Portfolio

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Portfolio

INFINITE FRAME – A system that allows making infinite configurations of picture frame panels

Client: Myself
Year: 2009-2016.
Position held: Inventor
Project: INFINITE FRAME is a system that allows connecting single frames together to make infinite configurations of picture frame panels, depending only on the number and sizes of frames that you have.
This idea was developed since 2009 where were made the first models to test the idea. Then it was registered as a International Patented Idea. The models were developed to be produced, and the project was submitted to a crowfunding campaign in 2013/14, without success, and after it was a finalist at "Acredita Portugal 2014" contest among 14 000 competitors. Presently is going to submit to a new crowdfunding campaign, now supported by the future selling website which has a specifically designed application to allow users try the product before they buy it. On www.infinite-frame.com.

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Portfolio

Aripa project – Social Facility for the Workers of Santa Maria Hospital Support Association in Loures

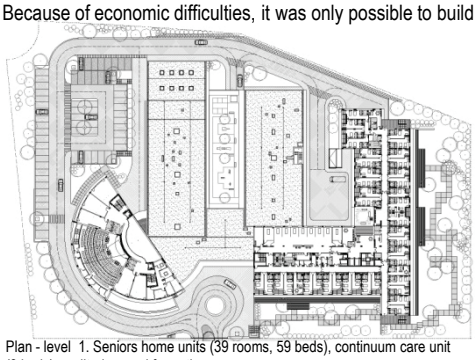
Client: Workers of Santa Maria Hospital Support Association
Year: 2006-2012. Partly built

Location: Camarate, Loures, Portugal

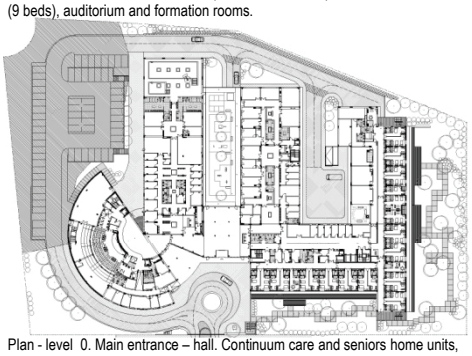
Gross area: 18 000.00 m^2 (build: 8 000.00 m^2)

Position held: Design and Construction Coordinator

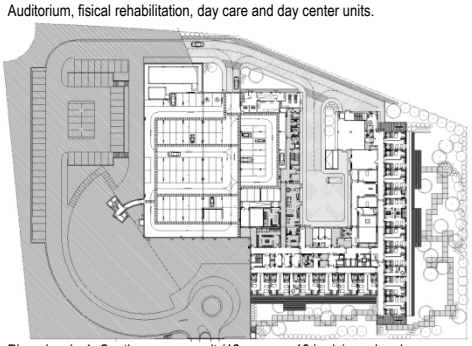
Project: This is a social facility that combines several services opened to the community, getting together children, adults and elderly people. It has a Cultural service with an auditorium and training rooms, health care with physical rehabilitation unit and continuum care units, social service with seniors' residential units, day care and day center units, and also mortuary and religious service. The economic difficulties determined the low cost construction solution (reinforced concrete structure with cement blocks walls coated with external thermal insulation system (ETICS)). Inside, the solutions are simple with common materials for public health care buildings (vinyl and ceramics on floors, brick and plaster walls with acoustic insulation, and plaster or metallic ceilings). The building is exposed to a view from east and south over the Tagus River. A shadow protection was developed over the windows to optimize natural light and views, without overeating in the summer, minimizing electrical and HVACs consumption. Because of economic difficulties, it was only possible to build part of the building until the present time.



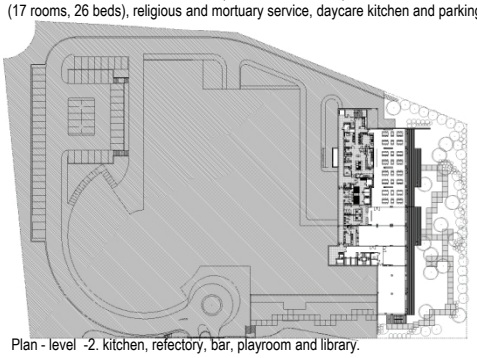
Plan - level 1. Seniors home units (39 rooms, 59 beds), continuum care unit (9 beds), auditorium and formation rooms.



Plan - level 0. Main entrance – hall. Continuum care and seniors home units, Auditorium, fisical rehabilitation, day care and day center units.



Plan - level -1. Continuum care unit (12 rooms – 18 beds), seniors home (17 rooms, 26 beds), religious and mortuary service, daycare kitchen and parking.



Plan - level -2. kitchen, refectory, bar, playroom and library.

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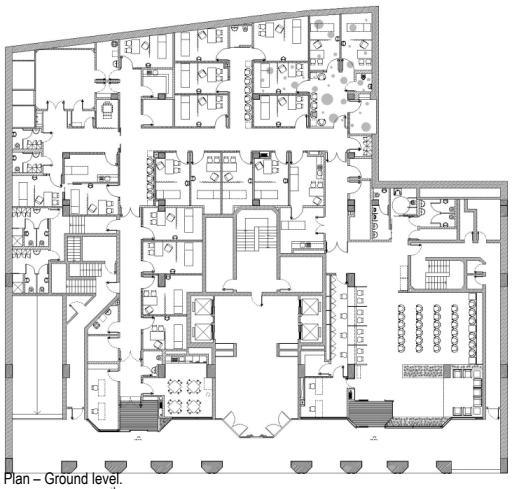
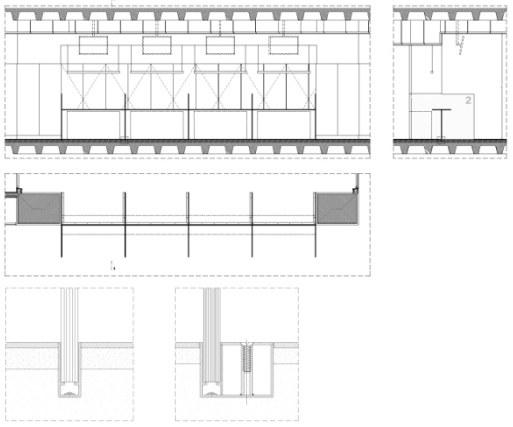
Portfolio

