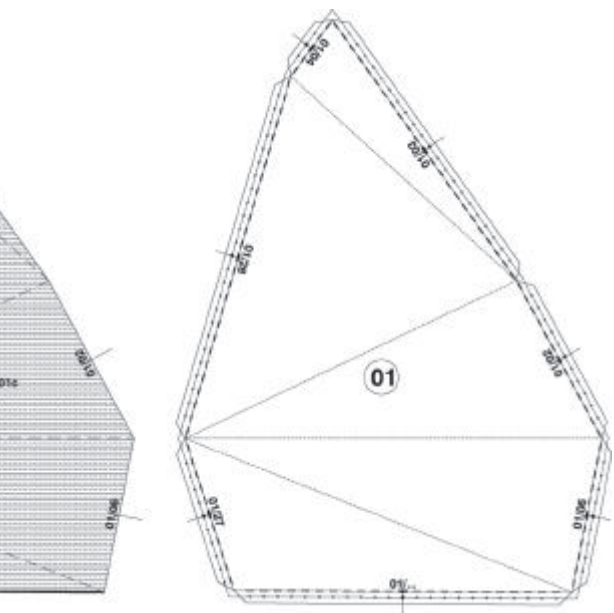


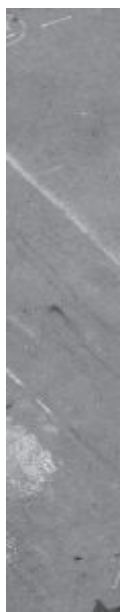


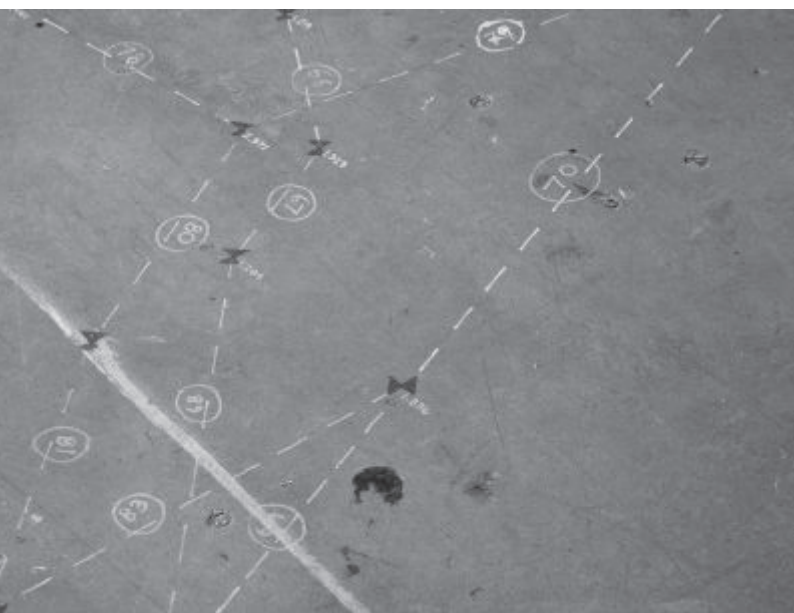




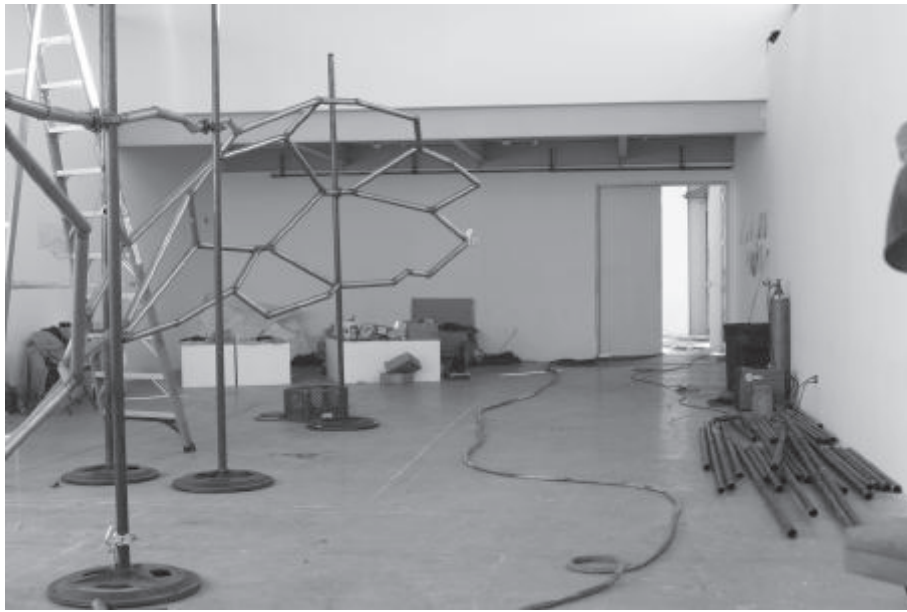






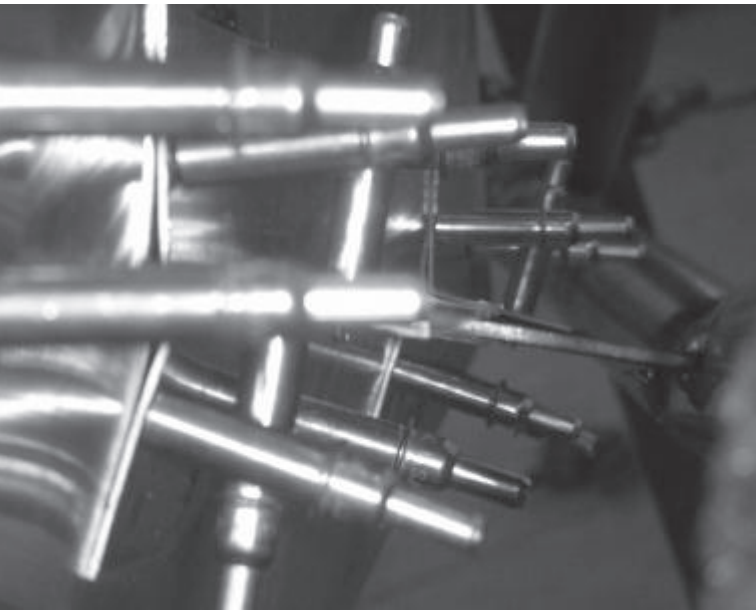








