

## COMPANY PROFILE



## DESIGN and CONSULTANCY



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Chafic Abi Rached Bldg. - District 1  
P.O.Box 40234, Baabda - Lebanon  
Tel/Fax: +961 5 923344 - GSM +961 3 227435  
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## ENGINEERING THE IMPOSSIBLE



# Engineering The Impossible

*The successful completion of many projects all across the world has earned P.A.R.Consultants a reputation for Excellence. While we take pride in our past accomplishments, we continue to utilize our prior experience as a foundation for developing innovative techniques and solutions for our clients and future perspectives.*



*P.A.R.Consultants support  
Baabda Forest preservation.*



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www.parconsultants.com



## Our CORPORATE SOCIAL RESPONSIBILITY aims to support:

- T.E.R.R.E. Liban's  
Environmental projects
  - Forest Fire Fighting
  - Youth Activities
  - Baabda Forest
  - Recycling



Baabda, Chatic Abi Rached 3<sup>rd</sup> dg. - Tel/Fax: (+961) 5 923344  
P.O.Box: 40234 - Baabda, Lebanon - info@parconsultant.com

## 1. Introduction:

P.A.R. Consultants has references in:

**Buildings,**

Commercial Centers, Housing and Offices,  
Hotels, Hospitals, Schools and Universities,  
Industrial, Recreational and Religious Construction, Government and Military Buildings  
using reinforced concrete and prestressed structures ( steel and post- tensioned structures)

**Highways and Bridges,**

Steel and postensioned elements.

**Infrastructure,**

Sewerages, Irrigation and Flood Control,

**Reservoirs, Silos, Ports and Sea Structures,**

**Industrial,**

Incinerators, Sea Water Desalination Plants, waste water treatment plants, Electrical  
Power Plants, Pumping Stations, etc ...

**Dams,**

**High rised buildings,**

**Damage assessment and strengthening works,**

A substantial part of P.A.R. Consultants professional activities is addressed to local and international Clients, Contractors and/or Consultants in order to prepare for them the following:

- Conception, Design, Control and Execution of establishments of industrial type, housing and receiving the public.
- Conception, Design, Control and Execution of Civil Structural Works.
- Conception, Design, Control and Execution of rehabilitation projects including the preparation of the damage assessment reports and of the works related to the lowering of the levels of foundations of buildings (Underpinning Works).
- Modeling of Structures on Robot Millennium including their seismic & dynamic analysis.
- Preparation of contracts, technical specifications, bill of quantities and projects cost estimate.
- Preparation of « Design & Build » contracts, Planning, Value Engineering.
- Elaboration of Shop Drawings and Bar Bending schedules.
- Coordination, Site Supervision and Construction Management

The team, under the authority of Mr. Pierre ABI RACHED (CEO and Managing Director), covers all construction fields in addition to other activities insuring the required level of quality and safety.



## **2. Location:**

The office is located in ChaficAbiRached Bldg. – District 1,  
P.O. Box: 40234, Baabda - Lebanon  
Tel/Fax: +961 5 923344 – GSM: +961 3 227435  
Web site: [www.parconsultants.com](http://www.parconsultants.com), email: [info@parconsultants.com](mailto:info@parconsultants.com)

## **3. Software:**

Projects were modeled using Robot Millenium.  
Some of these models were used by ROBOBAT as an international reference.  
(Web site: [www.robobat.com](http://www.robobat.com))

- Robot Millennium – Structural Analysis & Design Software
- RobotConcreteBuilding System (CBS)
- SAP 80-90-2000 ( Structural analysis program series )
- Safe-Etabs
- PCA Series Portland of cement Association for reinforced concrete design.
- RDM
- SOCO
- AutoCAD 2004 -2007
- RCAD
- Microsoft Project
- MS Excel
- MS Word

## **4. Quality control procedure:**

### **Management responsibility,**

Policy understood, implemented and maintained at all levels  
Resources allocated  
Management representative with proper authority designated  
Permanent management review

### **Quality system procedures,**

Procedures and work instruction implemented.

### **Contract review,**

Clarification, amendments and evaluation.

**Design control,**

- General

Designs to meet the initial specified requirements

- Design and development planning

Trained people are assigned with sufficient resources.

- Original and technical interfaces

Interfaces and communication lines are identified and documented.

- Design input

Design input data are identified and documented.

- Design output

Design output data are identified and documented

- Design review

Design results at appropriated stages are reviewed

Records are maintained

- Design verification

Design output are verified to meet design input criteria

- Design validation

Conformity to user needs and/or requirements is verified

- Design changes

Design changes to be documented.

**Document issue,**

Issue of approved, authorized and validated document

Obsolete documents immediately removed.

**Backup of produced documents,****Virus tracking,**

## 5.Main implemented projects:

### 5.1. Residential and Office Buildings:

#### DAMAC TOWER (2012 - 2013)

**CLIENT** : MAN Enterprise S.A. L.

**CONSULTANTS:** ERGA GROUP

**VALUE** : ~ 8,750,000 US Dollars (Concrete Works)

**AREA** : ~ 51,160 m<sup>2</sup>

**LOCATION** : Solidere – LEBANON

**PROJECT DESCRIPTION:** The project consists of a ground floor, 28 upper floors, roof, middle roof, top of roof, technical floor and four basements.

**PROJECT MISSION:** Structural Consultancy, Design Review and Shop Drawings Elaboration including bar bending schedules.





## **CREDIT LIBANAIS HEADQUARTES (2011 - 2012)**

**CLIENT** : MAN Enterprise S.A. L.

**ENGINEER** : Mr. Ghassan Baaklini

**CONSULTANTS:** ERGA GROUP

**LOCATION** : Achrafieh - LEBANON

**PROJECT DESCRIPTION:** The project consists of two blocks building:

1. Podium building comprises a ground floor, 3 upper floors, top of roof and six basements.
2. Tower building comprises a ground floor, 34 upper floors, top of roof and three basements.

**PROJECT MISSION:** Structural Consultancy, Design Review and Shop Drawings Elaboration including bar bending schedules.



## **SAMA BEIRUT TOWER (2011 - 2012)**

**CLIENT** : MAN Enterprise S.A. L.

**PROJECT MANAGER/ENGINEER:** D.G. Jones & Partners/Mr. Elie Issa

**CONSULTANTS:** ERGA GROUP

**VALUE** : ~ 14,810,000 US Dollars (Concrete Works)

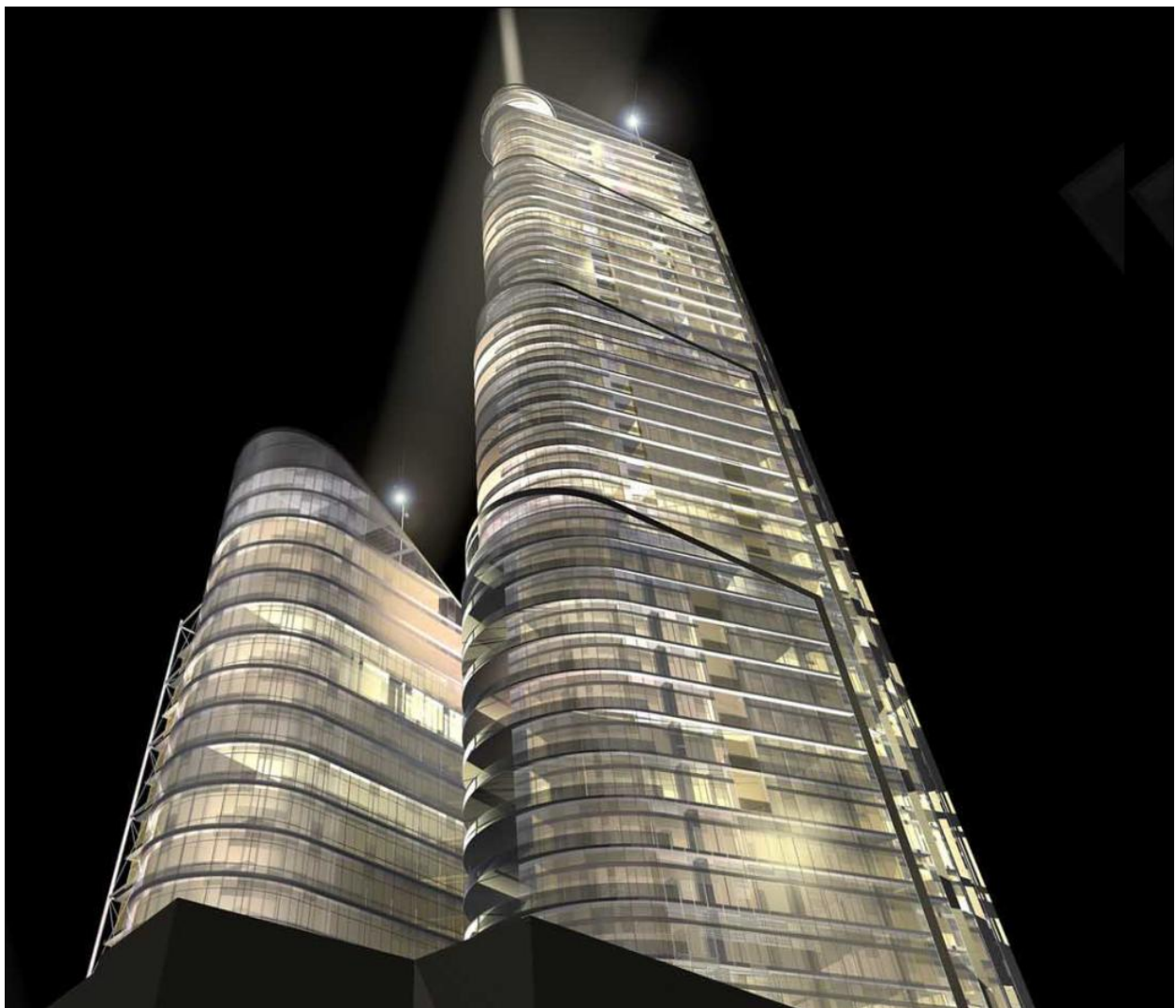
**AREA** : ~ 86,600 m<sup>2</sup>

**LOCATION** : Achrafieh - LEBANON

**PROJECT DESCRIPTION:** The project consists of two blocks building:

3. Podium building comprises a ground floor, 2 upper floors and six basements.
4. Tower building comprises a ground floor, two mezzanines, 52 upper floors, roof, top of roof and six basements.

**PROJECT MISSION:** Structural Consultancy, Design Review and Shop Drawings Elaboration including bar bending schedules.



## **SKY GATE TOWER (2011 - 2012)**

**CLIENT** : MAN Enterprise S.A. L.

**ENGINEER** : CMA

**CONSULTANTS**: Nabil Gholam Architecture & Planning

**VALUE** : ~12,825,000 US Dollars (Concrete Works)

**AREA** : ~75,000m<sup>2</sup>

**LOCATION** : Achrafieh - LEBANON

**PROJECT DESCRIPTION:** The project consists of two buildings:

1. Low rise building comprises a ground floor, mezzanine floor, 2 upper floors and five basements.
2. High rise building comprises 2 blocks: the podium that comprises a ground floor and six basements and the tower that comprises a ground floor, a mezzanine floor, 42 upper floors, roof, top of roof and six basements

**PROJECT MISSION:** Design Review, Structural Consultancy and Shop Drawings Control, Verification and Elaboration including bar bending schedules.





## DREAM CITY - Iraq (2011 - 2012)

**CLIENT** : Nasri Group Co.

**ARCHITECT** : Nasri Group Co.

**VALUE** : 60,363,000 US Dollars (Concrete Works)

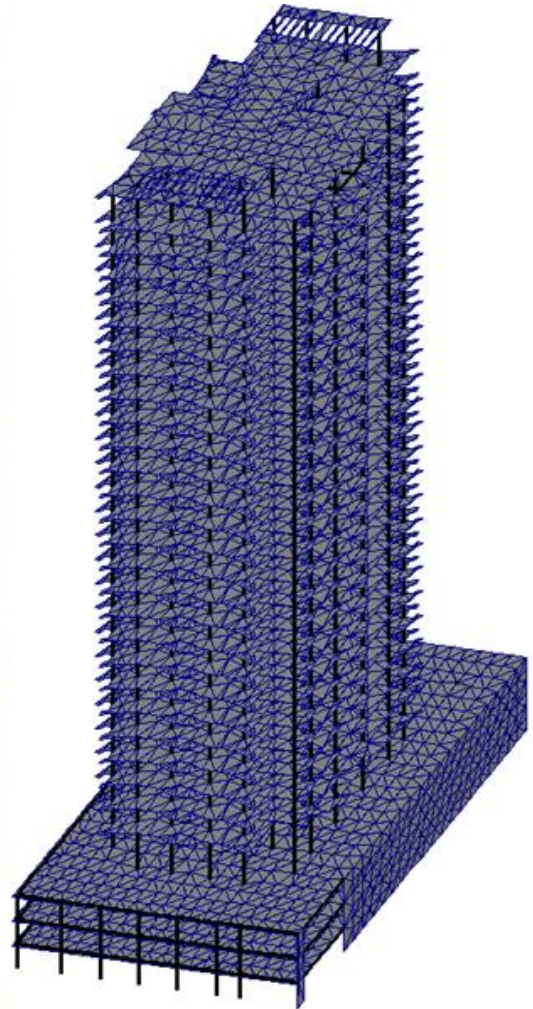
**AREA** : 353,400 m<sup>2</sup>

**LOCATION** : Arbil - IRAQ

**PROJECT DESCRIPTION:** The project consists of 14 buildings of 2 types with 3 common basements:

1. 7 buildings comprise a ground floor, 23 upper floors, a penthouse, a roof and a top of roof.
2. 7 buildings comprise a ground floor, 18 upper floors, a roof and a top of roof

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and preparation of the execution drawings.



## **BEIRUT HEIGHTS- Achrafieh 909 (2009 - 2012)**

**CLIENT** : Mr. Marcel MOUAWAD

**ARCHITECT:** A-Consult

**CONSTRUCTION MANAGEMENT:** MS Partners

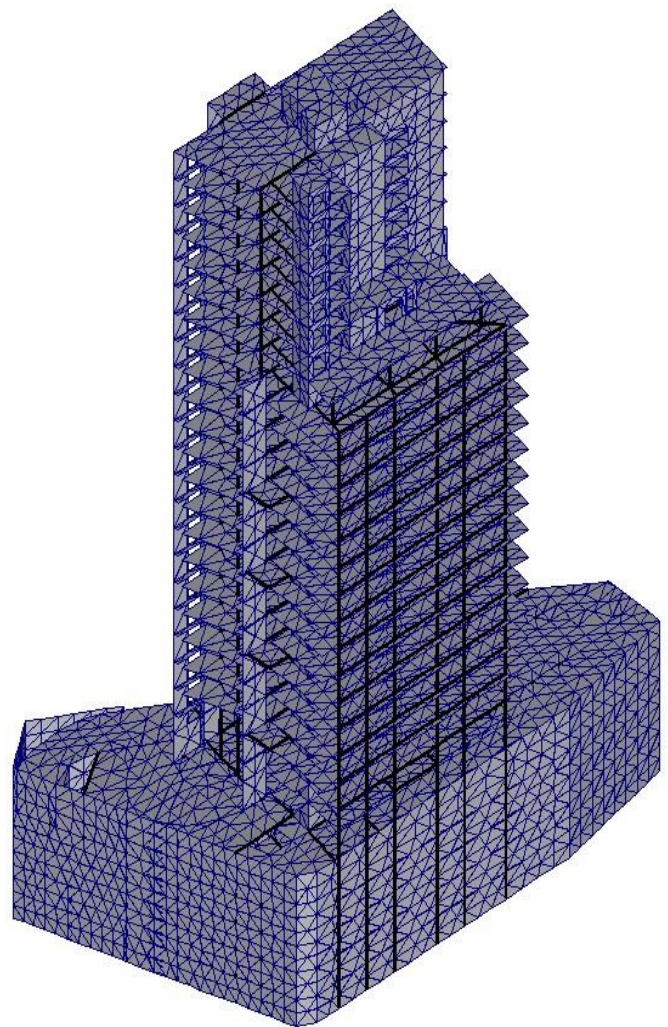
**VALUE** : 5,600,000 US Dollars (Concrete Works)

**AREA** : 28,594m<sup>2</sup>

**LOCATION** : Achrafieh - LEBANON

**PROJECT DESCRIPTION:** The project consists of two towers that comprise a ground floor, a mezzanine, 15/18 upper floors, roof, top of roof and five basements.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.





## RESIDENCE DU PARC (2011 - 2012)

**CLIENT** : Kfour Engineering & Contracting  
**ENGINEER** : Mr. Chaouki Farhat  
**VALUE** : 2,565,000 US Dollars (Concrete Works)  
**AREA** : 15,000m<sup>2</sup>  
**LOCATION** : Saifi - LEBANON

**PROJECT DESCRIPTION:** The project consists of a ground floor, mezzanine floor, 15 upper floors and six basements.

**PROJECT MISSION:** Structural Consultancy, Design Review and Shop Drawings Elaboration including bar bending schedules.





## JAL EL DIB 413 (2010-2012)

**ARCHITECT:** Ar+h Architects

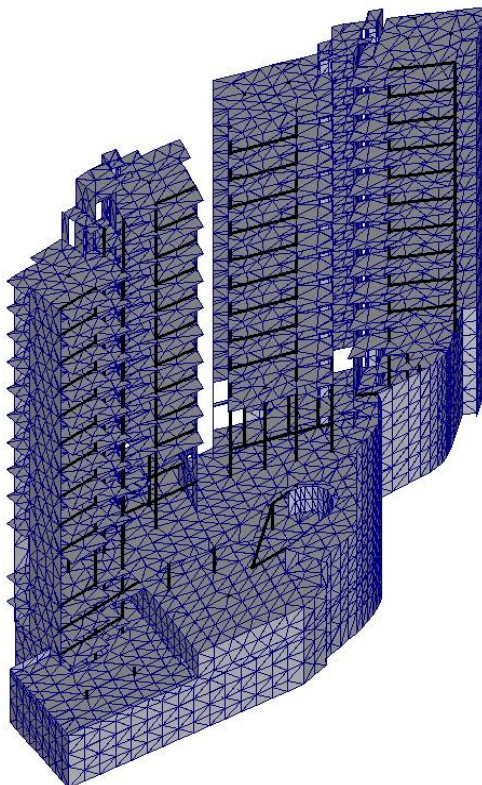
**VALUE** : 2,025,000 US Dollars (Concrete Works)

**AREA** : 11,833m<sup>2</sup>

**LOCATION** : Jal El Dib - LEBANON

**PROJECT DESCRIPTION:** The project consists of four residential buildings that comprise a ground floor, 11/13 upper floors and four basements.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## **BLC BANK - Sassine (2010-2012)**

**CLIENT** : BLC Bank

**ARCHITECT**: Nadim Karam & Atelier Hapsitus

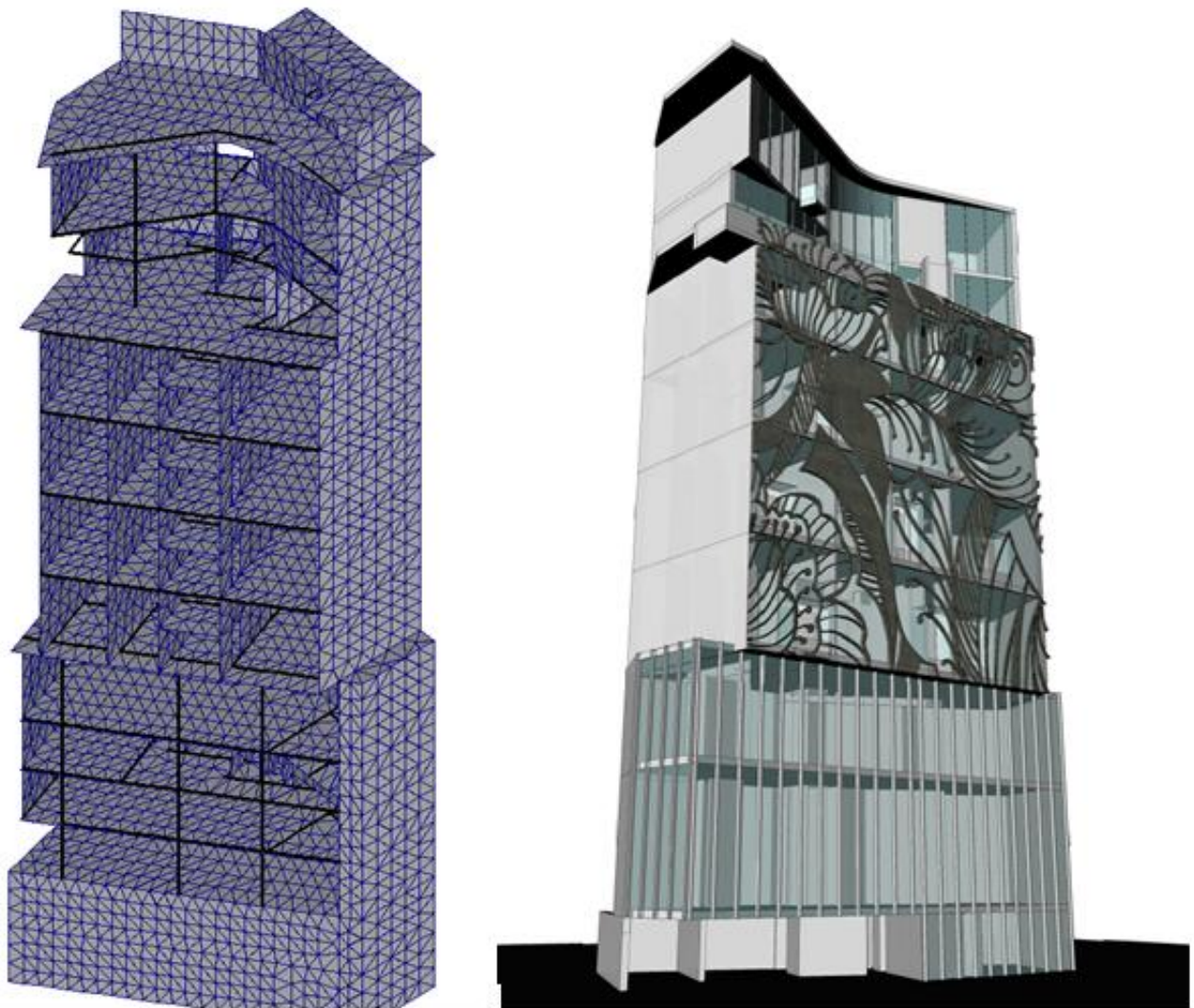
**VALUE** : 927,000 US Dollars (Concrete Works)

**AREA** : 5,421m<sup>2</sup>

**LOCATION** : Achrafieh - LEBANON

**PROJECT DESCRIPTION**: The project consists of a ground floor, 14 upper floors, a roof and three basements.

**PROJECT MISSION**: Structural design including seismic analysis, consultancy and permanent supervision.





## **BANQUET HALL (2011-2012)**

**ARCHITECT:** A-Consult

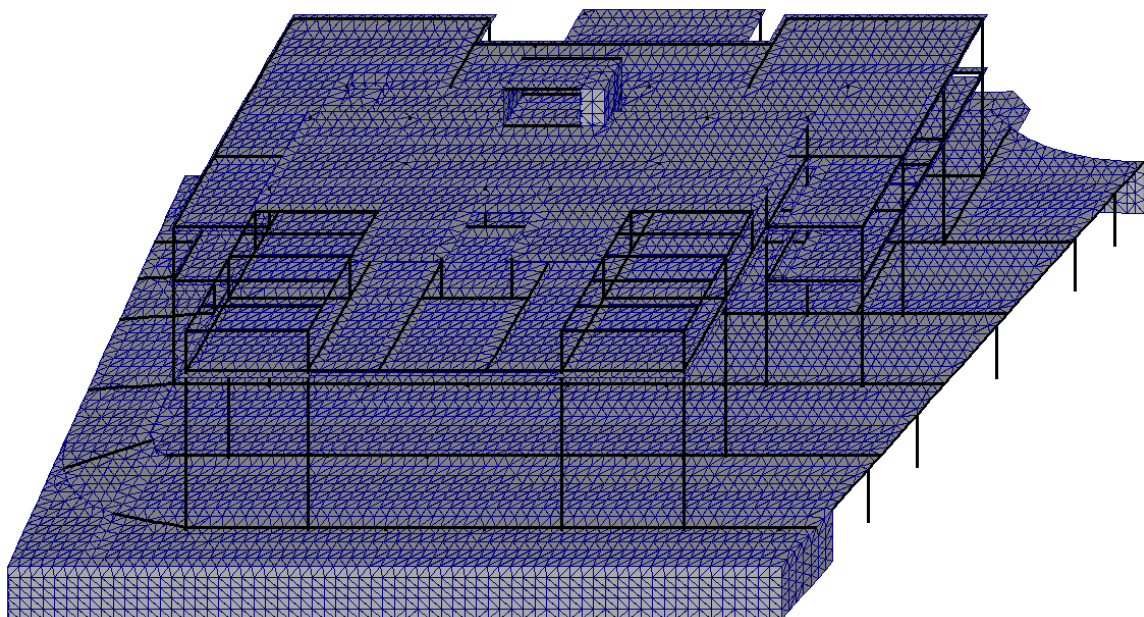
**VALUE** : 2,042,000 US Dollars (Concrete Works)

**AREA** : 11,938m<sup>2</sup>

**LOCATION** : Reef Island - Bahrain

**PROJECT DESCRIPTION:** The project consists of a Complex with one basement, a ground floor and two upper floors including related underpinning works for the basement extension.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and supervision.





## ZENITH TOWER (2009 - 2011)

**CLIENT** : MAN Enterprise S.A.L.

**CONSULTANTS:** ERGA Group

**VALUE** : 4,178,000 US Dollars (Concrete Works)

**AREA** : 30,275m<sup>2</sup>

**LOCATION** : Achrafieh - LEBANON

**PROJECT DESCRIPTION:** The project consists of two towers that comprise a ground floor, mezzanine floor, 13/21 upper floors and five basements.

**PROJECT MISSION:** Structural Consultancy, Design Review and Shop Drawings Elaboration including bar bending schedules.



## **IMMEUBLE 2452 (2010-2012)**

**ARCHITECT:** Mr. Zafer SLEIMAN

**CONSTRUCTION MANAGEMENT:** Mr. Naji OUEISS

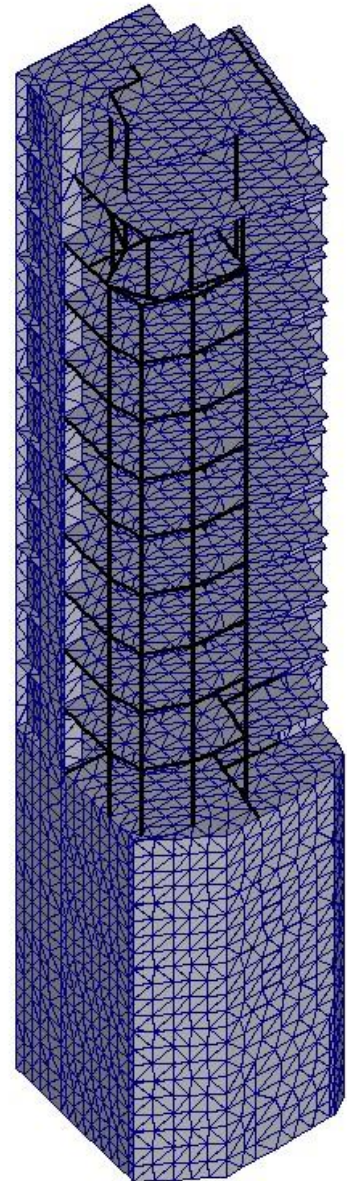
**VALUE** : 418,000 US Dollars (Concrete Works)

**AREA** : 3,029m<sup>2</sup>

**LOCATION** : Hamra - LEBANON

**PROJECT DESCRIPTION:** The project consists of a ground floor, ten upper levels and six basements along with related external works.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.





## ACHRAFIEH PRINCE (2008 - 2011)

**CLIENT** : Al-Samir Immobilière S.A.L.

**ARCHITECT**: R. A. Architects

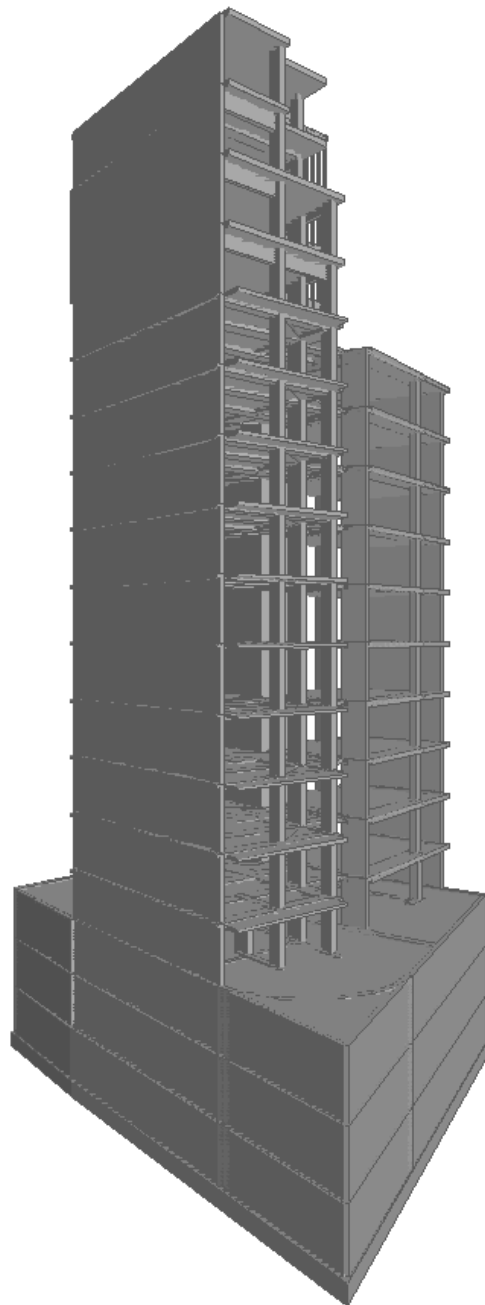
**VALUE** : 795,000 US Dollars (Concrete Works)

**AREA** : 5,845m<sup>2</sup>

**LOCATION** : Madrassat Salam Street, Achrafieh - LEBANON

**PROJECT DESCRIPTION**: The project consists of two towers including a ground floor and 10/13 upper floors and three basements.

**PROJECT MISSION**: Structural Redesign, Value Engineering and Shop Drawings/ Bar Bending schedules Elaboration including seismic analysis.





## SODECO BUILDING (2009 - 2011)

**ARCHITECT:** Mr. Ghassan ABOU HAIDAR

**VALUE** : 1,240,000 US Dollars (Concrete Works)

**AREA** : 8,982m<sup>2</sup>

**LOCATION** : Sodeco - LEBANON

**PROJECT DESCRIPTION:** The project consists of a ground floor/ Mezzanine, nine upper levels, duplexes, roof/top of roof floors and four basements along with related external works.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## HORIZON TOWER (2010)

**CLIENT** : MAN Enterprise S.A. L.

**CONSULTANTS** : CBA GROUP architects engineers

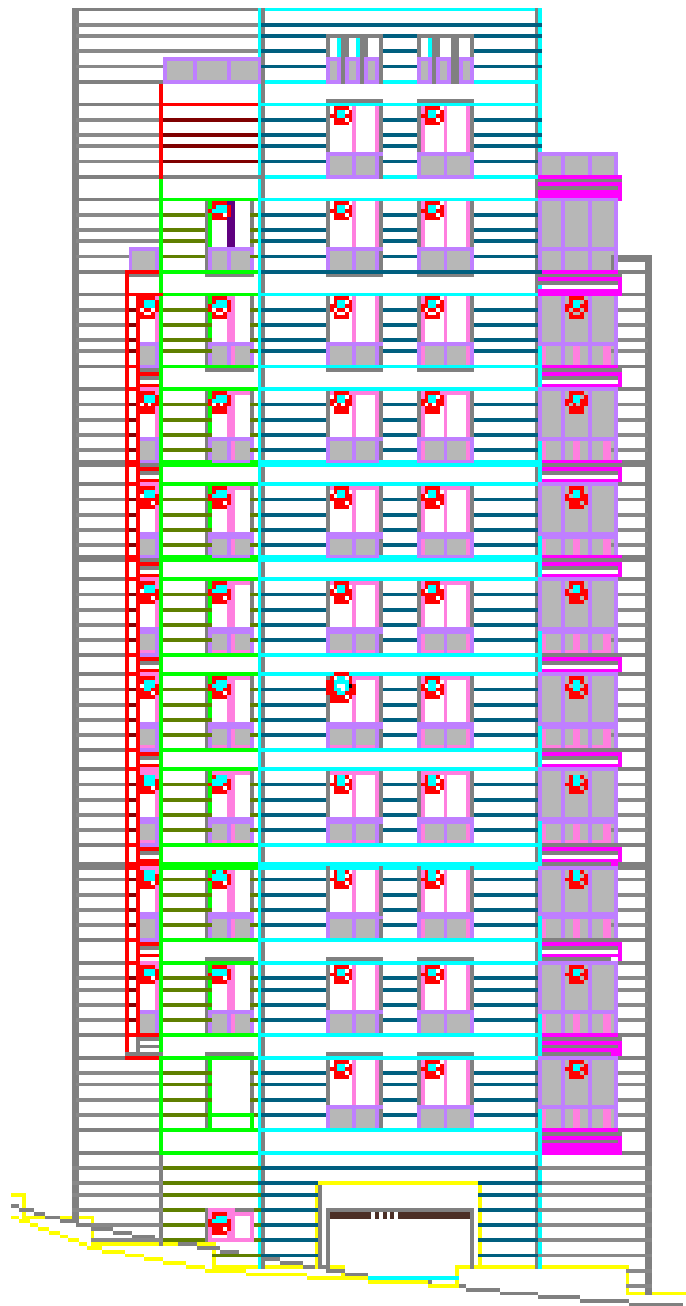
**VALUE** : 1,163,340 US Dollars (Concrete Works)

**AREA** : 8,430m<sup>2</sup>

**LOCATION** : Raoucheh - LEBANON

**PROJECT DESCRIPTION:** The project consists of a ground floor, a technical floor, 11 upper floors, roof, top of roof and five basements.