Aripa project – Medical Clinic for EDP- Electricity of Portugal in Lisbon

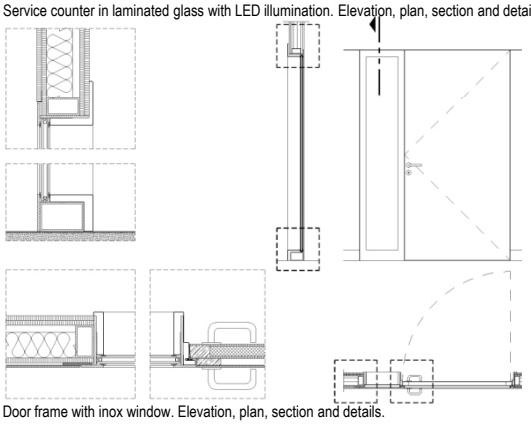
Client: EDP- Electricity of Portugal
Year: 2011. Built
Location: Lisbon, Portugal
Gross area: 900.00 m^2
Position held: Coordinator
Project: This is a private clinic for EDP- Electricity of Portugal to give medical assistance for their employees. Located in the Centre of Lisbon, on the ground floor of an office building, it has two entrances, one for users and the other one for staff and service. Inside, these two entrances are connected by the main circulation. The users entrance has a big hall with the waiting room, a service counter and toilets, and the door to access to the medical facilities: treatment unit, peadiatrics unit, minor surgery unit, twenty medical rooms, administrative rooms, scullery, toilets and changing rooms for staff and areas for logistical support and maintenance. One of the space constraints was that all the medical spaces are interior, without windows or connection to the outside. The solution found was a frame door with a translucent double glass window, to have light connections and shadows between interior spaces and circulations. The materials adopted were: vinyl and ceramic on floors, plaster walls with acoustic insulation and plaster or metallic ceilings. The circulation walls are coated with phenolic panels to lintel doors level and have a baseboard in stainless steel plate, like in the doors. In the hall, the counter was designed in laminated crystal glass with white PVB inside and down RGB LED illumination, that spreads coloured or white light through the glass, according to the desire of their users.



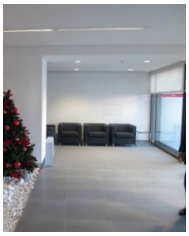
Plan – Ground level.

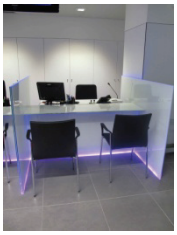


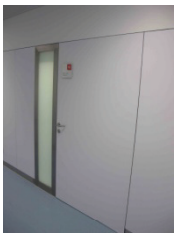
Service counter in laminated glass with LED illumination. Elevation, plan, section and details.



Door frame with inox window. Elevation, plan, section and details.







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Portfolio

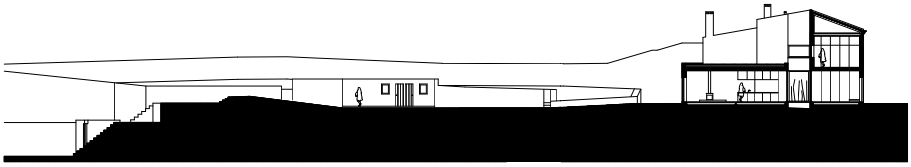
House in Lagoa, São Miguel island, Azores Portugal

Client: Private
Year: 2007 - built

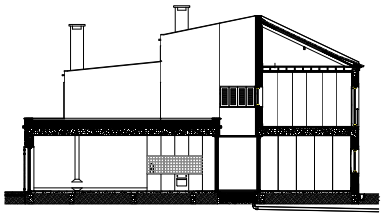
Location: Lagoa, São Miguel island, Azores - Portugal

Gross area: 200 m^2

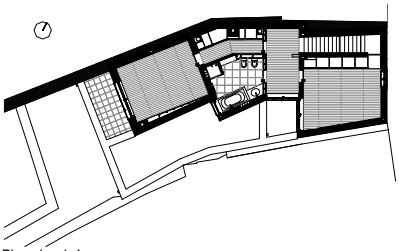
Project: This is a house located in an old fisherman's neighbourhood located in Lagoa, São Miguel Island, Azores. The site is very particular and beautiful because its terrain has a very thin and long configuration, 10 meters above the sea level, with an old house with two floors. The initial intention of the owner was to refurbish the existent house, but after an examination of the construction, it was concluded that it was a very poor construction with big local basalt rocks connected with poor sand mortar that easily crumbled. The option was to demolish the old house and build a new one considering the design and functional structure of the existent, improving the habitability and comfort conditions inside and the extension of the spaces. The new house has also two floors and an attic. Because of the thin width (6m), the deep depth (15m) and inflected configuration of the plan, a solution was developed with a central patio on the ground floor to bring natural light and ventilation into the interior spaces. The first floor was also designed around the patio, so that all the spaces can have South solar exposure and the view to the sea. In the ground floor there is the living and dining room with an incorporated kitchen, a guest room and toilets. In the first floor there are two rooms with dressing room and closet, and a bathroom. The south room has a balcony and a green roof cover was designed for the other terrace.
Outside are the laundry room and gardening storage room as a annex to the house. It was built incorporated in the land and in the existing stone walls.



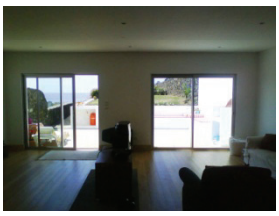
Global section

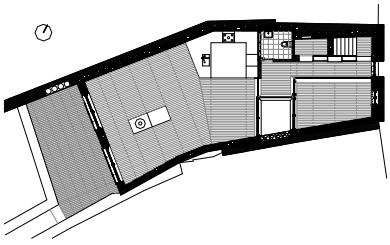


Section through the patio

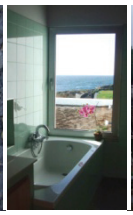


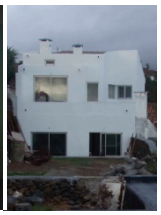
Plan - level 1





Plan - level 0





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Portfolio

Master's Thesis - Bioclimatic refurbishment of mixed construction residential buildings, a case study in Lisbon

Year: 2004 – 2007 (duration of Master's degree)

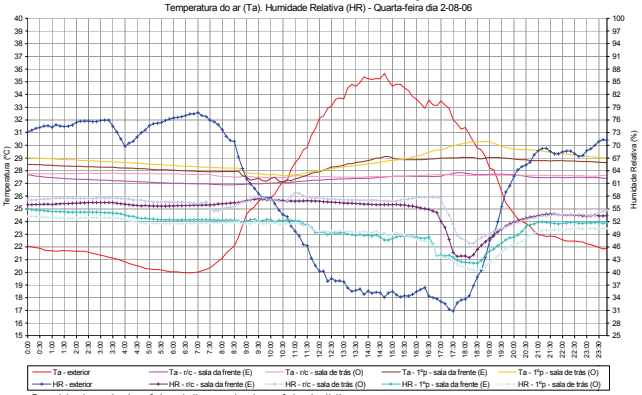
Location: Lisbon - Portugal

Thesis: The object of the Thesis was bioclimatic refurbishment of housing buildings known as mixed construction buildings from the 1930's-40's, as being the first building examples with the introduction of concrete slabs with masonry walls. In Portugal, these buildings are also known as examples of Portuguese Modernism Architecture, beeing Cassiano Branco one of the most important Architects. His work includes several remarkable examples of buildings with specific design and details that inspired almost every constructor of that time, who worked with him and copied his examples, resulting on several urban blocks in Lisbon and in all our country with more or less detail, depending on the economic and social context of the neighbourhood.