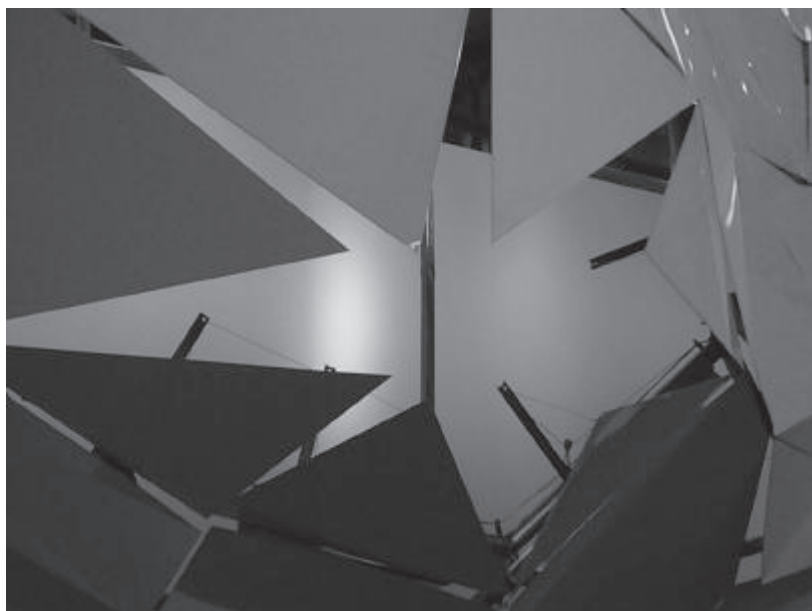






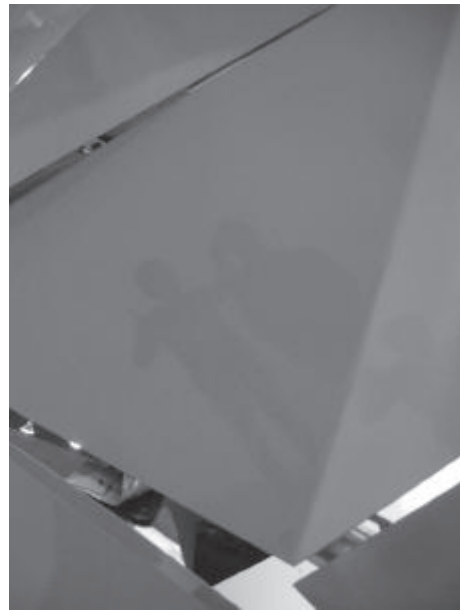


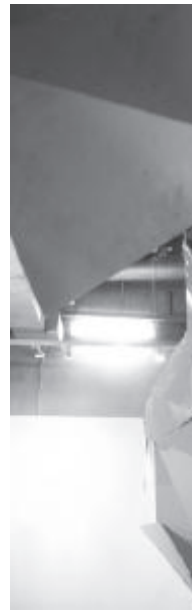












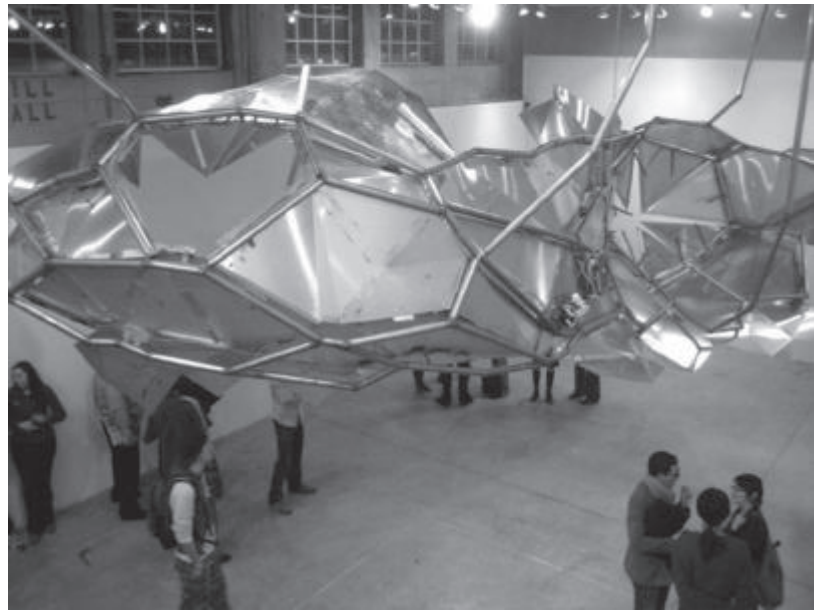
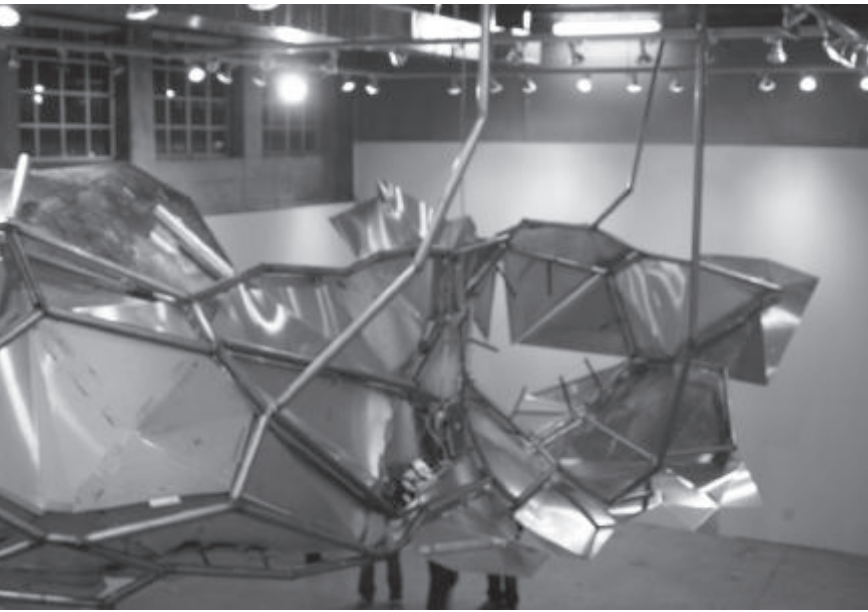










