



tensile architecture

international student workshop

Lyon 2011



international student workshop

Ecole Nationale Supérieure d'Architecture
de Montpellier, France

Ecole Nationale Supérieure d' Architecture
de Nancy, France

Ecole Nationale Supérieure d' Architecture
de Grenoble, France

Lyon 2011

School of Architecture, HTW/
University of Applied Sciences, Germany

University of Applied Sciences, Saarbrücken
School of Architecture

1st edition 2011

index

1. preface

2. programme

3. teachers

4. students

5. workshop

6. foil design

7. study trip

- Firmingny, Le Corbusier

- Lyon, Le musée gallo-romain

- Ronchamp, Le Corbusier

- St. Etienne, centre du design

8. studies

9. projects

- l'arkymétire

- dou-li

- gramophone

- focus

- devil fish

preface

Several years ago, the cooperation between the ENSA Nancy, France and the HTW Saarbrücken, Germany started in the field of Light Weight Structures. Last year two more partners from France joined the cooperation ENSA Grenoble and ENSA Montpellier for a joint workshop on Membrane Structures, held in March 2011 at the 'Grands Ateliers' in Lyon, France. The purpose of this year workshop was the modelling and construction of large scale membrane constructions with special focus on the realisation of models.

During the one week workshop colleagues and students from the four participating European Universities worked closely together at the 'Grands Ateliers'. This location is perfectly equipped and designed for hosting workshops oriented towards the main purpose of the 'Grands Ateliers' which is experimental constructing. The Region Rhônes-Alpes has set up the 'Grands Ateliers' for Universities in the greater region to enhance innovation in construction methods and modelling.

On the way to Lyon the participating workshop members had the opportunity to visit several examples of Modern Architecture this year focussed on the work of Le Corbusier.

programme

international student workshop, architecture of tensile constructions
ENSAmontpellier, ENSA Nancy, ENSAgrenoble, HTWsaar

date: 21st march to 25th march 2011

site: everywhere outside like inside

project: the design and realisation processes of the Tensile Architecture are the heart of the training.
Theoretical aspects of Form Finding, Pre-dimensioning as well as Cutting Pattern are presented.
Afterwards there is an application in physical reality with small model experiments and scale 1 to 1
realisation for a textile structure with free purpose.

objectives: the purpose of this training, is to give theoretical and practical basics of the textile and cable nets
building design. Each step of the design process is clearly described in order to overcome the complexity and allow the students to use these new design tools directly in an architectural practice.
The proposed experiments use the professional materials in order to well understand the specific knowledge needed by the company technicians.

participants: 26 students of the ENSA Grenoble
22 students of the ENSA Nancy
6 students of the HTW Saar

teams: mixed

teachers: ENSA Montpellier: Nicolas Pauli
ENSA Grenoble: Olivier Bavarel
ENSA Nancy: Daniel Gross
HTW Saar: Klaus Köehler

studio: Les Grands Ateliers de l'Isle d'Abeau, Villefontaine

equipment: all provided by Les Grands Ateliers

material: all provided by Les Grands Ateliers



teachers





Prof. Nicolas Pauli, ENSA Montpellier



Prof. Klaus Köehler, HTW Saar

Prof. Daniel Gross, ENSA Nancy



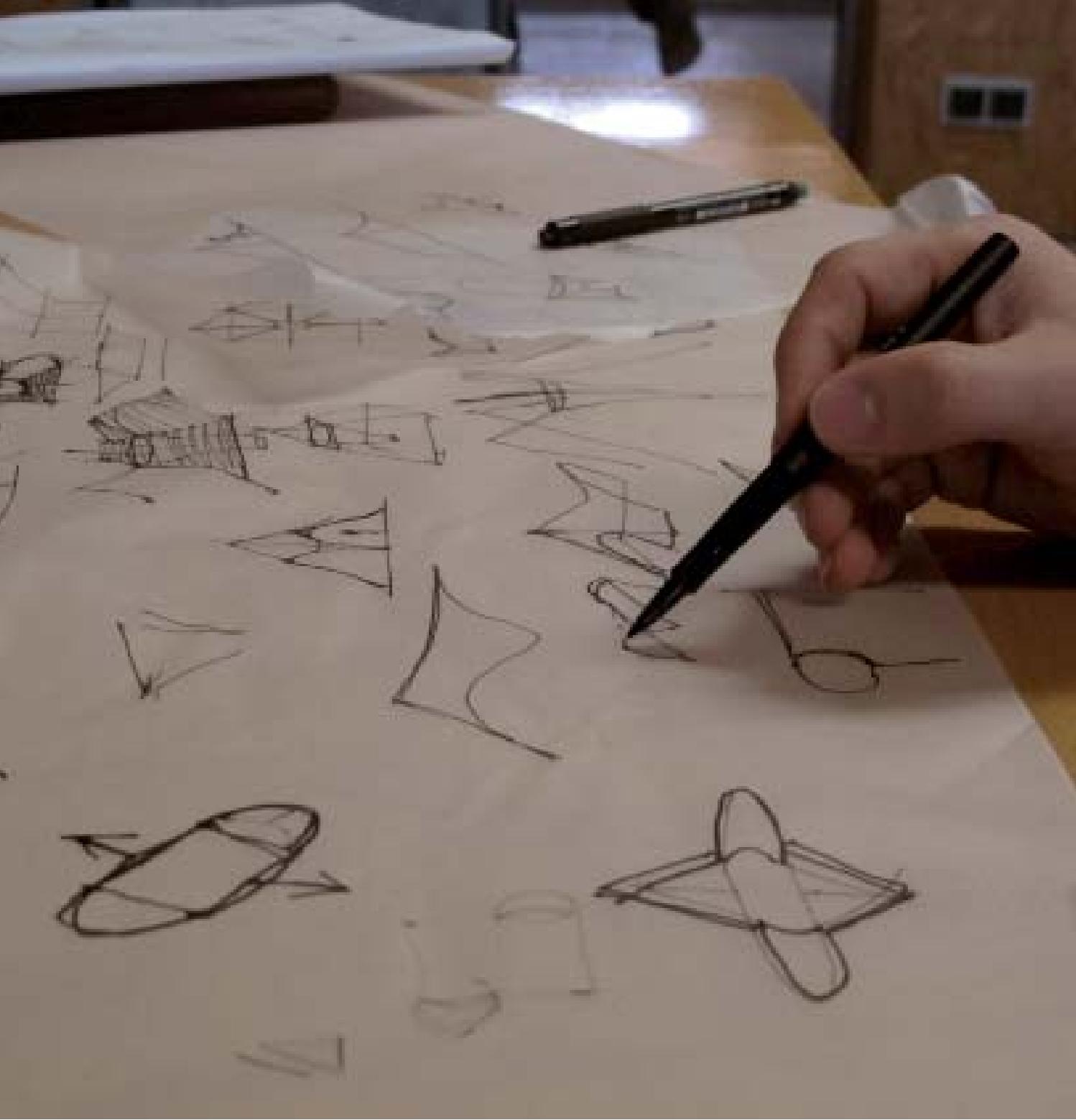
Prof. Olivier Baverel, ENSA Grenoble





students

Bessières Guillaume	Grenoble	Bergmann Benjamin	Saarbrücken
Blanc Caroline	Grenoble	Bolmer Marianne	Saarbrücken
Blaser Yannick	Grenoble	Hafner Sina	Saarbrücken
Bugaud Delphine	Grenoble	Pery Phillippe	Saarbrücken
Challier Marielle	Grenoble	Pablo Fernandez	Saarbrücken
Chavanne Antoine	Grenoble	Zibell Nadine	Saarbrücken
D'Andrea Ariane Paero	Grenoble		
De Francesco Gaetano	Grenoble		
Delduque Gabriel Martins	Grenoble	Barthelemy Guillaume	Nancy
Demeure Damien	Grenoble	Bendezu Rayner	Nancy
Duarte Azevedo Eduardo	Grenoble	Brunello Joanna	Nancy
Faye Florent	Grenoble	Campos Alcaraz Ignacio	Nancy
Fournier Carole	Grenoble	Cecchin Guillaume	Nancy
Gras Alice	Grenoble	Colombo Pauline	Nancy
Grimal François	Grenoble	Desenclos Quentin	Nancy
Jacquet Fanny	Grenoble	Gozzo Gabriel	Nancy
Jansem Olivia	Grenoble	Hernandez Guillermo Coline	Nancy
Lahitette Larroque Lydie	Grenoble	Halin Quentin	Nancy
La Rosa Chloé	Grenoble	Leyva Perez Sara	Nancy
Li Hanyu	Grenoble	Maillot Julien	Nancy
Martin Marielle	Grenoble	MonteiroDany	Nancy
Mekki-Berrada Amine	Grenoble	Moyano Garcia Isabel	Nancy
Paperin Noémie	Grenoble	Oughlissi Dounia	Nancy
Rigard Hugo	Grenoble	Quiroz Karina	Nancy
Stel Benoit	Grenoble	Peraro Lionel	Nancy
Tamas Simona	Grenoble	Risse Anthony	Nancy
		Seyedy Mitra	Nancy
		Tonin Maxime	Nancy
		Welsch Clemence	Nancy
		Zieger Florian	Nancy