The goal of the study was to contribute to the methodology of analysis for refurbishing buildings that consider Bioclimatic Architecture principles in its process, verifying which potentialities from the local site can be taken into account for the refurbishment (such as climate, solar orientation and insulation hours per day along the year) and evaluate characteristics of the construction (such as thermal mass, isolation and windows), to define strategies and solutions to get better energetic performance in the use of the buildings, together with better comfort in their spaces.

Several inquiries were made to inhabitants of different kinds of these buildings to identify common aspects of the constructions in terms of physical pathologies and inside comfort conditions (thermal comfort, natural light and acoustic isolation) analysed through SPSS software. Then the study focuses on one case study of this kind of building, a lower economic class example, and the proposed methodology was applied to its survey. Then the building physical pathologies were analysed, the interior spaces were monitored during the winter and summer time, observing air temperature and relative humidity and comparing with outside registrations. A virtual model of the building was produced, to simulate and analyse its energetic performance with Ecotect v5.20 software, and the Portuguese Law RCCTE was applied to evaluate its energetic classification. After the analysis of the conclusions, were maid several presentations of design recommendations.

Solar chart at the level of the first floor level, obtained with the program Ecotect v5.20.

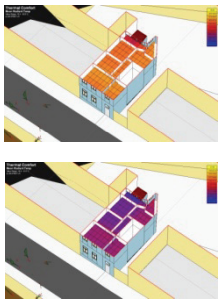


Graphical analysis of the daily monitoring of the building.

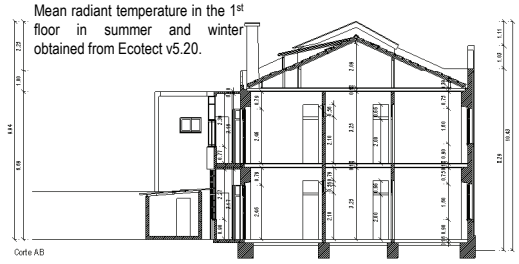
Dados da monitorização do período de Inverno de 28 de Janeiro a 5 de Fevereiro								
			Exterior	r/c		1ºpiso		Sótão
				Sala da frente	Sala de trás	Sala da frente	Sala de trás	
Valores médios	Temperatura do ar (ºC)	Máxima	17.9	12.9	12.3	12.7	10.6	12.5
		Média	11.1	12.3	12.1	11.8	10.2	11
		Mínima	4.2	12.4	11.8	10.9	9.7	9.5
		Amplitude	13.7	0.5	0.5	1.8	0.9	3
	Humidade Relativa (%)	Média	71	-	64	-	-	-

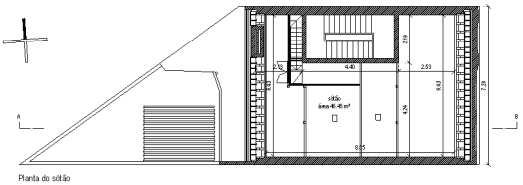
Dados da monitorização de verão de 22 de Junho a 2 de Agosto						
			Exterior	R/c		1ºpiso	
				Sala da frente	Sala de trás	Sala da frente	Sala de trás
Valores médios	Temperatura do ar (ºC)	Máxima	38.8	27.4	27.4	28.5	29.2
		Média	25.2	27.0	27.2	27.9	27.9
		Mínima	19.7	26.6	27	26.7	27.1
		Amplitude	14.1	0.8	0.4	1.8	2.1
	Humidade Relativa (%)	Média	59	54	54	51	45

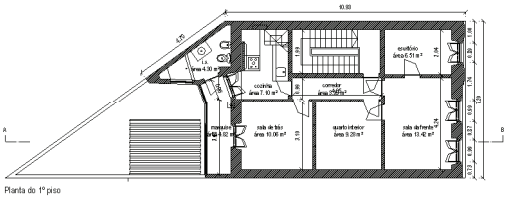
Summary tables of values of air temperature observed during winter and summer.

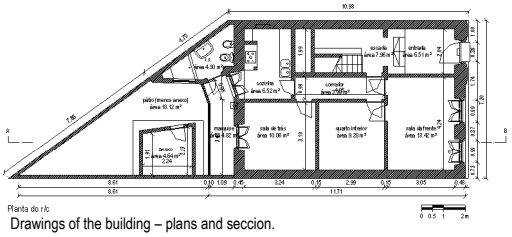


Mean radiant temperature in the 1st floor in summer and winter obtained from Ecotect v5.20.









Drawings of the building – plans and seccion.

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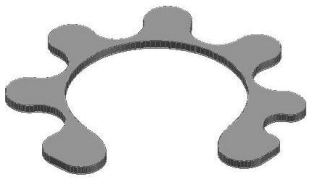
Portfolio

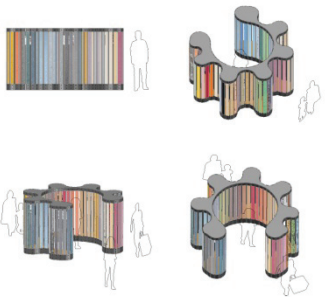
Labicer National competition – Vitrakem “Arquitectar o Ambiente”