**PROJECT MISSION:** Structural Consultancy and Shop Drawings Elaboration including bar bending schedules.



## BORJ AL SAQR (2007)

**CLIENT** :RAKEEN

**ARCHITECT**: T.A.A. Architects

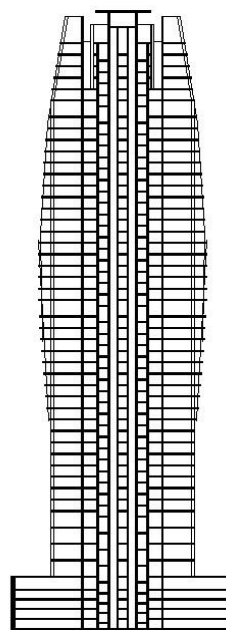
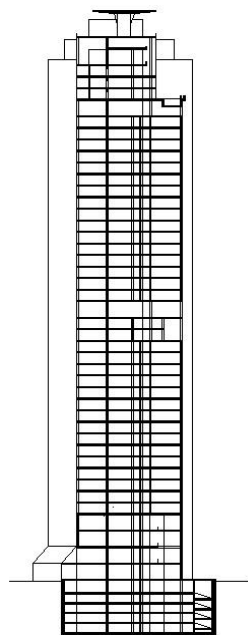
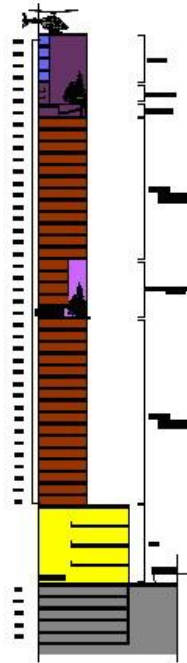
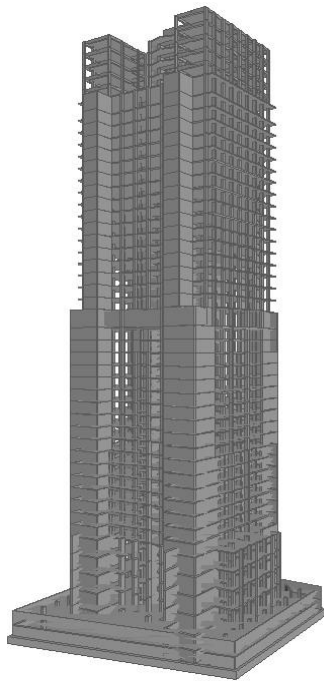
**VALUE** : 9,522,000 US Dollars (Concrete Works)

**AREA** : 69,000m<sup>2</sup>

**LOCATION** : Ras El Khaima - UAE

**PROJECT DESCRIPTION**: The project consists of five basements and 44 upper floors.

**PROJECT MISSION**: Structural concept, modeling and Structural elements pre-dimensioning following the Wind and seismic analysis.





## DREAMBAY

**CLIENT** : Est. JAMIL IBRAHIM

**LOCATION:** Lot 1222 – Ras Beirut - LEBANON

**PROJECT DESCRIPTION:** The project consists of 25 stories.

**PROJECT MISSION:** Technical control for the project, as a member of SOCOTEC LIBAN including: Solidity, Facades, Seismic Protection, Fire safety, Performance of technical equipment, disabled access.



## EMAAR HEADQUARTERS

**CLIENT** : EMAAR

**ARCHITECT**: NG Architecture & Planning

**LOCATION** : Dubai- UNITED ARAB EMIRATES

**PROJECT DESCRIPTION**: The project consists of two towers (twin towers).

**PROJECT MISSION**: Structural modeling including seismic and wind analysis



6589 NODES – 3062 E.BARS - 12738 F.E

## **BSOUS 155 (2010-2011)**

**CLIENT** : Mr. Habib FEGHALY

**ARCHITECT:** CHIBANI Group

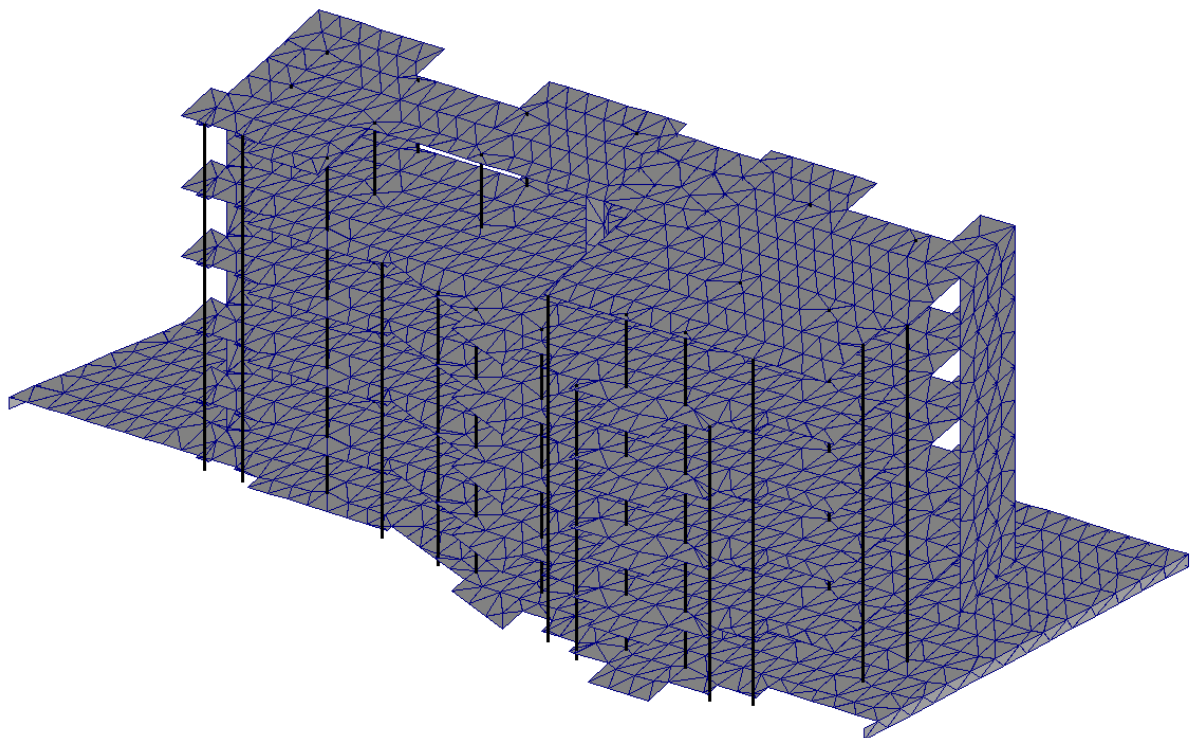
**VALUE** : 325.680 US Dollars (Concrete Works)

**AREA** : 2,360m<sup>2</sup>

**LOCATION** : Bsous - LEBANON

**PROJECT DESCRIPTION:** The project consists of a ground floor, three upper levels, roof and top of roof floors along with related external works.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.





## HADATH LOT 2669 (2010-2011)

**CLIENT** : Mr. Issam GHANIME

**ARCHITECT**: W.A. Architects

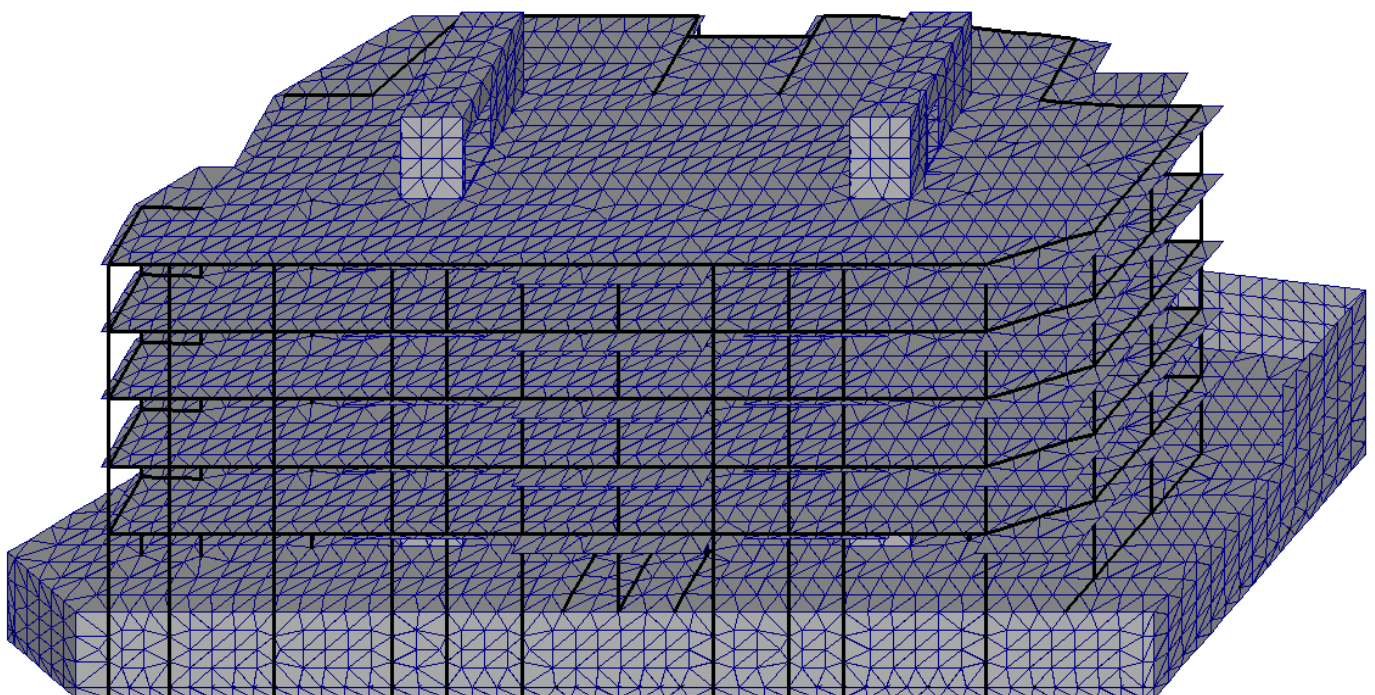
**VALUE** : 581.950 US Dollars (Concrete Works)

**AREA** : 4,217m<sup>2</sup>

**LOCATION** : Hadath - LEBANON

**PROJECT DESCRIPTION**: The project consists of a pilotis/parking floor, four upper levels, roof floor and one basement along with related external works.

**PROJECT MISSION**: Structural design including seismic analysis, consultancy and permanent supervision.



## MARCHAAYA 92 (2009-2011)

**ARCHITECT:** Mr.Elise EL-ACHKAR

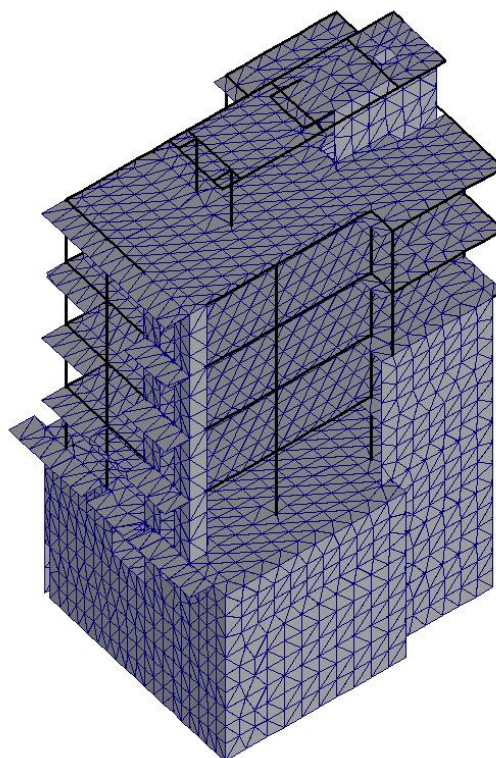
**VALUE** : 247,000 US Dollars (Concrete Works)

**AREA** : 1,790m<sup>2</sup>

**LOCATION** : Marchaaya - LEBANON

**PROJECT DESCRIPTION:** The project consists of a ground floor, three upper levels, roof/top of roof floors and two basements along with related external works.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## LOT 636 DBAYEH (2009-2011)

**CLIENT** : Al-Samir Immobilière S.A.L.

**ARCHITECT**: Mir Samir J. ABBILLAMA

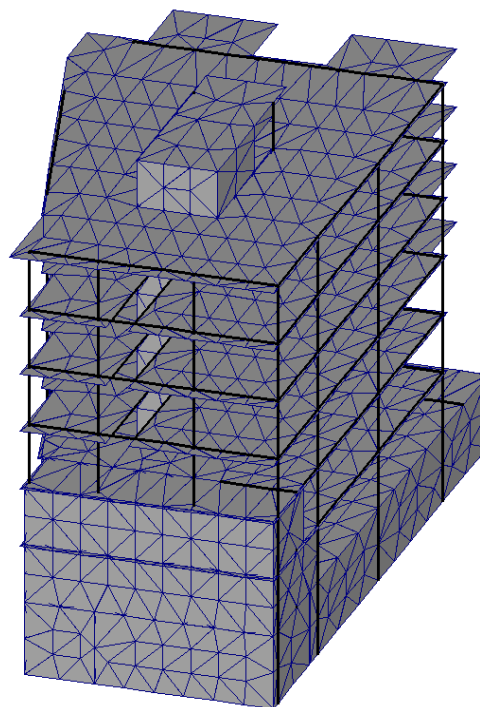
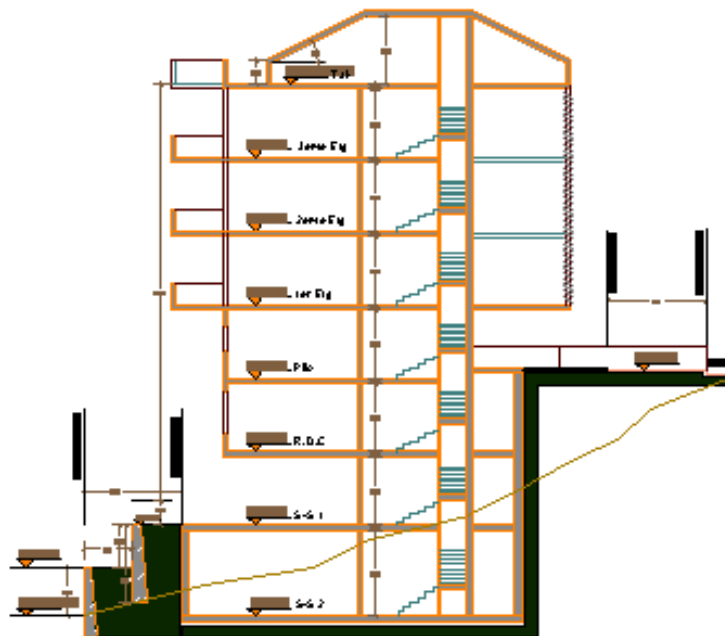
**VALUE** : 323,000 US Dollars (Concrete Works)

**AREA** : 2,339m<sup>2</sup>

**LOCATION** : Zouk El Khrab - LEBANON

**PROJECT DESCRIPTION**: The project consists of a ground floor, four upper floors, roof, pitched roof and two basements.

**PROJECT MISSION**: Structural design including seismic analysis, consultancy and permanent supervision.





## DBA Projects, Block 51-02, 50-02 & 03 (2008 - 2009)

**CLIENT** : ABNIAH S.A.R.L.

**ARCHITECT**: Mr. Nabih SINNO

**VALUE** : 5,174,000 US Dollars (Concrete Works)

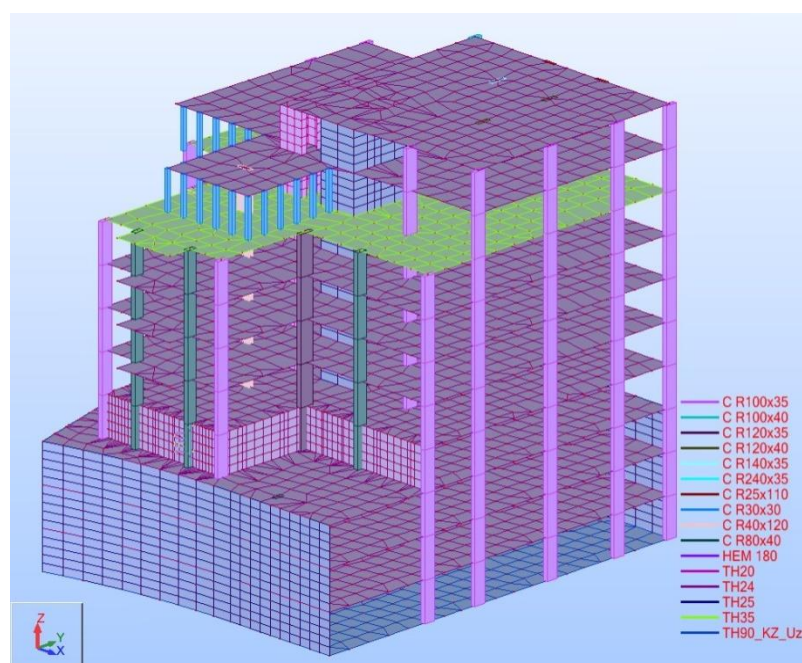
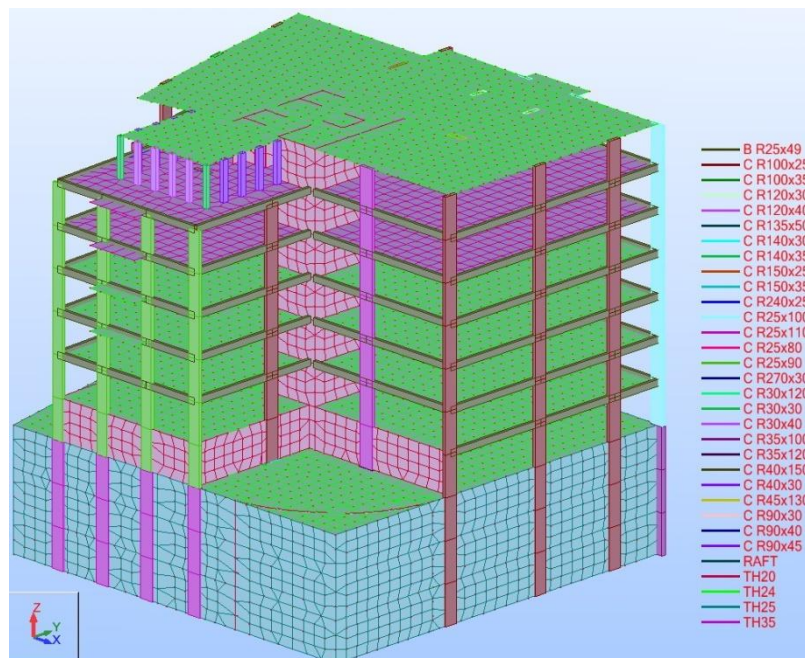
**AREA** : 27,000m<sup>2</sup>

**CONCRETE VOLUME**: 13,439m<sup>3</sup>

**LOCATION** : Mina El Hosn- BCD Block 2 - LEBANON

**PROJECT DESCRIPTION**: The project consists of three residential buildings.

**PROJECT MISSION**: Structural Redesign, Value Engineering and Shop Drawings Elaboration including seismic analysis.



## **BLOCK 24 – LOT 1356 (KARAGULLA)**

**CLIENT** : KARAGULLA General Engineering & Contracting

**ARCHITECT:** T.A.A. Architects

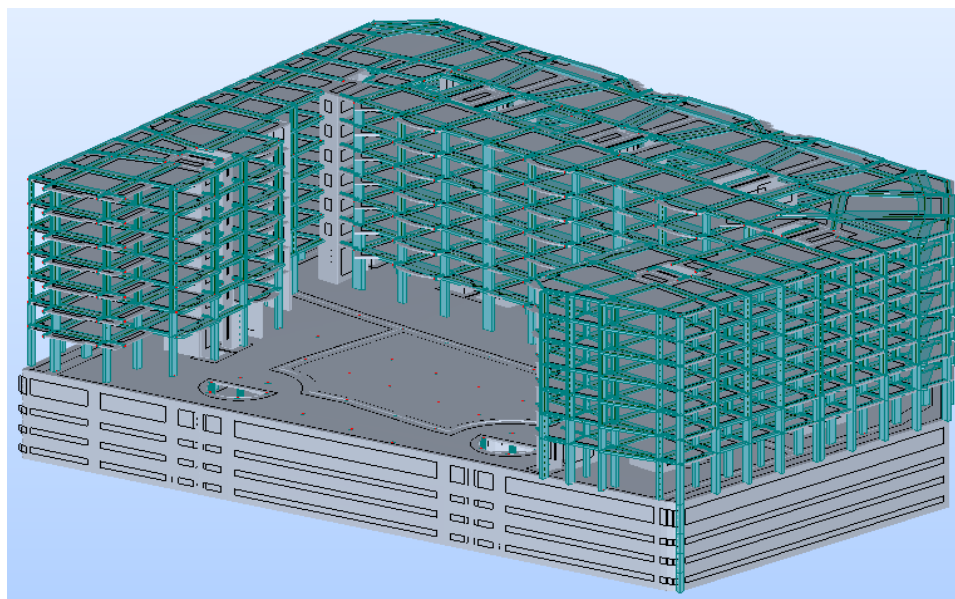
**VALUE** : 30,000,000 US Dollars

**AREA** : 52,000 m<sup>2</sup>

**LOCATION** : BCD - BEIRUT - LEBANON

**PROJECT DESCRIPTION:** The project consists of three residential blocks, 4 basements, ground floor and 6 upper floors.

**PROJECT MISSION:** Structural design including seismic analysis along with permanent supervision.





## 146 DEBBAS SQUARE

**CLIENT** : SOLIDERE

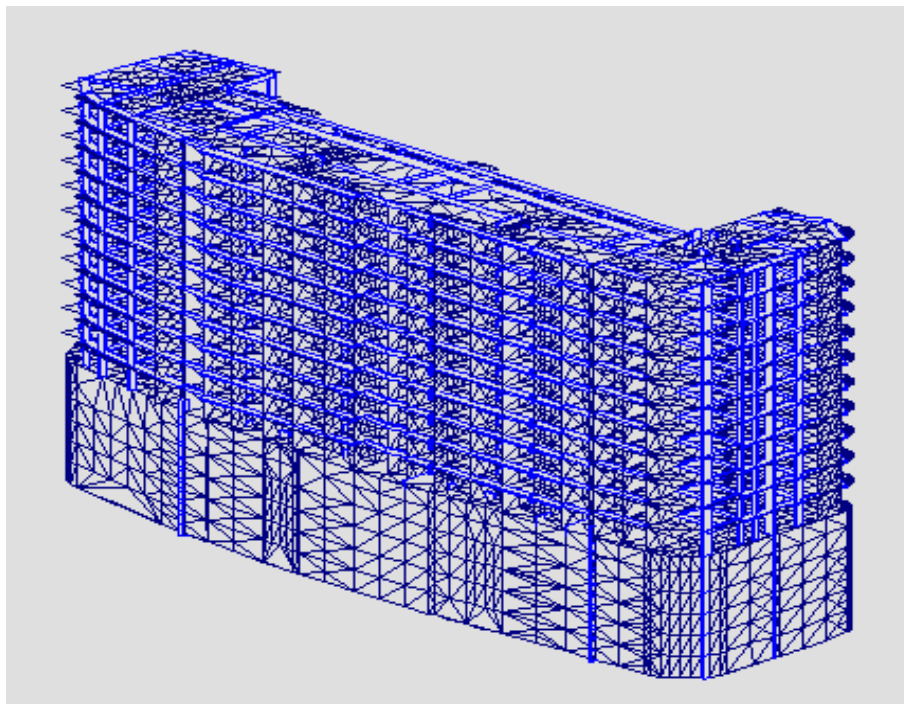
**ARCHITECT**: NG Architecture & Planning

**AREA** : 38,812m<sup>2</sup>

**LOCATION** : SAIFI - BCD - LEBANON

**PROJECT DESCRIPTION**: The project consists of three residential blocks, 5 basements and 8 upper floors each.

**PROJECT MISSION**: Structural design including seismic analysis.



15588 NODES – 3217 E.BARS - 29991 F.E.



## 178 DEBBAS SQUARE

**CLIENT** : SOLIDERE

**ARCHITECT**: NG Architecture & Planning

**AREA** : 21,183m<sup>2</sup>

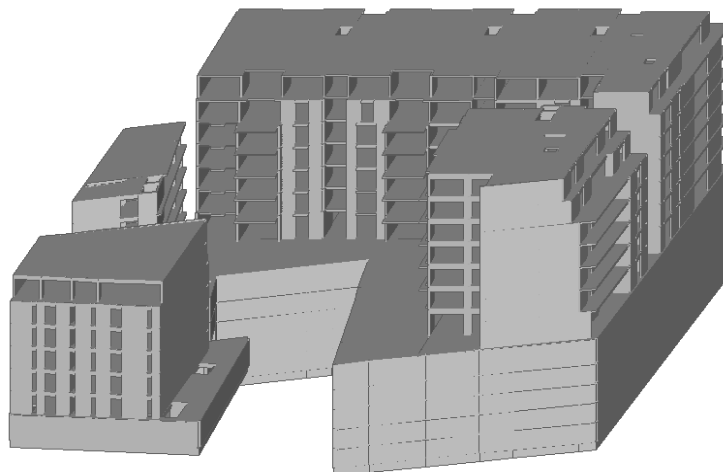
**LOCATION** : SAIFI - BCD - LEBANON

**PROJECT DESCRIPTION**: The project consists of three residential blocks, 5 basements and 7 upper floors each.

**PROJECT MISSION**: Structural design including seismic analysis.



**3 Blocks Residential Complex**



## FOCH 94 Project

**CLIENT** : Hourie Development

**ARCHITECT**: NG Architecture & Planning – Vincent Van Duysen

**VALUE** : 2,760,000 US Dollars (Concrete Works)

**AREA** : 20,000 m<sup>2</sup>

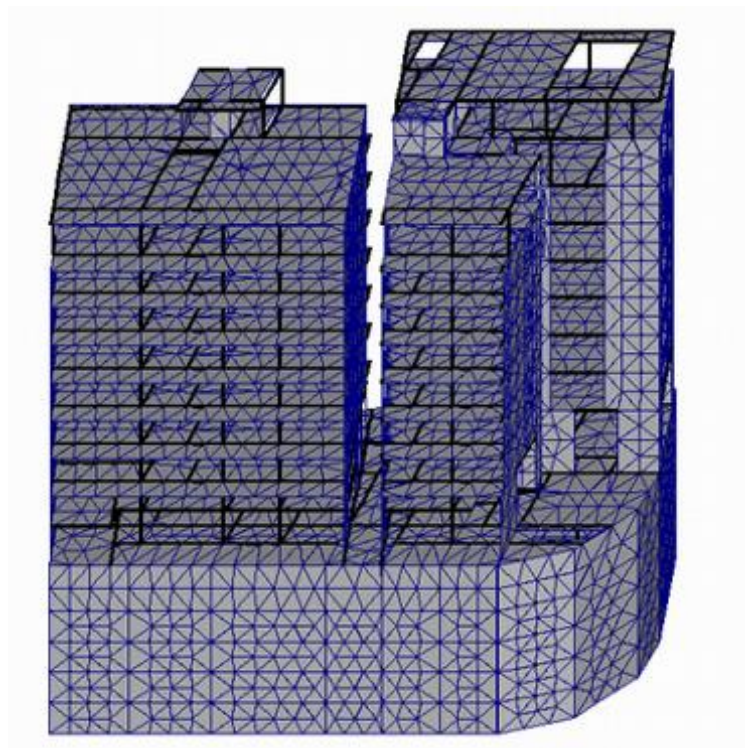
**LOCATION** : BCD - BEIRUT - LEBANON

**PROJECT DESCRIPTION**: The project consists of two residential blocks including retail areas.

**PROJECT MISSION**: Structural design including seismic analysis.



**3 Blocks Residential Building**



## FOCH 94 Project (2007)

### Stones Facades

**CLIENT** : Hourie Development

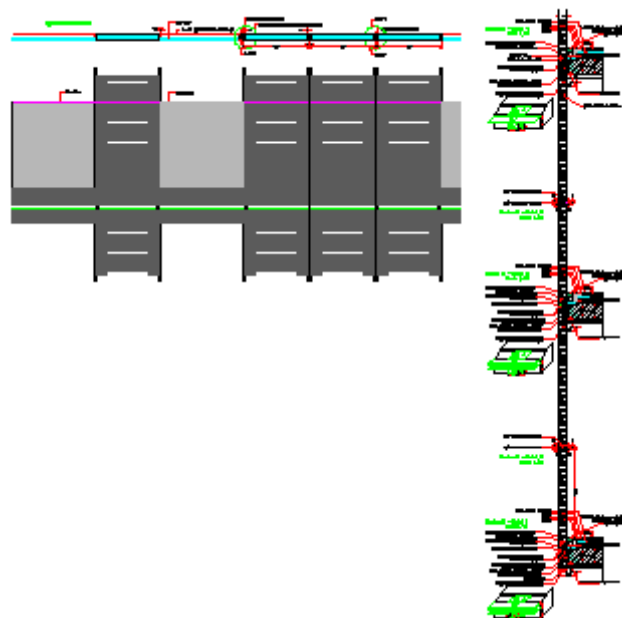
**ARCHITECT**: NG Architecture & Planning – Vincent Van Duysen

**VALUE** : 1,500,000 US Dollars

**LOCATION** : BCD - BEIRUT - LEBANON

**PROJECT DESCRIPTION**: Elevations Stone Panels

**PROJECT MISSION**: Stainless Steel Trusses Supporting the facades stones.





## **BYBLOS SUD (2008 - 2010)**

**CLIENT** : TPD – Touristic and Development Company S.A.L.

**ARCHITECT**: Pierre El-Khoury & Partners – K.Z.Architects

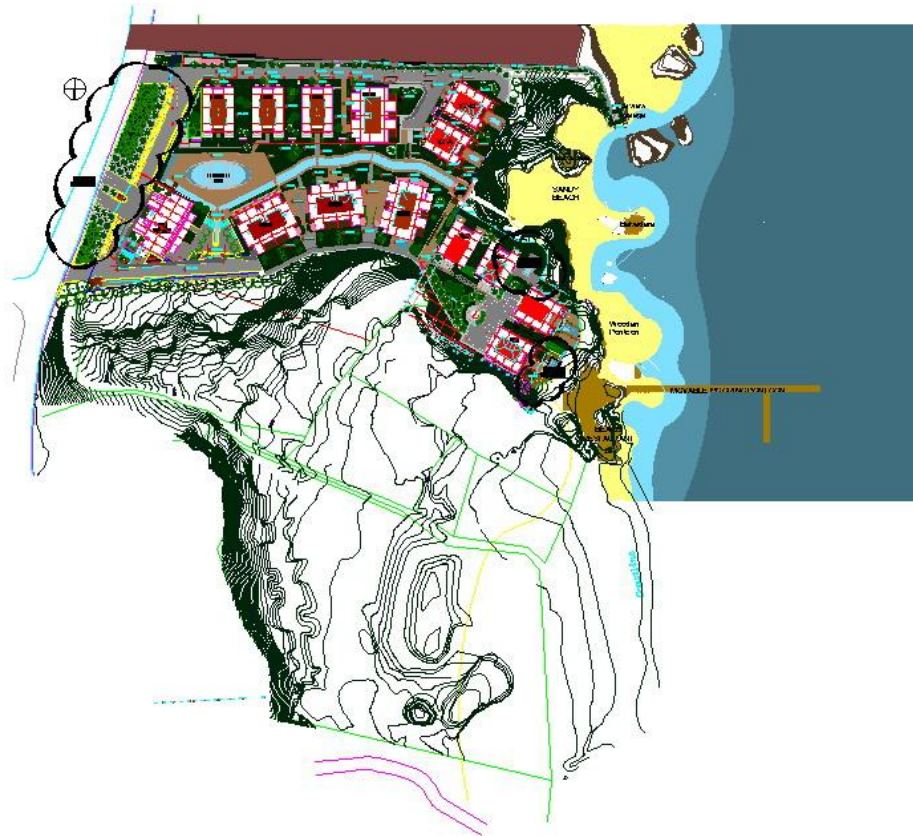
**VALUE** : 4,536,000 US Dollars (Concrete Works)

**AREA** : 27,000m<sup>2</sup>

**LOCATION** : Kartaboun - LEBANON

**PROJECT DESCRIPTION**: The project consists of several residential blocks / villas including a Hotel at Byblos.

**PROJECT MISSION**: Structural Redesign, Value Engineering including seismic analysis, Consultancy, Shop Drawings Control and follow up.



## MADA VILLAGE (2009 – 2011)

**ARCHITECT:** R. A. Architects

**VALUE** : 1,500,000 US Dollars (Concrete Works)

**AREA** : 7,210m<sup>2</sup>

**LOCATION** : Baskinta - LEBANON

**PROJECT DESCRIPTION:** The project consists of 9 residential lots, 1 lot for guard house and utilities, 2 lots for public space and vehicular circulation and 1 lot for use of the public domain(to be used as main road access) including sewage treatments plants, irrigation & storm water tanks and gutters, channels, fences including retaining walls....

Each villa consists of one basement and maximum two upper levels along with pools and tanks.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.





## VILLA FH (2011 – 2012)

**CLIENT** : Mr. & Mrs. Fouad HADDAD

**ARCHITECT:** Y. TOHME/Architects & Associates

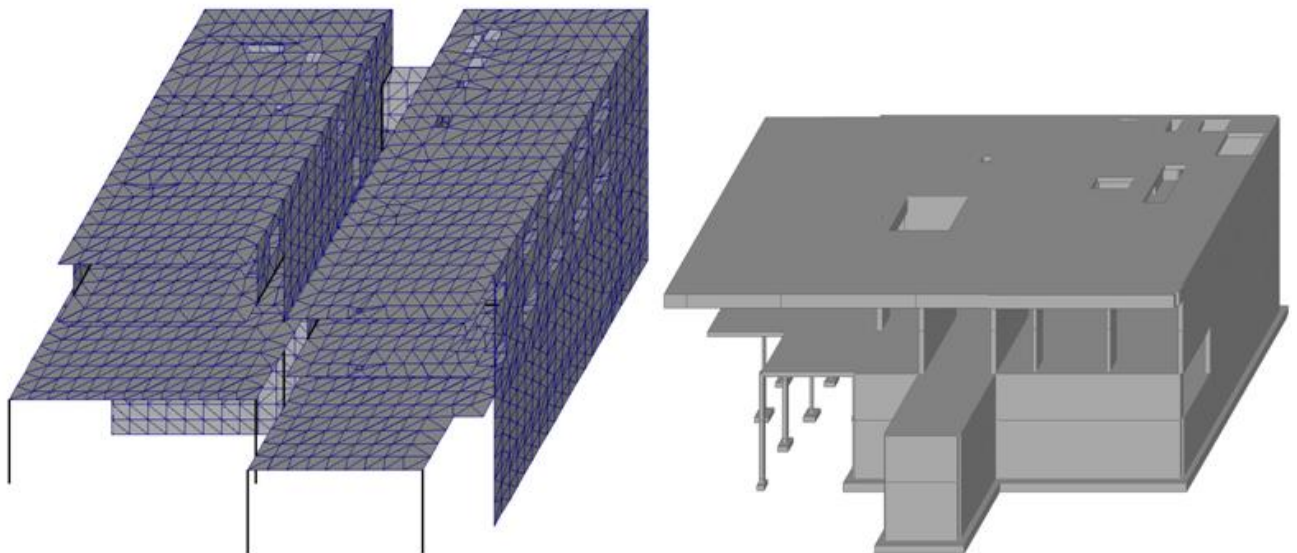
**VALUE** : 726,000 US Dollars (Concrete Works)

**AREA** : 3,185m<sup>2</sup>

**LOCATION** : Baabdat - LEBANON

**PROJECT DESCRIPTION:** The project consists of three villas: one main villa that consists of a basement, a ground floor, and a roof, and two other villas that consist of one common basement, a ground floor, one upper floor for one of them and a roof, along with related external works.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.