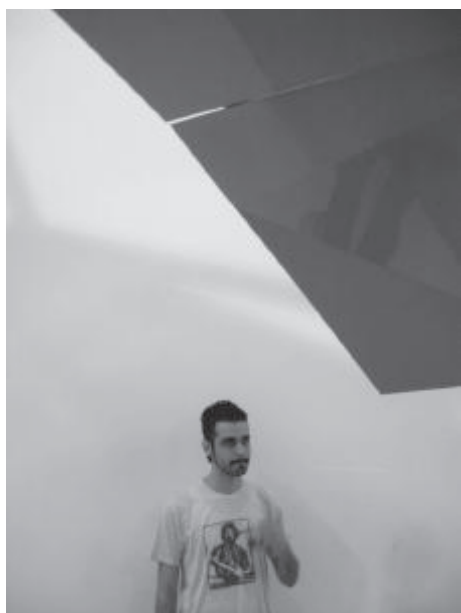




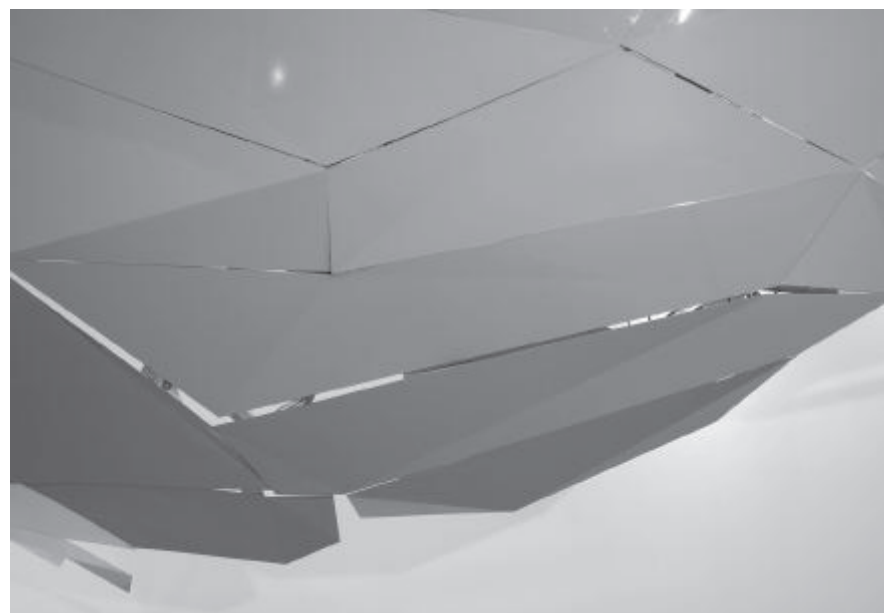
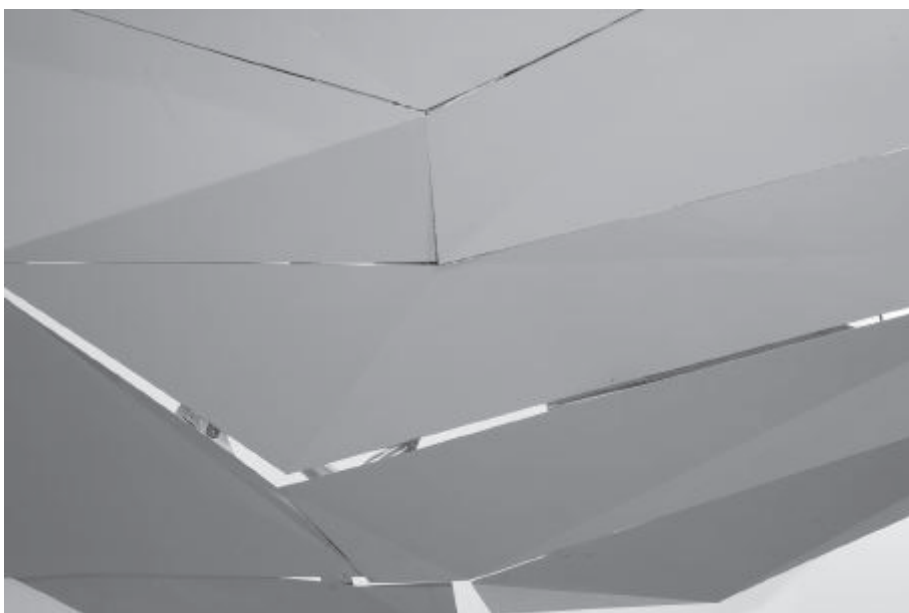