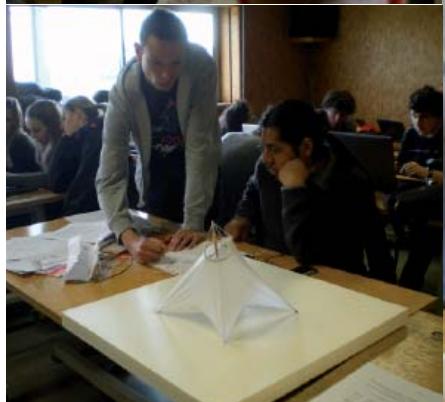
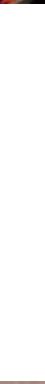




1st day







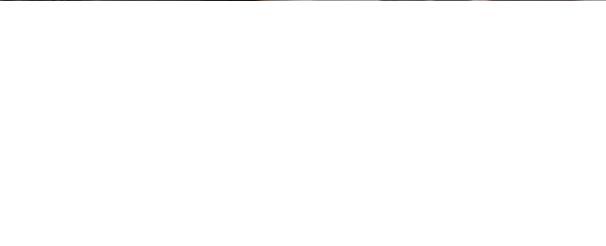
2nd day





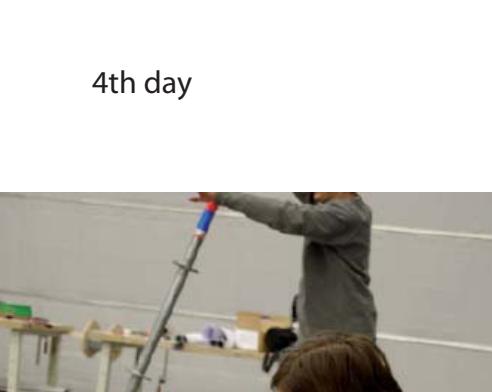
3rd day



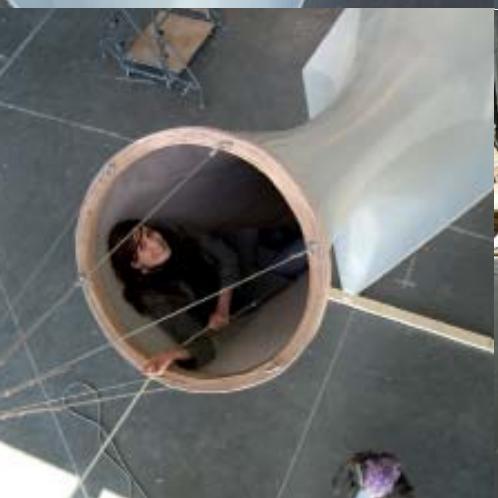




4th day







5th day





all together





Firminy
Le Corbusier





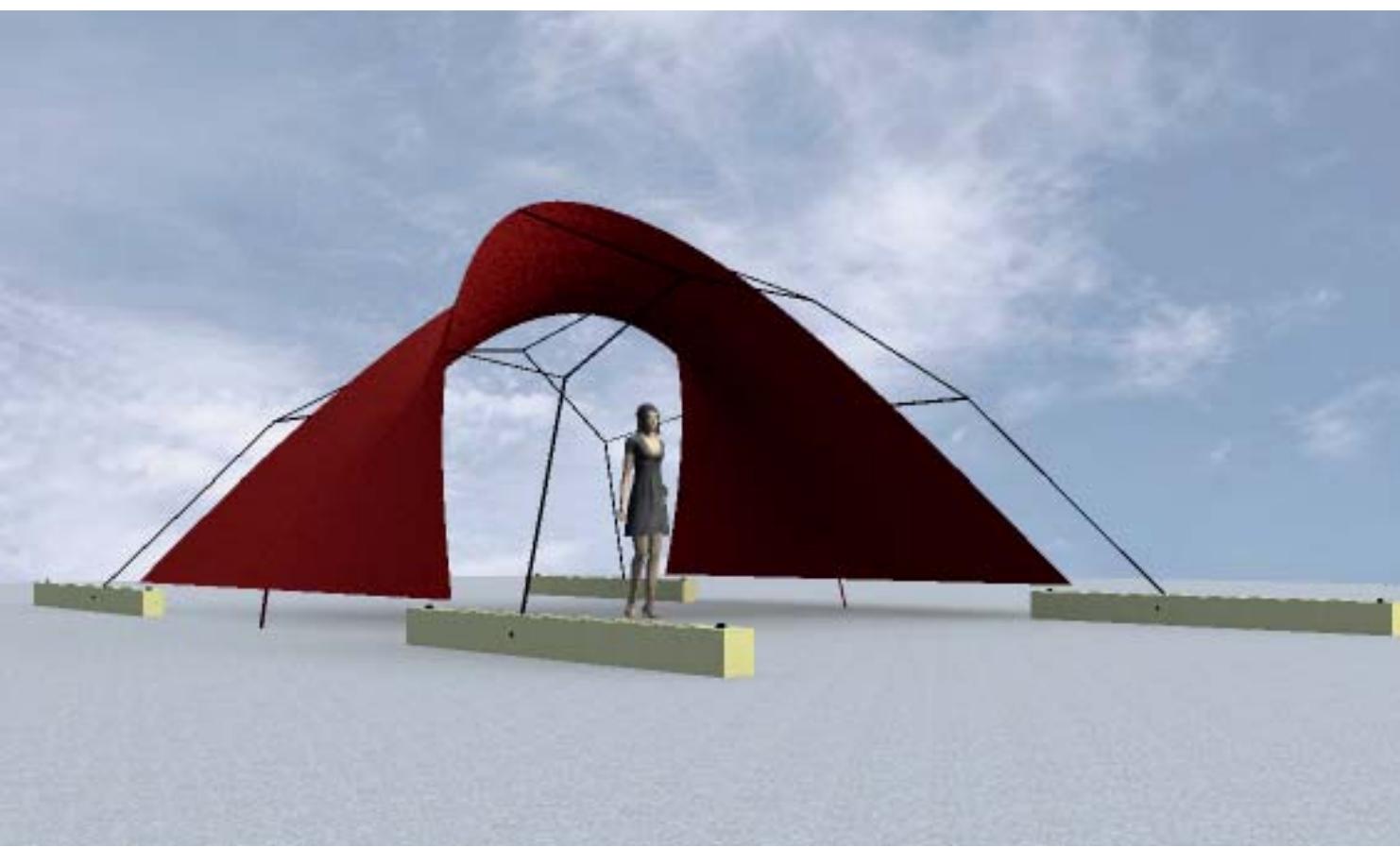
Lyon