## AY HOUSE (2011 – 2012)

**CLIENT** : Mr. and Mrs. ASSEILY

**ARCHITECT:** Nabil Gholam Architecture and Planning

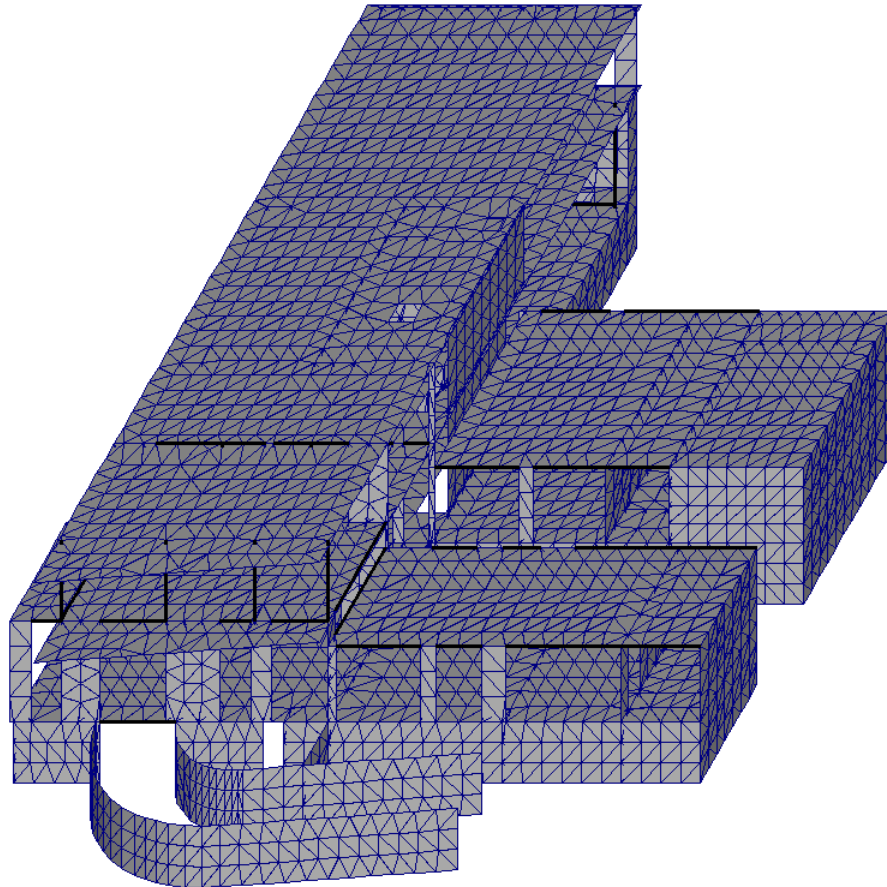
**VALUE** : 655,000 US Dollars (Concrete Works)

**AREA** : 2,866m<sup>2</sup>

**LOCATION** : Yarzeh - LEBANON

**PROJECT DESCRIPTION:** The project consists of one technical basement, a ground floor, one upper floor, a pool house along with pool, tanks and related external works such as technical zones, irrigation & storm water tanks and gutters, channels, fences including retaining walls...

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.

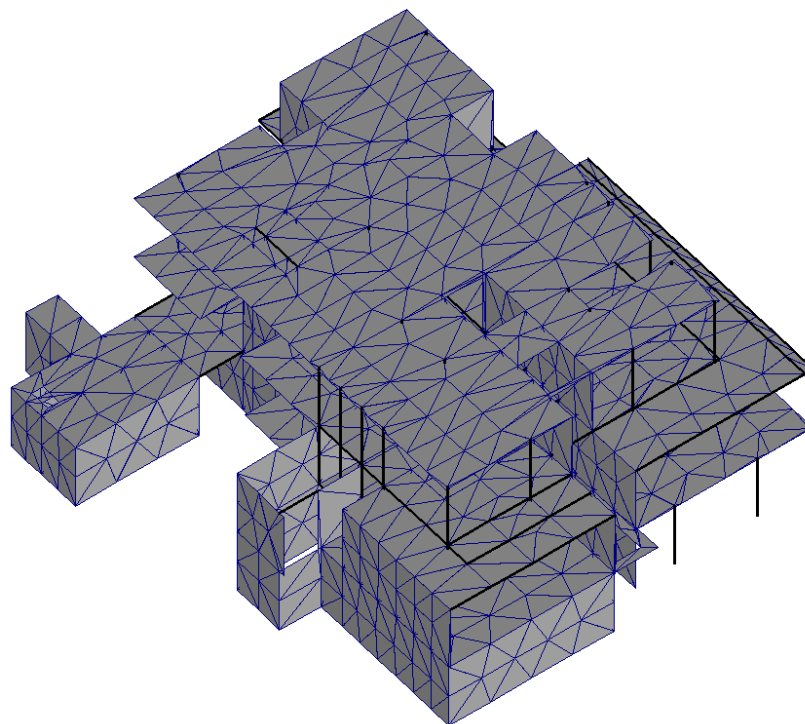


## Hassawy Residence (2011 – 2012)

**CLIENT** : Mr. & Mrs. Fawaz HASSAWY  
**ARCHITECT** : BB Architecture & Interior Design  
**VALUE** : 750,000 US Dollars (Concrete Works)  
**AREA** : 3,275m<sup>2</sup> for the new buildings and 2,160m<sup>2</sup> for the old buildings  
**LOCATION** : Chebanieh - LEBANON

**PROJECT DESCRIPTION:** The project is a residential villa that consists of two new blocks and one existing building.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision of the new buildings and design and a technical assessment for the old one.



## FAQRA 499-500 (2011 – 2012)

**CLIENT** : Mr. & Mrs. DAOUK

**ARCHITECT** : R. A. Architects

**Employer Rep.:** R.I.M.S.

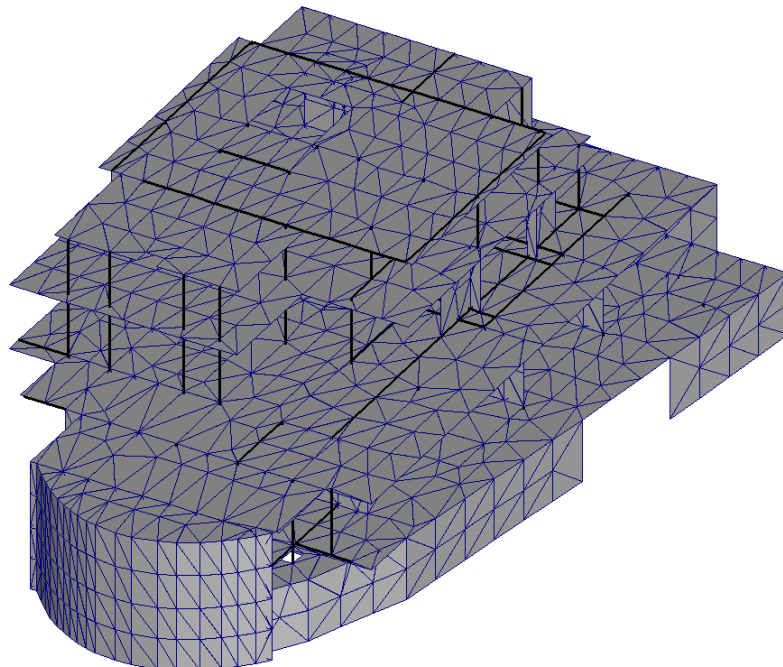
**VALUE** : 800,000 US Dollars (Concrete Works)

**AREA** : 3,492m<sup>2</sup>

**LOCATION** : Kfartay - LEBANON

**PROJECT DESCRIPTION:** The project is a residential villa that consists of two basements, one upper level, a GF and a roof.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.





## VILLA GARZOUZI (2011 – 2012)

**CLIENT** : Mr. Nicolas GARZOUZI

**ARCHITECT** : R. A. Architects

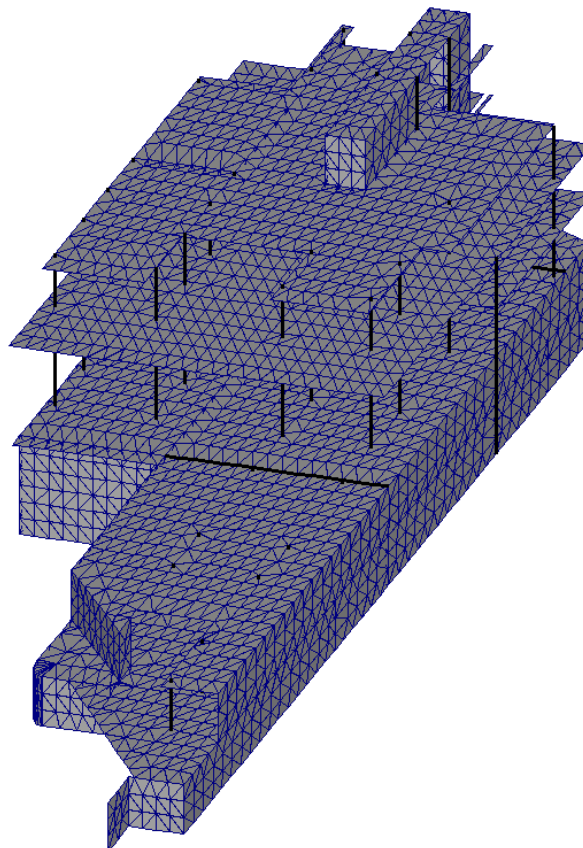
**VALUE** : 850,000 US Dollars (Concrete Works)

**AREA** : 3,728m<sup>2</sup>

**LOCATION** : Kfartay - LEBANON

**PROJECT DESCRIPTION:** The project is a residential villa that consists of two basements, one upper level, an entrance level/GF, and a roof along with a pool, tanks and related external works including retaining walls...

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.

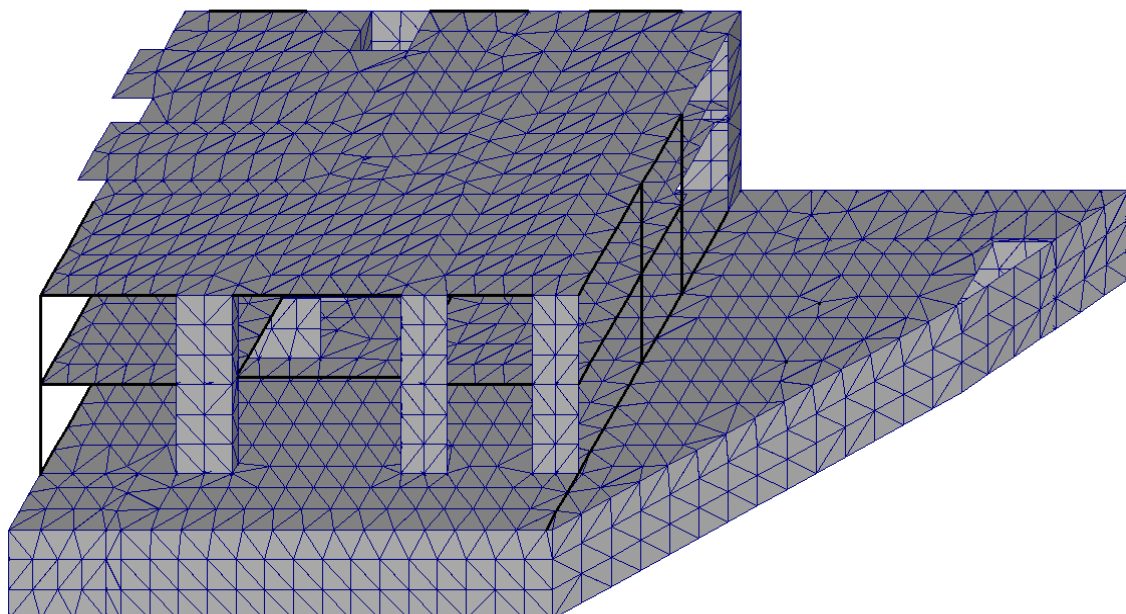


## VILLA TRABOULSI (2010 – 2012)

**CLIENT** : Mr. Elie TRABOULSI  
**VALUE** : 350,000 US Dollars (Concrete Works)  
**AREA** : 1,523m<sup>2</sup>  
**LOCATION:** Youn - LEBANON

**PROJECT DESCRIPTION:** The project consists of a ground floor, a first floor including an attic floor and one basement along with the external works, pool and fences/ retaining walls...

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## VILLA NASSAR (2010 – 2012)

**CLIENT** : Mr. and Mrs. NASSAR

**ARCHITECT:** R. A. Architects

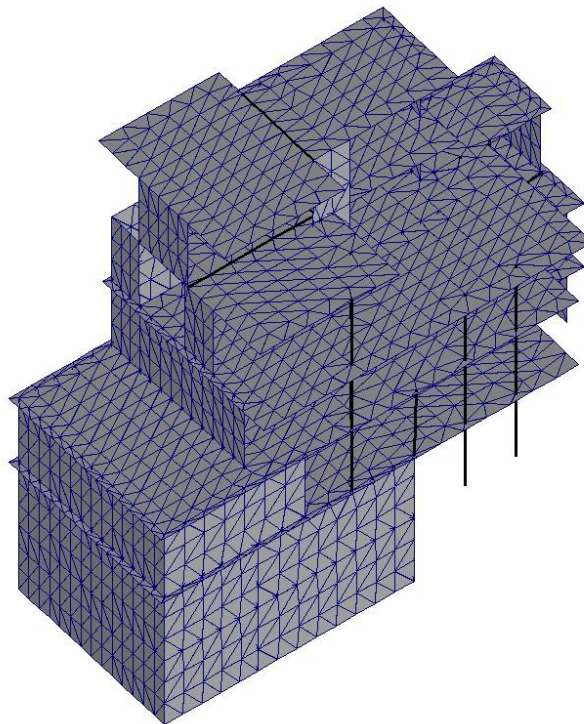
**VALUE** : 270,000 US Dollars (Concrete Works)

**AREA** : 1,173m<sup>2</sup>

**LOCATION** : Faqra - LEBANON

**PROJECT DESCRIPTION:** The project consists of two upper levels, an entrance level and one basement with a pitched roof along with pool, tanks and related external works such as sewage treatments plants and utilities zones, irrigation & storm water tanks and gutters, channels, fences including retaining walls...

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.





## S-HOUSE (2010 – 2012)

**ARCHITECT:** R. A. Architects

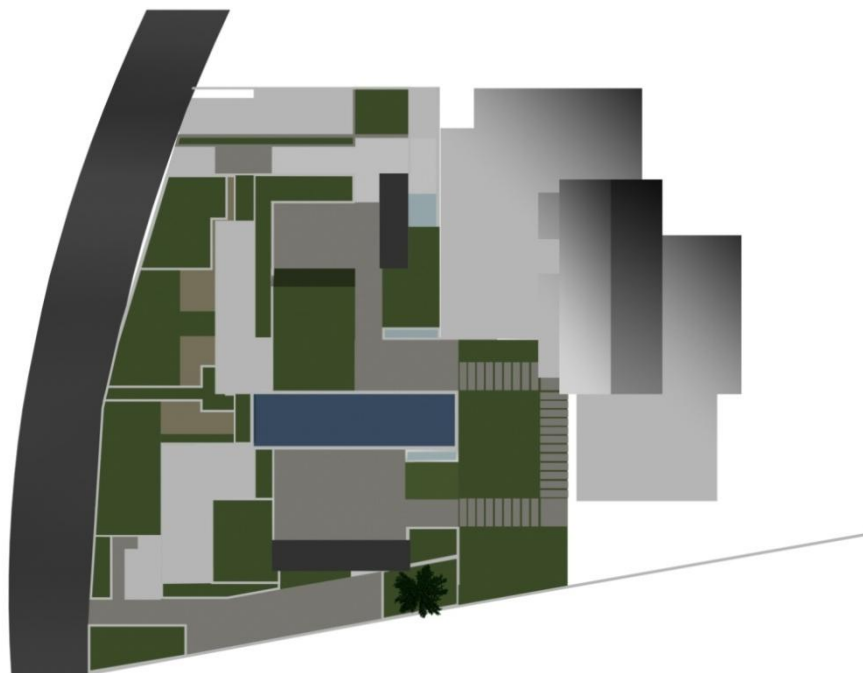
**VALUE** : 820,000 US Dollars (Concrete Works)

**AREA** : 3,601m<sup>2</sup>

**LOCATION** : Yarzeh - LEBANON

**PROJECT DESCRIPTION:** The project consists of a ground floor, one upper floor, a roof/top of roof and two basements along with pool, tanks and related external works such as technical zones, irrigation & storm water tanks and gutters, channels, fences including retaining walls...

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## H-CHALET (2009 – 2011)

**ARCHITECT:** Nabil Gholam Architecture & Planning

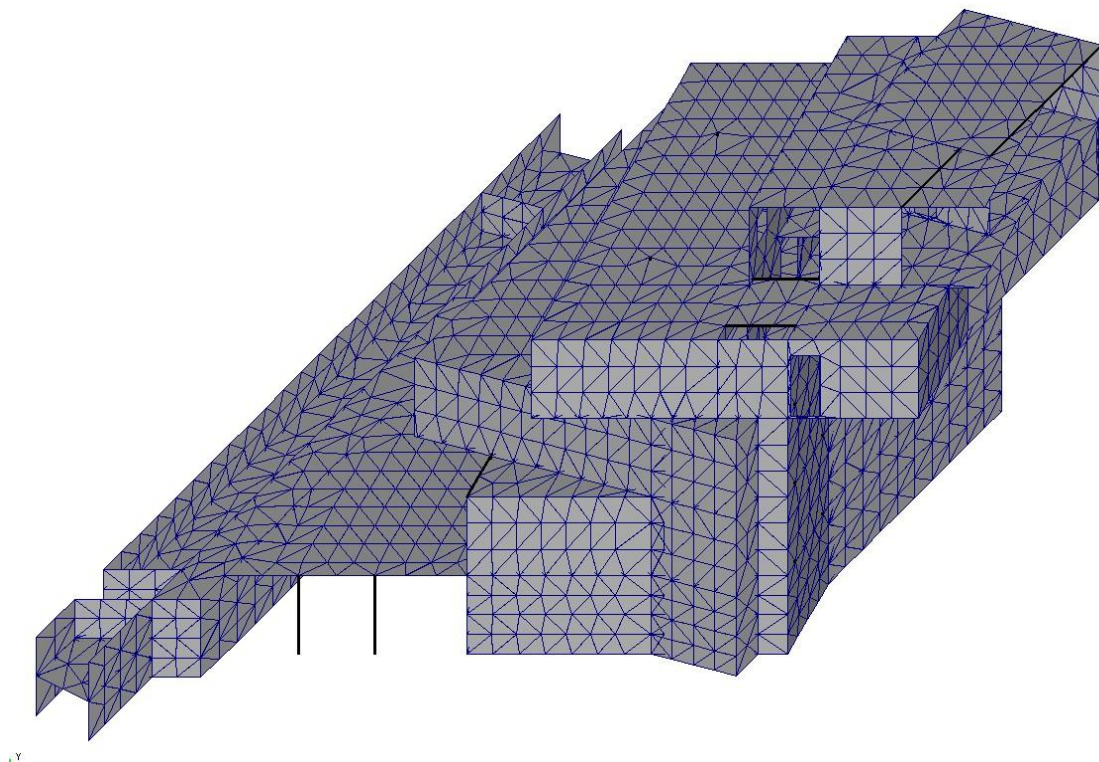
**VALUE** : 238,000 US Dollars (Concrete Works)

**AREA** : 1,720m<sup>2</sup>

**LOCATION** : Faqra - LEBANON

**PROJECT DESCRIPTION:** The project consists of three upper levels, roof/top of roof floors and one basement along with related external works.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## **BROUMANA ENTRANCE (2010-2011)**

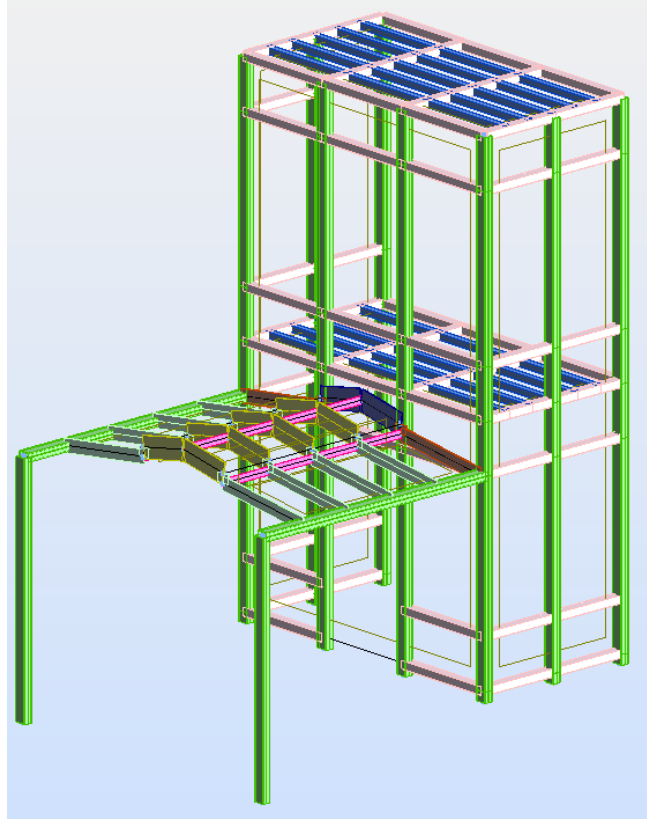
**CLIENT** : Mr. Joseph TABET

**ARCHITECT**: R. A. Architects

**LOCATION** : Broumana - LEBANON

**PROJECT DESCRIPTION**: The project consists of a two story steel structure covering the villa entrance.

**PROJECT MISSION**: Technical control for the solidity of the project.





## DEBBYIEH RESIDENCE - EXTENSION (2008 – 2010)

**CLIENT** : Mr. Samer HAJJ

**ARCHITECT**: Architectes Anonymes

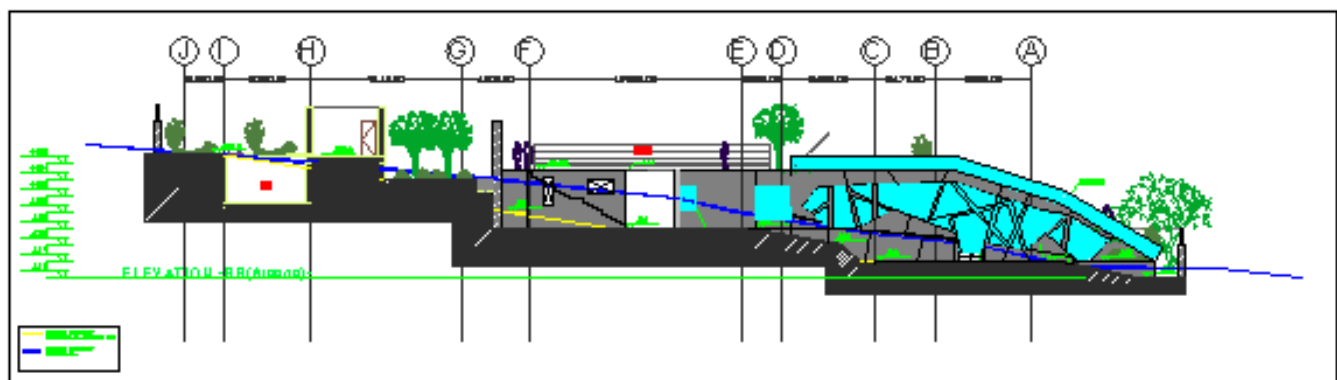
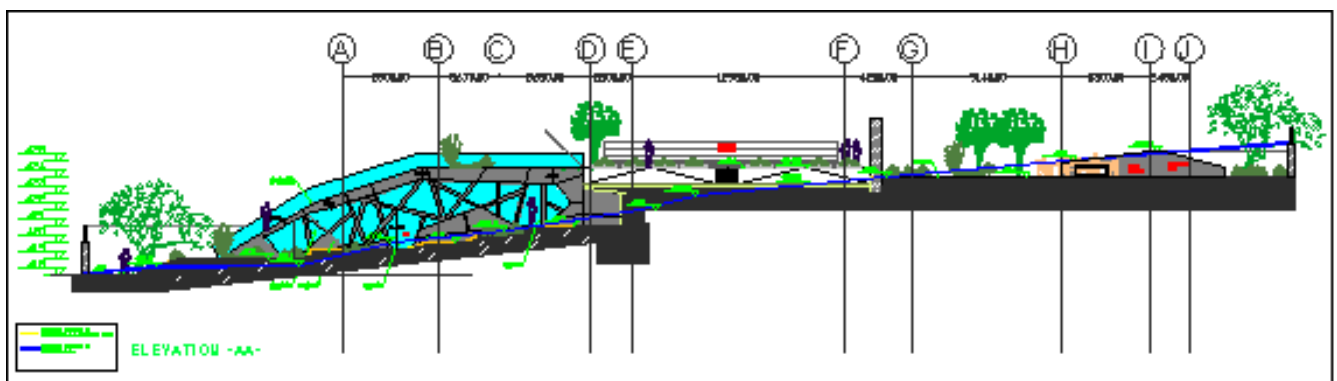
**VALUE** : 152,000 US Dollars (Concrete Works)

**AREA** : 1,100m<sup>2</sup>

**LOCATION** : Debbyieh - LEBANON

**PROJECT DESCRIPTION**: The project consists of a pool with relevant services & decks, additional technical services rooms and quarters along with related external works.

**PROJECT MISSION**: Structural design including seismic analysis, consultancy and permanent supervision.



## NIGERIA MODERN RESIDENCE(2009 – 2010)

**ARCHITECT:** M-Architects

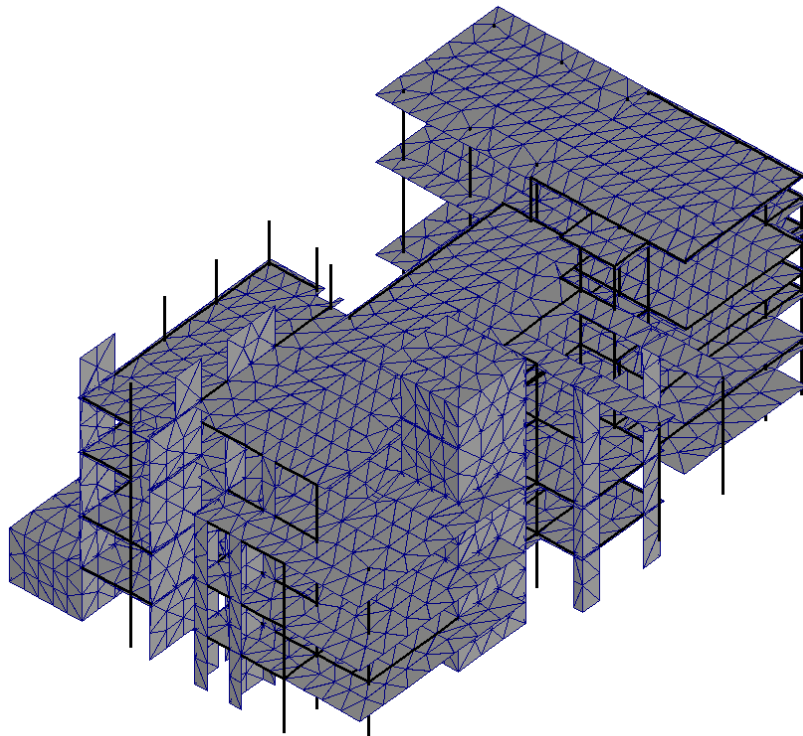
**VALUE** : 526,000 US Dollars (Concrete Works)

**AREA** : 3,810m<sup>2</sup>

**LOCATION** : Lagos - NIGERIA

**PROJECT DESCRIPTION:** The project consists of three upper levels and two basements along with related external works.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## YABROUDI- ITANI RESIDENCE (2009 – 2010)

**CLIENT** : MESSRS. YABROUDI & ITANI

**ARCHITECT**: ARCHIKA Kamal Homsy Architects S.A.L.

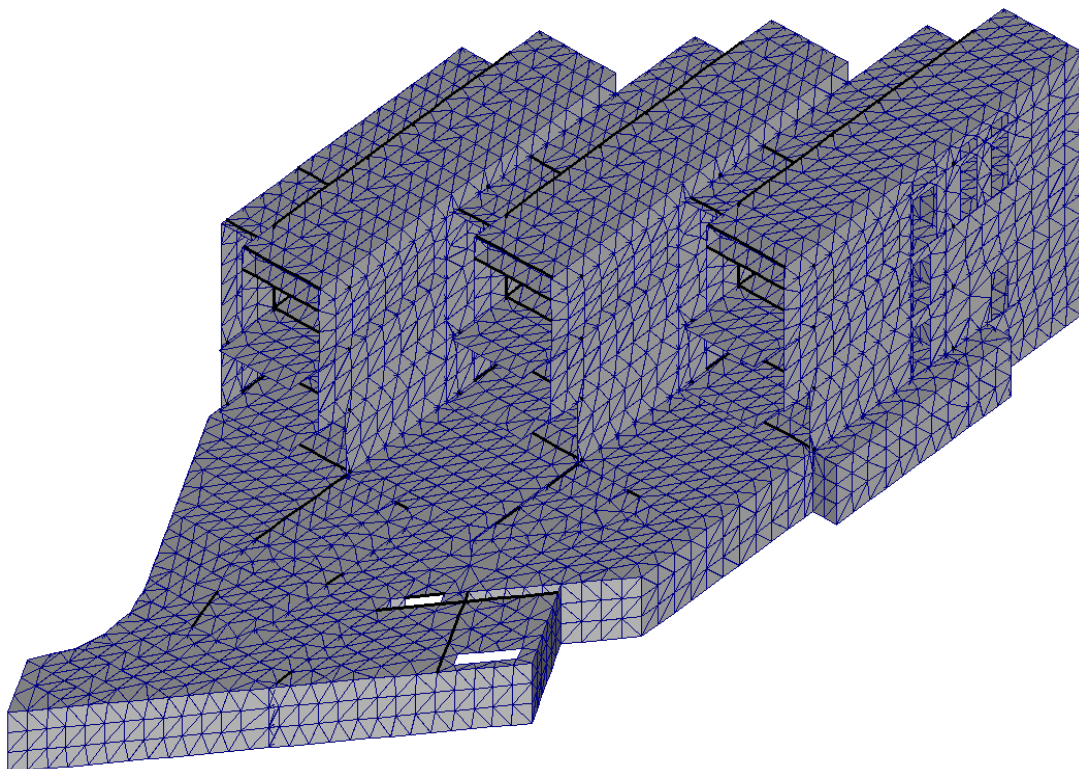
**VALUE** : 500,000 US Dollars (Concrete Works)

**AREA** : 3,610m<sup>2</sup>

**LOCATION** : Faqra - LEBANON

**PROJECT DESCRIPTION**: The project consists of three stories villas, roof floor, pitched roof and one basement along with related external works.

**PROJECT MISSION**: Structural design including seismic analysis.





## FIDAR 1687 BEACH HOUSE (2005-2010)

**CLIENT** : Mr. Karim BASSIL

**ARCHITECT**: R. A. Architects

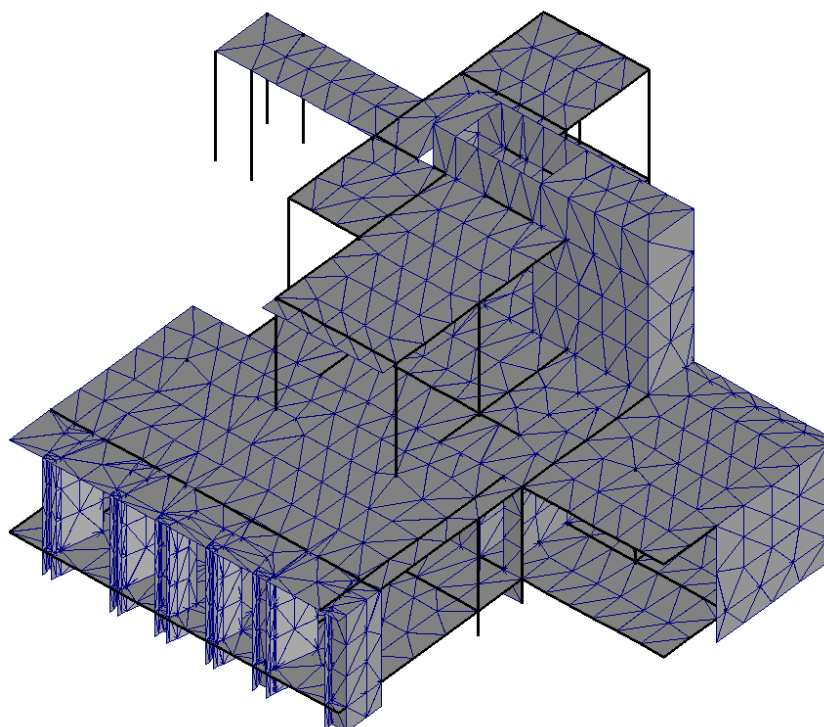
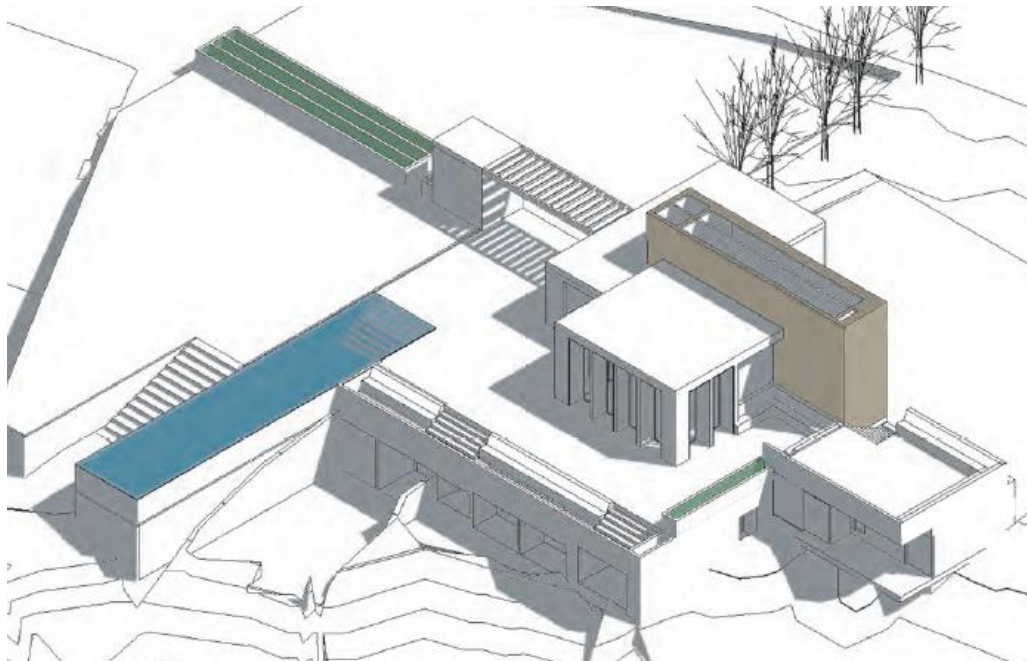
**VALUE** : 275,000 US Dollars(Concrete Works)

**AREA** : 1,815 m<sup>2</sup>

**LOCATION** : Fidar - LEBANON

**PROJECT DESCRIPTION**: The project consists of two upper levels, one basement, a guard house, a pool and related external works.