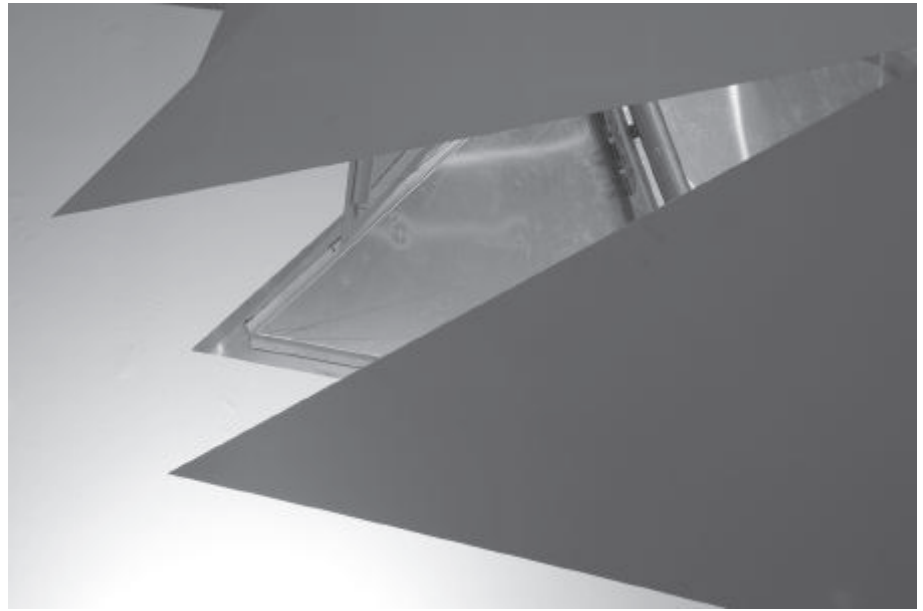
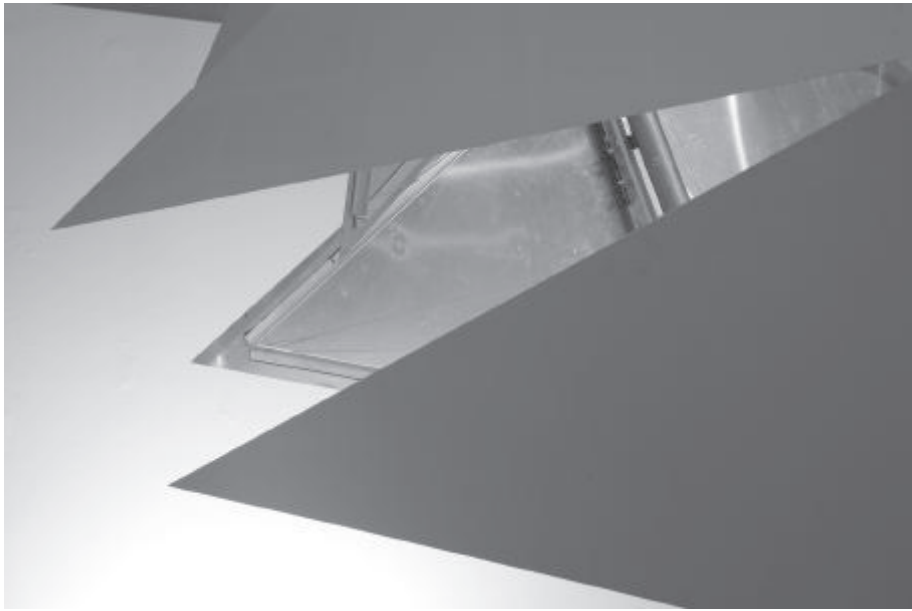


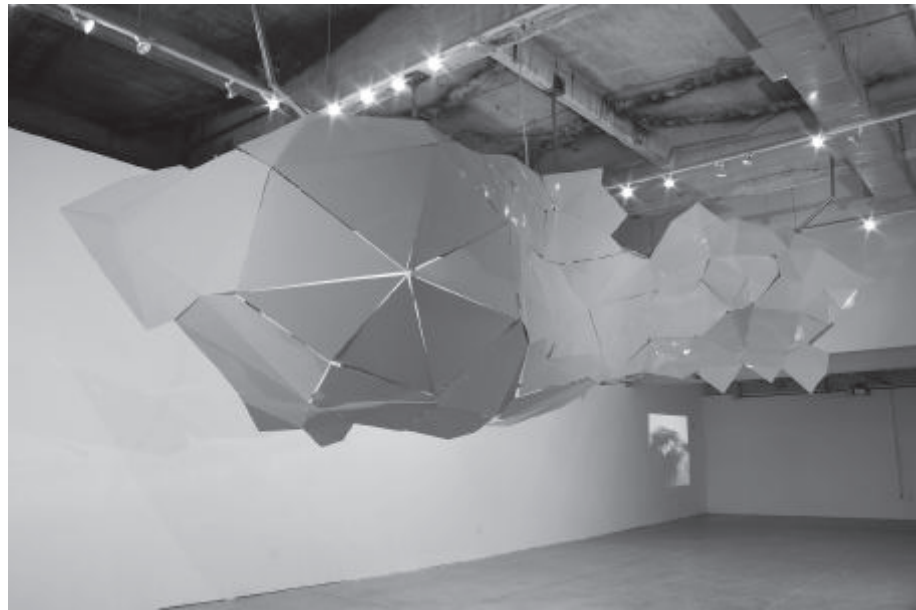
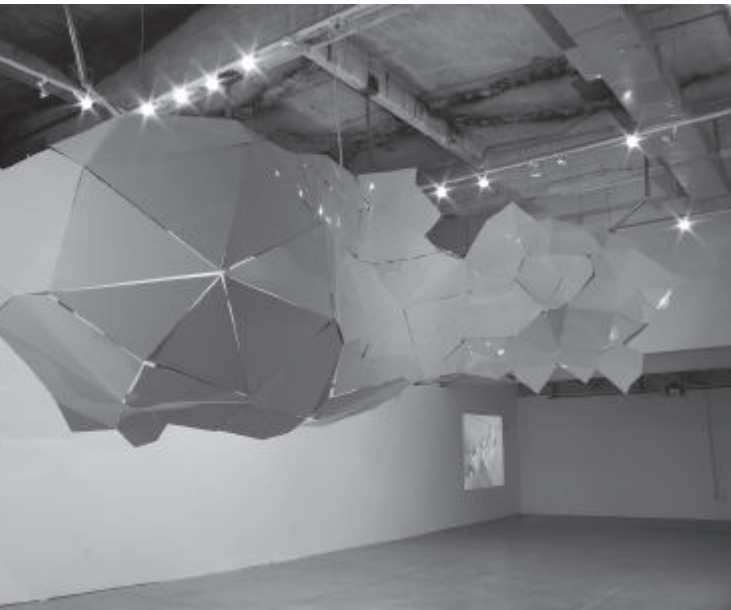