Client: Labicer
Year: 2007

Location: Lisbon - Portugal

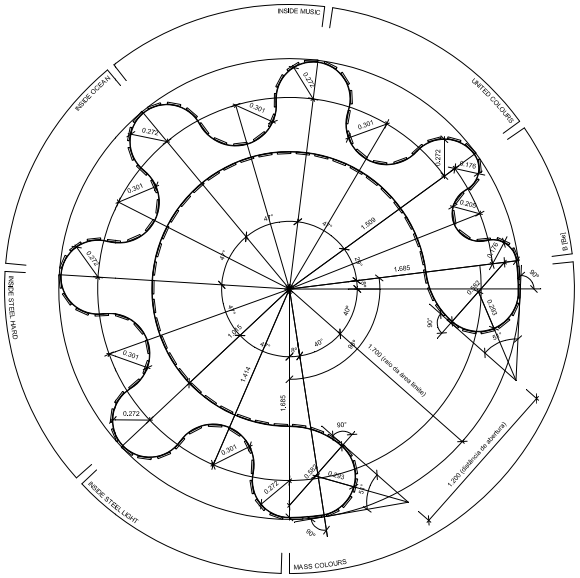
Project: This project is the proposal solution for the competition “Arquitectar o Ambiente", sponsored by Labicer, in order to raise awareness of the coating materials of walls and mosaic pavements Vitrakem, produced with recovery and recycling of materials. It was giving an area of 3m^2 and a maximum height of 1.8 m. It was developed as an idea for an object/stand to expose the material and its manufacture policy with recycling materials. The exhibition area for the stand was in one of the lobbies of the Lisbon Airport. This stand was developed as a screen-walled cylindrical volume with curves, defined by strips of Vitrakem mosaic, 10cm wide, supported by flat blades in stainless steel plate, bolted on a base, which works as a container for the raw material of this product production. On top was designed a light box with opal acrylic to illuminate the inside of the object. Inside the object, placed in the centre of each curve, there is a tubular support to exhibit photographs of spaces coated with the sponsor mosaics.





Cobertura

Corpo



Base

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Portfolio

National Competition for the refurbishment of the building for the Order of Architects, Faro - Portugal

Client: Order of Architects
Year: 2003

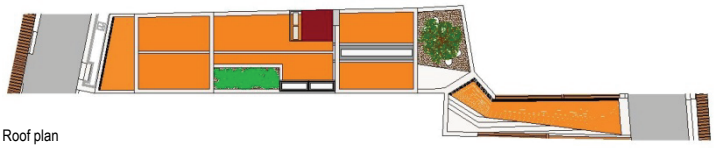
Localization: Faro – Algarve, Portugal

Gross area: 200.00 m^2

Project: Presented proposal for the National Competition for refurbishment of the building for the Order of Architects in Faro – Algarve, South of Portugal. The building is located in the historic centre of the city of Faro and consequently conditioned by specific rules to be applied. The front main façade should be maintained, but the inside was to be demolished as it was a ruin, and it should be extended by one more floor. The solution considered its integration in the urban context with similar proportions of volumes, windows' design, colours and materials. Inside, the functional spaces were organized according to the functional program. On the ground floor was designed a multifunction space equipped with tree pairs of sliding panels that allowed numerous partitions of the space according to different needs, such as exhibitions, working spaces or open space. In this floor there is also the reception, toilets and an elevator for the disabled, as well as a small bar with a terrace that communicates to the back street. On the first floor is located the administration room, toilets and a small library with roof light. For both floors green areas were proposed, to introduce nature into the spaces.

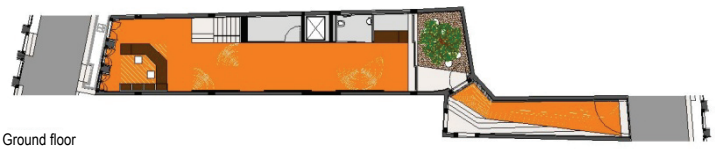
Order of Architects

Longitudinal section

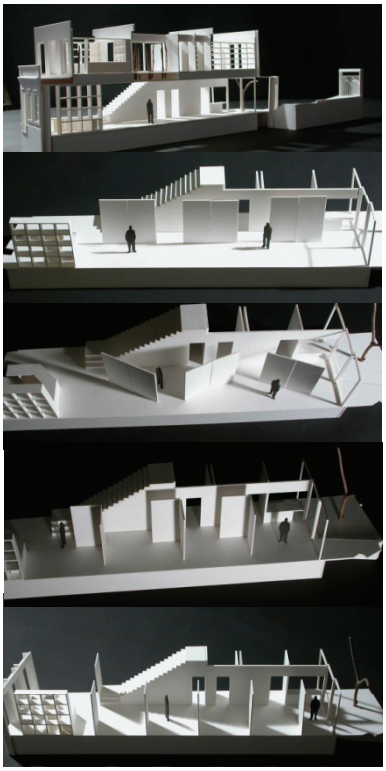


Roof plan

First floor



Ground floor



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Portfolio

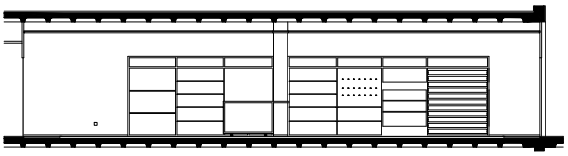
Shop of furniture and clothes for children - “Os Ursitos”

Client: Os Ursitos
Year: 2002 - built

Location: Barcelos - Portugal

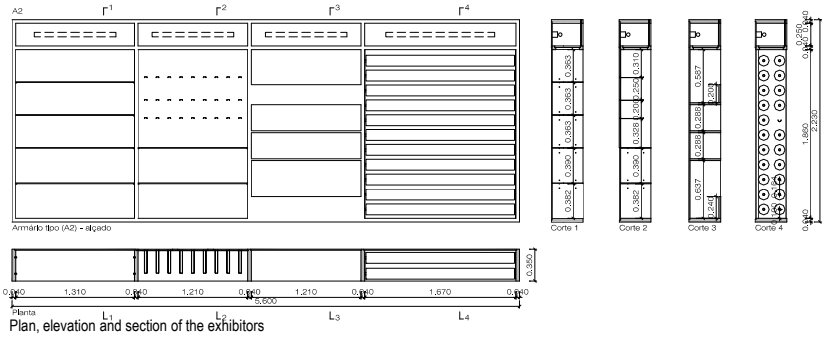
Gross area: 106.00 m^2

Project: This is one of the shops of the national franchise network "Os Ursitos", which sells furniture and clothes for children. There is a series of prerequisites for the installation of these shops according to the needs of the spaces, such as: Storefronts for Exhibitors; Attendance Area with a Service Desk; Available Areas for Showrooms / Mobile Exhibitors / Storage / Office and Sanitary Installation. All these areas are designed in accordance with the characteristics of the place and with the spatial dimensions of each store, in conjunction with the commercial interests expressed by the customer. The covering materials and the construction solutions are also the same in all stores, such as: floating floors, walls covered with paper provided by the brand, ceilings in plaster, furniture design, light and colour.
This shop represents a very common layout, with the showrooms in front of the storefronts, a corridor aligned with the entrance, with the attendance area strategically positioned, lined with furniture displaying the articles. On the back of the showrooms there is a storage area and the access to the toilets.