**PROJECT MISSION**: Structural design including seismic analysis, consultancy and permanent supervision.



## QUEIDA RESIDENCE (2008 – 2009)

**CLIENT** : Mr. and Mrs. OUEIDA

**ARCHITECT:** ARCHIKA Kamal Homsy Architects S.A.L.

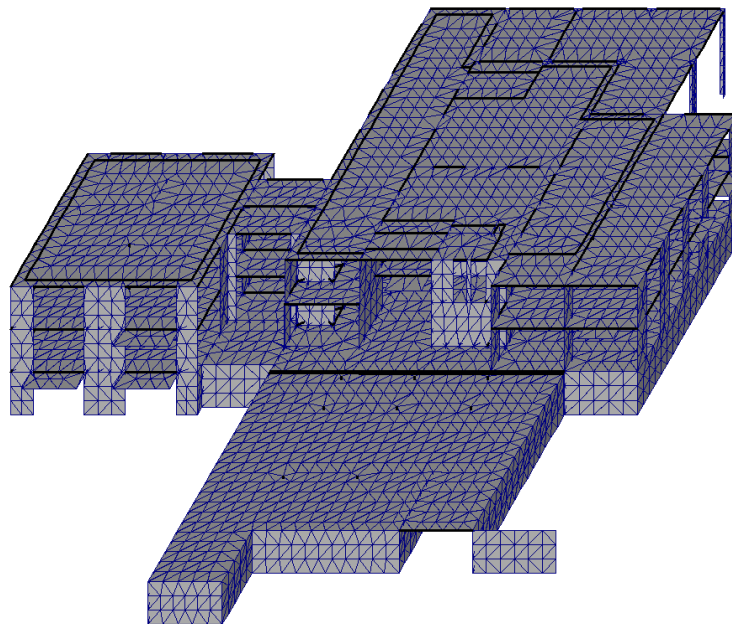
**VALUE** : 730,000 US Dollars (Concrete Works)

**AREA** : 3,580m<sup>2</sup>

**LOCATION** : Knaywer - LEBANON

**PROJECT DESCRIPTION:** The project consists of a three stories villa.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## SABER SUNNY CREST RESIDENCE (2008 – 2009)

**CLIENT** : Mr. and Mrs. SABER

**ARCHITECT**: T.A.A. Architects

**VALUE** : 517,500 US Dollars (Concrete works)

**AREA** : 3,750m<sup>2</sup>

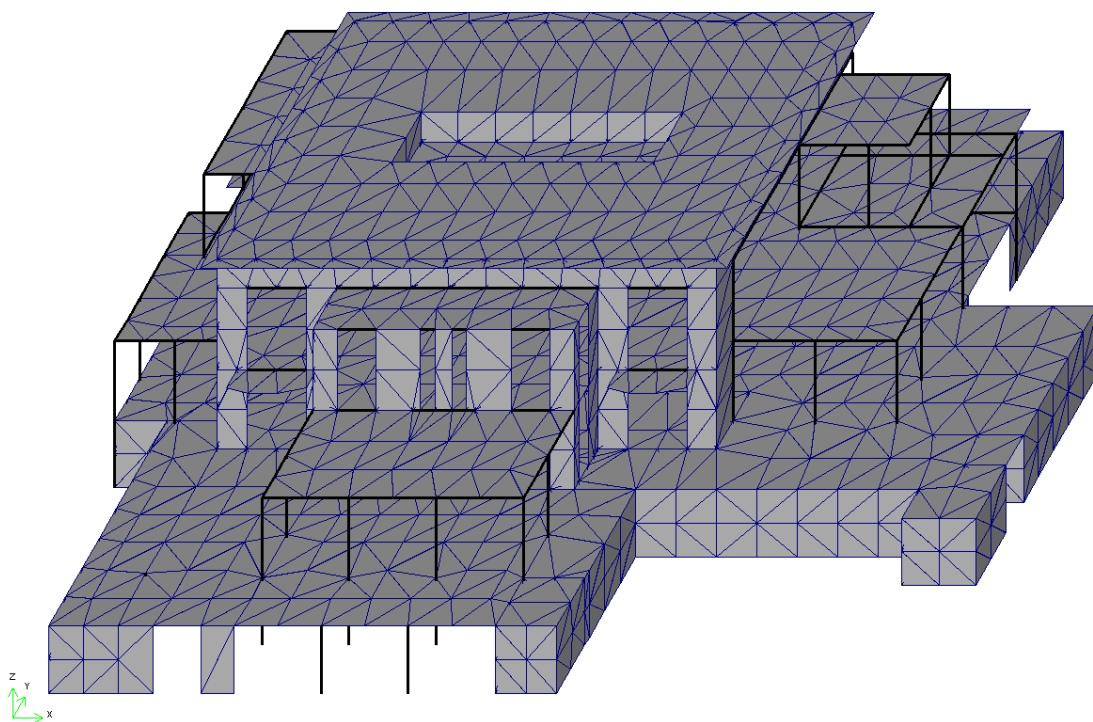
**LOCATION** : Baabdat - LEBANON

**PROJECT DESCRIPTION**: The project consists of a three stories villa.

**PROJECT MISSION**: Structural design including seismic analysis, consultancy and permanent supervision.



Dead Load case





## **BOUSTANY RESIDENCE (2007-2008)**

**CLIENT** : Mr. Vincent BOUSTANY

**ARCHITECT:** Mrs. Maha MATAR

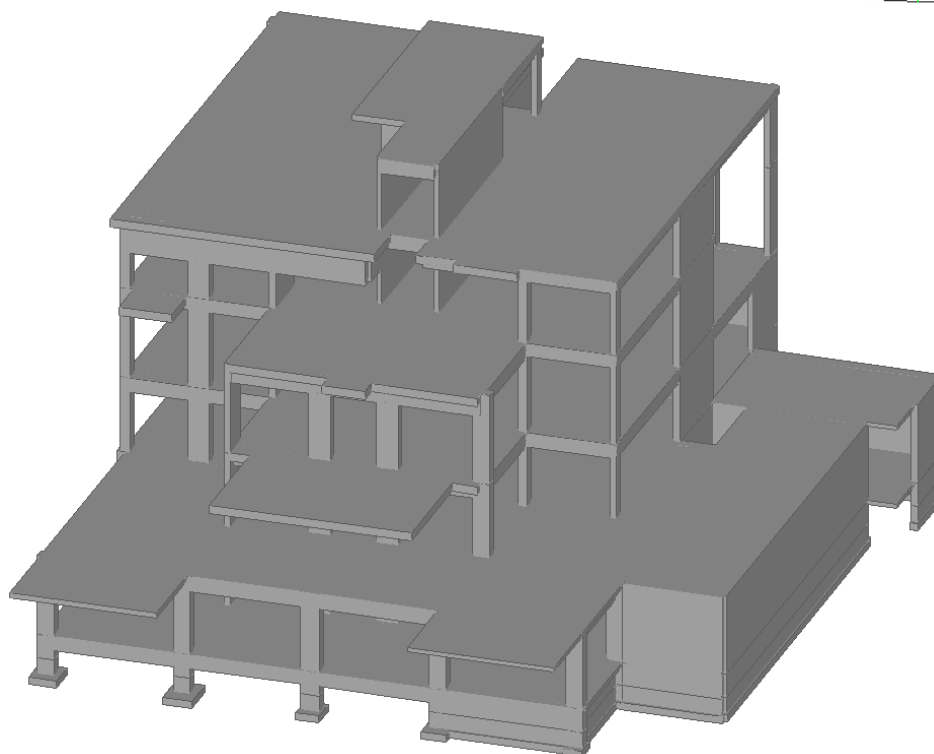
**VALUE** : 280,000 US Dollars(Concrete Works)

**AREA** : 1,971m<sup>2</sup>

**LOCATION** : Ain Rihani - LEBANON

**PROJECT DESCRIPTION:** The project consists of a ground floor, two upper floors and two basements along with pool and related external works.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## KFARDEBYAN (2005)

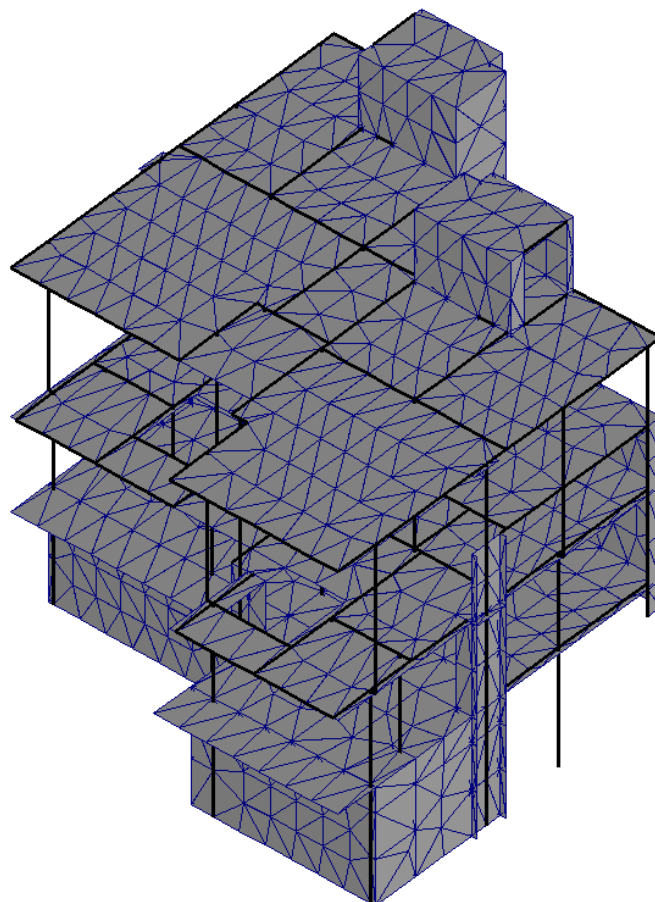
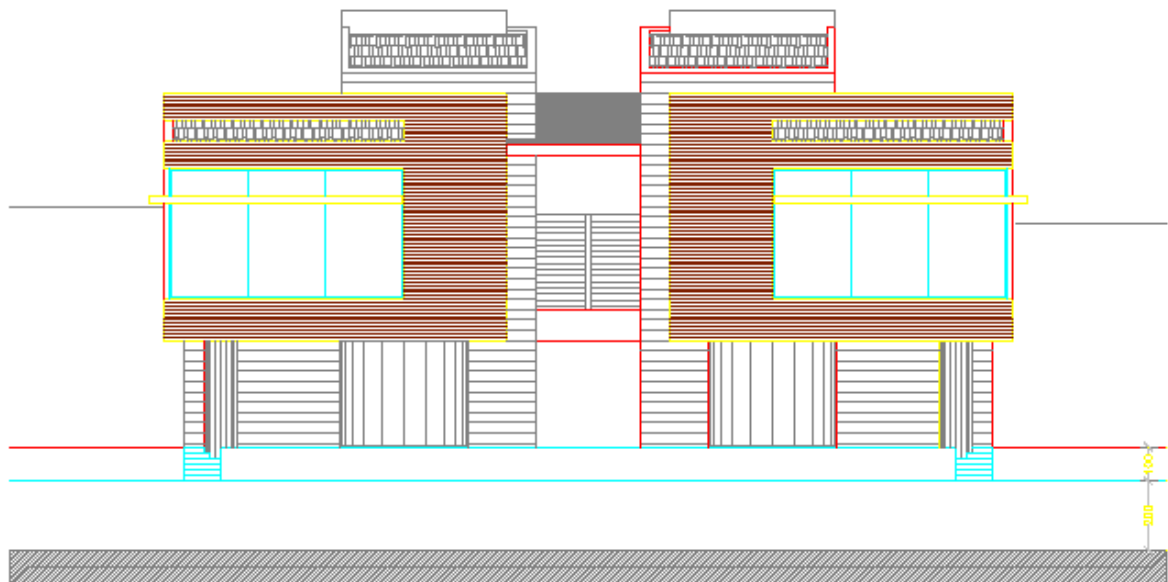
**CLIENT** : Mr. Nazih KASSEM

**ARCHITECT**: Diana Ibrahim Kassem Architectural Office

**LOCATION** : Kfardebyan - LEBANON

**PROJECT DESCRIPTION**: The project consists of three upper levels and one basement along with related external works.

**PROJECT MISSION**: Structural design including seismic analysis, consultancy and permanent supervision.



## RESIDENCE HAMSANI - MAR MOUSSA(2000-2001)

**CLIENT** : HAMSANI Family

**ARCHITECT:** Mr. Jimmy TADROS

**LOCATION** : Broumana - LEBANON

**PROJECT DESCRIPTION:** The project consists of three upper levels, one basement and a pitched roof along with related external works.

**PROJECT MISSION:** Structural design including seismic analysis.





## NAYALAND VILLA

**CLIENT** : Mr. & Mrs. NIZAR DALLOUL.

**ARCHITECT**: NG Architecture & Planning

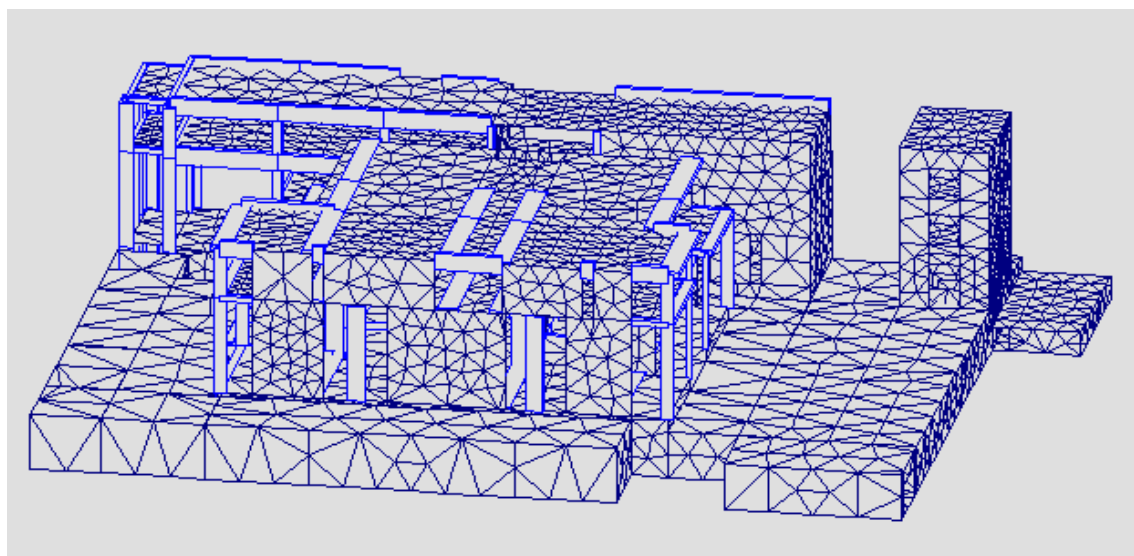
**VALUE** : 800,000 US Dollars (Concrete Works)

**AREA** : 5,700m<sup>2</sup>

**LOCATION** : Ramlet El Bayda- LEBANON

**PROJECT DESCRIPTION**: The project consists of a two stories villa

**PROJECT MISSION**: Structural design including seismic analysis.



4265 NODES – 547 E.BARS - 8588 F.E.

## LOT 1368 MINA EL HOSN

**CLIENT** : SOLIDERE  
**ARCHITECT**: NG Architecture & Planning  
**VALUE** : 36,000,000 US Dollars  
**AREA** : 24,000m<sup>2</sup>  
**LOCATION** : Beirut– LEBANON  
**PROJECT MISSION**: Structural design including seismic analysis

## SOLIDERE BLDG. 1015

**CLIENT** : SOLIDERE  
**LOCATION** : Mina El Hosn–LEBANON  
**PROJECT MISSION**: Structural design including seismic analysis

## SKYHEIGHTTOWER

**CLIENT** : Mr. KARAM  
**VALUE** : 6,500,000 US Dollars  
**LOCATION** : Ashrafieh – Beirut–LEBANON  
**PROJECT MISSION**: Structural design including seismic analysis

## Les TOITS DE BEYROUTH

**CLIENT** : Sté. TOITS DE BEYROUTH  
**ARCHITECT**: Kamal Homsy Architects  
**VALUE** : 25,000,000 US Dollars  
**AREA** : 80,000m<sup>2</sup>  
**LOCATION** : MarRoukoz - LEBANON  
**PROJECT MISSION**: Structural design including seismic analysis for three Towers and 2 Bldgs



## VILLA ABOU GHAZALE

**CLIENT** : ABOU GHAZALE

**LOCATION** : Faqra Club - Faqra- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## CHIHA HOUSE

**CLIENT** : MICHEL CHIHA

**LOCATION** : Yarzé- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## LUXURY RESIDENCE 1067 SAIFI

**CLIENT** : SOLIDERE

**LOCATION** :BCD - Beirut- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## F.I.F. RESIDENCE

**CLIENT** :FARES ISSAM FARES

**ARCHITECT:**NG Architecture & Planning

**VALUE** :3,500,000 US Dollars

**AREA** : 5,505m<sup>2</sup>

**LOCATION** : Dahr El Sawan- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## BEACH HOUSE BATROUN

**CLIENT** : ASSOUMAN Tourba

**ARCHITECT:**BATIMAT Architects

**VALUE** : 1,800,000 US Dollars

**AREA** : 3,500m<sup>2</sup>

**LOCATION** : Batroun - LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## DAHDAH RESIDENCE 84

**CLIENT** : Mr. &Mrs. DAHDAH

**VALUE** : 500,000 US Dollars

**LOCATION** : BeitChabab- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## Mrs. KHOURY AYOUB RESIDENCE

**CLIENT** : Mrs. KHOURY AYOUB

**VALUE** : 3,000,000 US Dollars

**LOCATION** : Yarzé- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis



## 5.2 Industrial Projects:

### FOLDA FACTORY (2011-2012)

**ARCHITECT:** ARCHITECTES ANONYMES

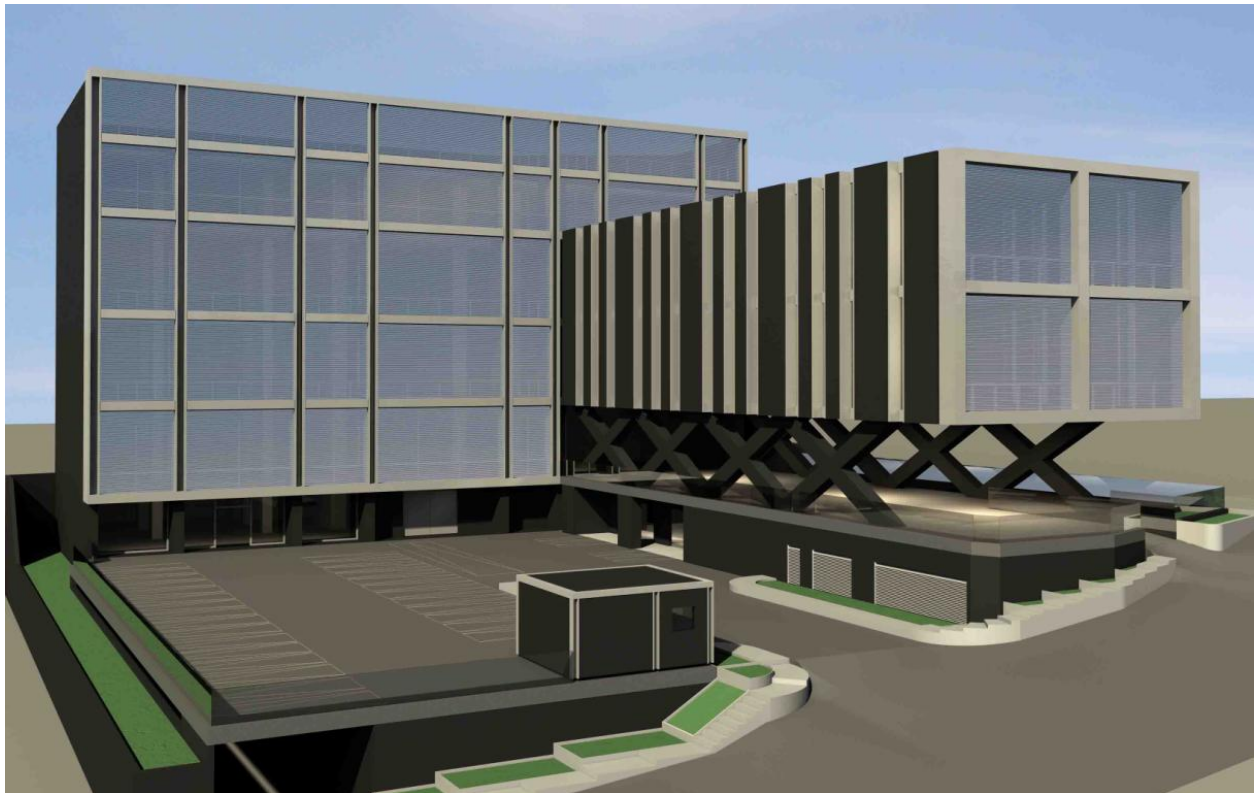
**VALUE** : 3,000,000 US Dollars(Concrete Works)

**AREA** : 12,752m<sup>2</sup>

**LOCATION** : Zouk Mosbeh - LEBANON

**PROJECT DESCRIPTION:** The project consists of a Complex with two basements, a ground floor, four upper floors and a roof floor including related external works such as utilities zones, water tanks and gutters, channels, fences including retaining walls....

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## SENTEURS D'ORIENT Soap Plant (2010-2012)

**ARCHITECT:** Atelier 130

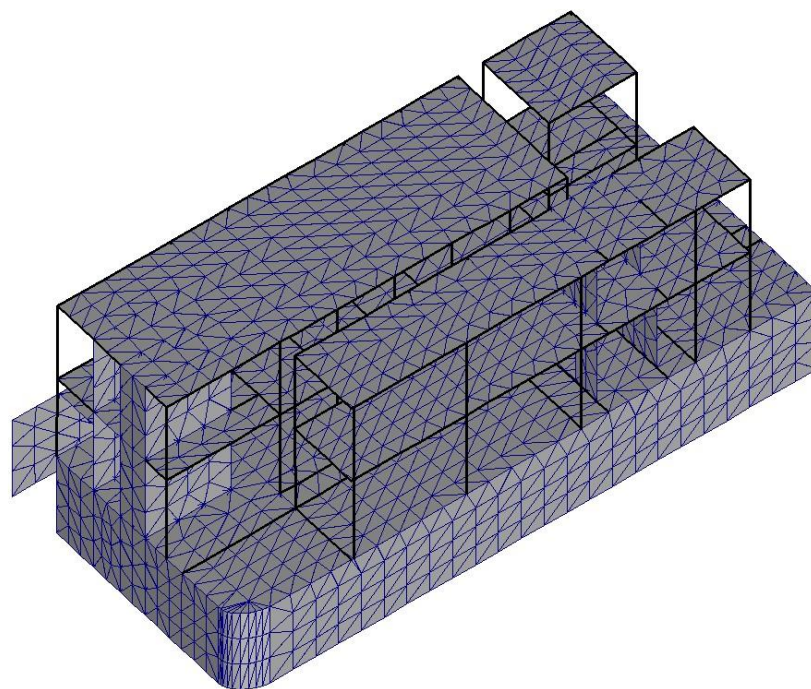
**VALUE** : 400,000 US Dollars(Concrete Works)

**AREA** :1,753m<sup>2</sup>

**LOCATION** : Dekwané - LEBANON

**PROJECT DESCRIPTION:** The project consists of a Ground floor, one upper floor, top of roof and one basement including related external works such as guard house and utilities zones, water tanks and gutters, channels, fences including retaining walls...

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.





## UTRIX New Company Compound (2010-2011)

**ARCHITECT:** ARCHIKA Kamal Homsy Architects S.A.L.

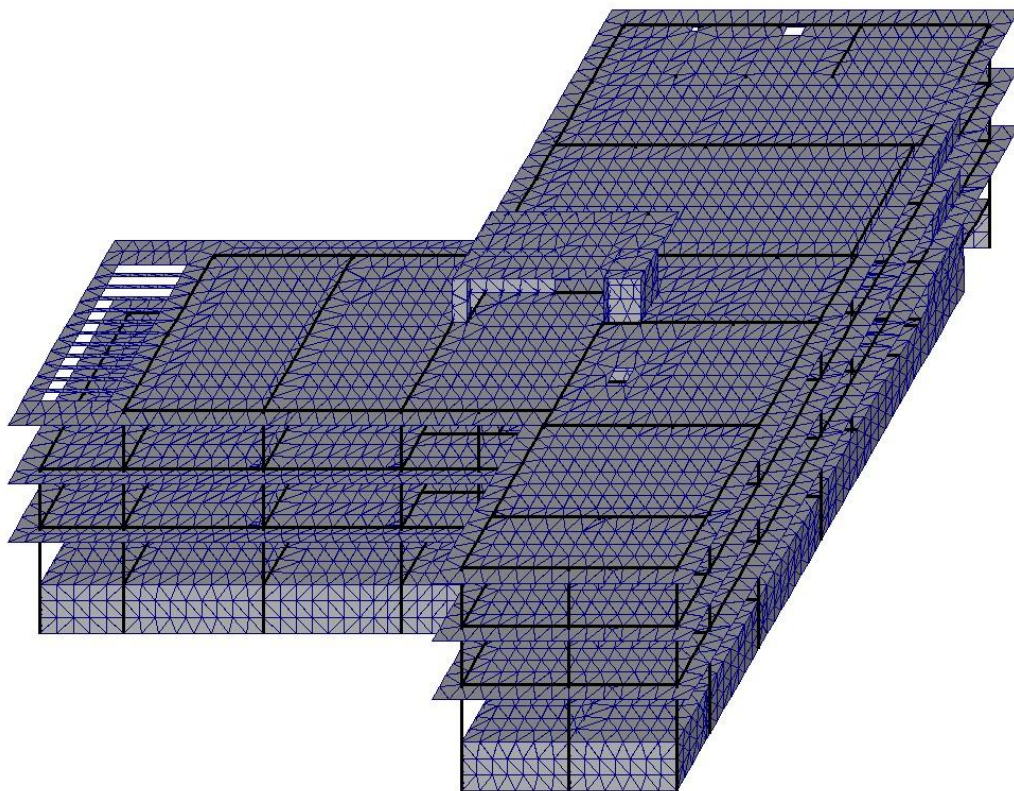
**VALUE** : 562,000 US Dollars(Concrete Works)

**AREA** : 4,073m<sup>2</sup>

**LOCATION** : Zahlé - LEBANON

**PROJECT DESCRIPTION:** The project consists of two upper levels and one basement along with external works fences including retaining walls...

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



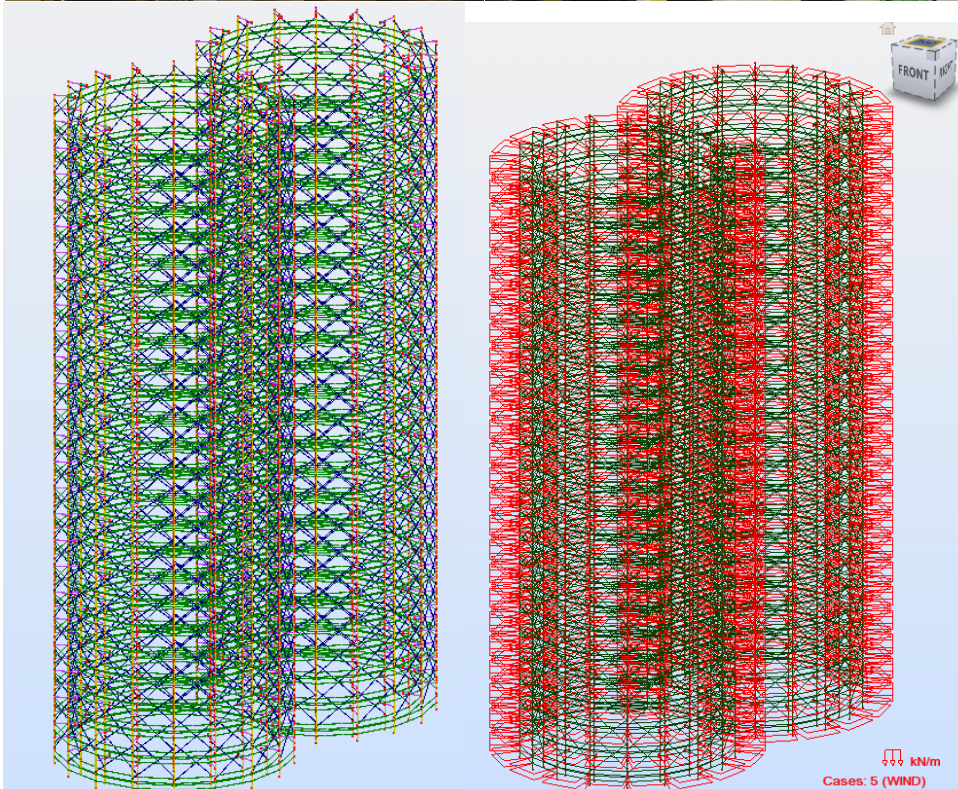


## CHEKKA SILLOS (2011) (Scaffolding)

**CLIENT** : FREYSSINET AL ALAM JOINT VENTURE

**LOCATION** : Chekka - LEBANON

**PROJECT MISSION:** Steel structural verification modeling and Technical assessment of the 4 60m height silos scaffolding including wind and static analysis.



## AL-SAMIR HANGAR (2009-2011)

**CLIENT** : Al-Samir Immobilière S.A.L.

**ARCHITECT**: Mir Samir J. ABBILLAMA

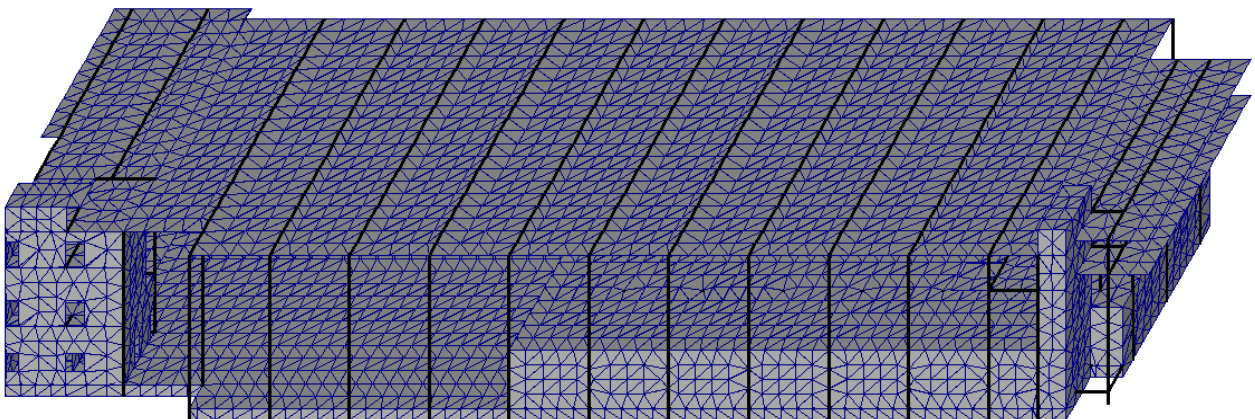
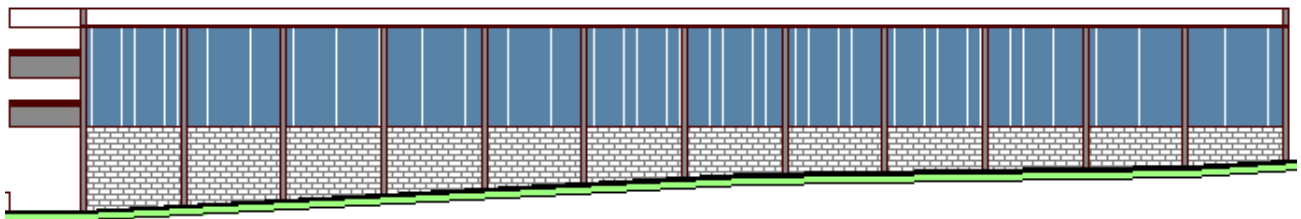
**VALUE** : 302,000 US Dollars(Concrete Works)

**AREA** : 2,186m<sup>2</sup>

**LOCATION** : Zouk El - Khrab-LEBANON

**PROJECT DESCRIPTION**: The project consists of a ground floor, three upper floors at office building including steel roof and one basement.