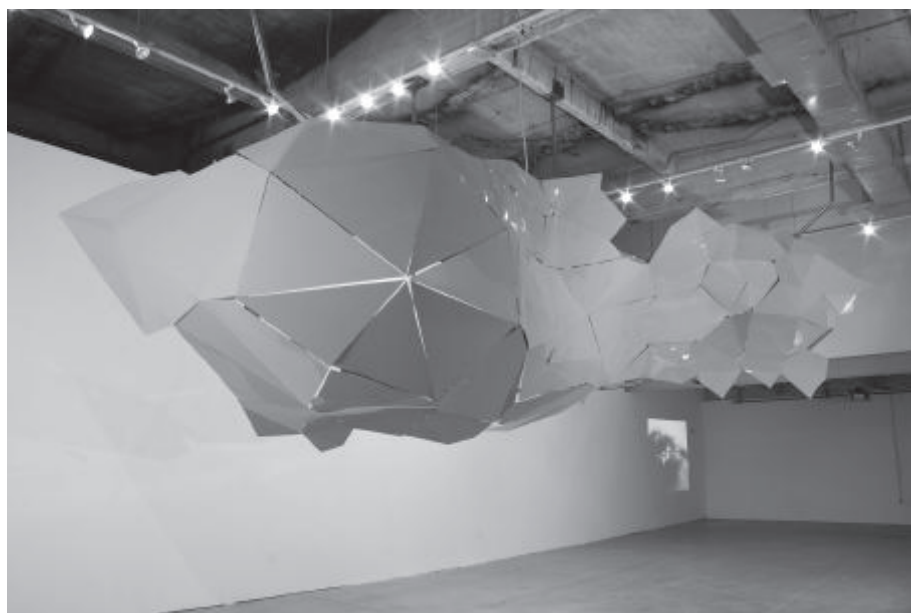


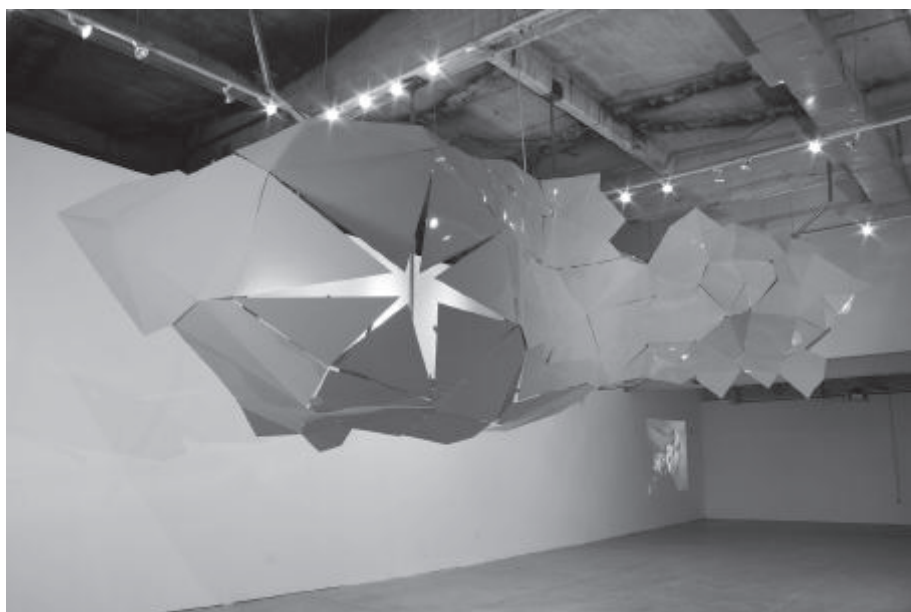


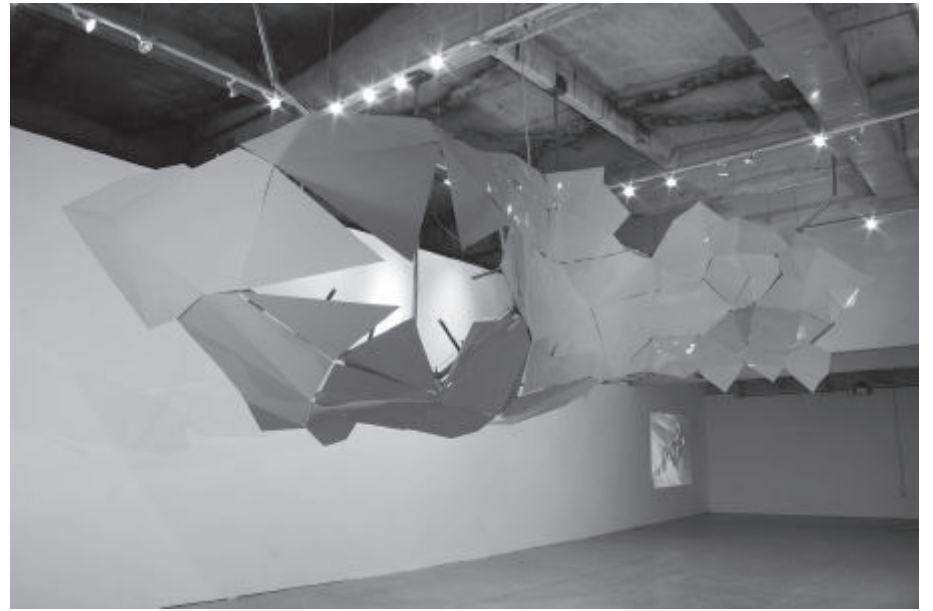