Musée
Gallo-romain

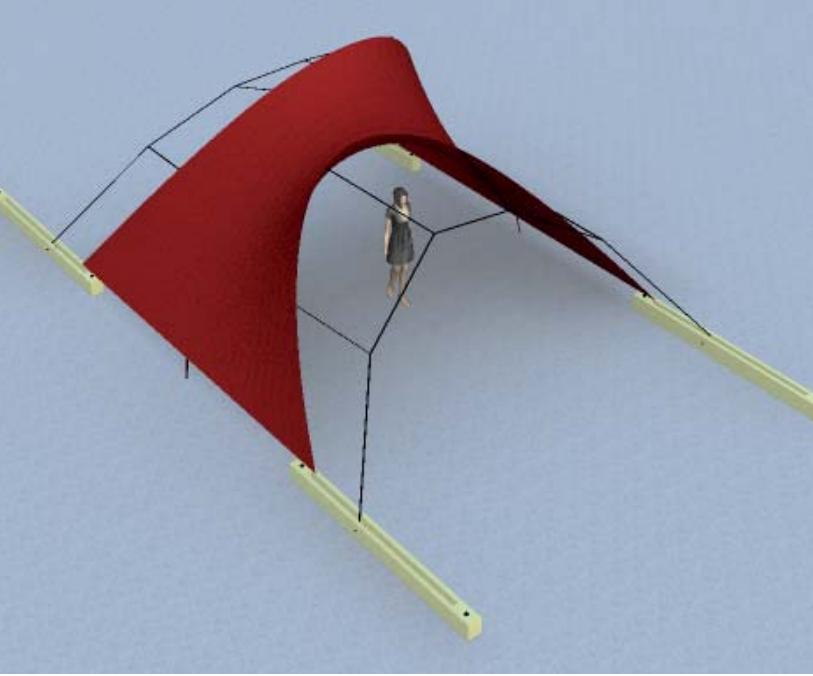




St. Etienne
Centre du design

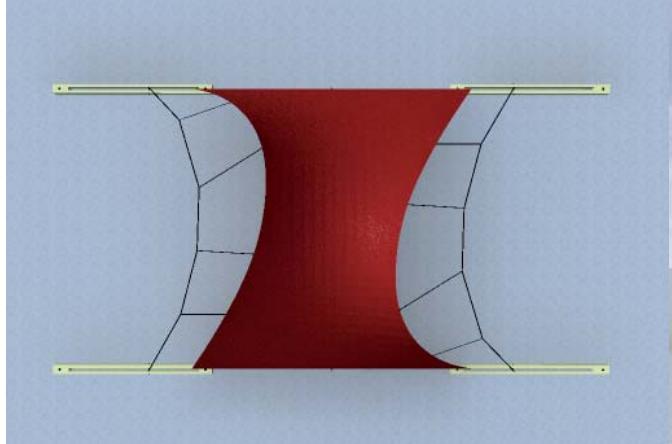


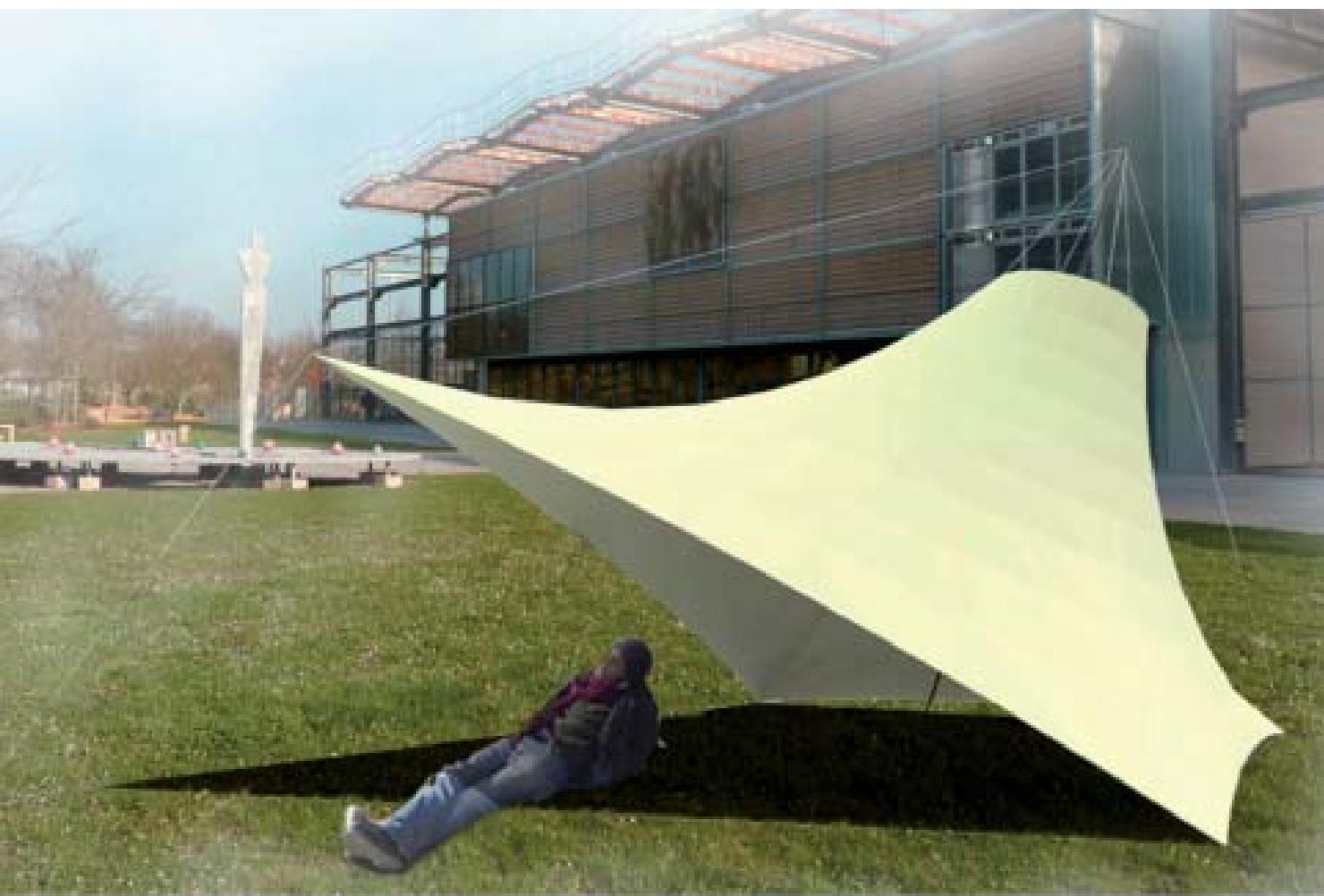


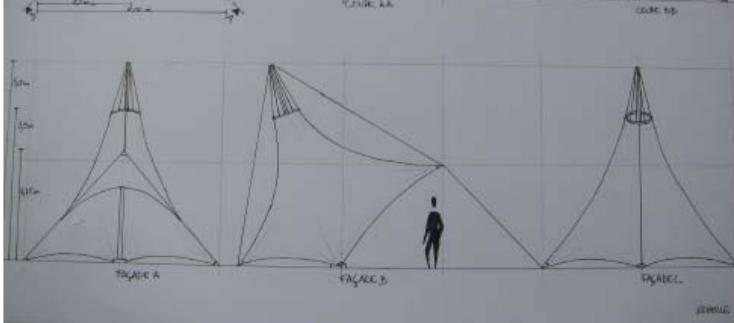


groupe A - l'arkymétrie

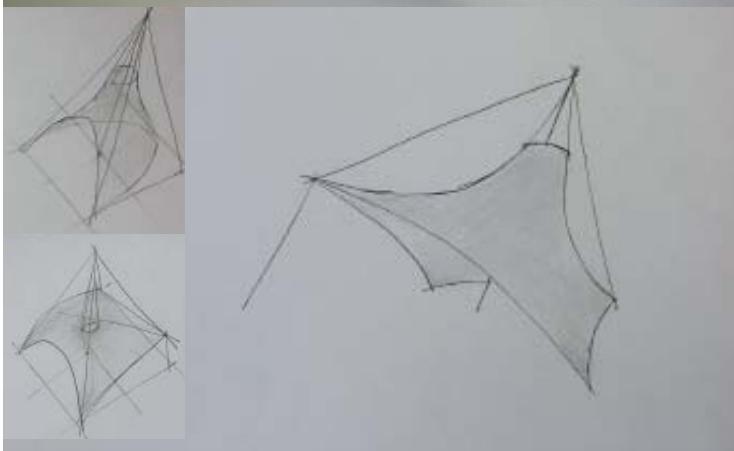
jacquet fanny
colombo pauline
mekki-berrada antoine
monteiro dany
hafner sina