**PROJECT MISSION**: Structural design including seismic analysis, consultancy and permanent supervision.

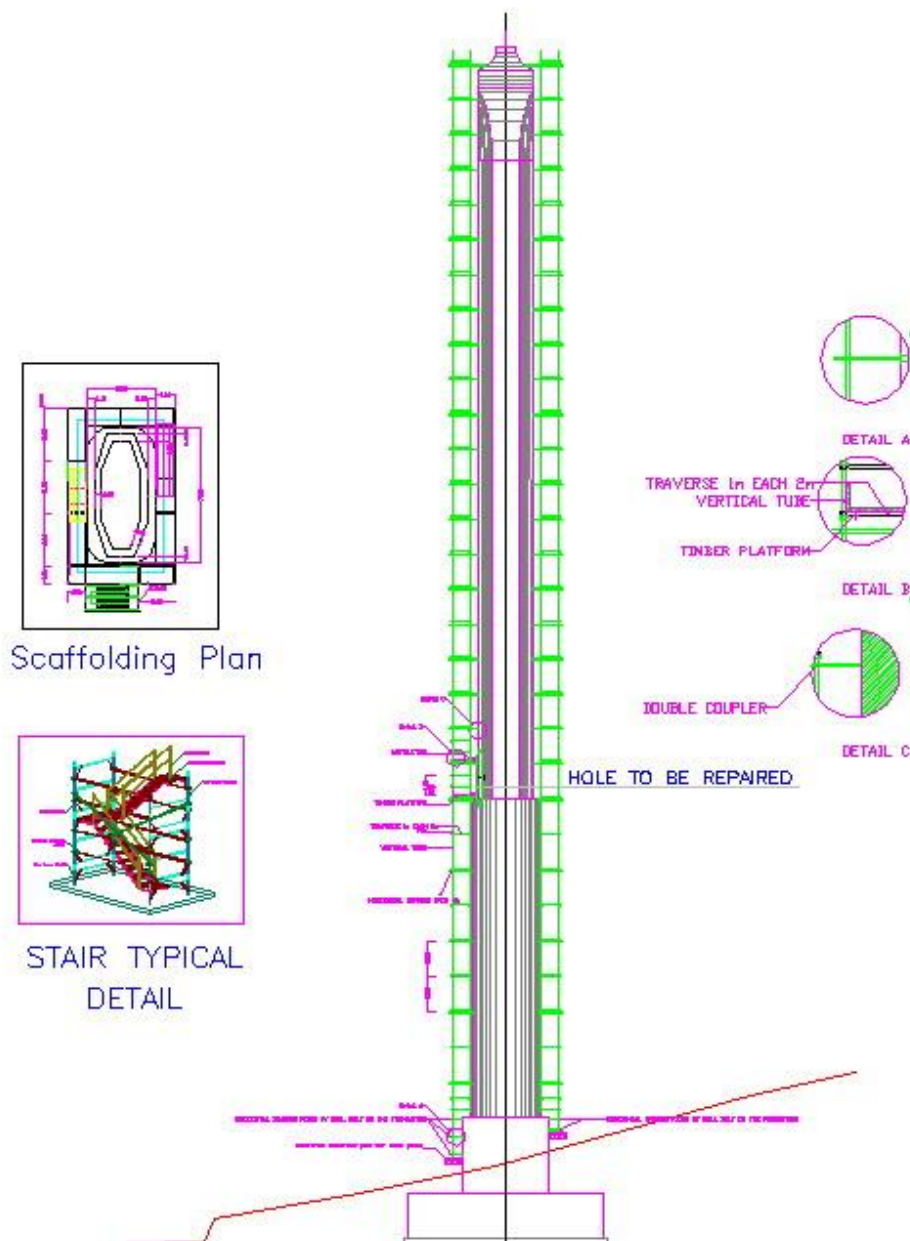


## RECONSTRUCTION OF THE MUDEIREJ BRIDGE (2007) (Scaffolding)

**CLIENT** : MAN Enterprise S.A. L.

**LOCATION :** Mudeirej - LEBANON

**PROJECT MISSION:** Steel structural verification modeling and Technical assessment of the 70m height bridge scaffolding including wind analysis.





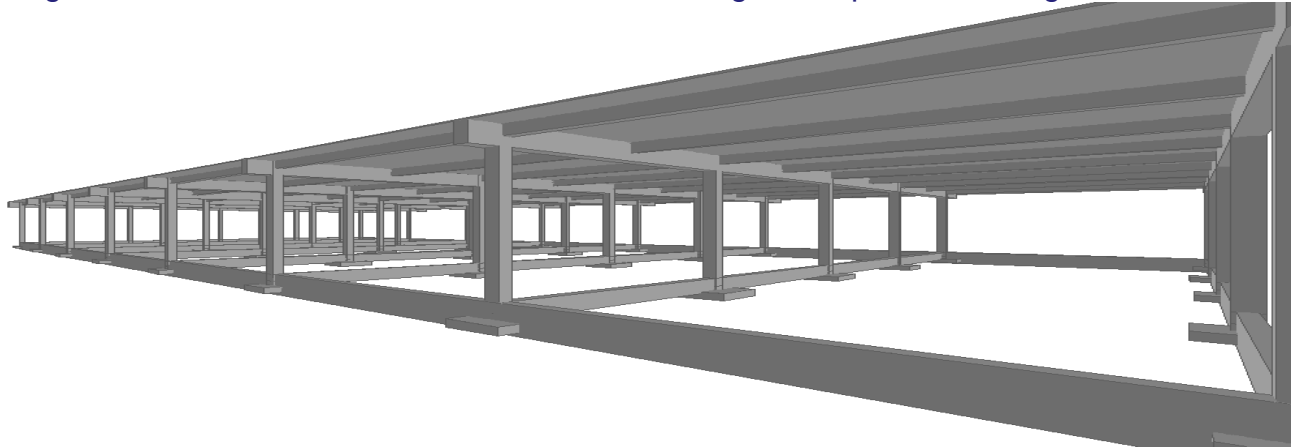
## LIBAN LAIT (2006)

**CLIENT** : LIBAN LAIT sal

**LOCATION** : Békaa - LEBANON

**PROJECT DESCRIPTION:** The project consists of a warehouse concrete structure in addition to it's envelop and covering.

**PROJECT MISSION:** Technical control for the project, as a member of SOCOTEC LIBAN, Damage assessment of the concrete structure including envelop and covering.



## NASSERIEH & ZAYZOUN COMBINED CYCLE POWER PLANTS (2006)

**CLIENT** : KOCH TRANSPORTECHNIK

**LOCATION** : Nasserieh - Damascus - SYRIA / Zayzoun - Aleppo - SYRIA

**PROJECT MISSION:** Technical control for the project, as a member of SOCOTEC LIBAN, Solidity and Shoring works control.



NASSERIEH COMBINED CYCLE POWER PLANT  
Partial View



ZAYZOUN COMBINED CYCLE POWER PLANT  
PARTIAL VIEW



## DALAL STEEL INDUSTRIES (2006)

**CLIENT** : Mr. Toufic DALAL

**LOCATION** : Taanayel – Beirut - LEBANON

**PROJECT MISSION:** Technical control for the project, as a member of SOCOTEC LIBAN, Damage assessment and remedial proposal for the warehouse structure and its envelop and covering.





## TRIPOLI WASTE WATER TREATMENT PLANT (2006)

**CLIENT** : CDR

**LOCATION** : Tripoli- LEBANON

**PROJECT MISSION:** Technical control for the project, as a member of SOCOTEC LIBAN, Solidity, Safety, Welding and waterproofing control.



## **TYR ELECTRICAL SUB-STATION**

**CLIENT** : EDL/EDF

**LOCATION** : Tyr- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## **HALATE ELECTRICAL SUB-STATION**

**CLIENT** : EDL/EDF

**LOCATION** : Halate - LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## **KSARA ELECTRICAL SUB-STATION & HALL DE DÉCUVAGE**

**CLIENT** : EDL/EDF

**LOCATION** : Ksara- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## **BIKFAYA ELECTRICAL SUB-STATION**

**CLIENT** : EDL/ EDF

**LOCATION** : Bikfaya- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## **FAYTOUN ELECTRICAL SUB-STATION**

**CLIENT** : EDL/ EDF

**LOCATION** : Faytroun- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## **CARBONATCO FACTORY**

**CLIENT** : MM. KHOURY

**VALUE** : 1,800,000 US Dollars

**LOCATION** : Amchit - LEBANON

**PROJECT MISSION:** Structural design including seismic analysis

## **LUNA PRESS FACTORY**

**CLIENT** : LUNA PRESS

**LOCATION:** Zouk Mosbeh- LEBANON

**PROJECT MISSION:** Structural design including seismic analysis



## 5.3 Hotels, Entertainment and Cultural Projects:

### ANTIPIRACY TRAINING CENTER (2010-2011)

**CLIENT** : Ministry of Transport – Djibouti

**ARCHITECT:** IDENTITY

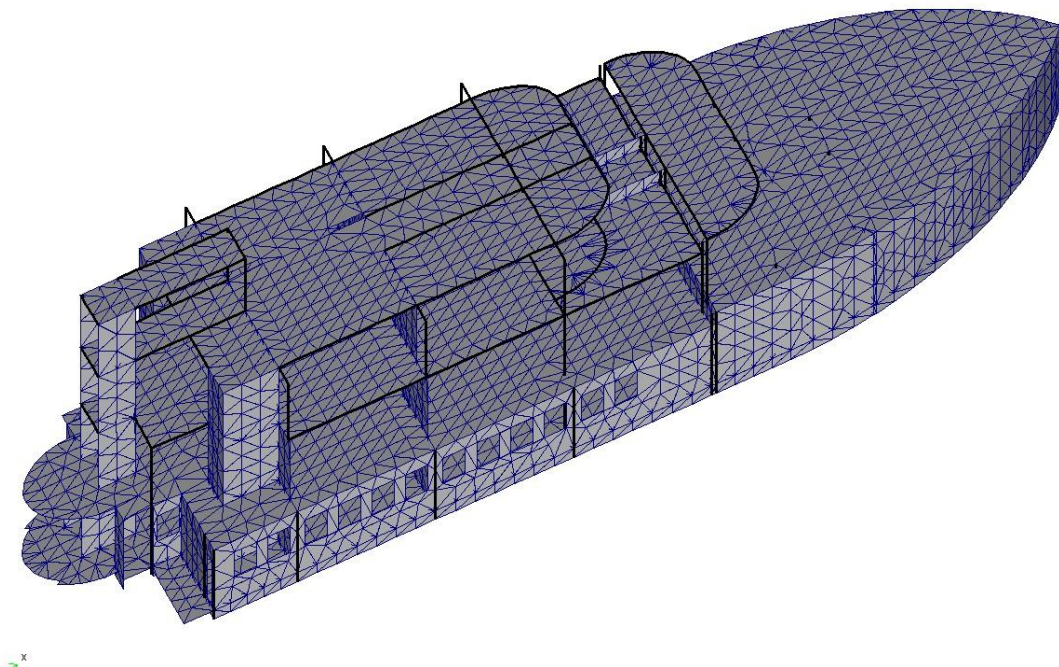
**VALUE** : 463,000 US Dollars(Concrete Works)

**AREA** : 3,355m<sup>2</sup>

**LOCATION** : Doraleh - DJIBOUTI

**PROJECT DESCRIPTION:** The project consists of Ground Floor, two upper floors including the roof and top of roof along with related external works.

**PROJECT MISSION:** Structural design including seismic analysis.





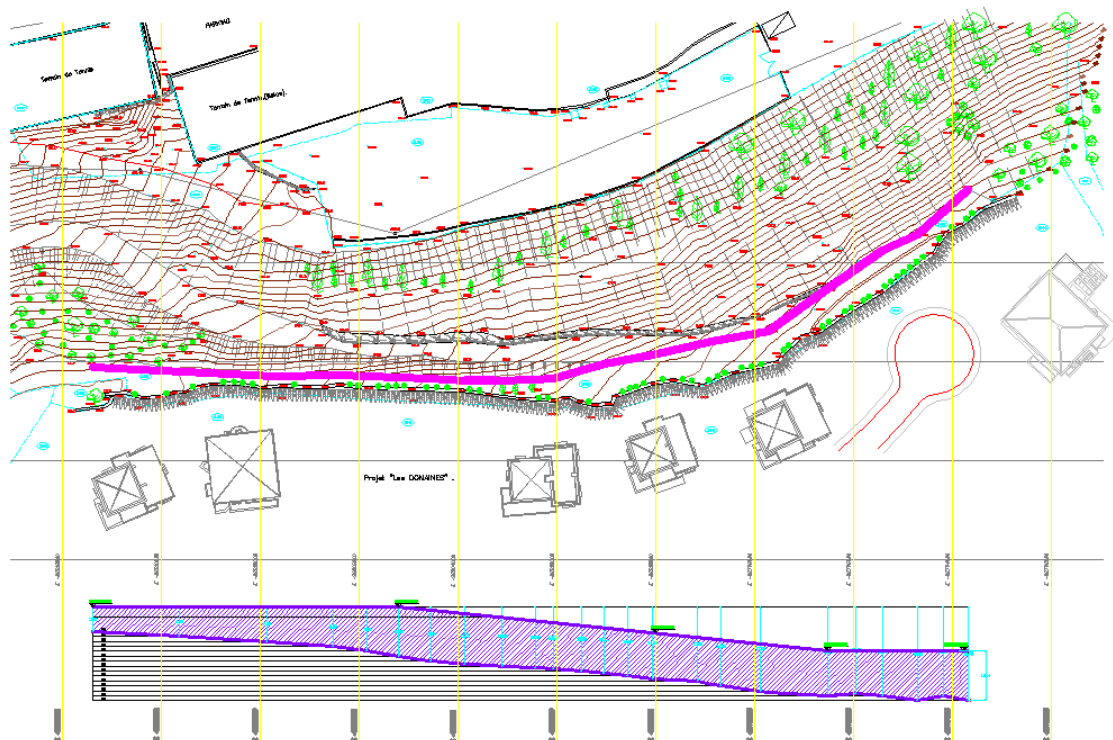
## DEIR EL KALAA COUNTRY CLUB (2010)

**CLIENT** : Mr. Raja ABOUD

**LOCATION** : Deir El Kalaa - LEBANON

**PROJECT DESCRIPTION:** Earthwork related to the extension of Deir El Kalaa Country Club.

**PROJECT MISSION:** Design of the soil/earth retaining structures



## **KARKAFI MONASTERY (2009-2010)**

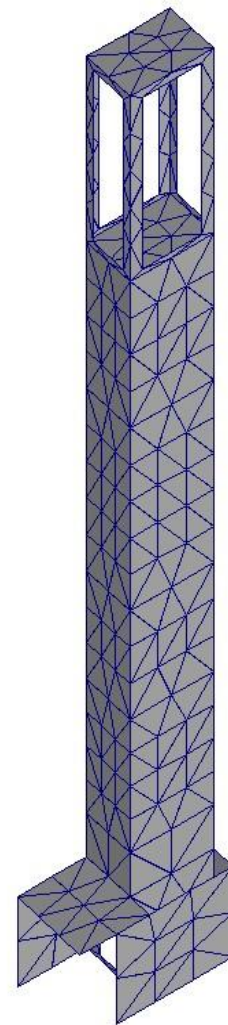
**CLIENT** : Karkafi Monastery

**ARCHITECT**: A-Consult

**LOCATION** : Kfarchima - LEBANON

**PROJECT DESCRIPTION**: Restoration and reconstruction of the church and bell tower.

**PROJECT MISSION**: Structural design including seismic analysis and supervision.





## **BAABDA FOREST Observation Tower (2009 – 2010)**

**CLIENT** : T.E.R.R.E. Liban

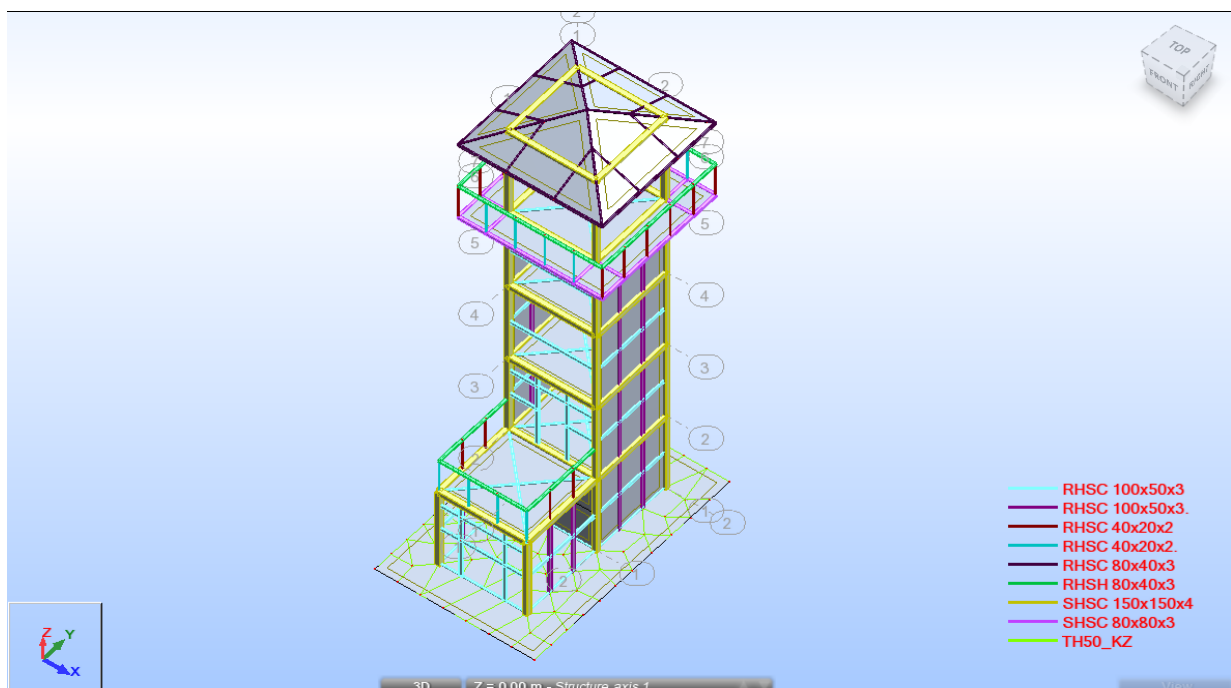
**ARCHITECT**: P.A.R. Consultants

**LOCATION** : Baabda - LEBANON

**PROJECT DESCRIPTION**: The project is a multifunctional observation tower. The tower substructure is of cast-in-situ reinforced concrete (raft foundation) and the main superstructure is of structural steel where walls and slabs are covered with steel deck.

The structure comprises steel columns, steel beams and trusses (13.5 m height).

**PROJECT MISSION**: Steel structural design including seismic, wind and follow up and execution.



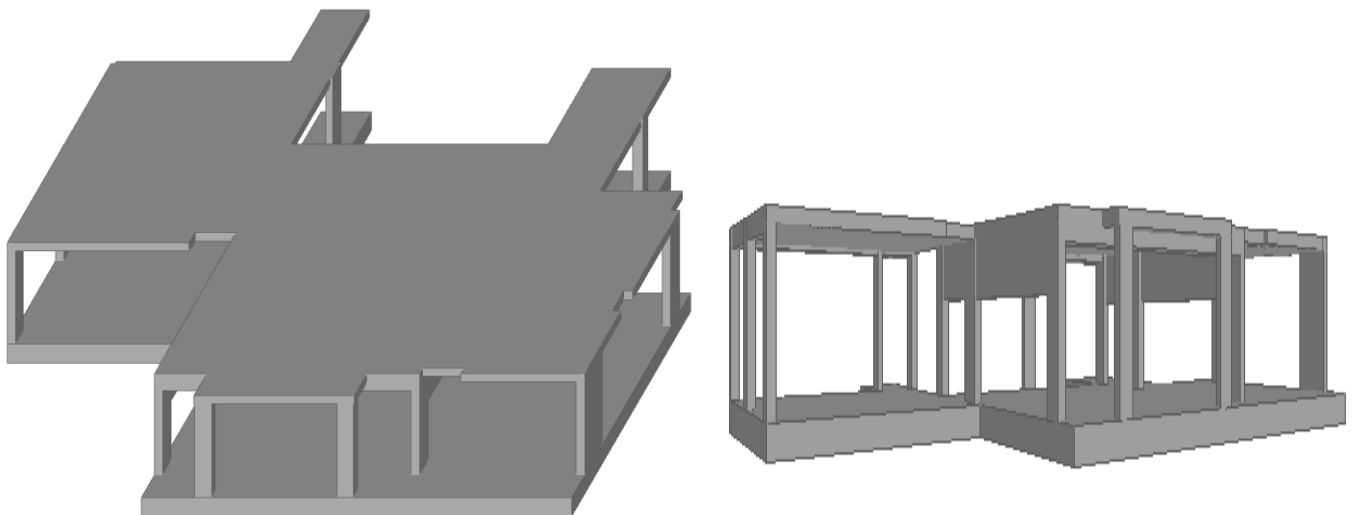
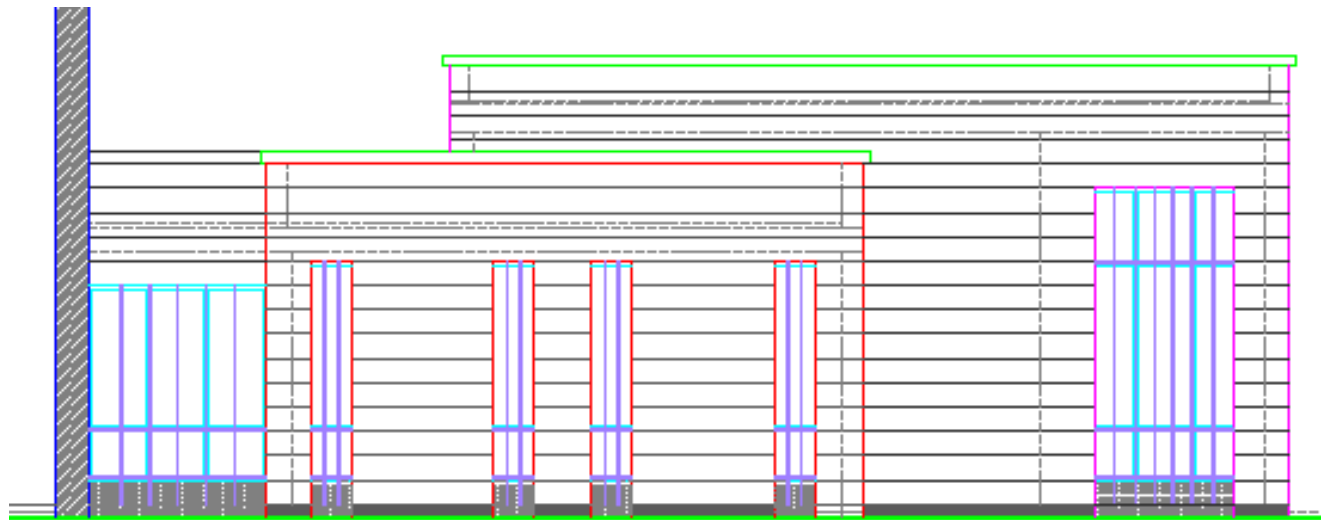


## JUDGMENT OF EXECUTIONS COURT OF BEIRUT(2009)

**ARCHITECT:**K.Z. Architects

**LOCATION :**Beirut - LEBANON

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision.



## ICS SCHOOL (2011 - 2012)

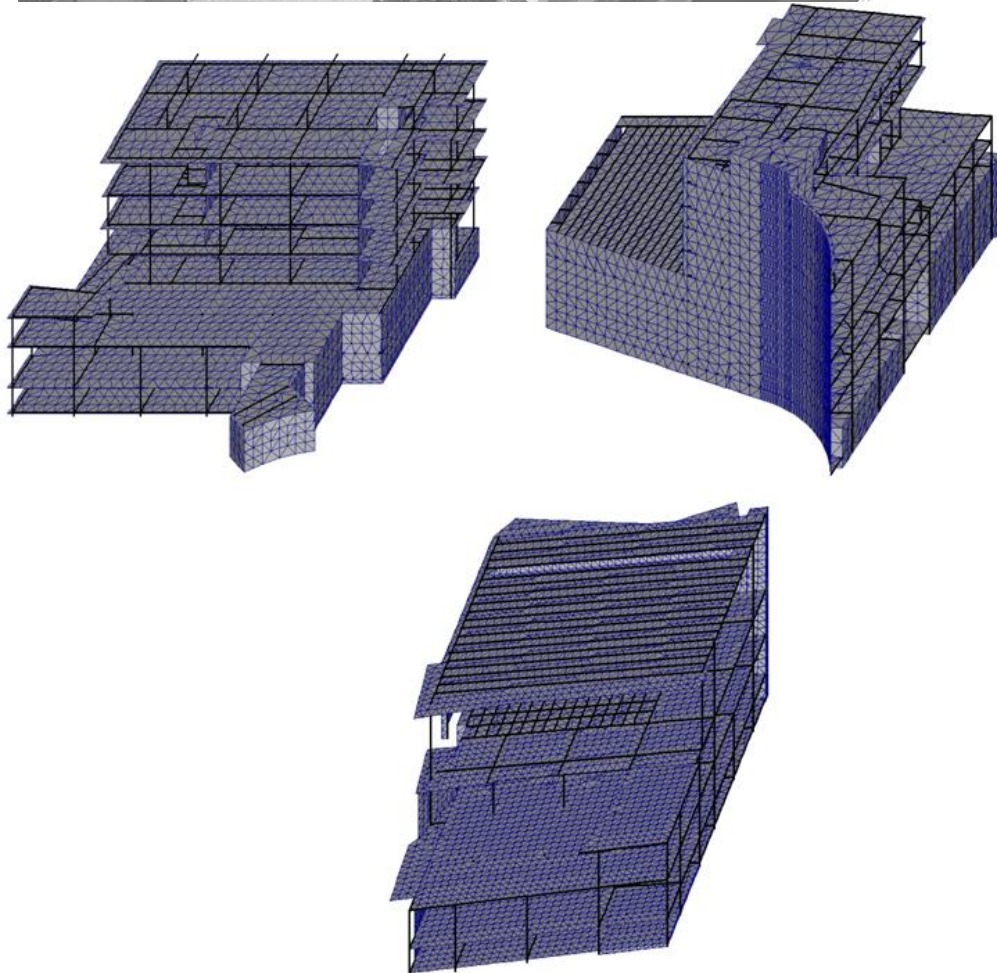
**CLIENT** : MAN Enterprise S.A. L.

**ENGINEER** : D.G. Jones & Partners

**CONSULTANTS:** KHATIB & ALAMI consolidated engineering company S.A.L.

**LOCATION** : Beirut - LEBANON

**PROJECT MISSION:** Structural Consultancy, Design Review and Shop Drawings Elaboration including bar bending schedules.



## ANTONINS SCHOOL DEKWANÉ (2009)

**CLIENT** : ANTONIN COMMUNITY

**CONSULTANTS**: P.A.R. Consultants

**VALUE** : 7,500,000 US Dollars

**AREA** : 18,799m<sup>2</sup>

**LOCATION** : Dekwané - LEBANON

**PROJECT MISSION**: Architectural Conceptual design Contest.





## ANTONINS SCHOOL ZAHLE (2008-2009)

**CLIENT** : ANTONIN MARONITE ORDER

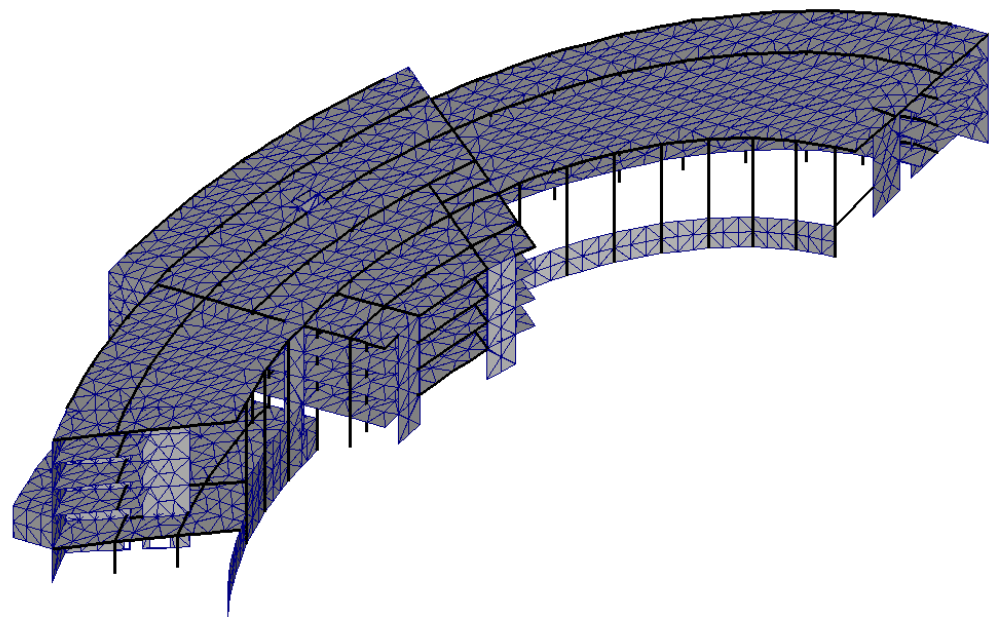
**ARCHITECT**: P.A.R. Consultants

**VALUE** : 7,100,000 US Dollars

**AREA** : 17,750m<sup>2</sup>

**LOCATION** : Zahlé - Békaa - LEBANON

**PROJECT MISSION**: Architectural, Structural design including seismic analysis and Electro-Mechanical design.



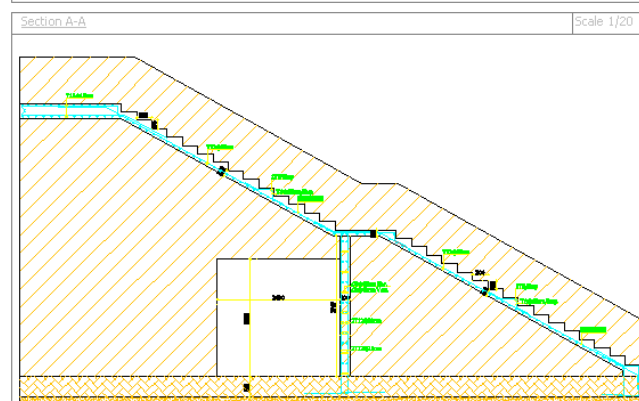
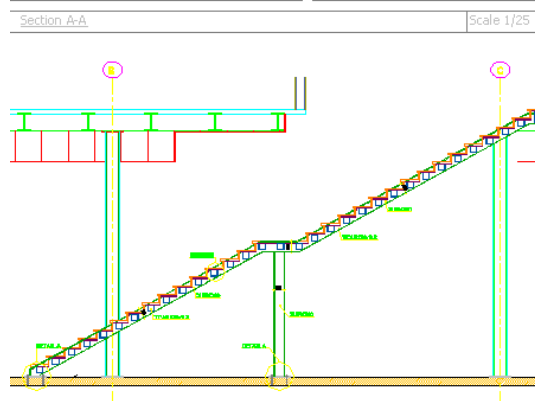
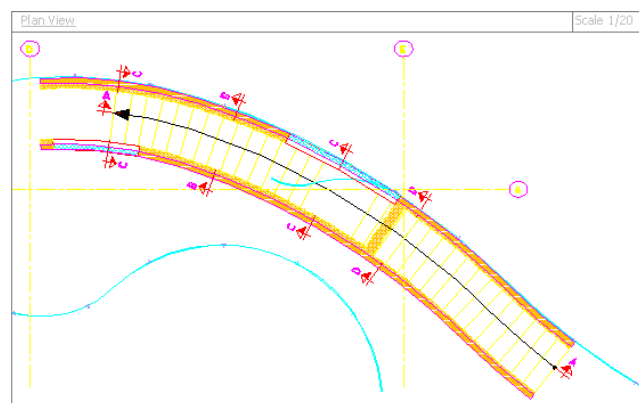
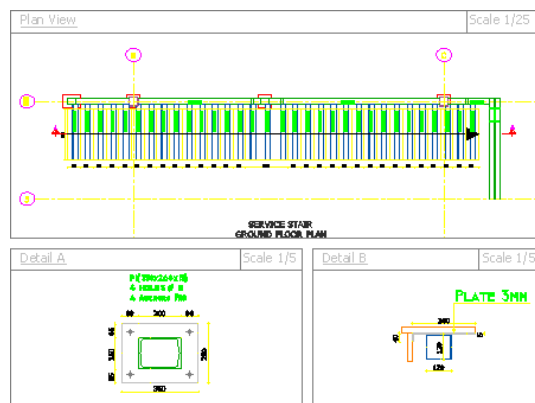
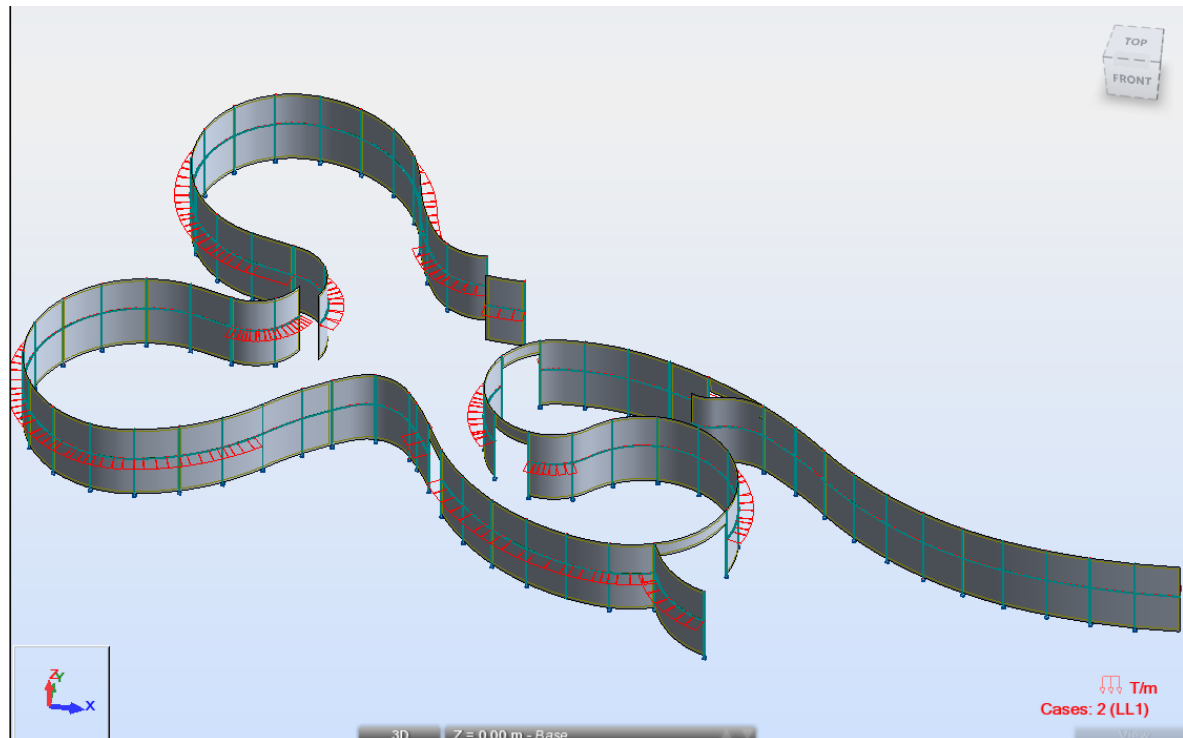
## CASPER & GAMBINI (2011)

**CLIENT** : Casper & Gambini

**ARCHITECT** : Nadim KARAM & Atelier HAPSITUS

**LOCATION** : Jeddah - KSA

**PROJECT MISSION:** Steel/Reinforced Concrete Structural design including seismic, temperature for the mezzanine, stairs and internal screens.