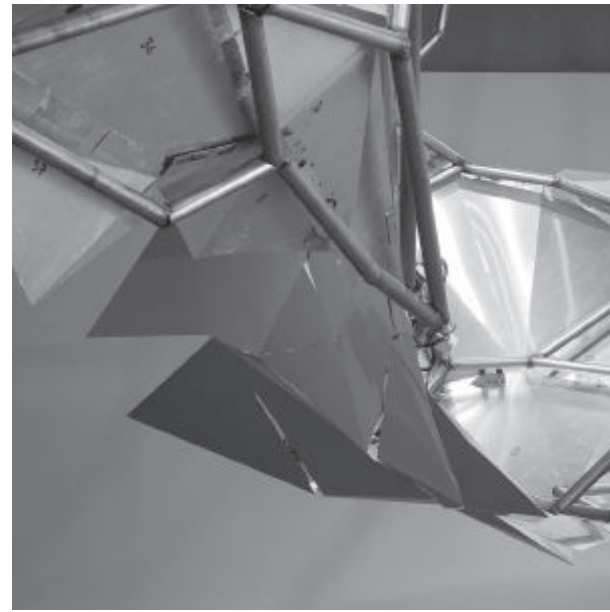
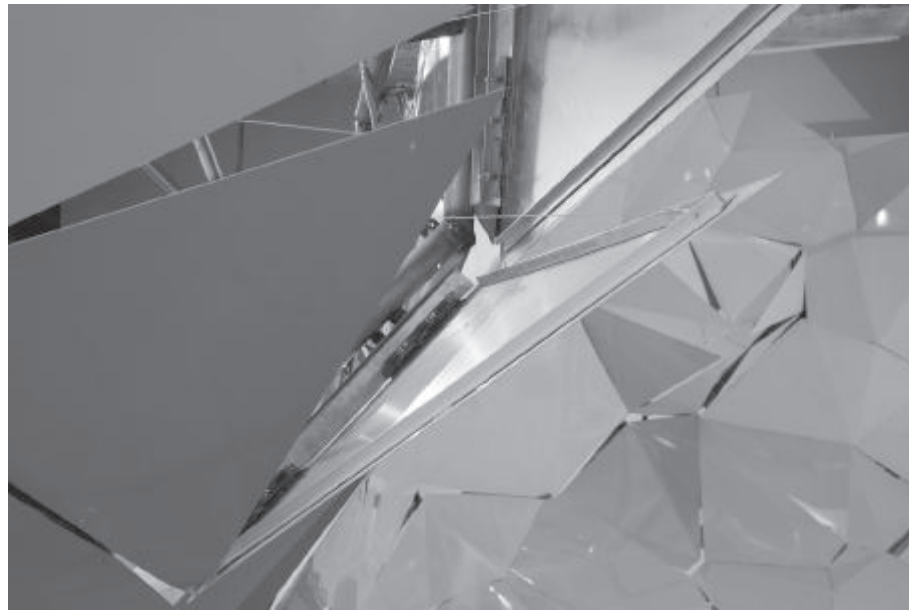