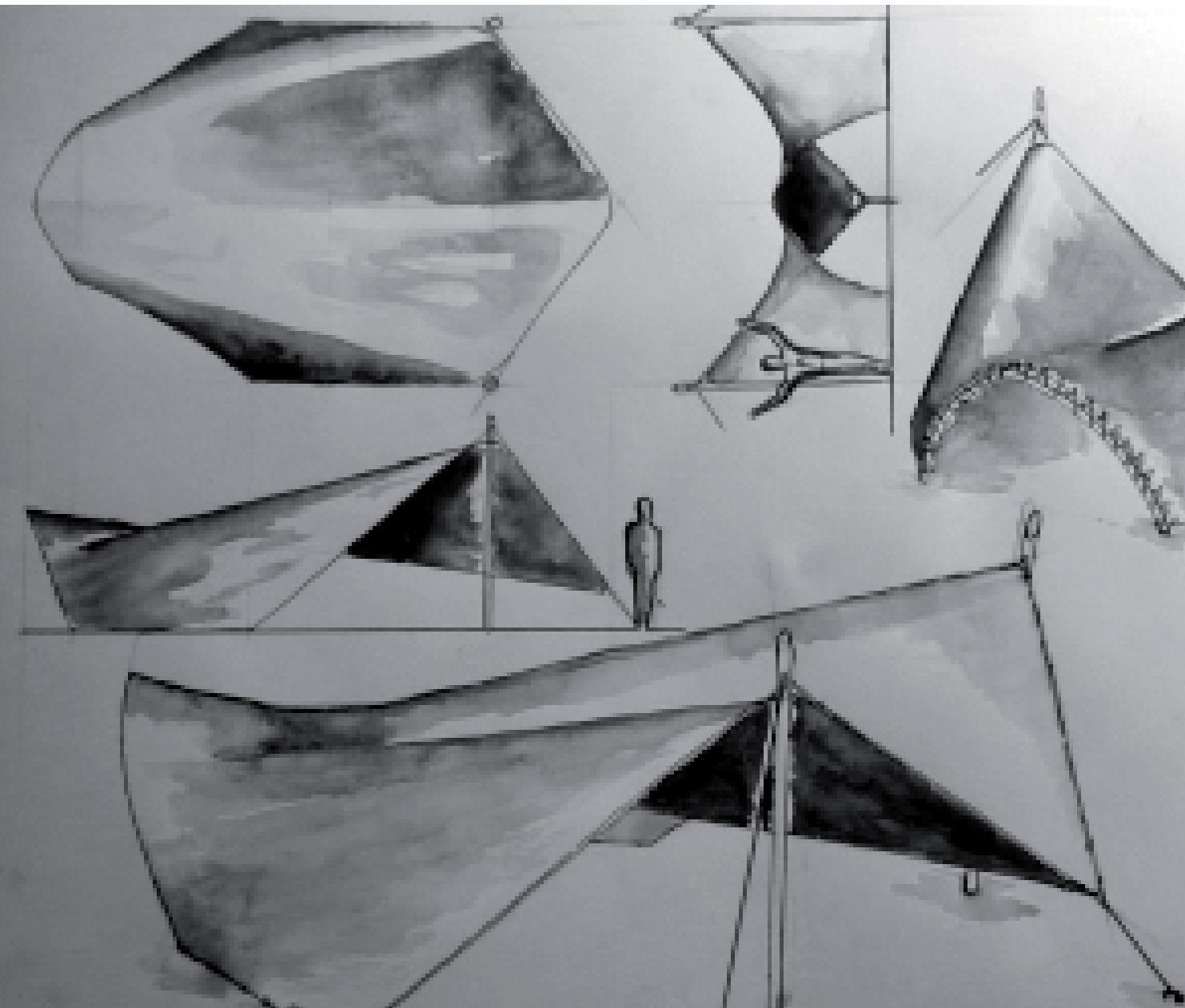
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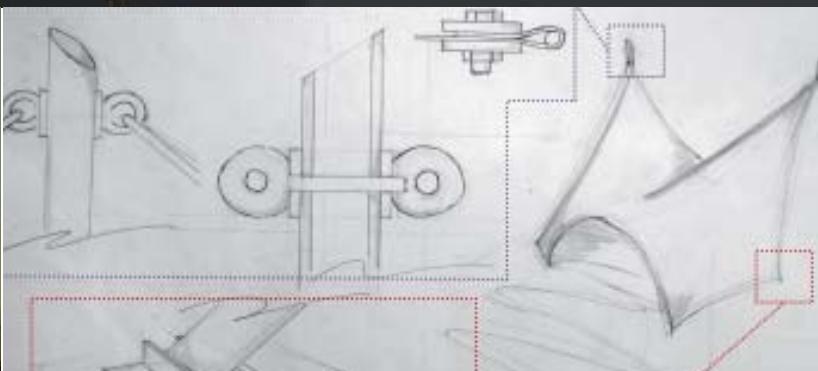
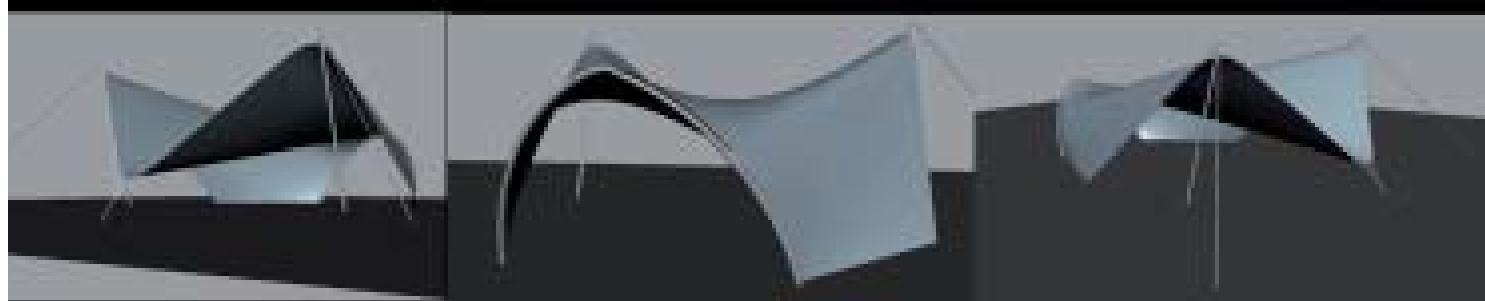