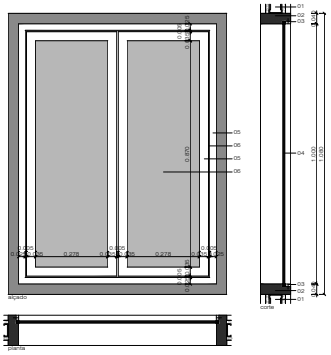


Section AA.

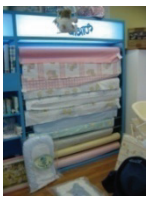
Plan layout.



Plan, elevation and section of the exhibitors



False window detail.



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Portfolio

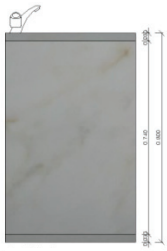
Furniture design – Washbasin in Estremoz Marble

Client: Myself
Year: 2002 - Built

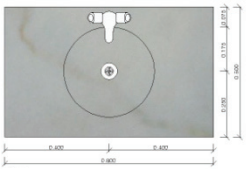
Localization: Lisbon - Portugal

Project: Washbasin designed for the bathroom of my flat. It was designed to be a marble box as it if it were sculpted to receive water and to be a container of personal hygiene objects for daily use. Inside it has a light to take advantage of the translucent characteristic of Estremoz Marble and be seen as beautiful light Marble box at night.
The box structure is composed of Marble sheets with 3cm thick. The basin piece was sculpted from a 10cm thick sheet. It has two pivot doors with 2cm thick. The finishing is polished, and the side sheets have a sculpted curve to allow opening the doors. The pivot hinges were also designed for this washbasin in stainless steel. Inside it has a middle glass shelve.
The photographs below show the washbasin through the three periods of the day: daylight, afternoon and night and its interaction with the light.

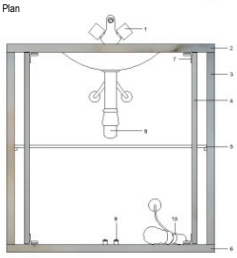
Front elevation



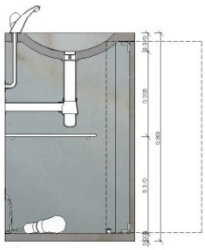
Side elevation



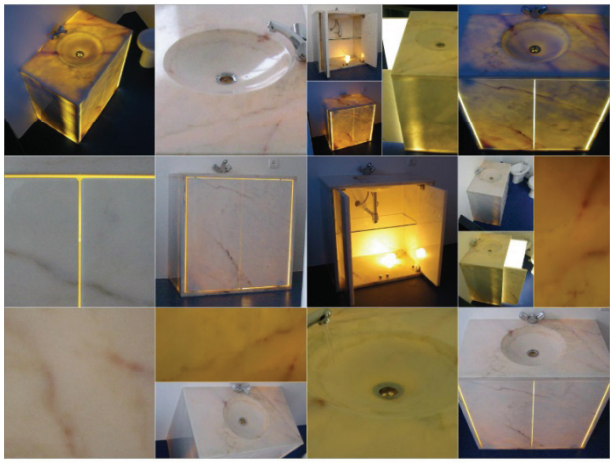
Plan

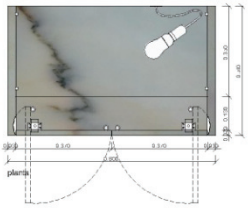


Front elevation – door open

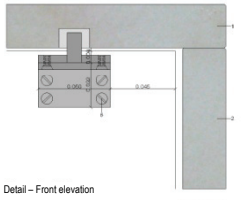


Section

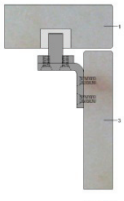


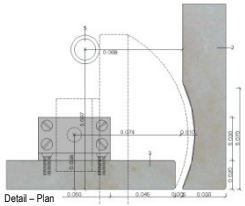


1 Mixer tap
2 Sculpted basin in Estremoz Marble - 3cm thick
3 Side piece in Estremoz Marble – 3cm thick
4 Door in Estremoz Marble – 2cm thick
5 Glass shelf with 8mm thick
6 Bottom piece in Estremoz Marble – 3cm thick
7 Pivot hinge in stainless steel
8 Siphon
9 Doorstop in stainless steel with rubber
10 Lamp

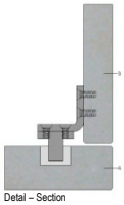


Detail – Front elevation



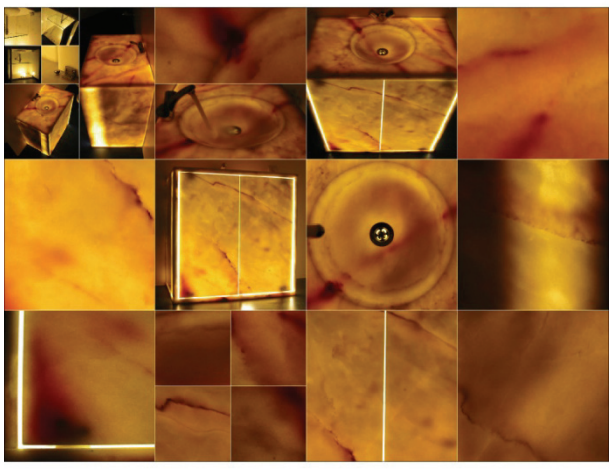


Detail – Plan



Detail – Section

1 Sculpted basin in Estremoz Marble
2 Side piece in Estremoz Marble with a curve sculpted to the door opening
3 Door in Estremoz Marble
4 Bottom piece in Estremoz Marble
5 Doorstop in stainless steel with rubber
6 Stainless steel screw
7 Bronze cap
8 Axis of the hinge in stainless steel
9 Basis of hinge in stainless steel