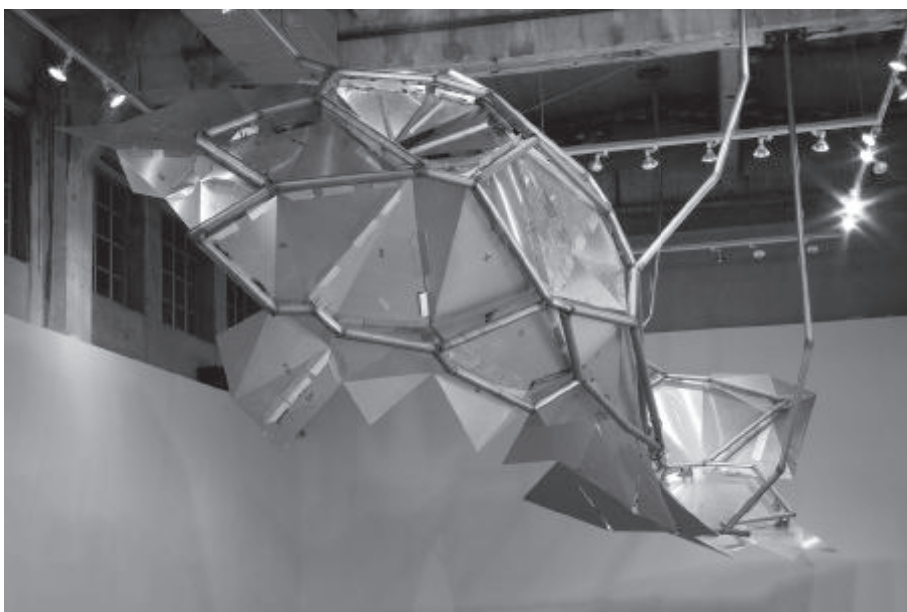








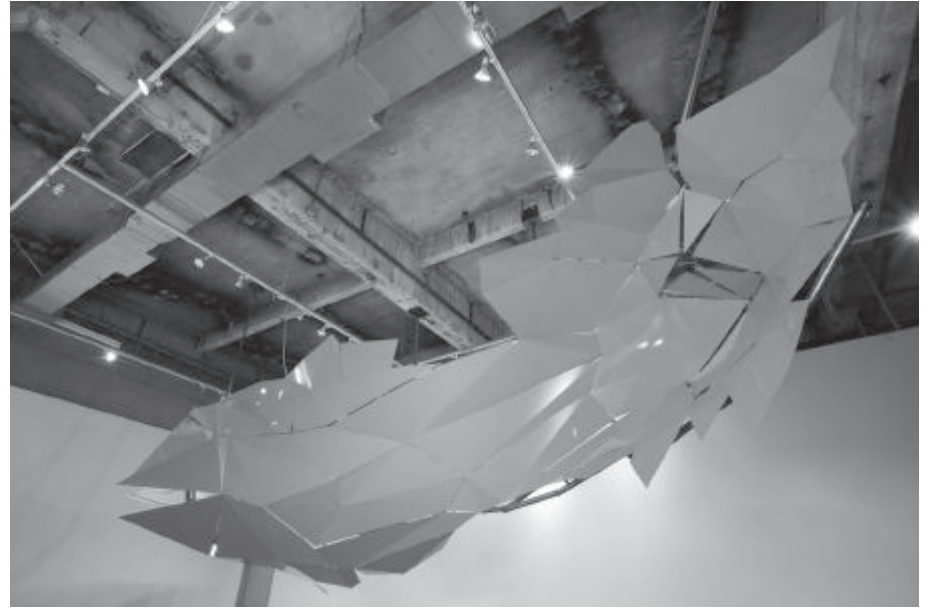
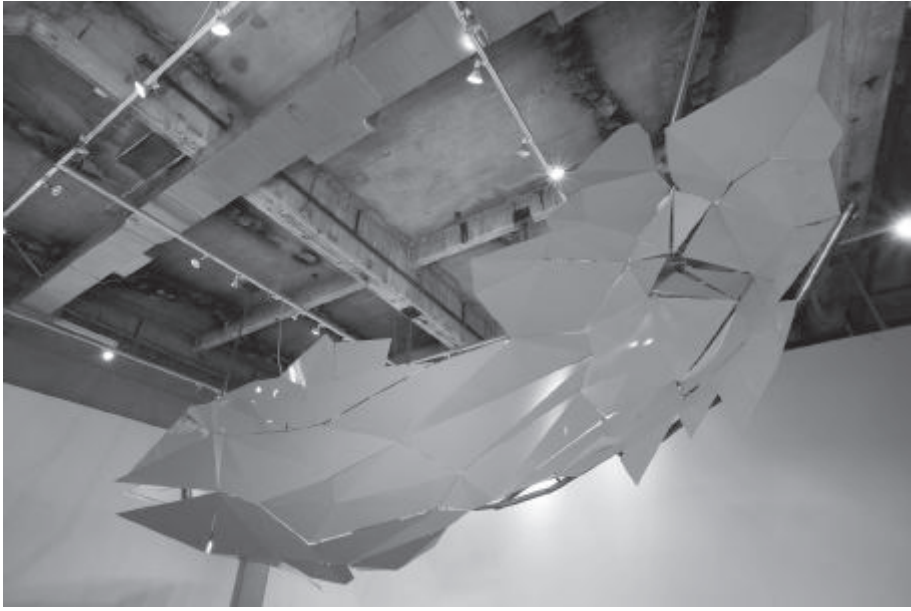


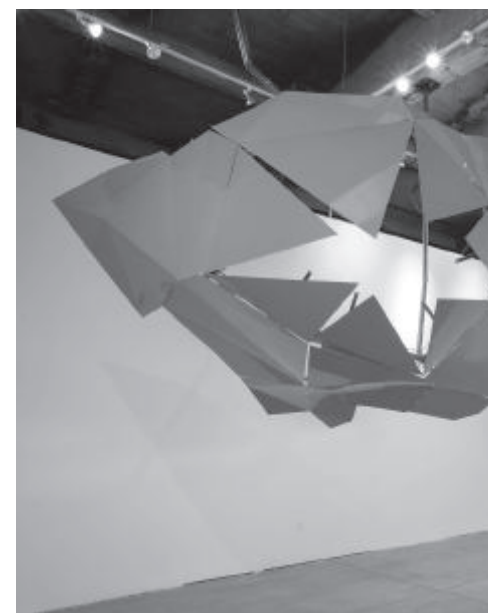
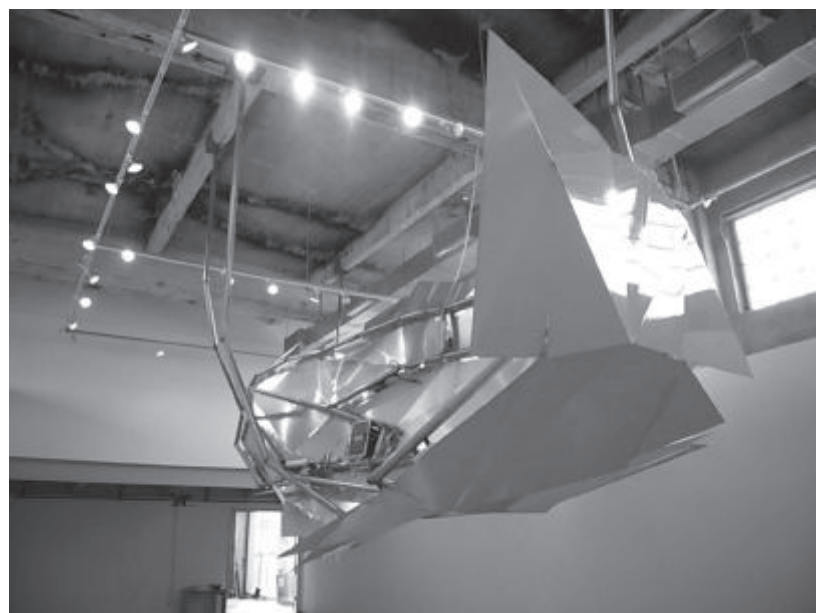


