groupe B - Dou Li

seyedy mitra
fernandez juan pablo
d'andrea ariane
lahitette lydie
bendezu rayner

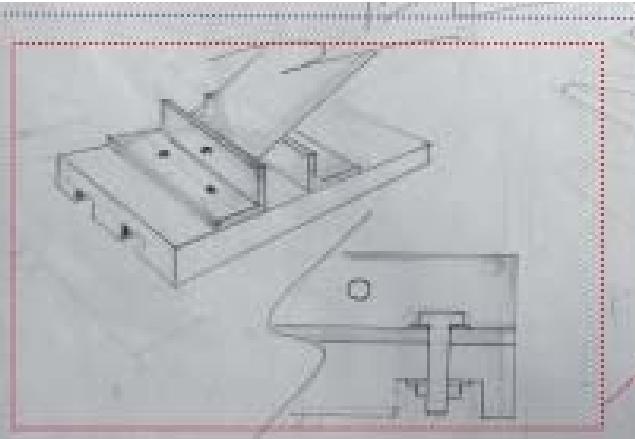


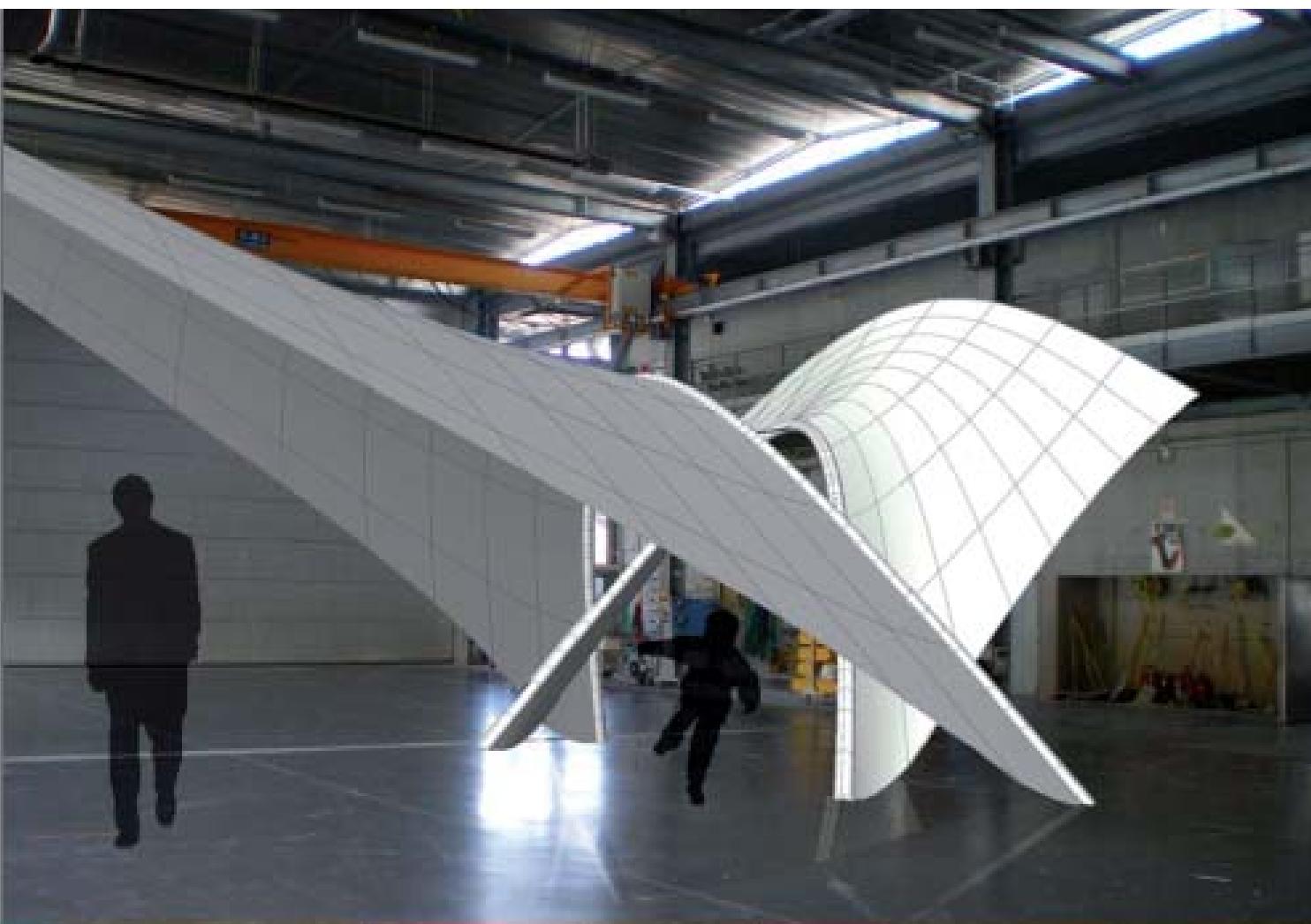


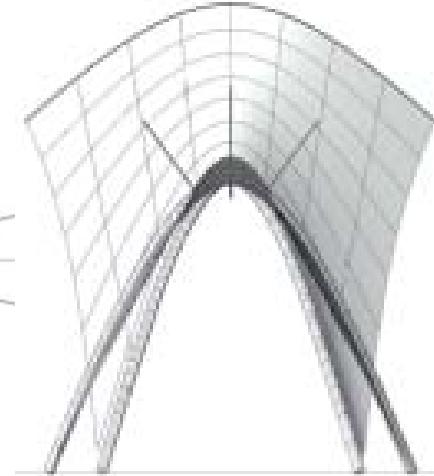
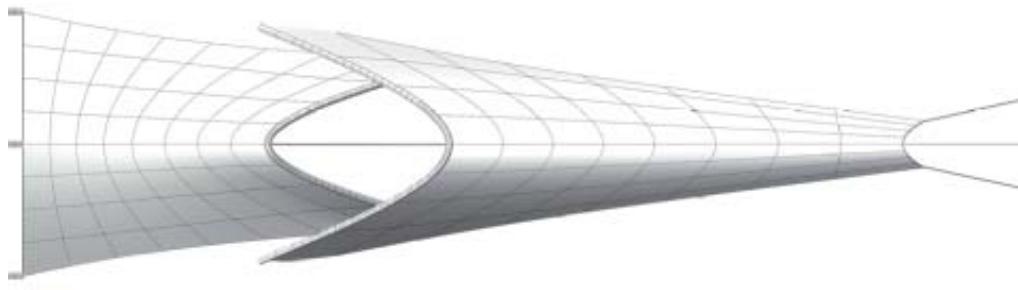


groupe C - 6lys

risse anthony
stel benoit
azevedo eduardo
rigard hugo
peraro lionel
brunello joanna

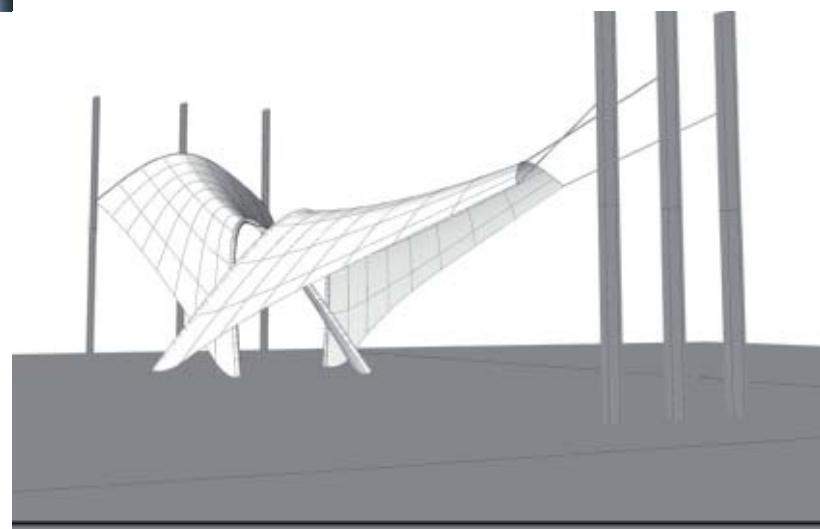




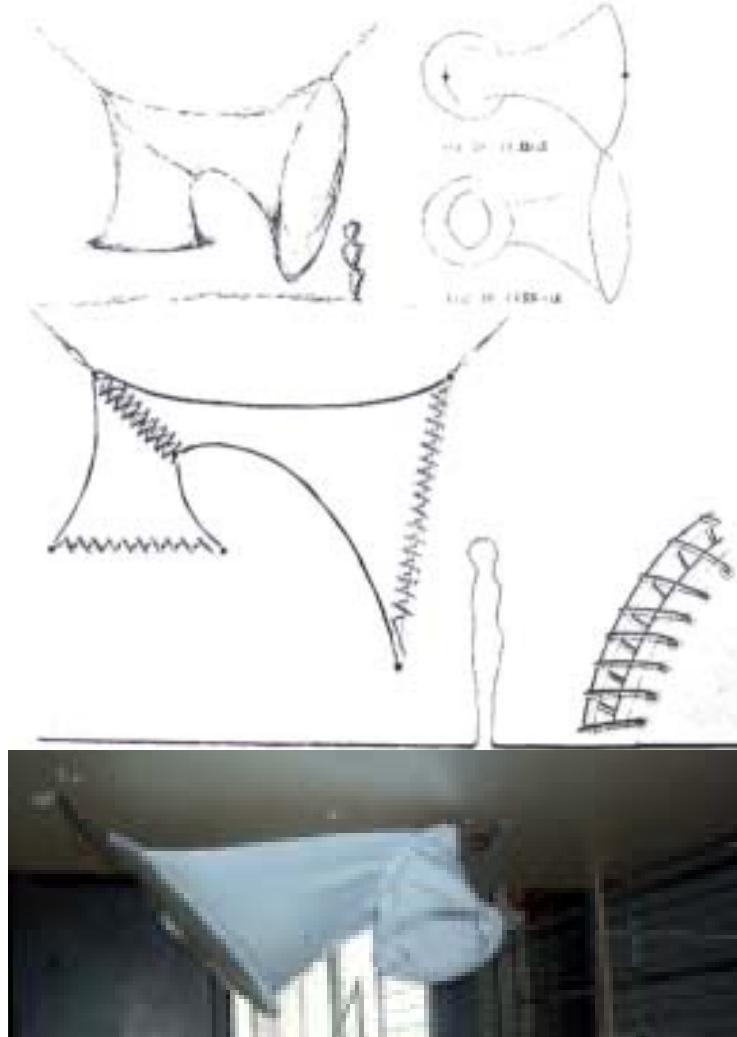


groupe D - axel

delduque gabriel
gras alice
halin quentin
maillot julien
thuiller diane
li hanyu







groupe E - gramophone

bergmann benjamin
jansem olivia
la rosa chloé
leyva pèrez sara
moyano garcia isabel
blanc caroline