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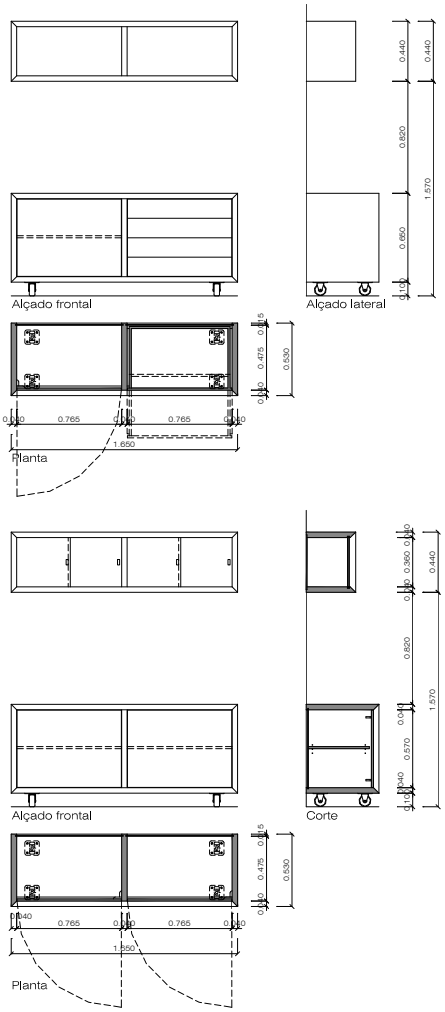
Portfolio

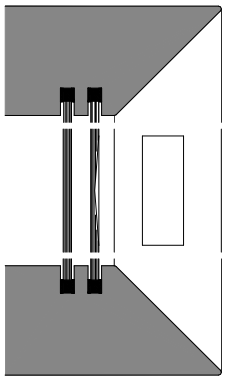
Living Room Furniture Design

Client: Private
Year: 2001 – built.

Location: Lisbon - Portugal

Project: This furniture was designed to decorate and serve the dining room of a private residence. It consist of four modules. Two lower modules with shelves and drawers, supported by four wheels and two top modules, one open and the other closed with sliding doors with frosted glass. They are constructed of birch plywood of simple design, to highlight the chosen material and meet functional needs. This intention is materialized by the design of simple volumes, with a 45º angle finish and the use of "ticking" springs to close the doors and drawers without using handles.





Section detail of the 45º angle finish

Description:

Frame in birch plywood, thickness 40 mm, with a 45º angle finish.

Doors, shelves, drawers and front structure in birch plywood 15 mm thick.

Back units and modules in 5mm thick birch plywood.

Clear matt lacquer finish.

Fittings such as "Hettich - International" from "Interfer."

Fixing parts of the structure by fittings type "rastex 15 - ref. 079 482" angle and pin-type "DU 634 - ref. 048 565", the " Interfer".

Hinges of the "flash Intermat 9936 - ref. 073 924" shims and "9000 - ref. 079 338", the " Interfer ".

Support for shelf type "system32 ref. - 025 124," the " Interfer ".

Slides for the drawers of the type "FR 6142/400 ref. - 041 639," the " Interfer ".

Impulse springs for doors and drawers ref. 212,053,025, of " Interfer ".

Mounting brackets to the wall of the upper module of the "216 SAH ref. - 079 717," the " Interfer ".

Casters type "Mecanarte", height 80mm, with lock and rubber wheels red.

Top module with transparent tempered glass doors 3mm thick rounded edges with countersunk as indicated on handle detail.

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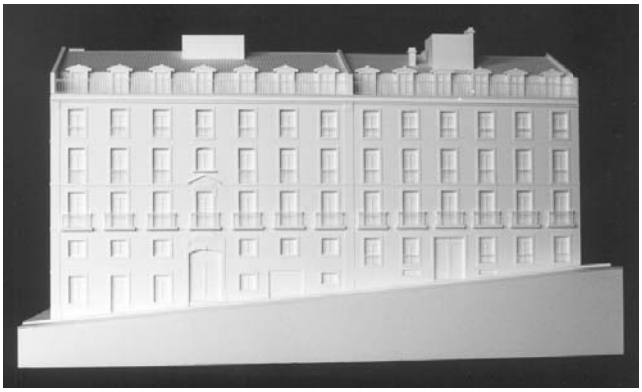
Portfolio

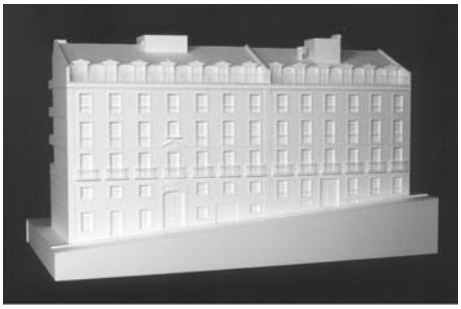
Model of “Pombaline” building at 1:50 scale

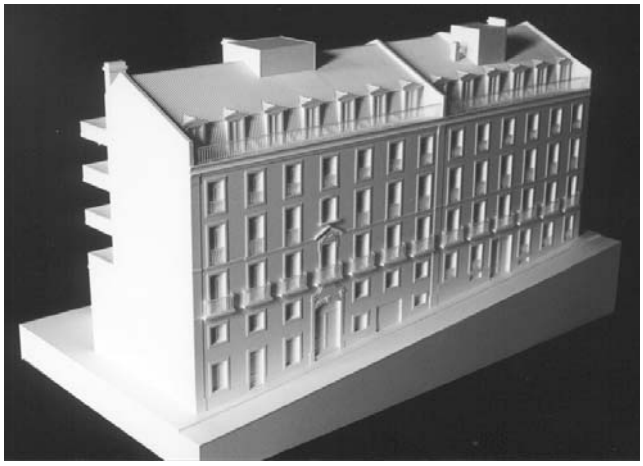
Client: Eça Leal Architect
Year: 2000 - built

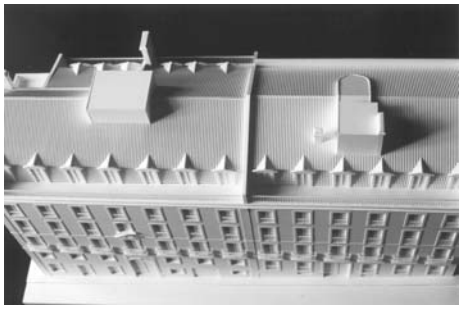
Position held: Collaborator

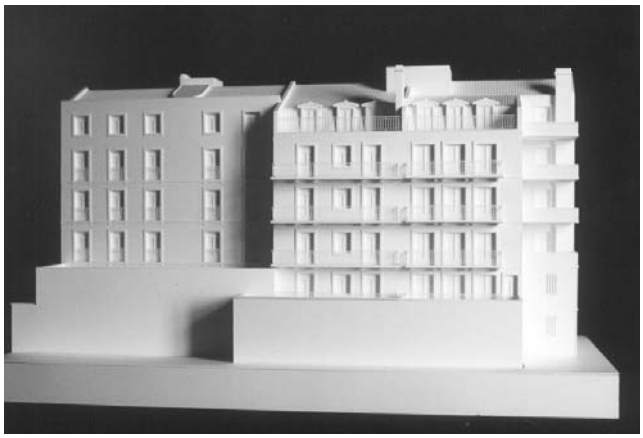
Model: The model was designed and drawn in autocad, built in card Framex, with thicknesses of 0.5 and 1.2 mm, and corrugated paperboard, PVC pipes with a diameter of 0.5mm. All materials are white.