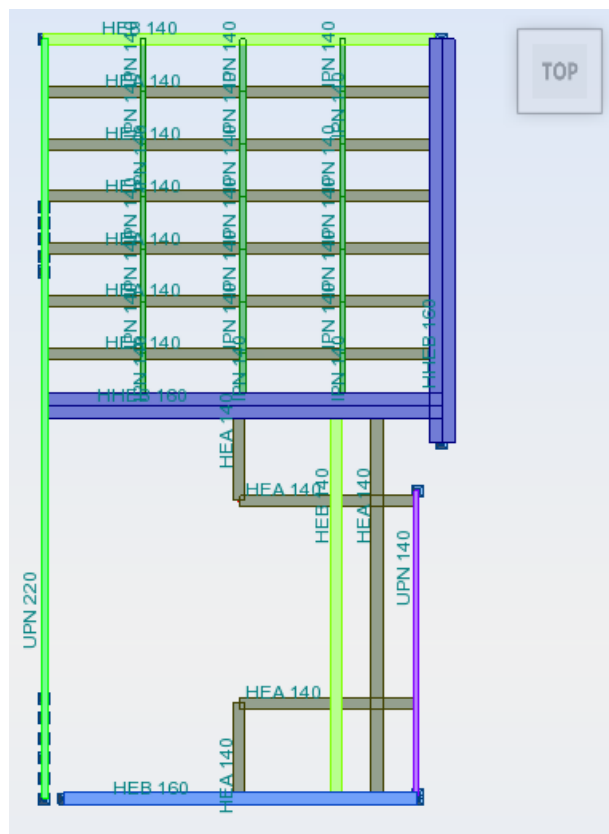
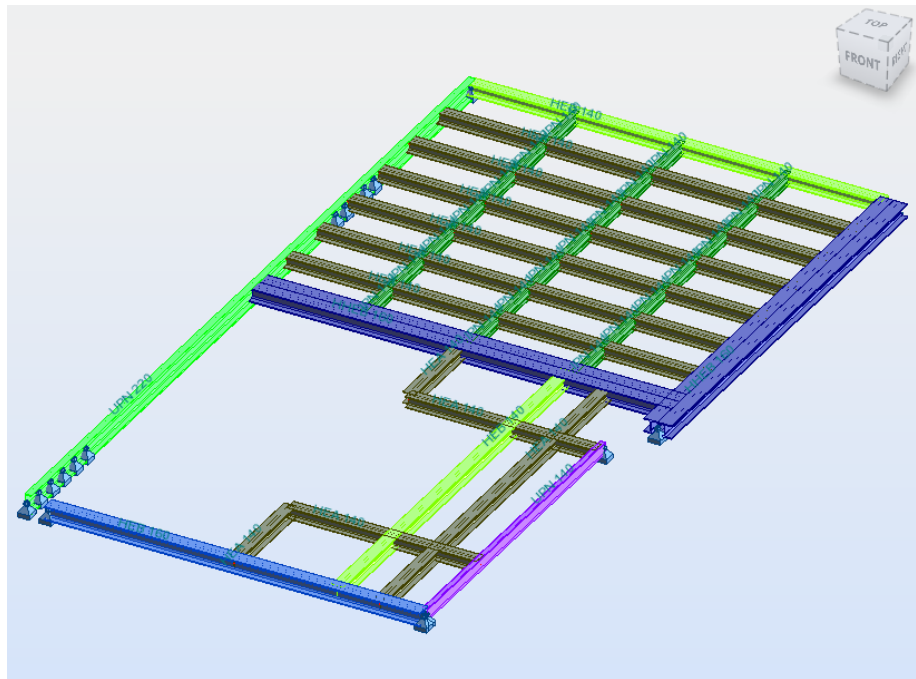
## SGBL SAIDA (2011)

**CLIENT** : Société Générale De Banque Au Liban.

**ARCHITECT**: R. A. Architects

**LOCATION** : Saida- LEBANON

**PROJECT MISSION**: Mezzanine Steel Structural design including seismic, temperature, stairs and internal screens.





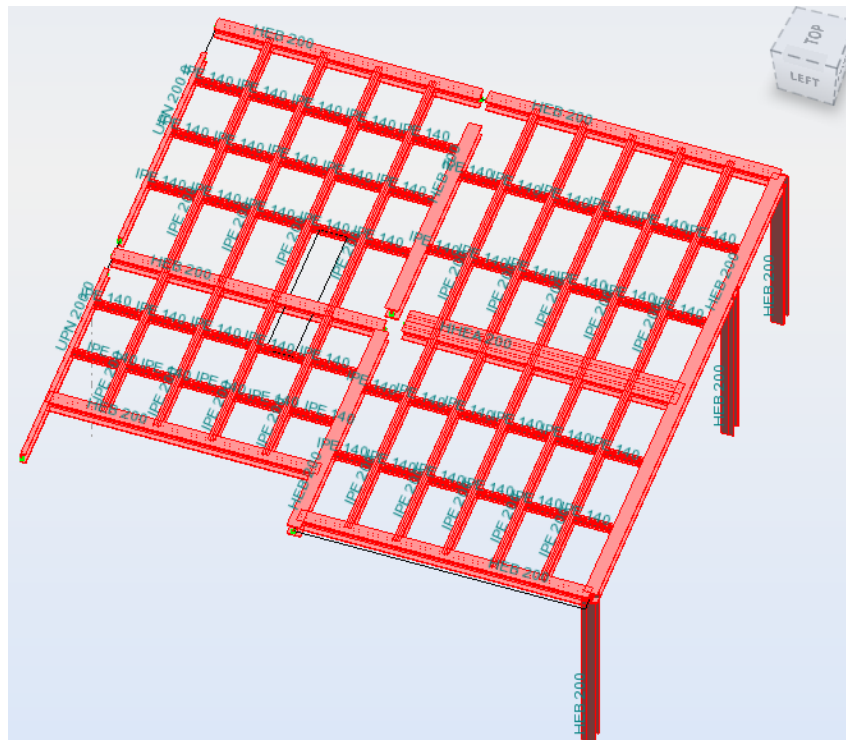
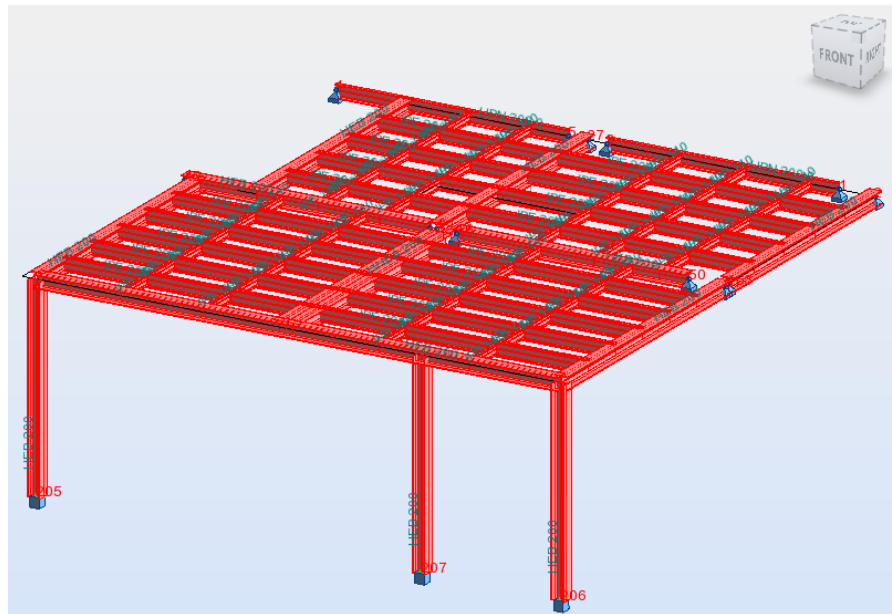
## SGBL NABATYEH (2011)

**CLIENT** : Société Générale De Banque Au Liban.

**ARCHITECT** : R. A. Architects

**LOCATION** : Nabatyeh - LEBANON

**PROJECT MISSION:** Mezzanine Steel Structural design including seismic, temperature, stairs and internal screens.



## **BP#04C – N.C.C. CAR PARK (2008-2009)**

### **Cultural City**

**CLIENT** : TECMAN Industry s.a.l.

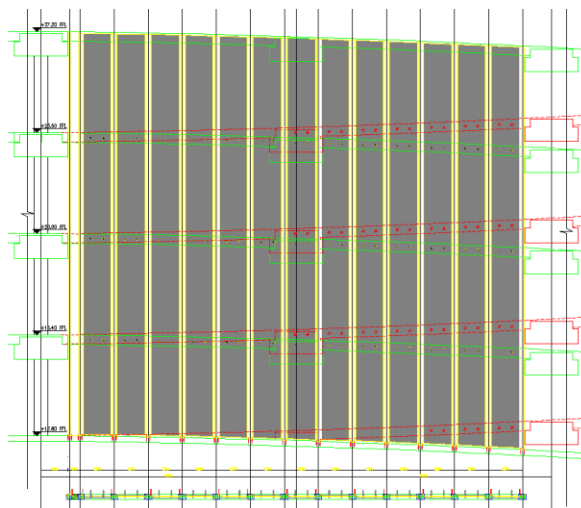
**ARCHITECT**: WS Atkins & Partners Overseas

**LOCATION** :Doha- QATAR

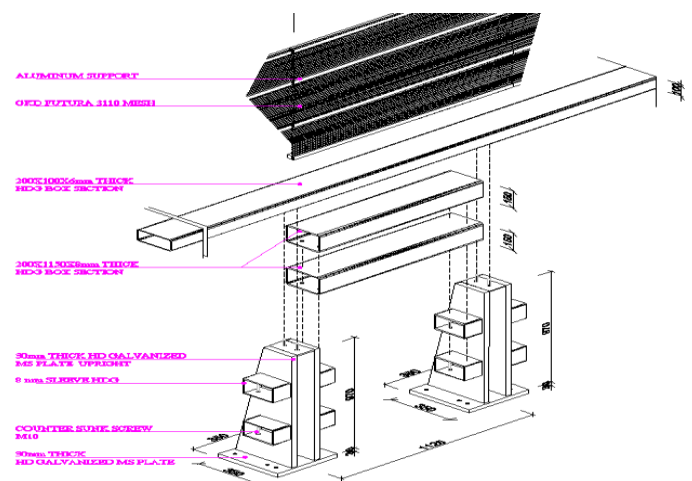
**PROJECT MISSION**: Steel Structural design including seismic, Wind, temperature and cars accidental impact analysis for 800m x 21m Facades, Balustrades, escape stairs, internal screens and bollards.



**INTERNAL SCREEN**  
Typical Wooven Mesh Structure

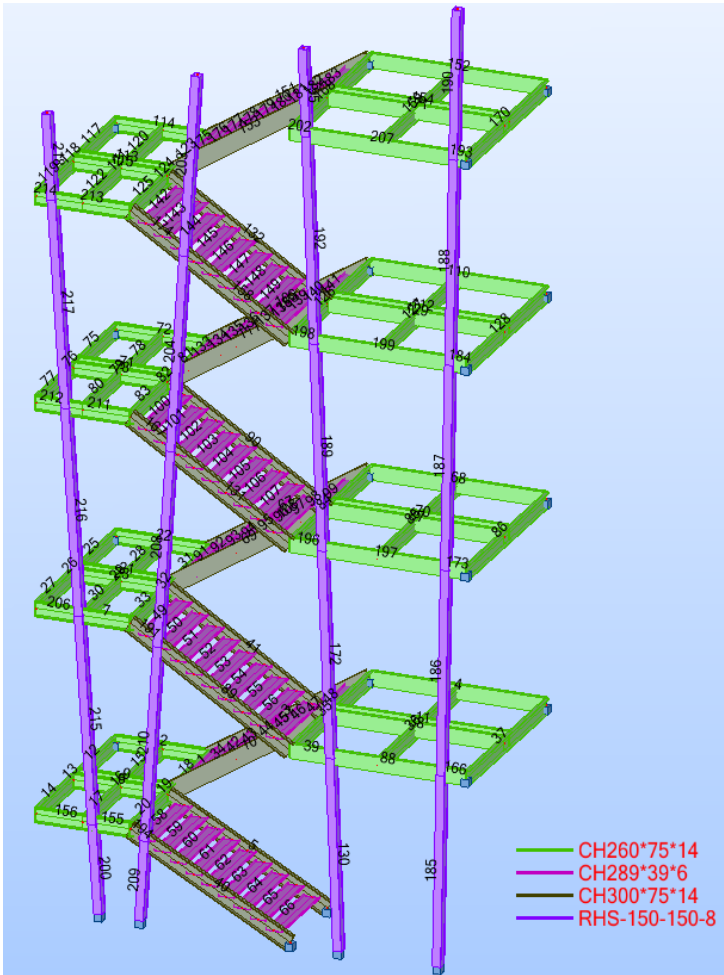
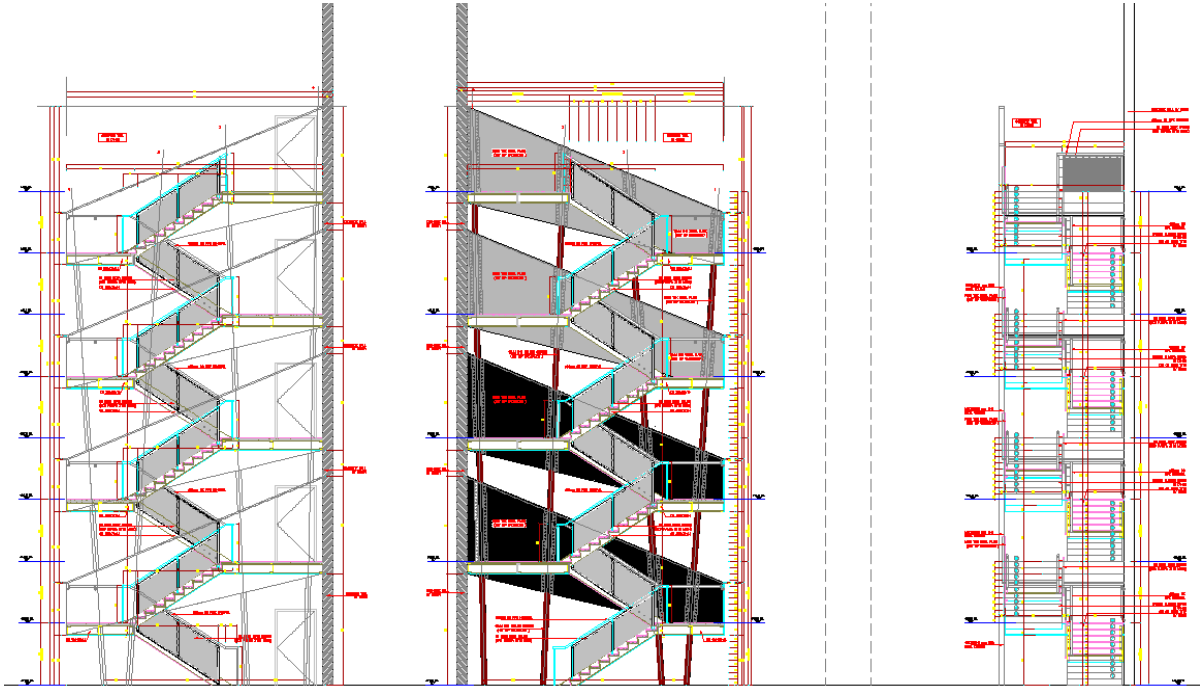


**GUARDRAILS**



**BP#04C – N.C.C. CAR PARK (Cont'd)**  
**Cultural City**

**ESCAPE STAIRCASES**

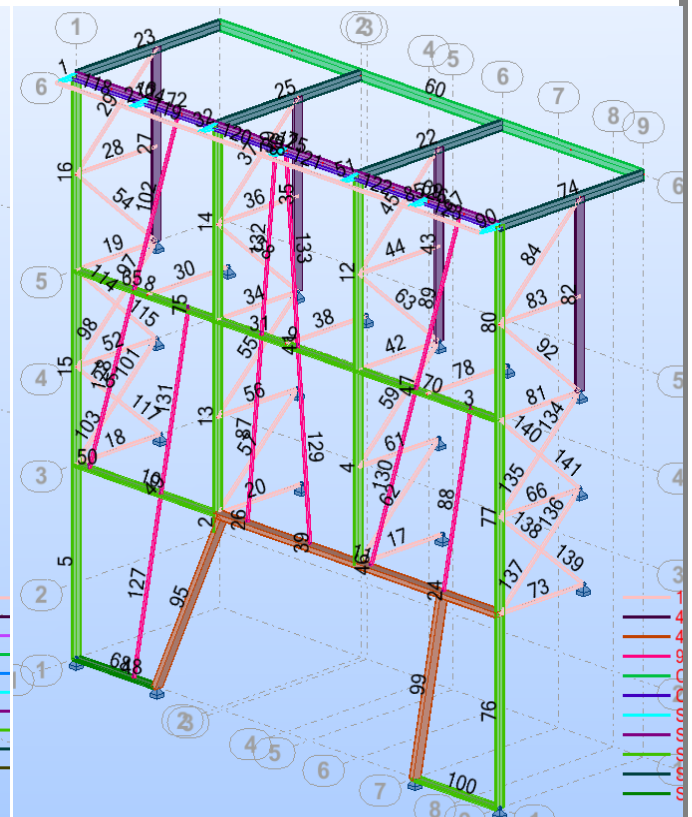
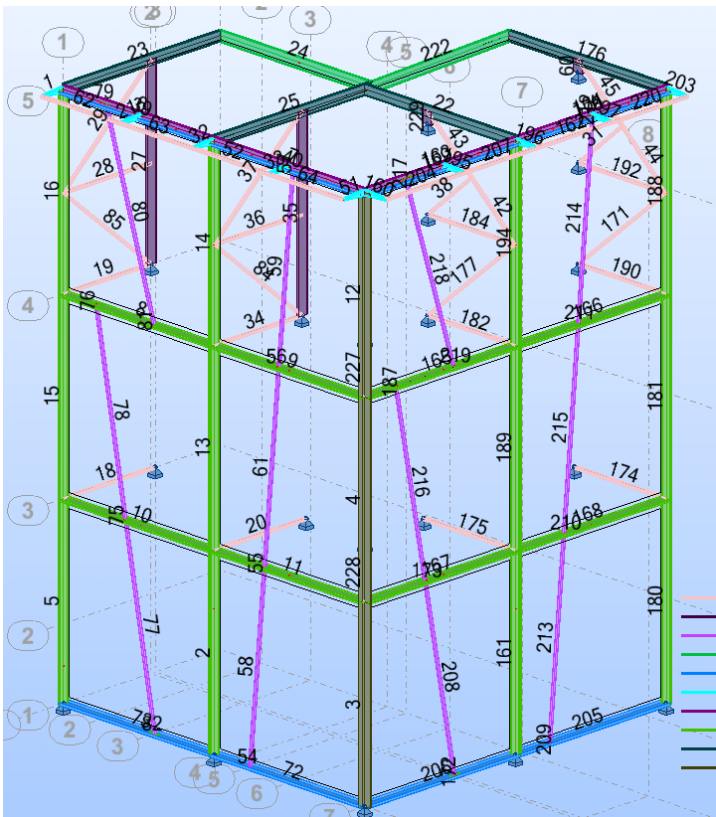
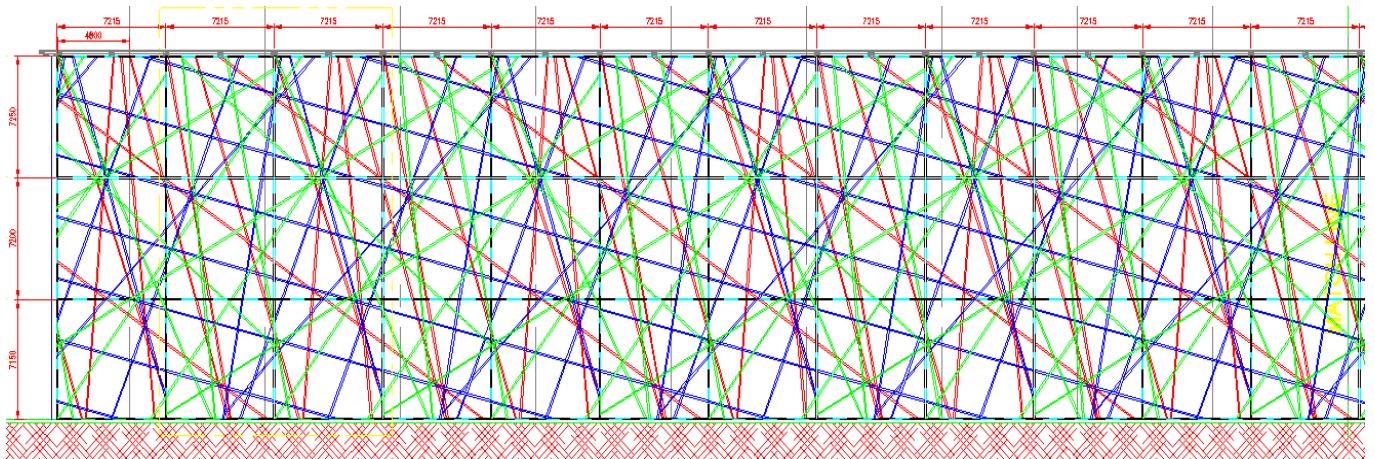




## **BP#04C – N.C.C. CAR PARK (Cont'd)**

### **Cultural City**

#### Facades Chaotic Patterns



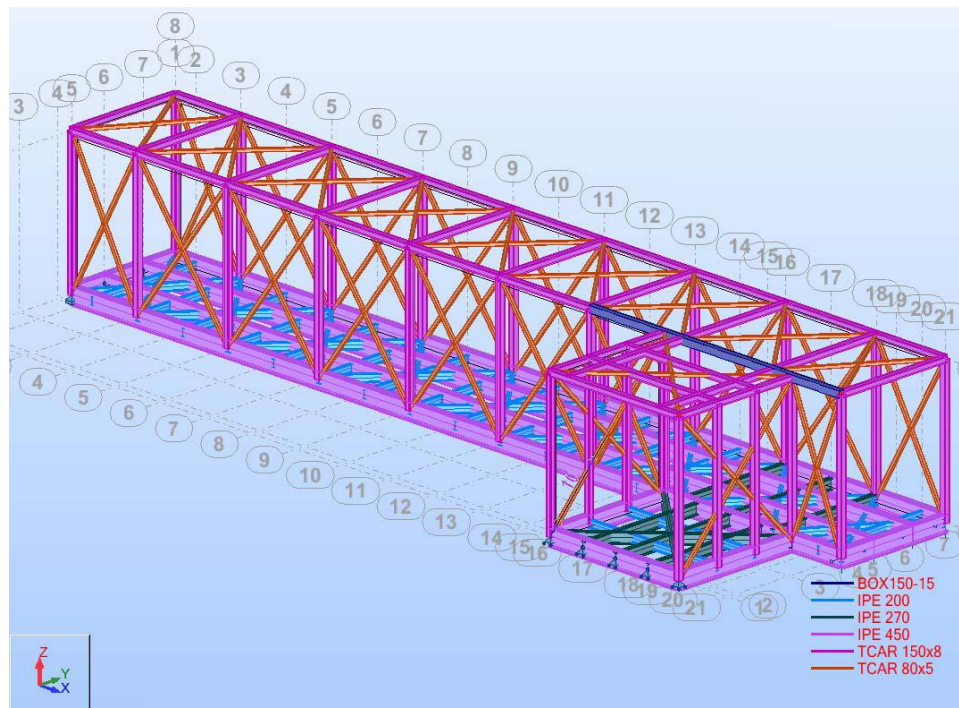
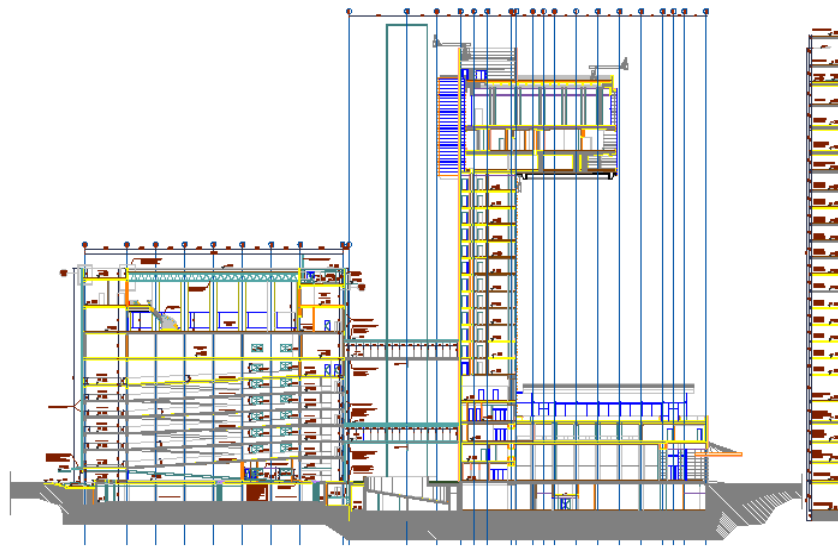
## LA CIGALE HOTEL (2007-2008)

**CLIENT** : La Cigale Hotel

**ARCHITECT**: BATIMAT Architects

**LOCATION** : Doha- QATAR

**PROJECT MISSION**: Parking Bridges and Cigar Bar Steel Structural design including seismic and Wind analysis.



## LINK RESTAURANT EXTENSION (2007-2008)

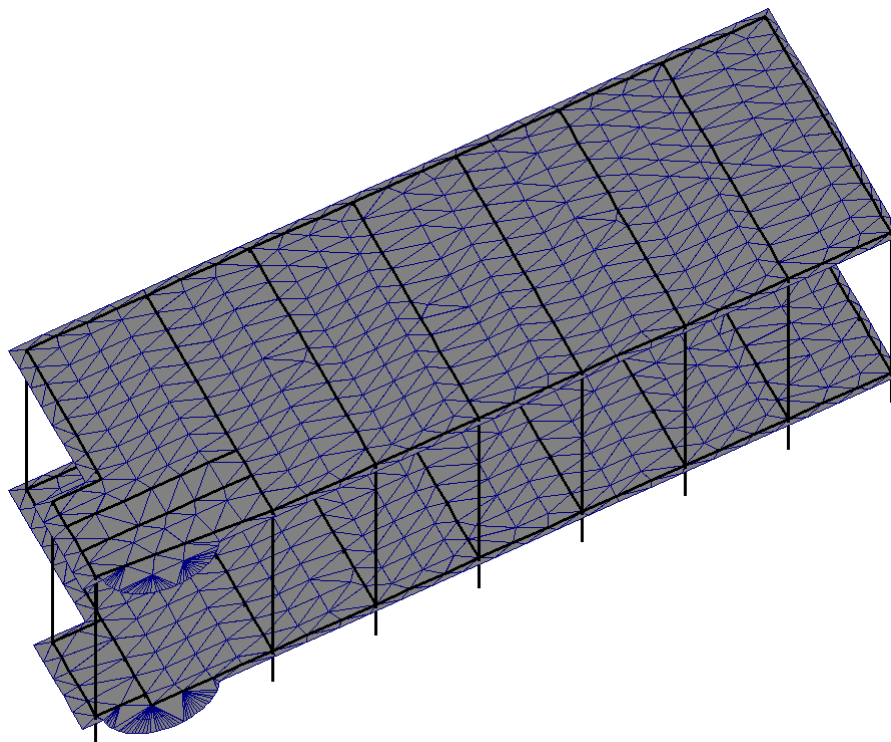
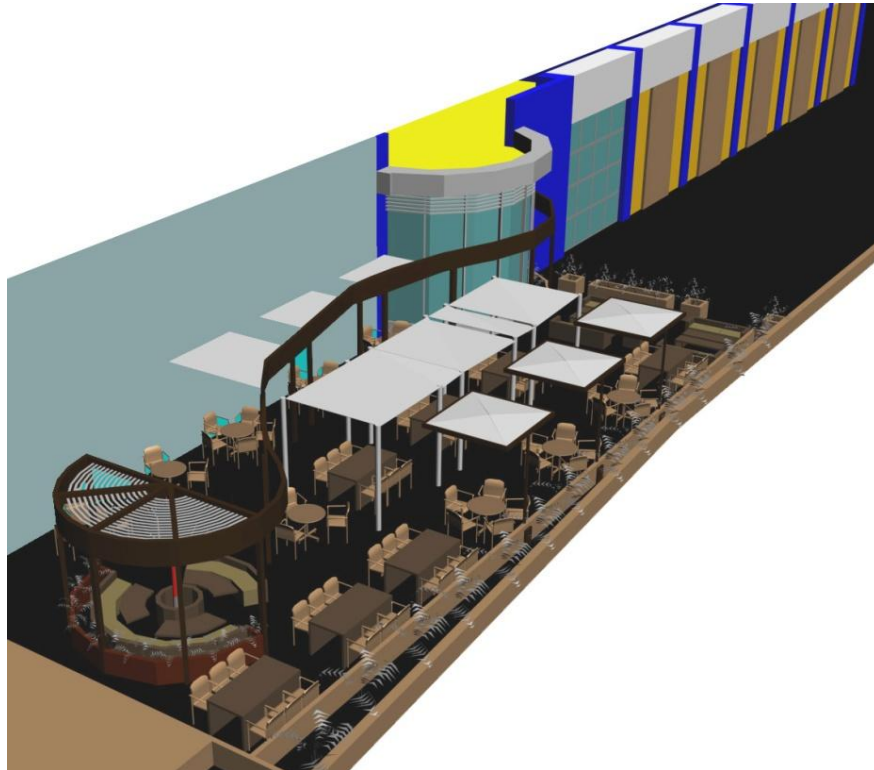
**CLIENT** : Mr. Charbel FARHAT

**ARCHITECT**: Mr. Joseph MOUSSA

**LOCATION** : Antélias - LEBANON

**PROJECT DESCRIPTION**: Lounge including 10 bowling lines.

**PROJECT MISSION**: Structural design including seismic analysis, consultancy and permanent supervision.





## SCHOOL 30 (2005)

**CLIENT** : ABNIAH S.A.R.L.

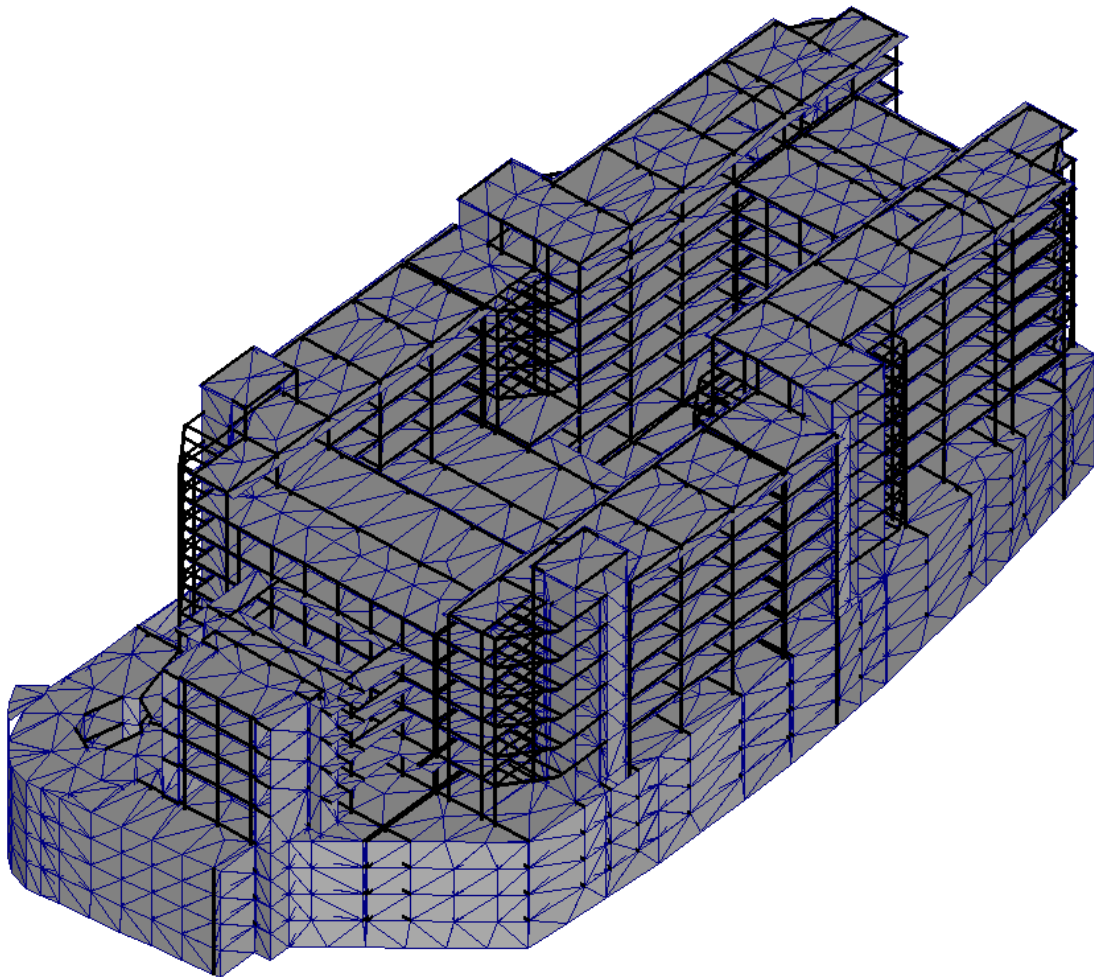
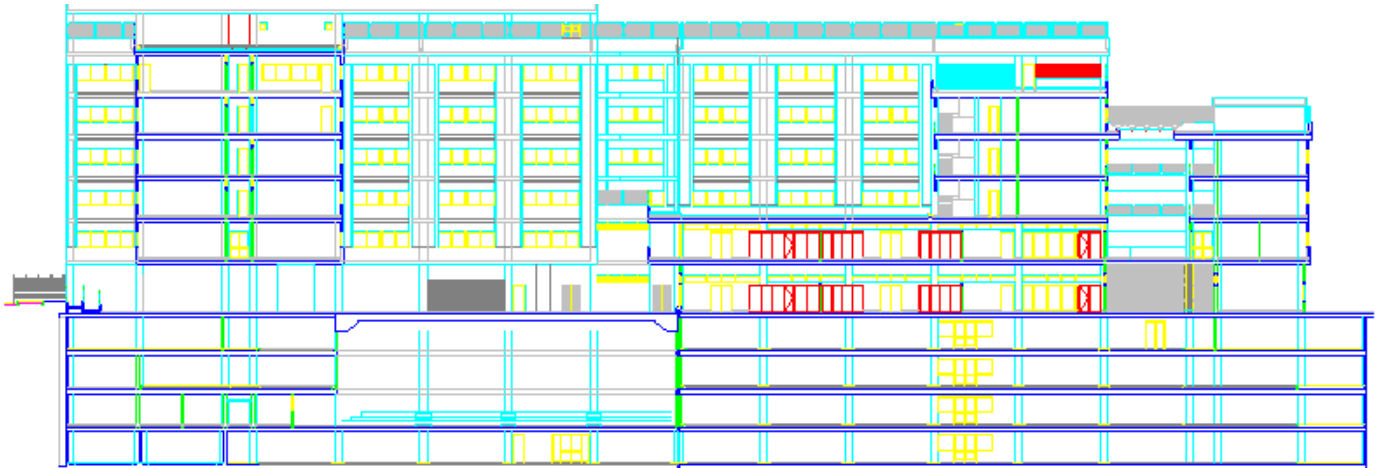
**CONSULTANTS** : SPECTRUM Engineering Consultants S.A.R.L.