BREATHING WALL INSTALLATION	SCI-Arc Gallery Southern California Institute of Architecture 960 East 3rd Street, Los Angeles, California 13 December 2006 - 04 February 2007
DESIGN ARCHITECT	Jakob + MacFarlane Dominique Jakob Brendan Macfarlane Jean-Etienne Pernot Rafael Bonet Sébastien Gamelin Philippe Rivat
PROJECT ARCHITECT	Jakob + MacFarlane with 1ab Design Blair Ellis
INSTALLATION SOUND PIECE	Stewart Sperling
ACADEMIC WORKSHOP	Southern California Institute of Architecture Elizabeth Marley - Workshop Coordinator Nancy Alonso Mario Arellanes Martin Dashorst Reid Embrey Kyla Farrell Larry Ha Vanessa Hooper Anthony Lagunay Ben Lepley Takeshi Masuyama Ayaka Matsushita Chad Moore Martin Narval Adria Pauli Ben Smith Can Sucuoglu Sernhong Yu

BREATHING WALL

Conceived as a piece of a much larger architectural environment, the Breathing Wall is imagined as a surface which opens and closes, regulating the passage of such necessities as air circulation, views, physical passage, and sunlight between an interior and an exterior environment. The wall is imagined as an architecture of mediation, a way in which a quality of action/reaction can be manifested in a non static phenomenon, moving and changing according to a set of varying external information parameters.

The thrust of our interest in the kind of exploration that the Breathing Wall presents is that eventually we would like to achieve an architecture that is able to react in such a way that it could become highly responsive and precise to the point that, if we as designers can regulate and be regulated in or around our own personal environment, maybe in turn we can start to design using our own interactions with that of the environment on a larger urban and planetary scale.

The installation has its origins in an earlier, unbuilt project called House H, located on the island of Corsica in France. There we imagined a house that is articulated around a dialogue between the topography and the program. It is a house that dilates over its site according to changes in climate, time of day and season. Created digitally by modelling natural data, House H fits around its terrain, its cells opening and closing in accordance with different kinds of inputs. These include "helioguidance," from the sun or moon; "anemoguidance," from wind coming from the sea by day and from the mountains at night; "deambuloire guidance," from the movement of the human body through the house and landscape.

In this project, we made a digital model of the site topography upon which we then superimposed a surface cloned from the first model. The programmatic elements were introduced between these two virtual surfaces. We then let these elements seep and deform, like living shapes appropriating their environment. The result is a series of cellular spaces appearing on a surface guided by the three-dimensional matrix of the topography.

This exhibition presents our first opportunity to realize and test a real-scale piece of this earlier project. Because the installation is a fragment of a project, we decided to emphasize its relation to the larger project by suspending the piece from the gallery ceiling.

The surface of the Breathing Wall was developed by projecting a set of Voronoï boundaries onto a surface engineered to exhibit simultaneous conditions of convexity and concavity. At the points of maximum deformation, the Voronoï were segmented to produce a pair of apertures that allow a phenomenon of periodic inhalation and exhalation. The remaining Voronoï boundaries were then further tessellated. To provide guidance for the fabrication of developable, perforated and foldable Voronoï panels, the wall is then fabricated in place, using techniques and tooling borrowed from both the automotive and the aerospace industries.

FABRICATION / ENGINEERING
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Infranatural Oliver Hess
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BOOK DESIGN
Jakob + MacFarlane
Kurt Evans
Trevor Ablott

Jakob+MacFarlane is an architectural firm based in Paris, France. Its work explores digital technology both as a conceptual consideration and as a means of fabrication, using new materials as a possibility to create a more flexible, responsive and immediate environment.

Main projects to date include the T House at la Garenne Colombes, Paris, France (1998), Restaurant Georges at the Pompidou Centre, Paris (2000), the reconstruction of the Theatre of Pont-Audemer, France (1999–2000), the Florence Loewy Books by Artists Bookshop in 2001, Maison H project in 2001, the Communication Center for Renault and Maxime Gorki theatre in 2004.

Current projects include the Docks of Paris project, which includes a fashion and design center, and three buildings for the 100 Apartments project in Paris, both due for completion in 2007. Jakob+MacFarlane regularly participate in invited competitions, including the New Media Center (la Gaite Lyrique) in Paris and the new City Center and Casino in Knokke-Heist in Belgium. They have just won the competition for the New FRAC architecture exhibition center in Orléans, a Dance and Music Conservatory in Noisy-le-Sec and two buildings on the Docks of Lyon.

Their projects have been exhibited at the Victoria & Albert Museum (London, 2003), SFMOMA (San Francisco, 2004), the Museum of Architecture (Moscow, 2000), Artists Space (New York, 2003), Carnegie Melon (USA, 2001), the Mori Art Museum (Tokyo, 2004), at the MOCA in LA (Skin+Bones exhibition), the Pompidou Center, the Pavillon de l'Arсенal (Paris), and at the Orléans/ArchiLab International Architectural Exhibitions and Conferences (1999, 2001, 2003) and a personal exhibition at the FRAC of Orléans in 2005. Jakob + MacFarlane were among the architects selected by France for the 2002 Venice Architecture Biennale, and in the international 2004 selection.

Dominique Jakob received her degree in art history at the Université de Paris 1 (1990) before obtaining her degree in architecture from the Ecole d'Architecture Paris-Villemin (1991). She has held teaching positions at the Ecole Spéciale d'Architecture in 1998–99 and at the Ecole d'Architecture Paris-Villemin since 1994.

Brendan MacFarlane received his B.Arch degree from the Southern California Institute of Architecture (1984), and his M.Arch degree from the Harvard Graduate School of Design (1990). He has held teaching positions at the Bartlett School of Architecture in London (1996–98), at the Ecole Spéciale d'Architecture in Paris (1998–99), at SCI-Arc (2006) and at various other schools.

BREATHING WALL

JAKOB + MACFARLANE

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In addition to this book a limited edition multiple by the artist
is available from onestar press.

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