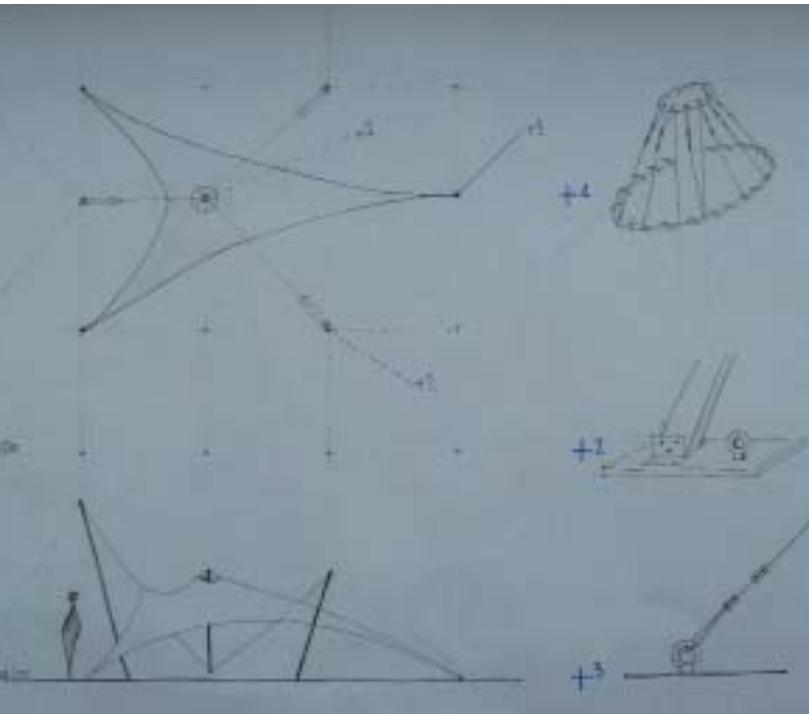




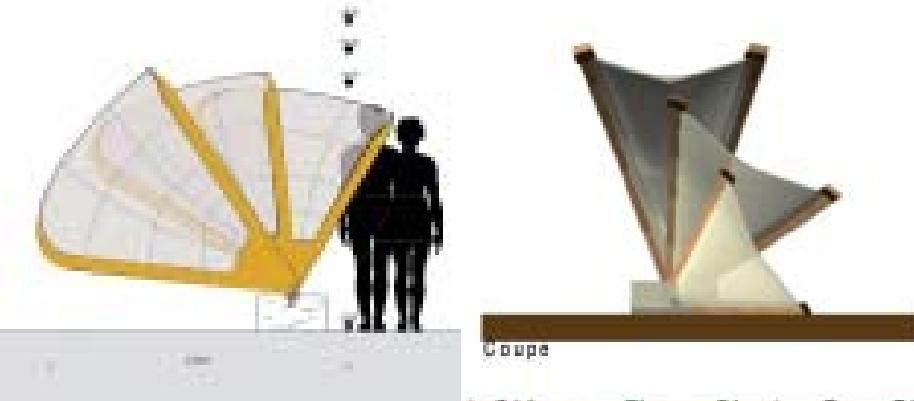


groupe F - de2tensions

barthelemy guillaume
gozzo gabriel
paperin noémie
tonin maxime
fournier carole







Façade avant

groupe G - le chaperon

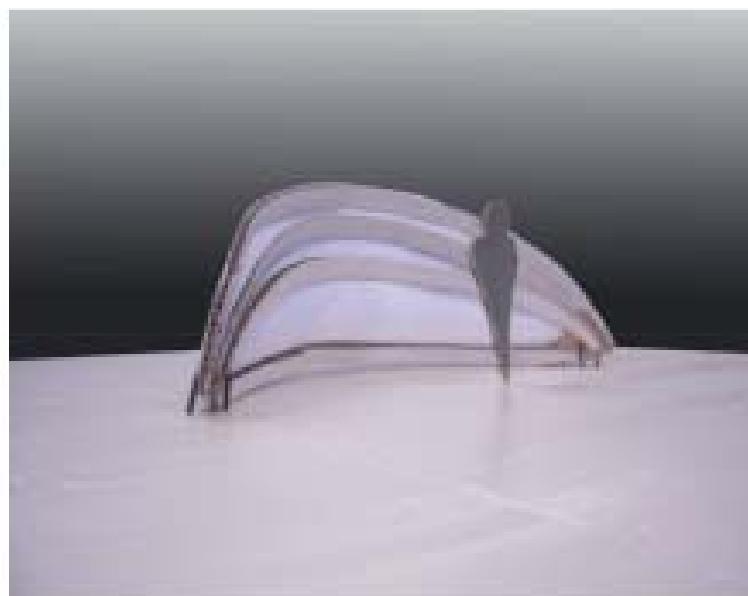
bessières guillaume

martin marielle

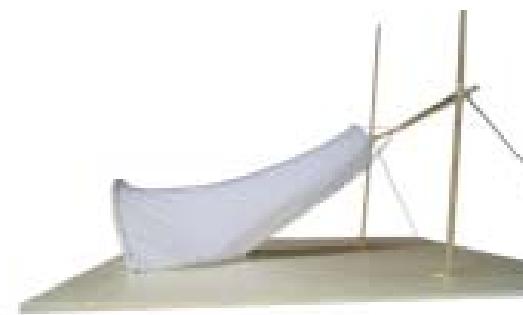
welsch clémence

zieger florian

pery philippe

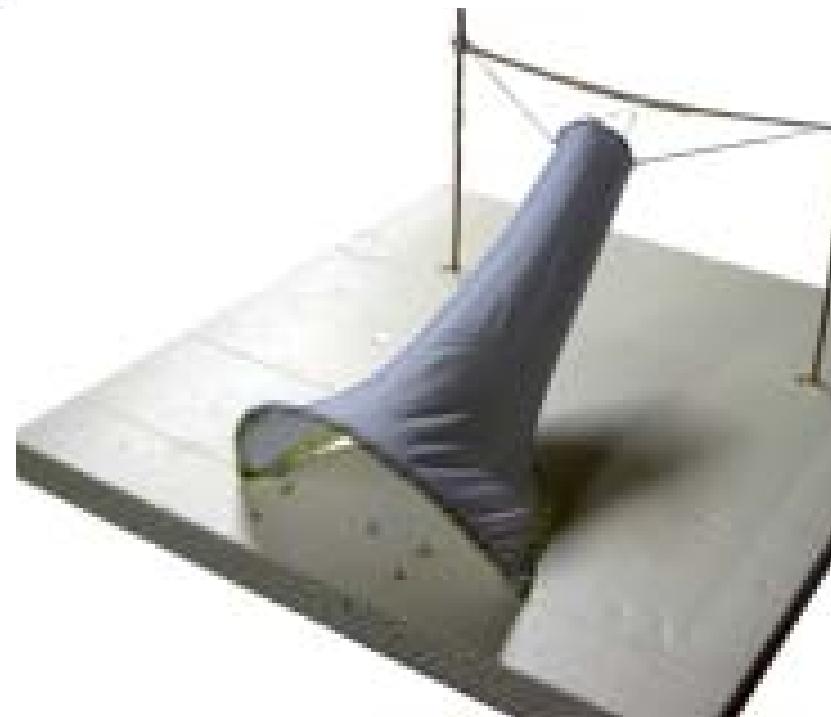
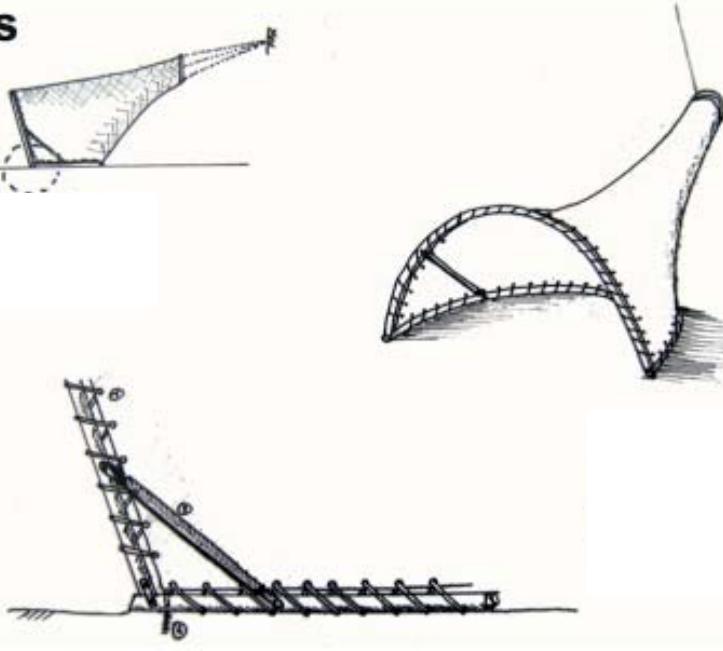