**VALUE** : 8,933,000 US Dollars (Concrete works)

**AREA** : 64,727m<sup>2</sup>

**LOCATION:** Beirut - LEBANON

**PROJECT MISSION:** Value engineering and slabs redesign including seismic analysis.



## COMPLEXE HOTELIER DU LARVOTTO

**CLIENT** : SOGETEL

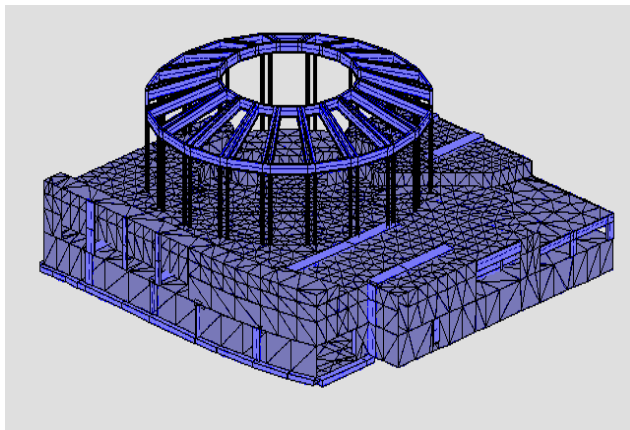
**VALUE** : 13,800,000 US Dollars (Concrete works)

**AREA** : 100,000 m<sup>2</sup>

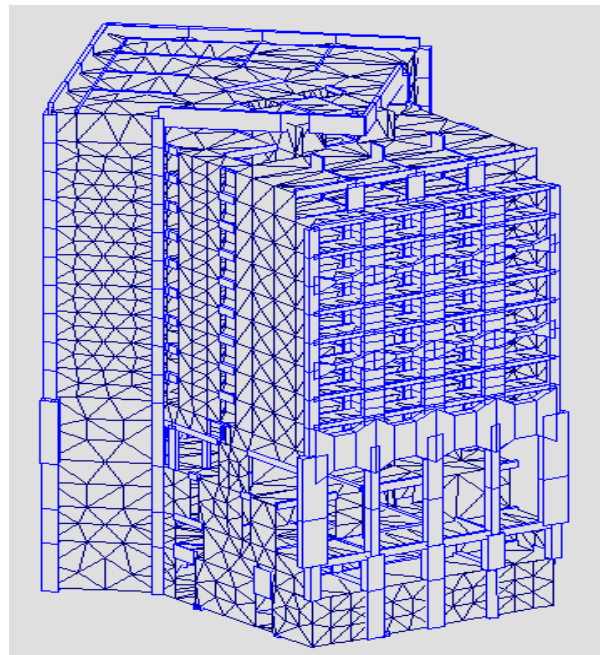
**LOCATION** : PRINCIPALITY OF MONACO

**PROJECT DESCRIPTION:** The project consists of five towers and 12 blocks including parking and utilities.

**PROJECT MISSION:** Structural design including seismic analysis.



ZONE 1  
3105 NODES – 2931 E.BARS - 5398 F.E.



ZONE 12  
26 64 NODES - 366 E.BARS - 5040 F.E.

## **BLOCK U&V PROJECT**

**CLIENT** : SOLIDERE

**ARCHITECT:** VALODE ET PISTRE

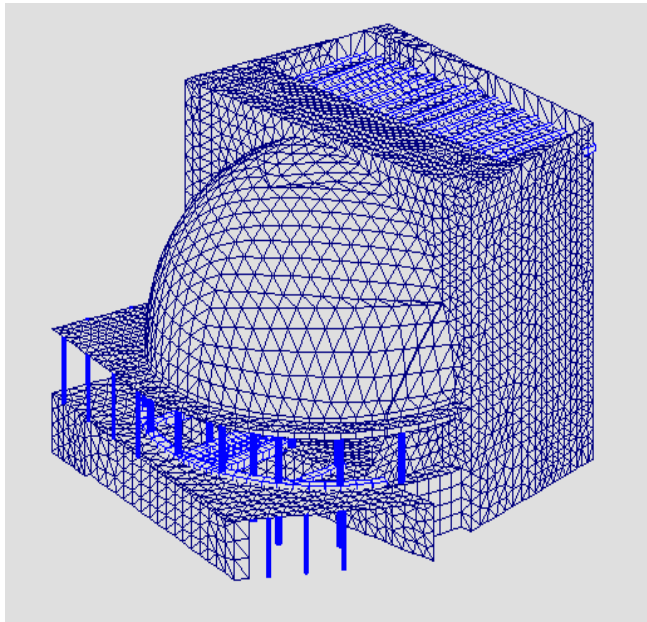
**VALUE** : 4,830,000 US Dollars (Concrete works)

**AREA** : 35,000 m<sup>2</sup>

**LOCATION** :BCD – Beirut - LEBANON

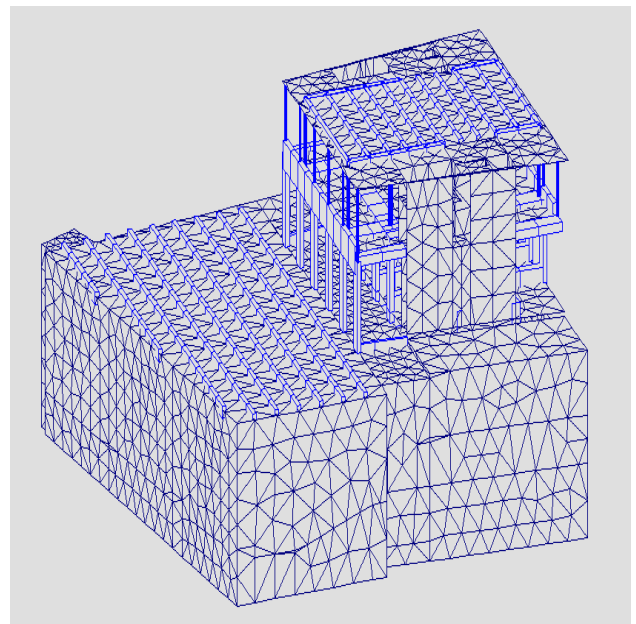
**PROJECT DESCRIPTION:** The project consists of nine cinemas and Imax theater

**PROJECT MISSION:** Structural design including seismic analysis



**BLOCK B**

*Block B model consists of 3508 Nodes –  
406 E. Bars – 6963 F.E.*



**BLOCK C**

*Block C model consists of 3508 Nodes – 406  
E. Bars – 6963 F.E.*

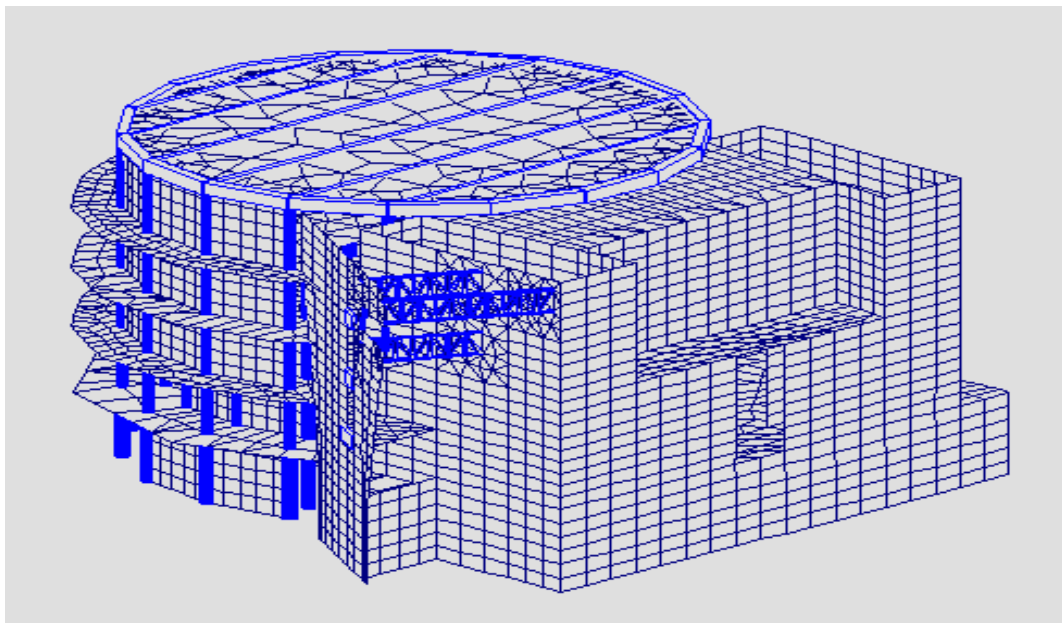


## CENTRE POUR LA CULTURE ET LES CONGRES

**CLIENT** : Union Of Municipalities (Sahel El Metn)  
**ARCHITECT**: Kamal Homsy Architects  
**VALUE** : 1,835,400 US Dollars (Concrete works)  
**AREA** : 13,300 m<sup>2</sup>  
**LOCATION** : Sahel El Metn - Dbayeh- LEBANON  
**PROJECT MISSION**: Structural design including seismic analysis



Cultural Center



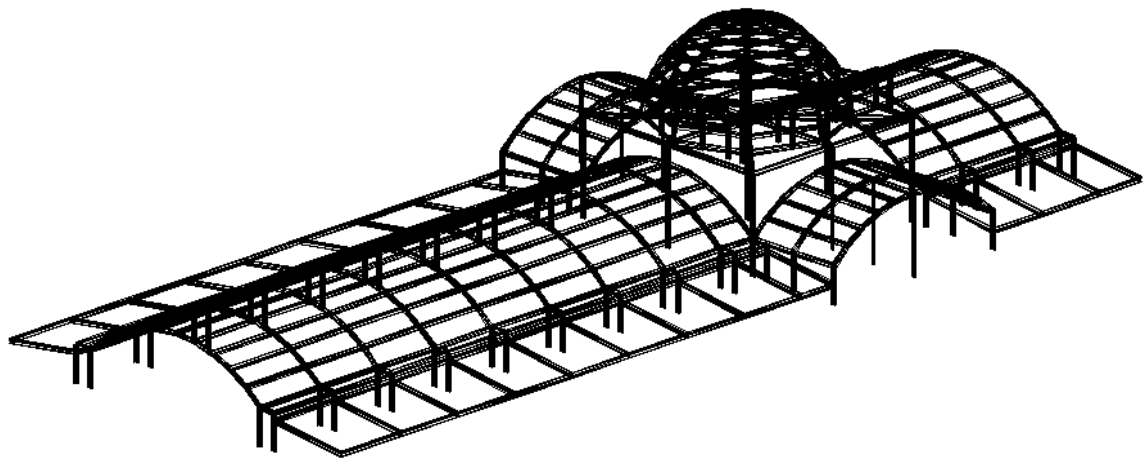
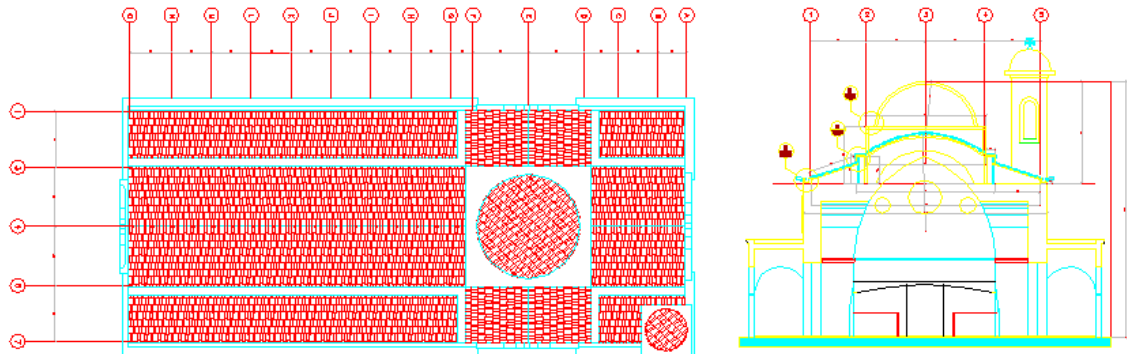
## ST MARY ORTHODOX CHURCH (2001)

**CLIENT** : ORTHODOX CHURCH Vertical Extension

**ARCHITECT**: Mr. Jimmy TADROS

**LOCATION** : Hamra - Beirut- LEBANON

**PROJECT MISSION**: Concrete and Steel Structural design including seismic analysis



## DELB COUNTRY CLUB

**CLIENT** : Sté. DELB COUNTRY CLUB  
**ARCHITECT**: Ziad Akl& Partners  
**VALUE** : 1,000,000 US Dollars (Concrete Works)  
**AREA** : 8,750m<sup>2</sup>  
**LOCATION** : Delb - Bikfaya- LEBANON  
**PROJECT MISSION**: Structural design including seismic analysis



## AMENAGEMENTS DU PARCOURS ET DE L'ENTREE DE LA GROTTE DE QUADICHA

**CLIENT** : MINISTRY OF TOURISM  
**VALUE** : 1,500,000 US Dollars  
**LOCATION** : Quadicha - LEBANON  
**PROJECT MISSION**: Structural design including seismic analysis

## UNIVERSITY OF BALAMAND

**CLIENT** : Mr. Fares Issam FARES  
**LOCATION** : Bsalim - LEBANON  
**PROJECT MISSION**: Structural design including seismic analysis of an additional building



## 5.4 Commercial Projects:

### CAP CENTER - BHV (2011 – 2013)

**CLIENT** : ADMIC s.a.l.

**LOCATION** : Baabda – LEBANON

**VALUE** : 2,925,000 US Dollars(Concrete Works)

**AREA** : 18,056m<sup>2</sup>

**PROJECT DESCRIPTION:** The two blocks subject of our mission are an existing block constructed in the 90's and that served, at this period of time, as commercial and another block as an extension to the existing one. The complex, which is a concrete structure (Columns, shear walls, precast ribs and hollow blocks), is now projected to the following:

- RETAIL spaces
- COMMON areas
- Technical Areas to be refurbished
- Balconies
- Circulation

**PROJECT MISSION:** Our diagnosis goal is to evaluate and assess the following:

- The sufficiency of residual characteristics of construction materials used for the building
- The capacity of the existing structure to satisfy its purpose.
- The need for strengthening the existing structure.

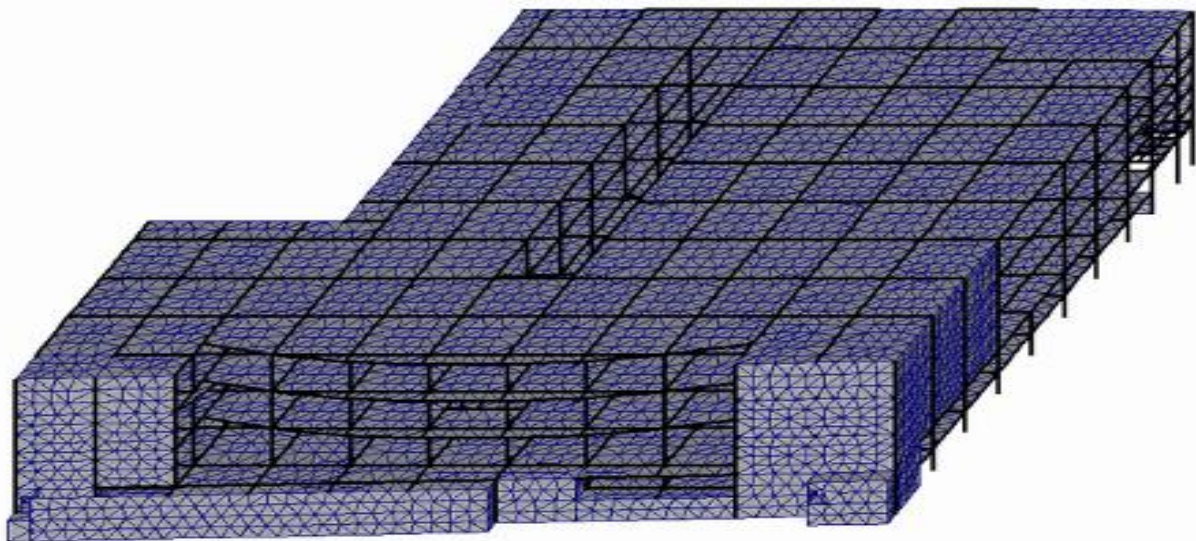
The preparation of the structural design of the old and new building and all related works including the strengthening details and the preparation of the detailed structural design and relevant specifications needed for the construction of the project.



## CITY MALL(Since 2003)

**CLIENT** : ADMIC S.A.L.  
**VALUE** : 80,000,000 US Dollars  
**AREA** : 250,000 m<sup>2</sup>  
**LOCATION** : Dora- LEBANON

**PROJECT DESCRIPTION:** The project consists of two basements and four to five upper floors.  
**PROJECT MISSION:** Structural design including seismic analysis, permanent consultancy and supervision since 2003.



ZONE B4

**10 Blocks Commercial Center**

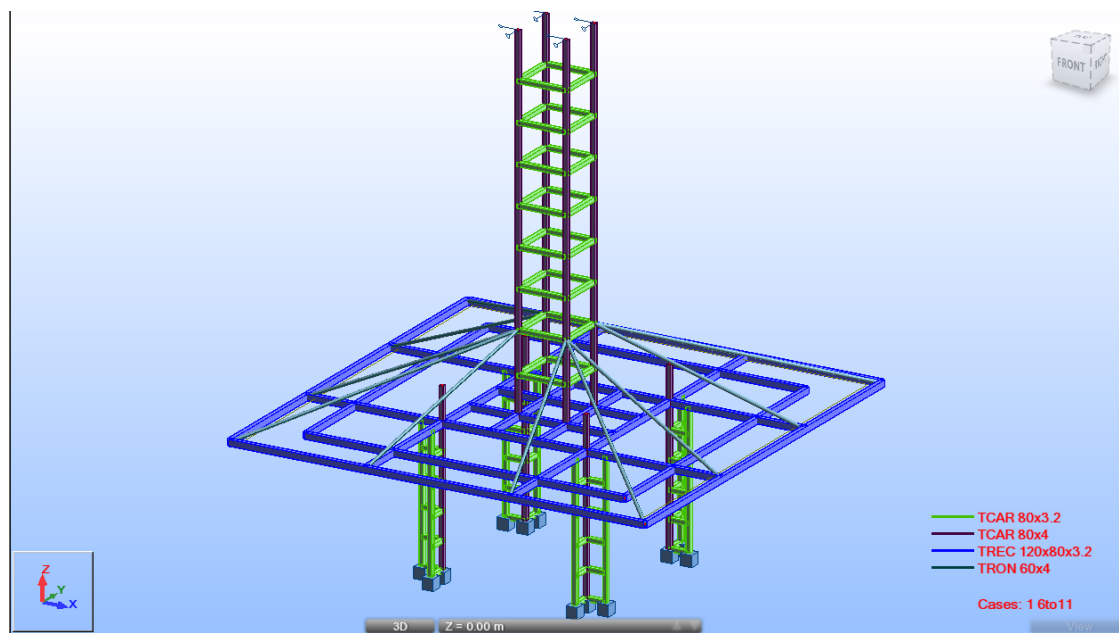
## CITY MALL – GRILLIA RESTAURANT (2009)

**CLIENT** : ADMIC S.A.L.

**LOCATION** : Dora-LEBANON

**PROJECT DESCRIPTION:** Grillia Restaurant structure.

**PROJECT MISSION:** Structural design including seismic analysis, consultancy and permanent supervision along with existing structure assessment and strengthening details.





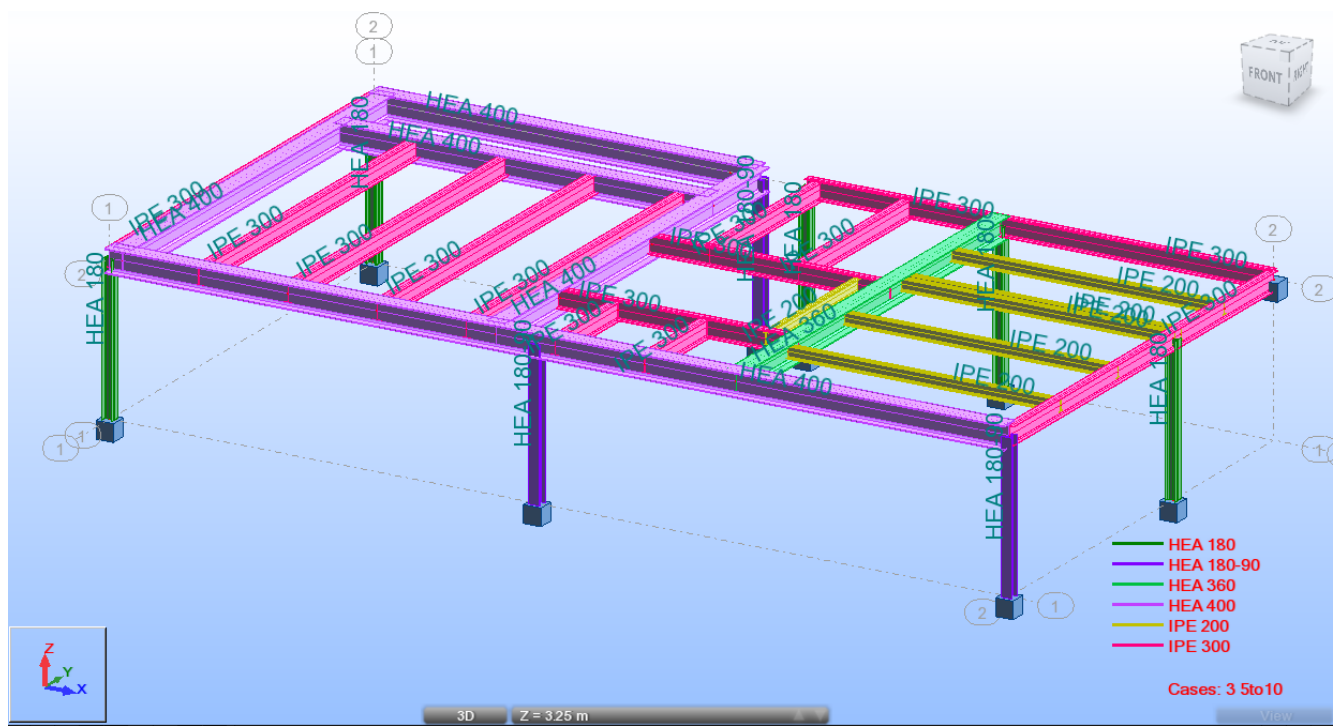
## MEXX & PETIT BATEAU (2009)

**CLIENT** : ADMIC S.A.L.

**LOCATION** : Beirut -LEBANON

**PROJECT DESCRIPTION:** Mezzanine for MEXX store.

**PROJECT MISSION:** Structural steel design including seismic analysis, including elaboration of execution and strengthening details.



## GALERIE LAFAYETTE (2008-2009)

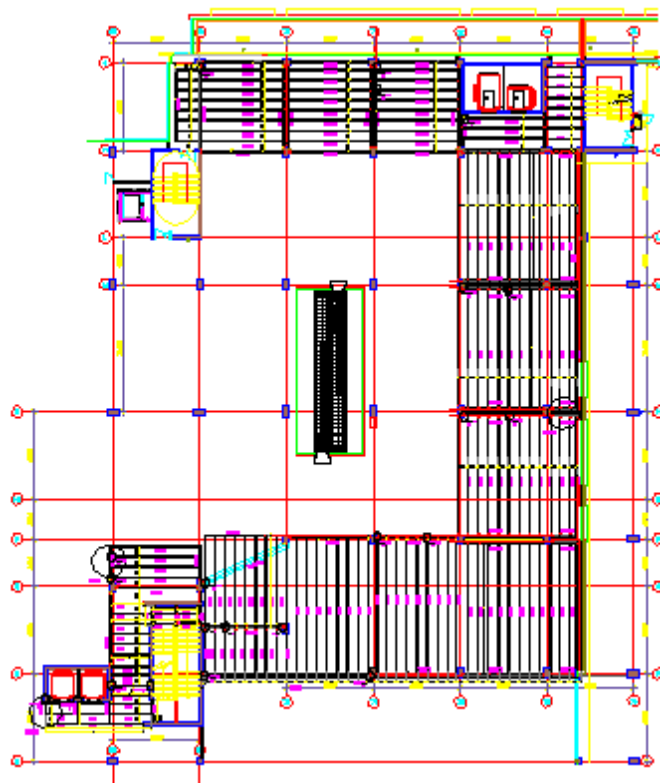
**CLIENT** :Guard Investment

**ARCHITECT:** ADMIC S.A.L.

**AREA** : 4,000 m<sup>2</sup> (Mezzanine)

**LOCATION** : DUBAI MALL - U.A.E.

**PROJECT MISSION:** Mezzanine Second Floor including MEP equipment steel supports, Steel Structural design including seismic analysis.



## MONZA CARS SHOWROOM (2008-2009)

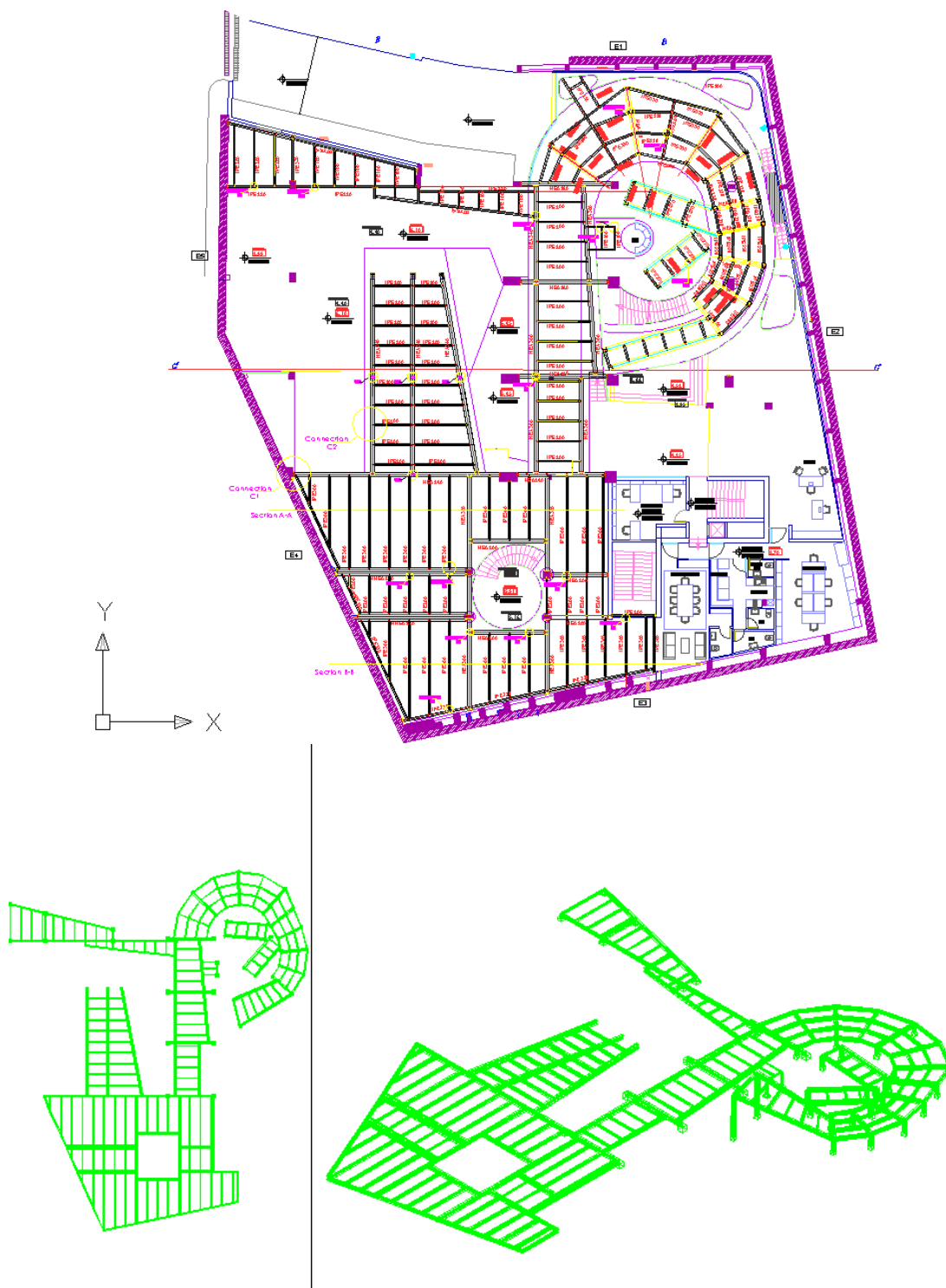
**CLIENT** : MONZA CARS – Mr. Samir KHANJI

**ARCHITECT**: Nadim Karam & Atelier Hapsitus

**AREA** : 1,000 m<sup>2</sup>

**LOCATION** : Ain El Tineh, Beirut - Lebanon

**PROJECT MISSION**: Mezzanine First Basement including MEP equipment steel supports, Steel Structural design including seismic analysis.