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Portfolio

Vilela & Gordon project – Residence of the Embassy of Portugal in Brasilia

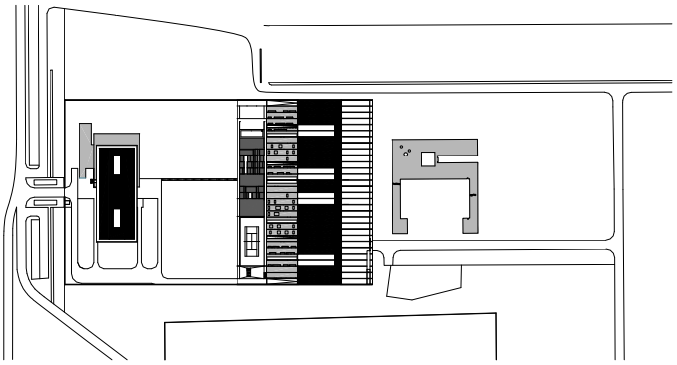
Client: Ministry of Foreign Affairs
Year: 1996 - 1998

Location: Brasília, Brasil

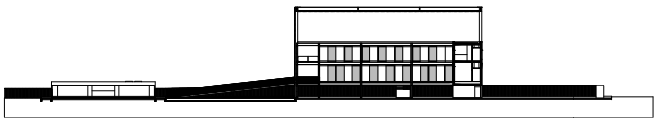
Gross area: 1000.00 m^2

Position held: Collaborator

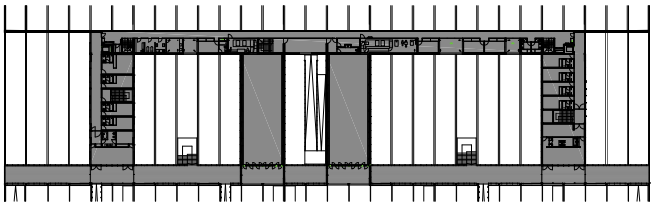
Project: With Vilela & Gordon Architects. Construction project and experimental and exhibitions models of the Residence of the Embassy of Portugal in Brasilia.