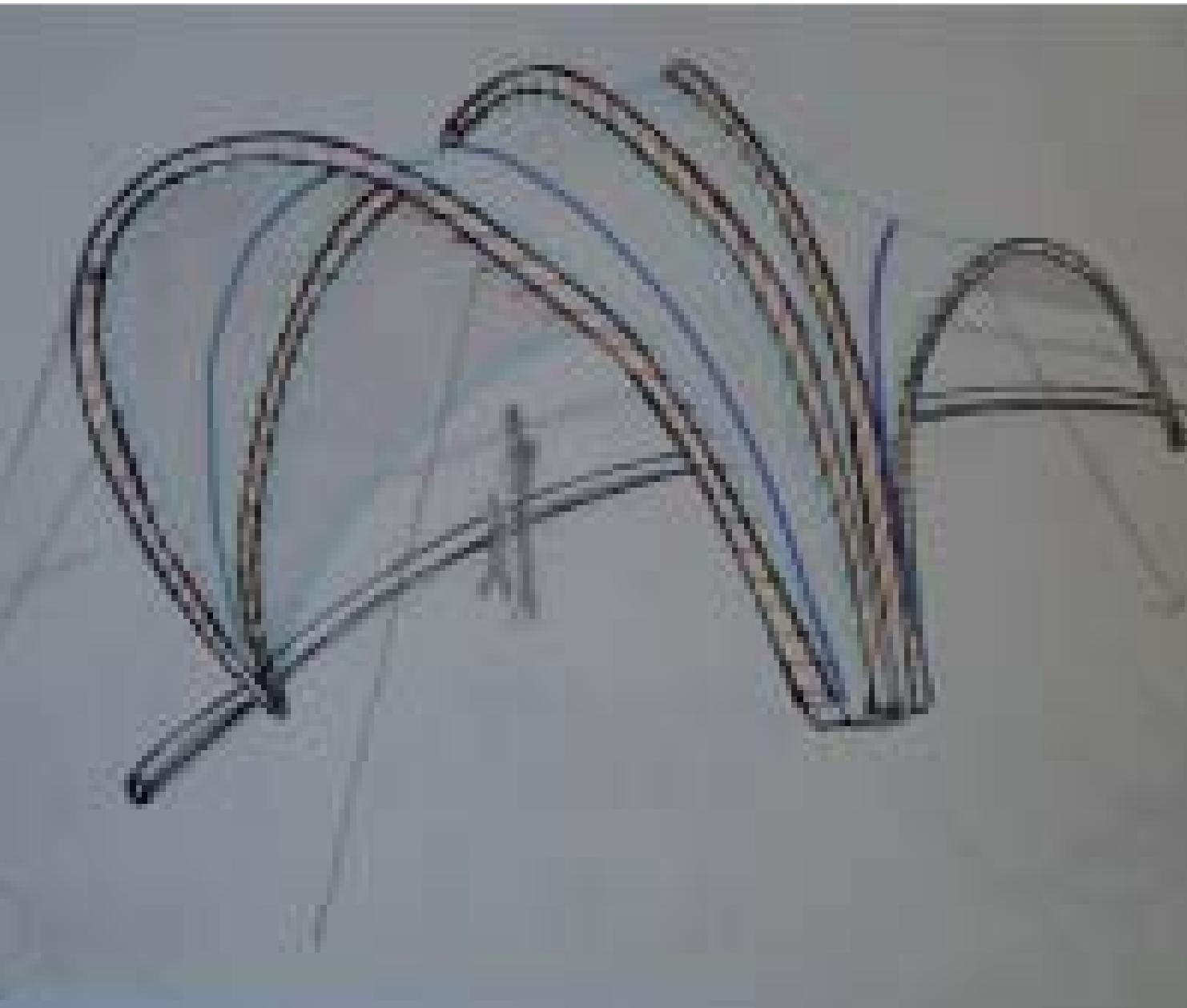


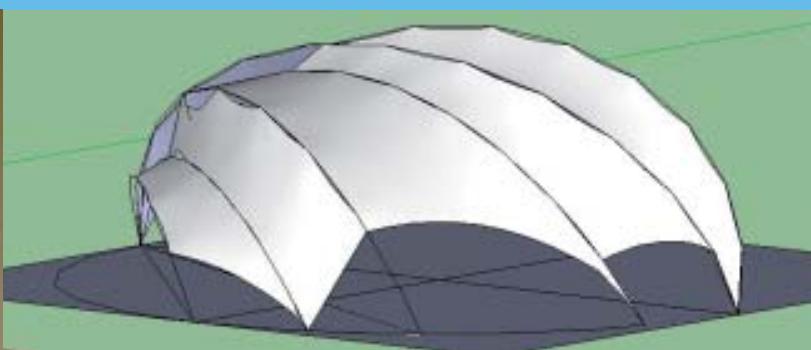
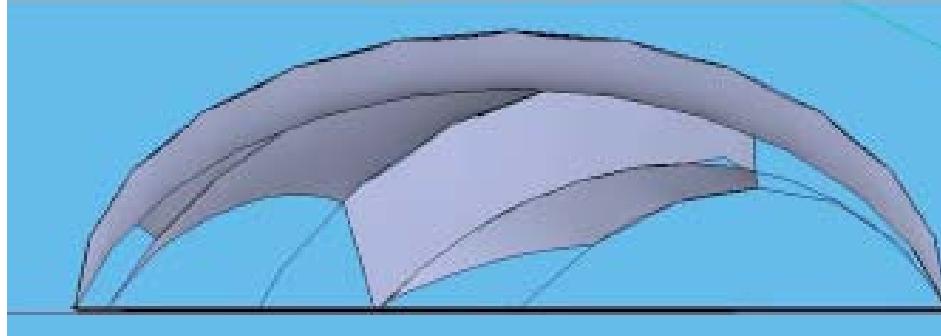


groupe H - focus

bolmer märr
dugaud delphine
campos alcaraz ignacio
demeure damien
oughlissi dounia

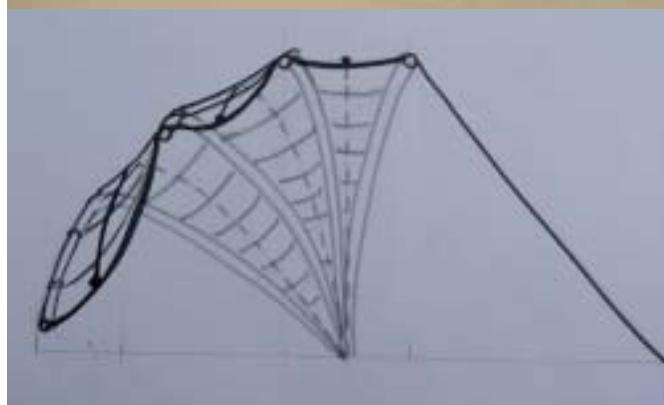


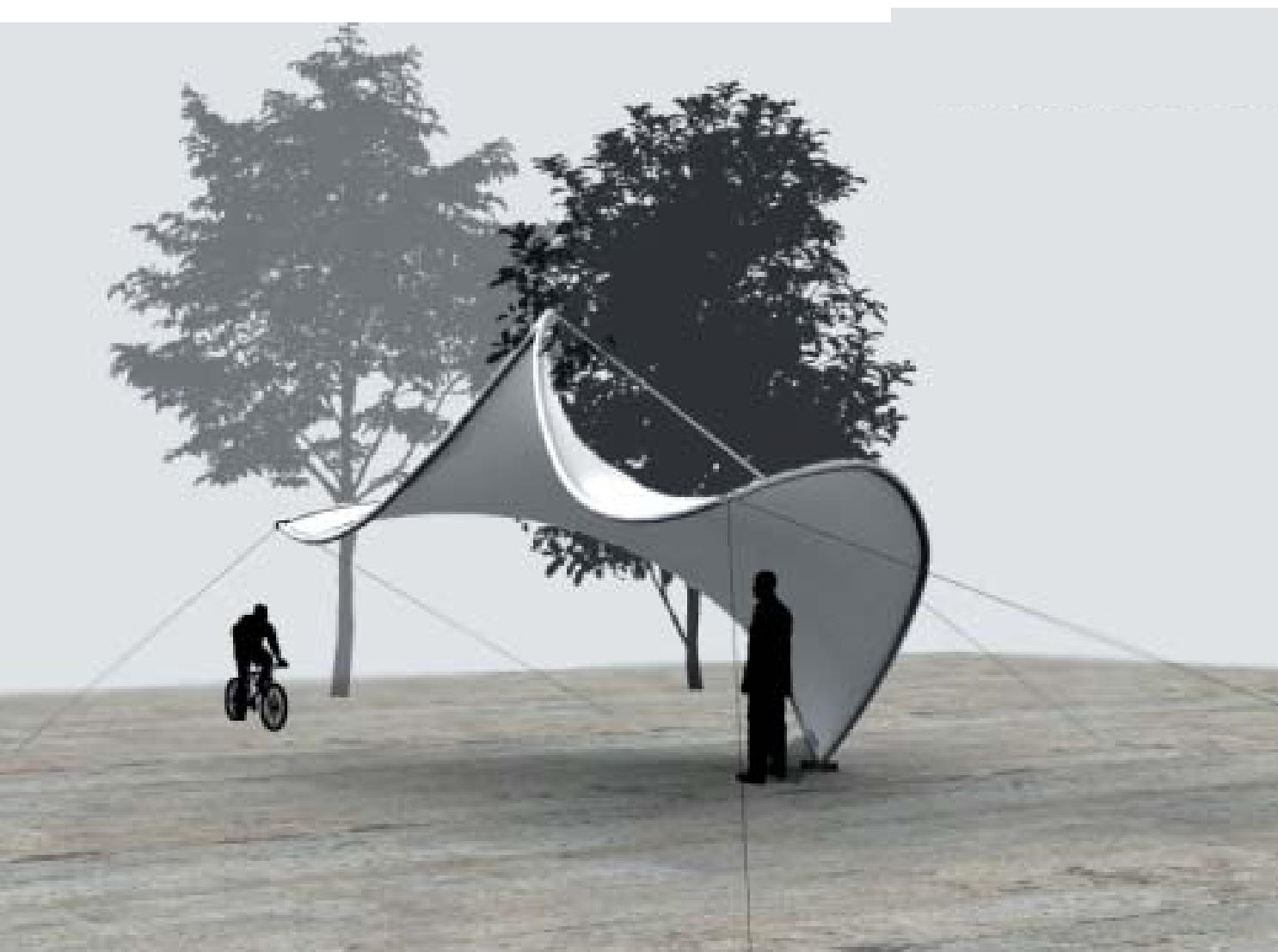




groupe I - deploiement

quiroz karina
fernandez guellermo colina
challier marielle
tamas simona
zibell nadine

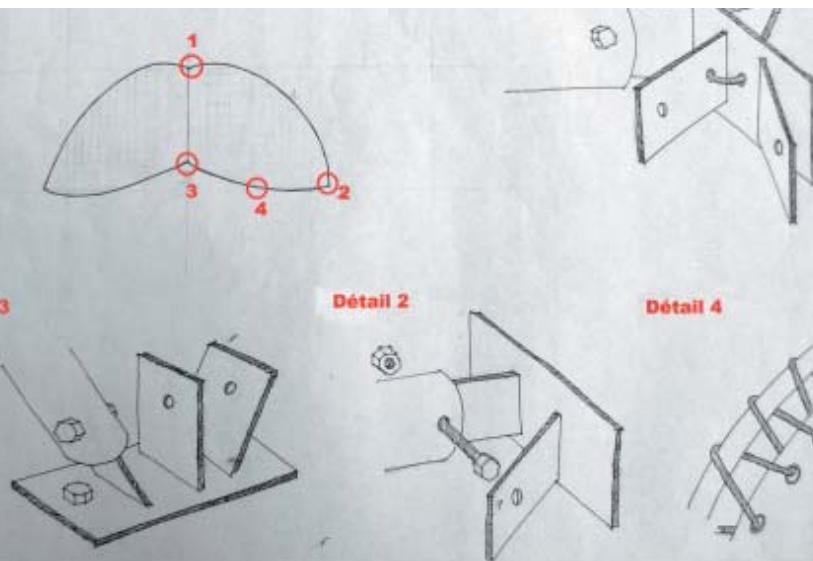




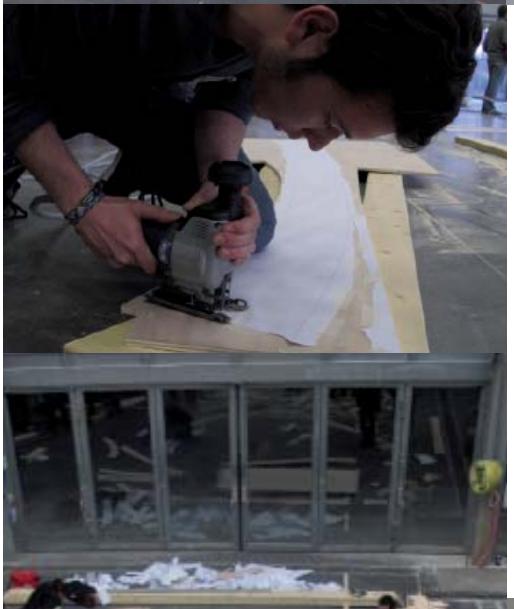
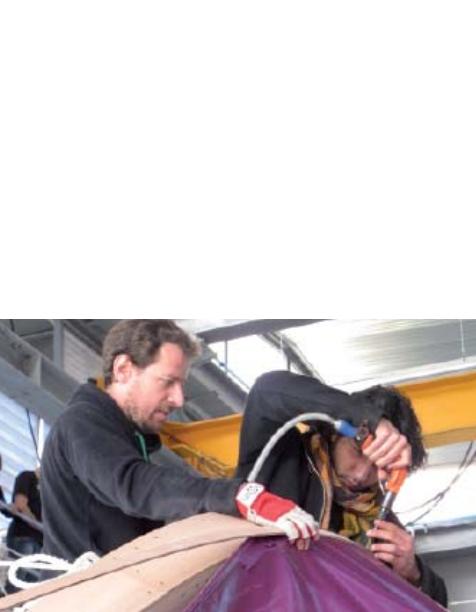
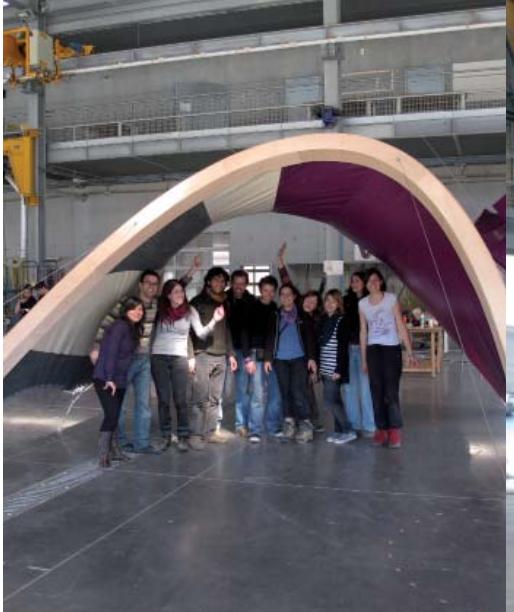


groupe J - devil fish

chavanne antoine
de francesco gaetano
cecchin guillaume
faye florent
grimal françois
desenclos quentin







l'arkymétrie réalisation



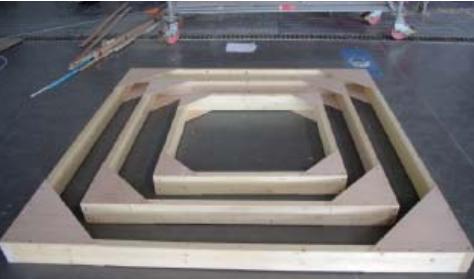
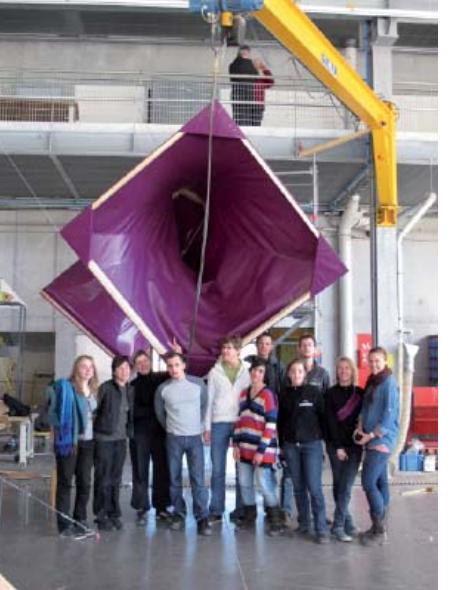




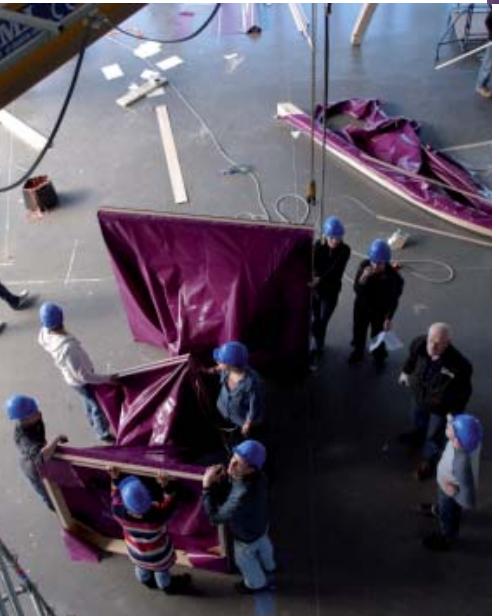
dou-li
realisation







gramophone
realisation







focus
realisation





devil fish realisation