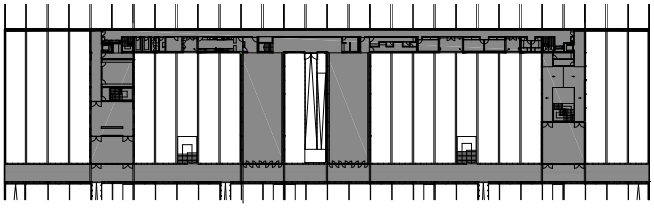
Site plan



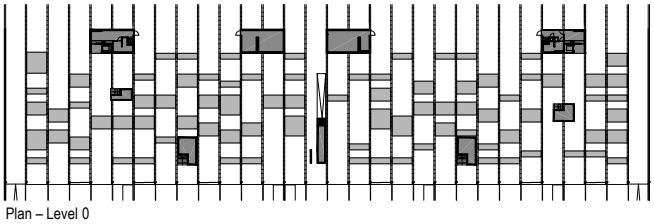
Section



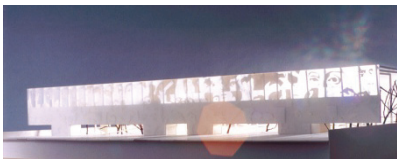
Plan – Level 2

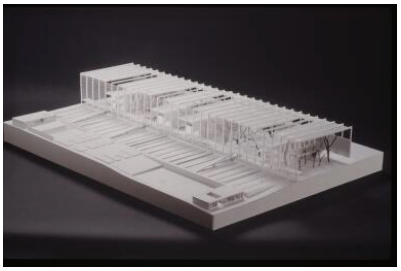


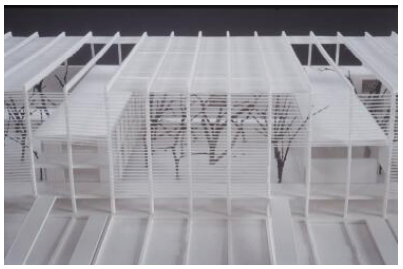
Plan – Level 1



Plan – Level 0







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Portfolio

Interior Design Project - Psychologist consulting room

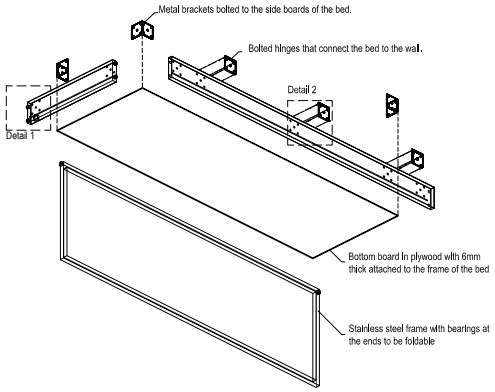
Client: Private

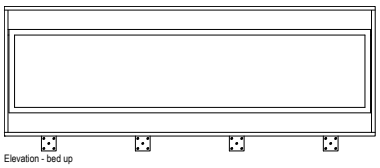
Year: 1996 - Built

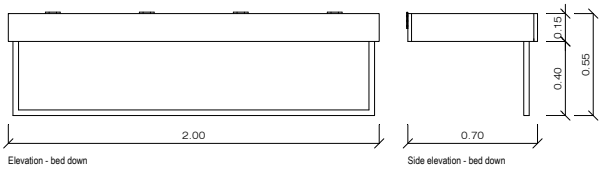
Localization: Lisbon - Portugal

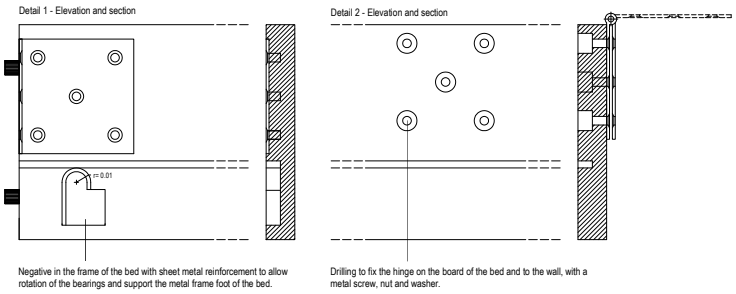
Area: 16.00 m^2

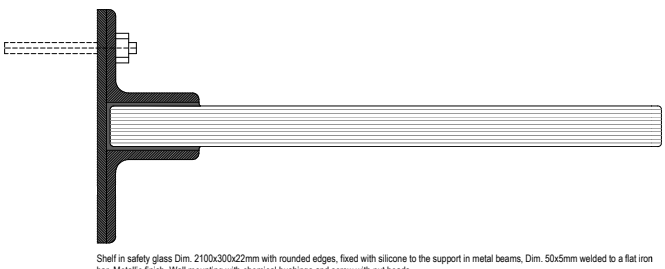
Project: This interior design project was made according to the needs and the personal taste of the client. This small space had to be a versatile consulting room for the practice of Psychotherapy, Psychoanalysis and Group Analysis. A folding bed was designed for the practice of Psychoanalysis, with a minimal design that would be aesthetic closed or open. It is a wooden bed with a retractable stainless steel rectangular frame. When the bed is closed it can bee seen as if it was a piece of modern art. When the bed is down, the frame is the bed's foot.
Shelves were designed in safety glass with 22mm thick, fixed to the wall on iron beams. The table is a peace of Estremoz marble with a round glass on top, 22mm thick.











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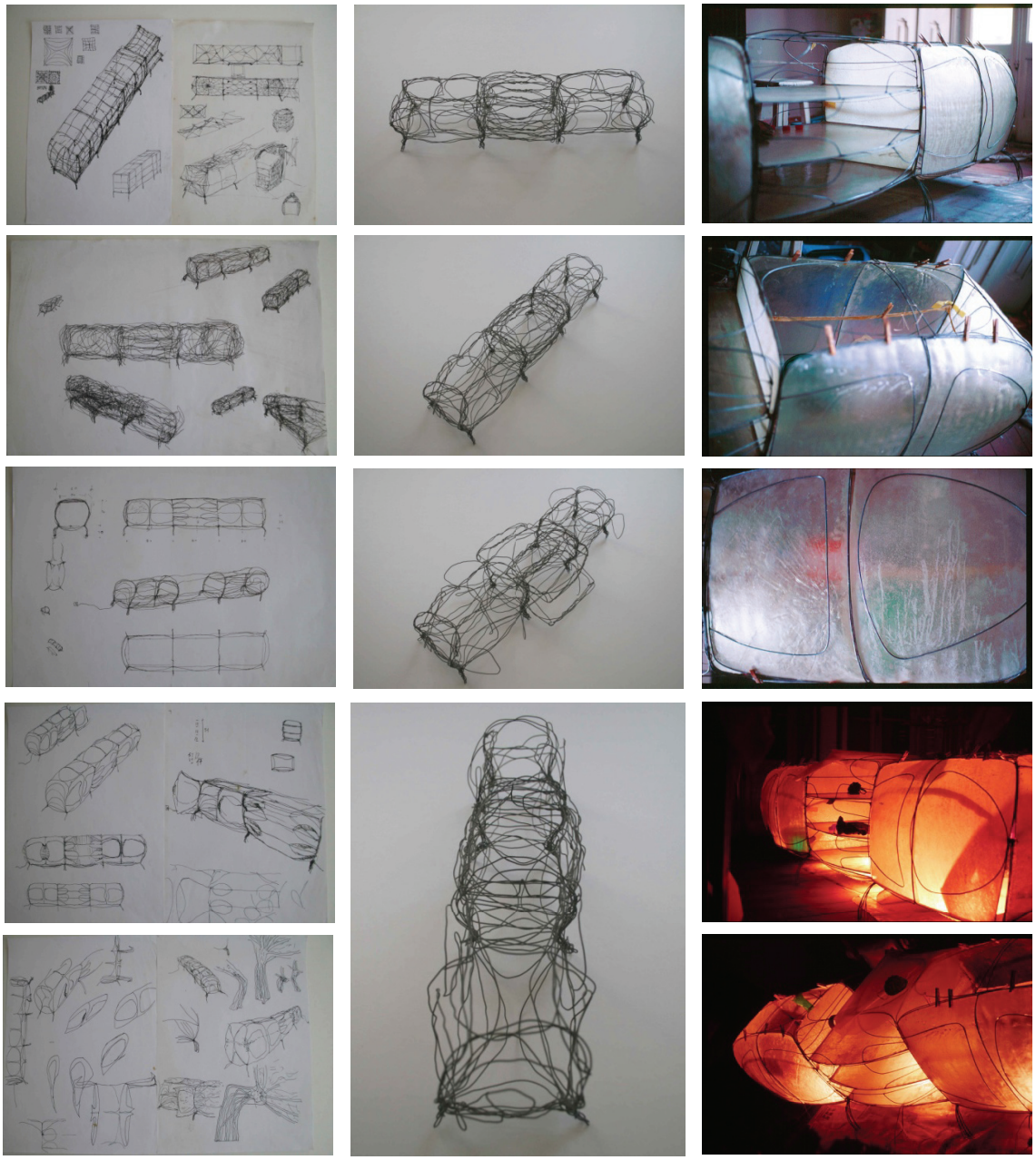
Portfolio

Furniture / Sculpture design – cupboard bug

Client: Private
Year: 1995 – Beginning of construction (partly built)

Localization: Lisbon - Portugal

Project: This Project starts with a relative's request to design a living room cupboard. The creative process started with drawings of regular shapes, which were not satisfying and gradually transformed into something like a larva or silkworm. This appearance was developed to get an object that could be simultaneously functional and sculptural. A wire model was made and its characteristics and my intention of making it were explained to the client.
The materials are galvanized iron wire for the support structure (skeleton) and screen fibreglass with epoxy resin to all the other parts of the object (skin). It is a symmetrical object along the longitudinal axis and its body his composed by three modules. The edges (head and tail) are shelves' modules with two pairs of doors (wings) on each side. In the centre there is a drawers' module (belly) that opens on both sides. All the three modules have a lamp inside, which illuminates the silkworm. Because of its translucent characteristics, it gives numerous impressions of light, according to the objects inside and the type of light of each moment, completing a whole cycle of reflections seen through the bug's skin, from day to night.
It was a excellent opportunity to work and experiment new materials and explore their intrinsic characteristics, that might be used for other projects.



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