## TERRACE ABC DBAYEH - EAST SIDE (2008)

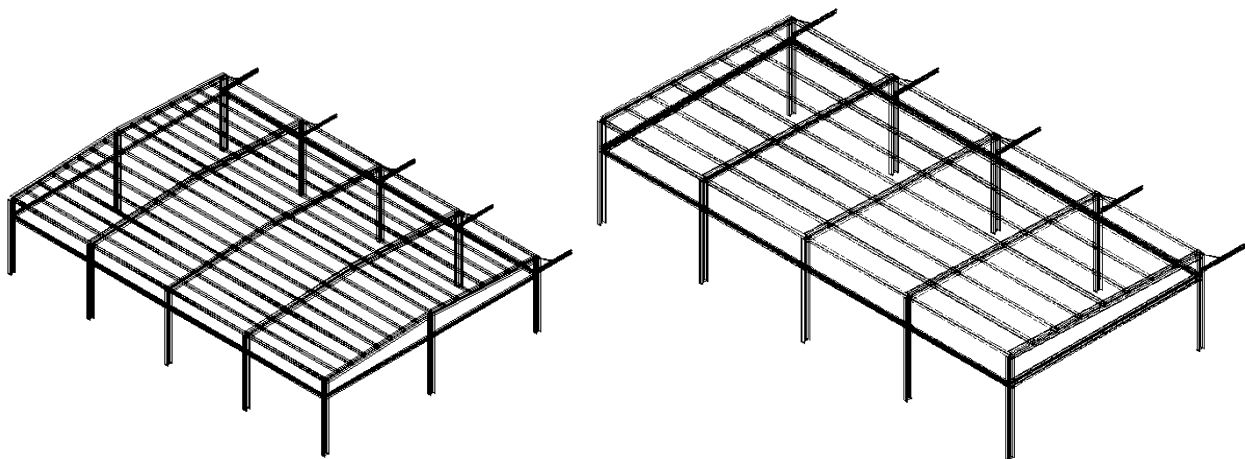
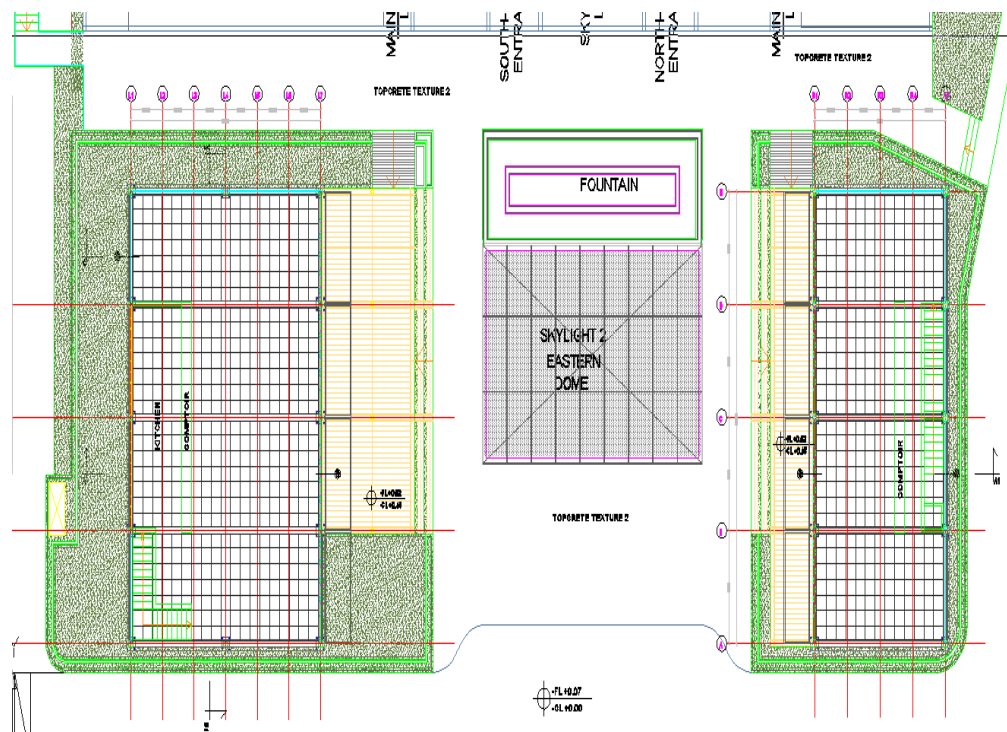
**CLIENT** : ABC Superstores

**ARCHITECT**: Mr. Rami MAACARON

**AREA** : 400m<sup>2</sup>

**LOCATION** : Dbayeh - LEBANON

**PROJECT MISSION**: Steel Structural design including seismic and Wind analysis



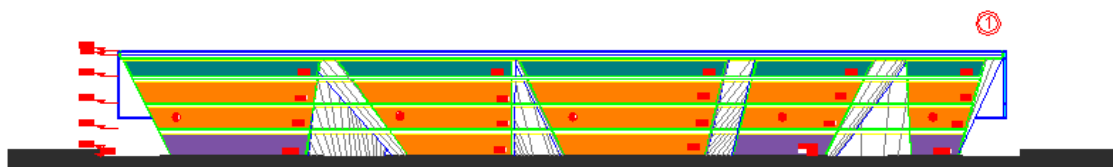
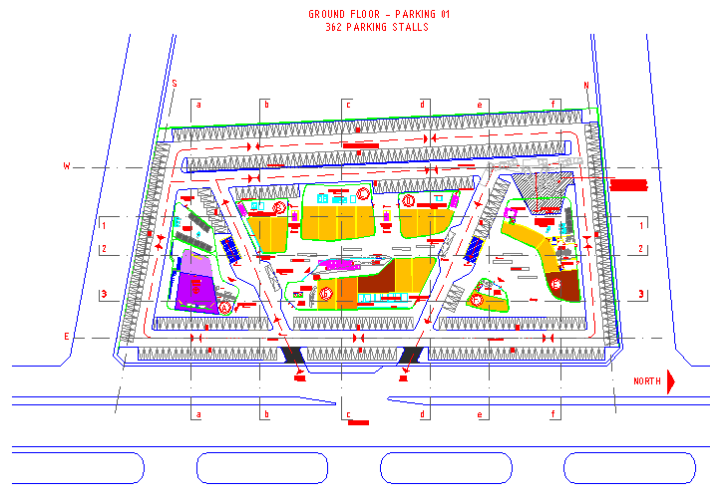
## ALESAYI RETAIL DEVELOPMENT (2007)

**CLIENT** : Mr. Ahmed Ghaleb ALESAYI

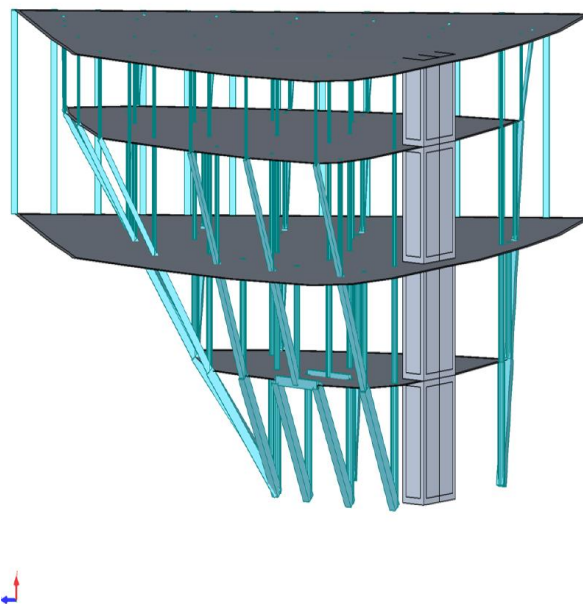
**AREA** : 60,300 m<sup>2</sup>

**LOCATION** : King's road, Jeddah-SAUDI ARABIA

**PROJECT MISSION:** Concrete and Steel Structural concept/design including seismic analysis.



Section 1



## SIEGE DE LA HOLDING “HOLDAL”

**CLIENT** : Sté ABOU ADAL

**ARCHITECT** : Ziad Akl& Partners

**VALUE** : 5,520,000 US Dollars (Concrete Works)

**AREA** : 40,000 m<sup>2</sup>

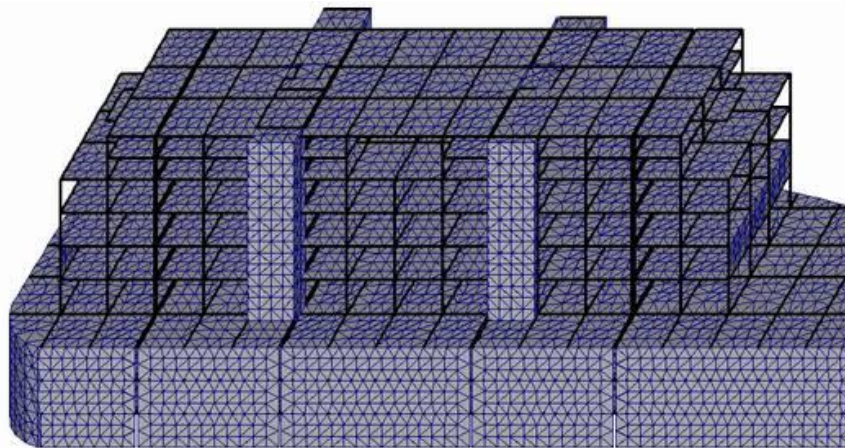
**LOCATION** : BF 325 Mkalles - LEBANON

**PROJECT DESCRIPTION:** The project consists of a warehouse offices and commercial space.

**PROJECT MISSION:** Structural design including seismic analysis.



Warehouse / Commercial



## GOLD SOUKS

**CLIENT** : Solidere

**VALUE** : 3,450,000 US Dollars (Concrete Works)

**AREA** : 25,000 m<sup>2</sup>

**LOCATION:** BCD - BEIRUT – LEBANON

**PROJECT MISSION:** Structural design including seismic analysis



## 5.5 Hospitals:

### MAISON DE LA FEMME DE LA MERE ET L'ENFANT

**CLIENT** : SABE (France)

**VALUE** : 13,380,000 US Dollars (Concrete Works)

**AREA** : 100,000 m<sup>2</sup>

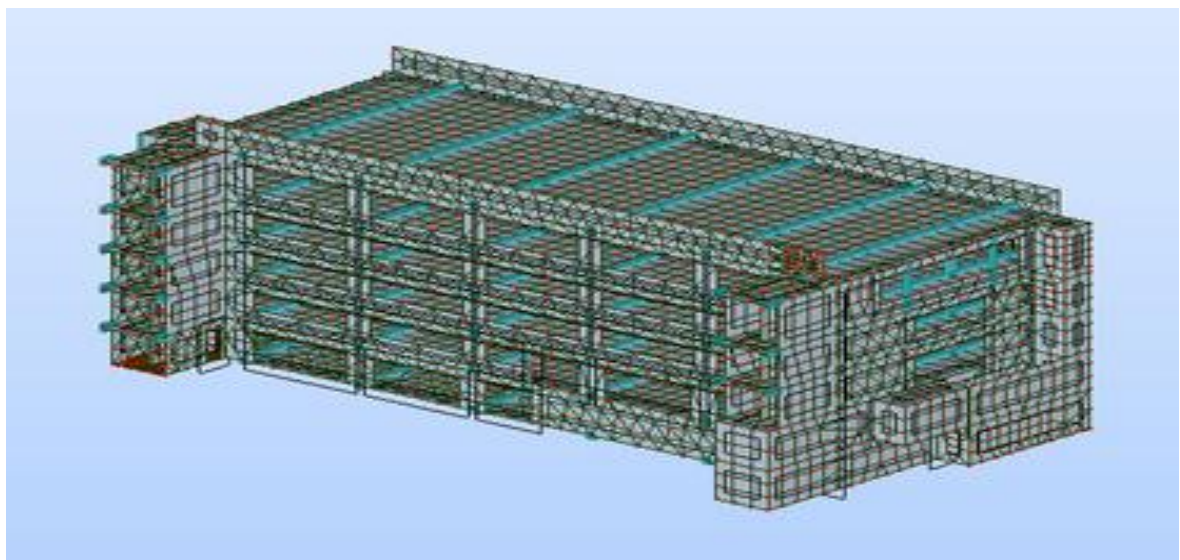
**LOCATION** : Fort De FRANCE- MARTINIQUE

**PROJECT DESCRIPTION:** The project consists of 8 blocks.

**PROJECT MISSION:** Structural design including seismic analysis and shop drawing elaboration.



**8 Blocks Hospital**



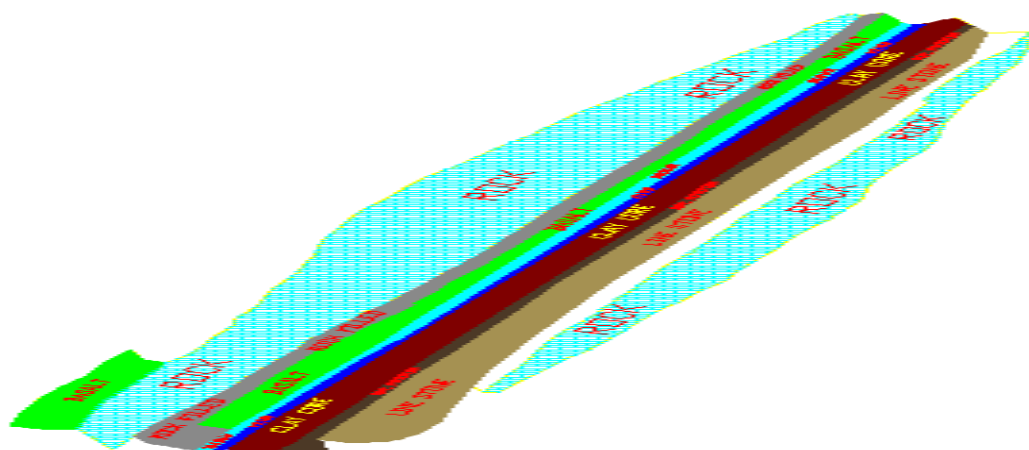
## 5.6 Dams:

### BRISSA DAM PROJECT (2006)

**CLIENT** : CDR

**LOCATION** : NORTH LEBANON

**PROJECT MISSION:** Technical control for the project, as a member of SOCOTEC LIBAN including: Stability of the Dam's foundation base, Solidity of the Dam's structure, Seismic protection.





## 5.7 Damage Assessment Lowering Of Foundations and Rehabilitation Projects:

### TABARJA BEACH HOTEL (2011 – 2012)

**CLIENT** : Mr. Gaith PHARAON

**LOCATION** : Tabarja – LEBANON

**VALUE** : 3,420,000 US Dollars (Concrete Works)

**AREA** : 20,000 m<sup>2</sup>

**PROJECT DESCRIPTION:** The building subject of our mission is an existing complex constructed in the 90's, that consists of a ground floor, 13 upper floors, a technical floor and two basements.

**PROJECT MISSION:** A technical assessment of the complex's existing structure with regard to solidity, visual inspection, test campaign (concrete, steel ...), reinforcement investigation, and all related documents and execution drawings.





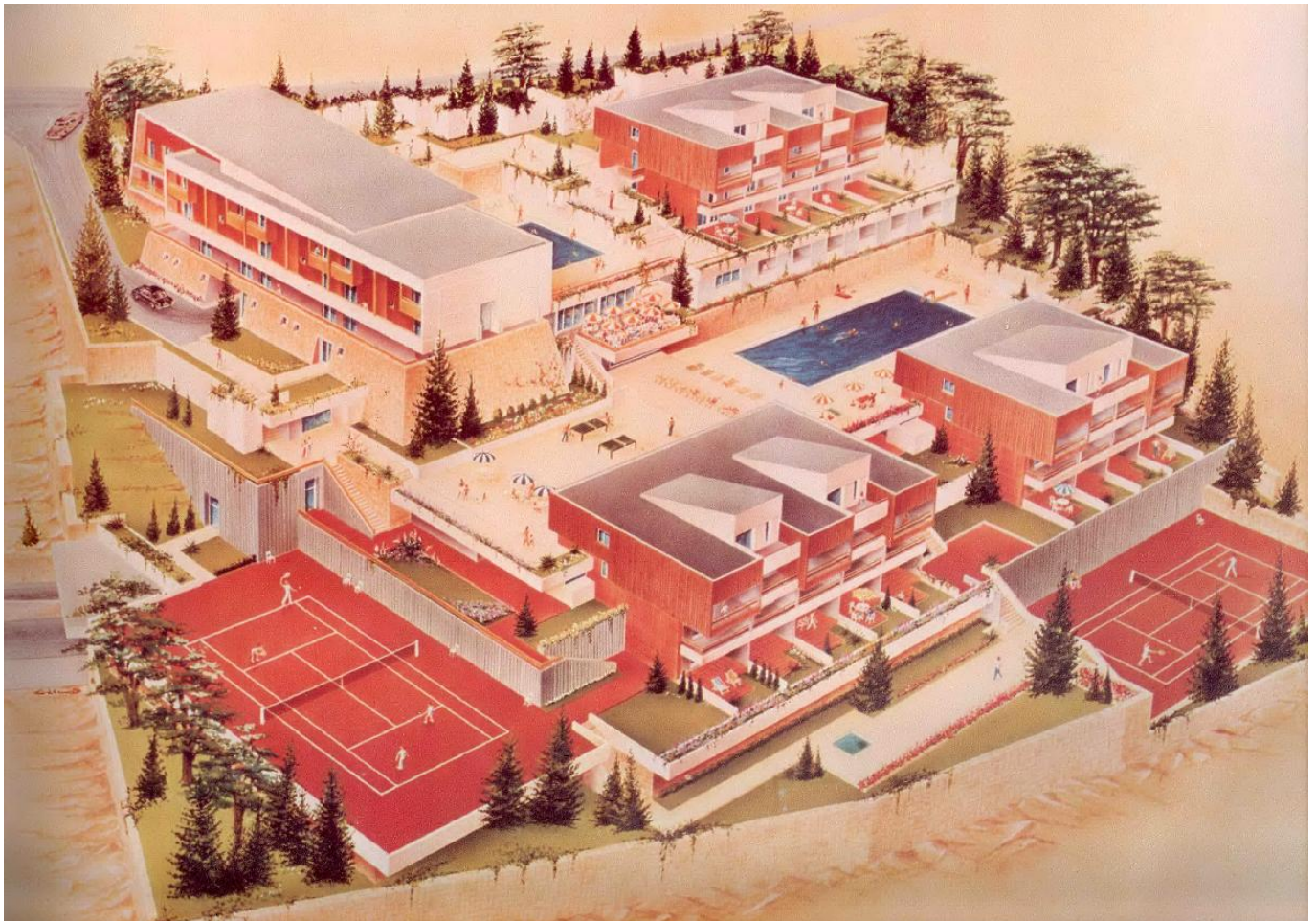
## 3S COTTAGE (2011 – 2012)

**CLIENT** : 3S Cottage Company sal

**LOCATION** : Ouyoun El Simane - LEBANON

**PROJECT DESCRIPTION:** The building subject of our mission is an existing complex constructed in the 70's&80's and that served, at this period of time, as Residential and commercial.

**PROJECT MISSION:** A technical assessment of the complex's existing structure with regard to solidity, visual inspection, test campaign (concrete, steel ...), reinforcement investigation, and all related execution drawings along with permanent supervision.



## SPANISH EMBASSY (Since 2010)

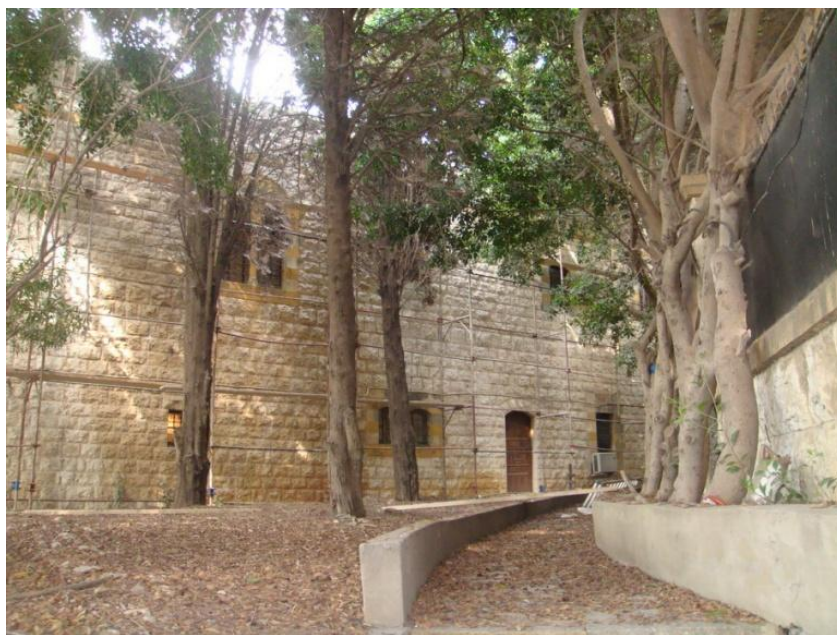
**CLIENT** : Spanish Consulate

**LOCATION** : Hadath - LEBANON

**PROJECT DESCRIPTION:** The structure is a part of the existing 40-rooms Chehab Palace serving as the residence of the Spanish Ambassador to Lebanon.

The substructure consists of one basement while the superstructure consists of a Ground floor and one upper floor, in addition to the roof.

**PROJECT MISSION:** Concept, Design, Control and Execution of the rehabilitation work including the preparation of the damage assessment report and all related execution drawings along with permanent supervision.





## **BOU KHALIL RESIDENCE (2011 – 2012)**

**CLIENT** : Mr. & Mrs. Richard Bou Khalil

**AREA** : 589 m<sup>2</sup>

**LOCATION** : Baabda - LEBANON

**PROJECT DESCRIPTION:** The building is an existing building constructed in the 90's and that served, at this period of time, as residential.

**PROJECT MISSION:** Architectural, structural and electro-mechanical including seismic analysis and the rehabilitation work including the preparation of the damage assessment report and all related execution drawings along with permanent supervision.





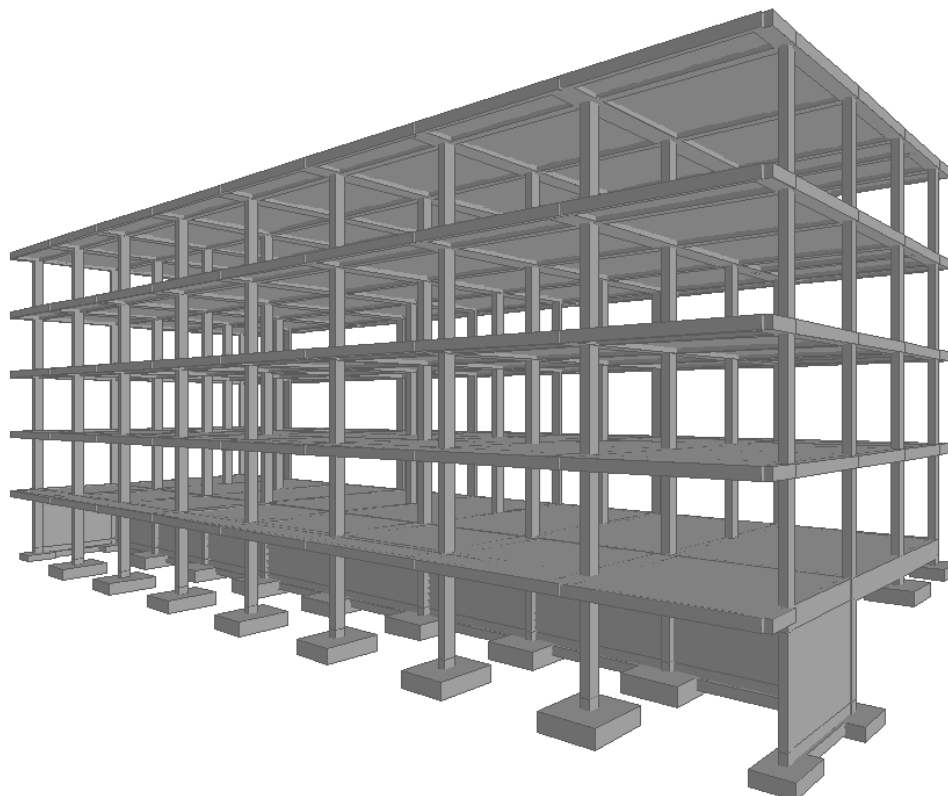
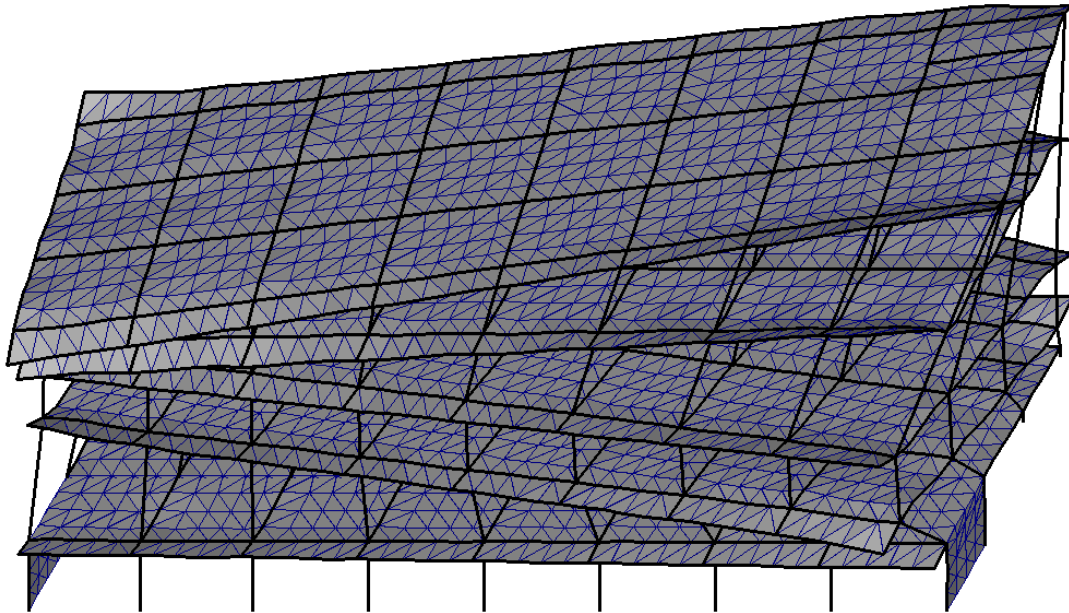
## **BLAT FARM (2011 – 2012)**

**CLIENT** : Mr. Gaith PHARAON

**LOCATION** : Blat – LEBANON

**PROJECT DESCRIPTION:** The building subject of our mission is an existing complex, which consists of a ground floor, 3 upper floors, a roof floor and one basement.

**PROJECT MISSION:** A technical assessment of the complex's existing structure with regard to solidity, visual inspection, test campaign (concrete, steel ...), reinforcement investigation, and all related documents.



## KAMEL RESIDENCE (2008-2012)

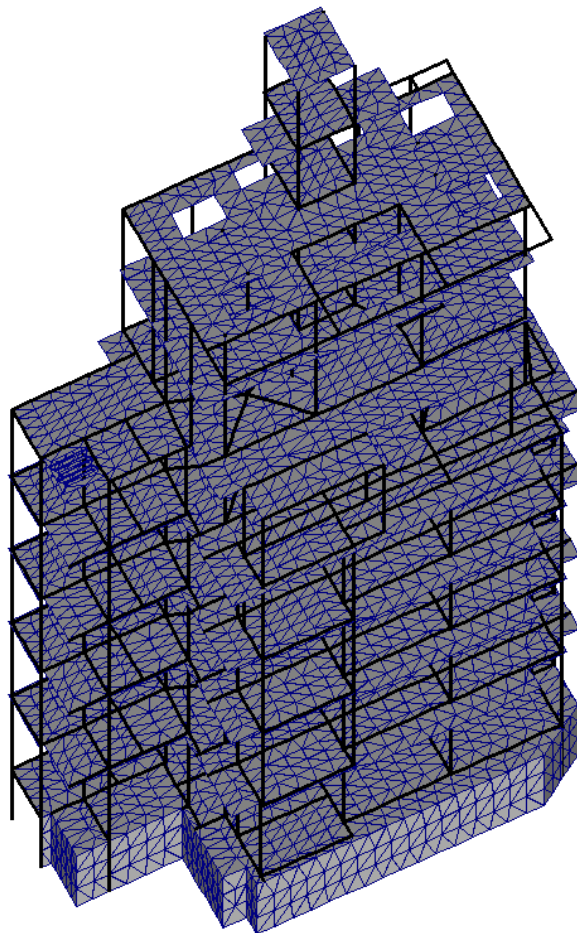
**CLIENT** : Mr. Georges Kamel

**ARCHITECT** : Architectes Anonymes

**VALUE** : 600,000 US Dollars

**LOCATION** : Achrafieh - LEBANON

**PROJECT MISSION:** Conception, Design and Control of the rehabilitation works including the preparation of the damage assessment report when adding a Duplex on the top of an existing building.



## ABD EL WAHAB(2010 – 2011)

**CLIENT** : Mr. Peter Afeiche

**ARCHITECT:** Ms. Nathalie HADECHIAN

**AREA** : 657 m<sup>2</sup>

**LOCATION** : Achrafieh - LEBANON

**PROJECT DESCRIPTION:** The building is an existing house constructed in the 20th century and that served, at this period of time, as Residential. Now it is projected to the following:

- Ground floor to be refurbished to serve as a Restaurant.
- First floor to be refurbished to serve as a Hotel.

**PROJECT MISSION:** Concept, Design and Control of the rehabilitation work including the preparation of the damage assessment report and all related execution drawings along with permanent supervision.





## CAT & MOUTH – TABET CATERING(2010 – 2012)

**ARCHITECT:** R.A.Architects

**AREA** : 7,796 m<sup>2</sup>

**LOCATION** : Bauchrieh - LEBANON

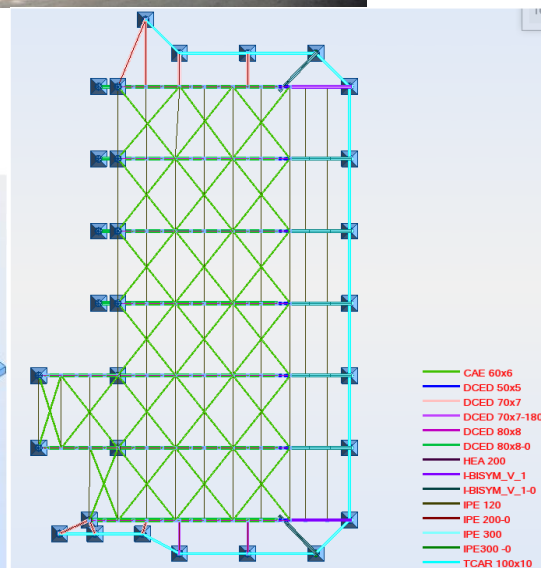
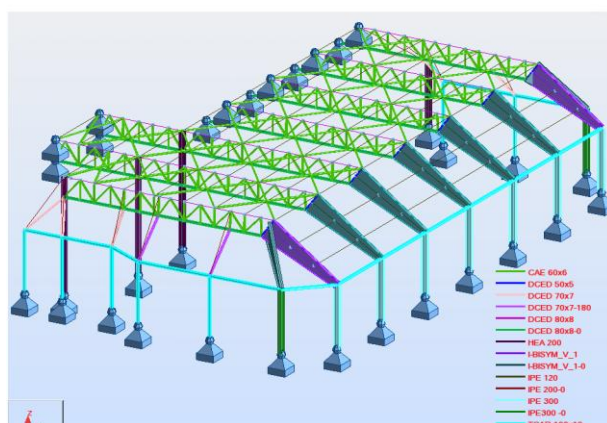
**PROJECT DESCRIPTION:** Zone A (Old House): Adaptive reuse – a wedding catering space, restaurant, dining spaces with kitchen and services, renovation, structural reinforcement/redesign/ glass box extension.

Zone B: New Additions: Flower preparation room, 2 storage rooms, female staff changing room, Male staff showers room, 2 staff toilets (Ground Floor) + generator room (First Floor), Kitchen delivery area, Delivery vehicle parking (pergola), Underground water pump & treatment room + water tanks, Service Courtyard (tent/flexible structure/foldable structure), planter Staircase (technical staircase connecting the ground floor to the planter terraces attached to the existing City Mall wall).

Zone C: Visitors' toilets & cloak (male & female) .

Zone D: Steel Pergola (Outdoor seating).

**PROJECT MISSION:** Concept, Design and Control of the rehabilitation work including the preparation of the damage assessment report and all related execution drawings along with permanent supervision.



## FAYAD BUILDING (2010 – 2011)

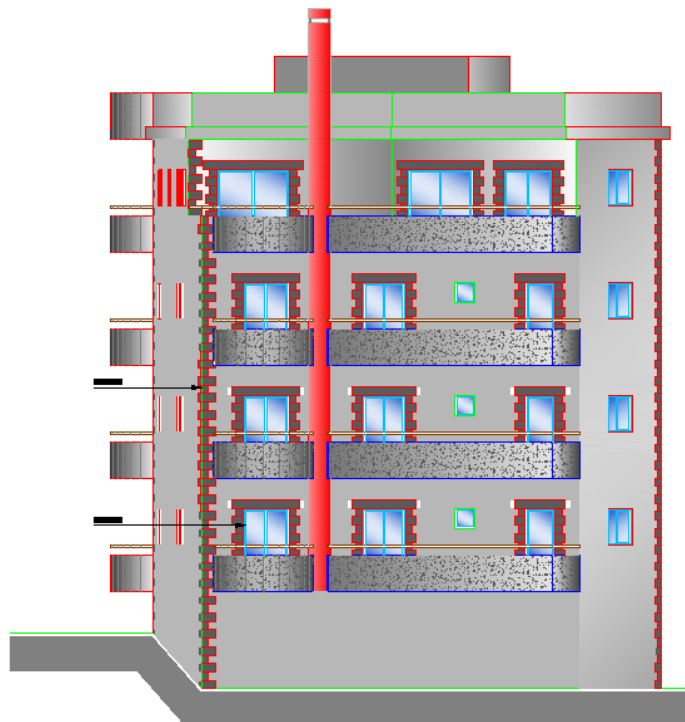
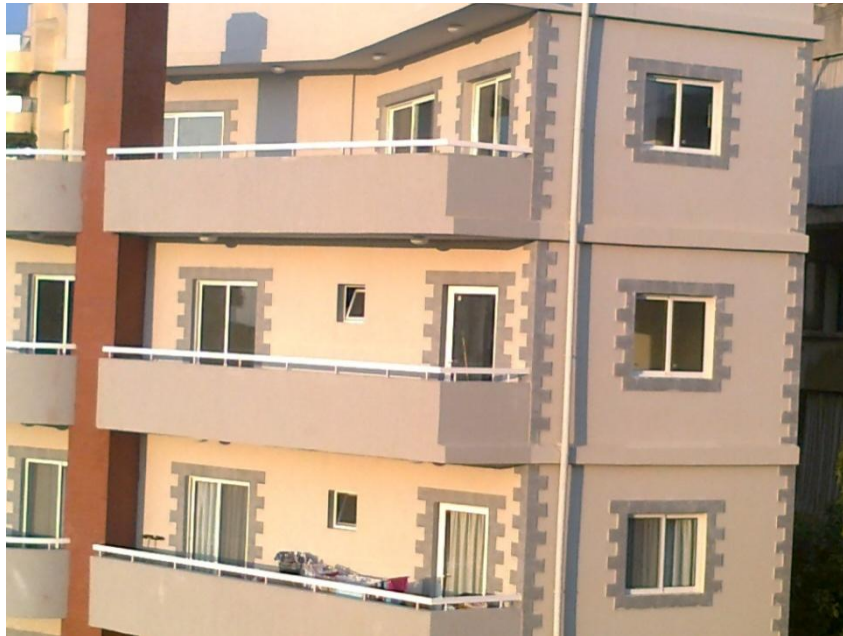
**CLIENT** : Fayad family

**AREA** : 657 m<sup>2</sup>

**LOCATION** : Baabda - LEBANON

**PROJECT DESCRIPTION:** The building is an existing building constructed in the 90's and that served, at this period of time, as residential.

**PROJECT MISSION:** Concept, Design and Control of the rehabilitation work including the preparation of the damage assessment report and all related execution drawings along with permanent supervision.



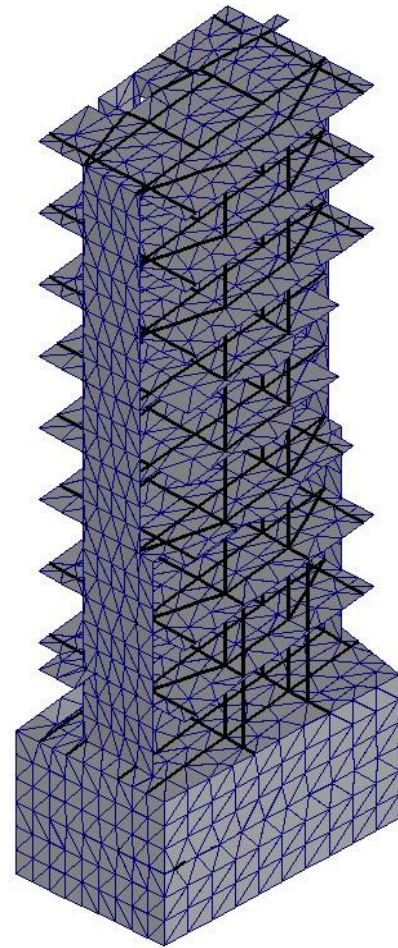
## KAMOUH 1 CENTER(2010 – 2011)

**ARCHITECT:** K.Z. Architects

**LOCATION :** Beirut - LEBANON

**PROJECT DESCRIPTION:** The building is an existing building constructed in the 90's and that served, at this period of time, as Residential and commercial.

**PROJECT MISSION:** Concept, Design and Control of the rehabilitation work including the preparation of the damage assessment report.





## SAINT ZAKHIA CHURCH (2010 – 2011)

**LOCATION :** Batha - LEBANON

**PROJECT DESCRIPTION:** Additional hall above the existing church.

**PROJECT MISSION:** Concept, Design and Control of the rehabilitation work including the preparation of the damage assessment report and all related execution drawings along with permanent supervision.

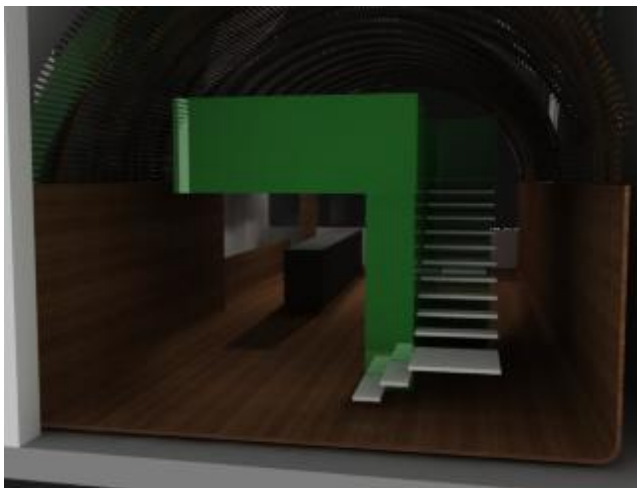
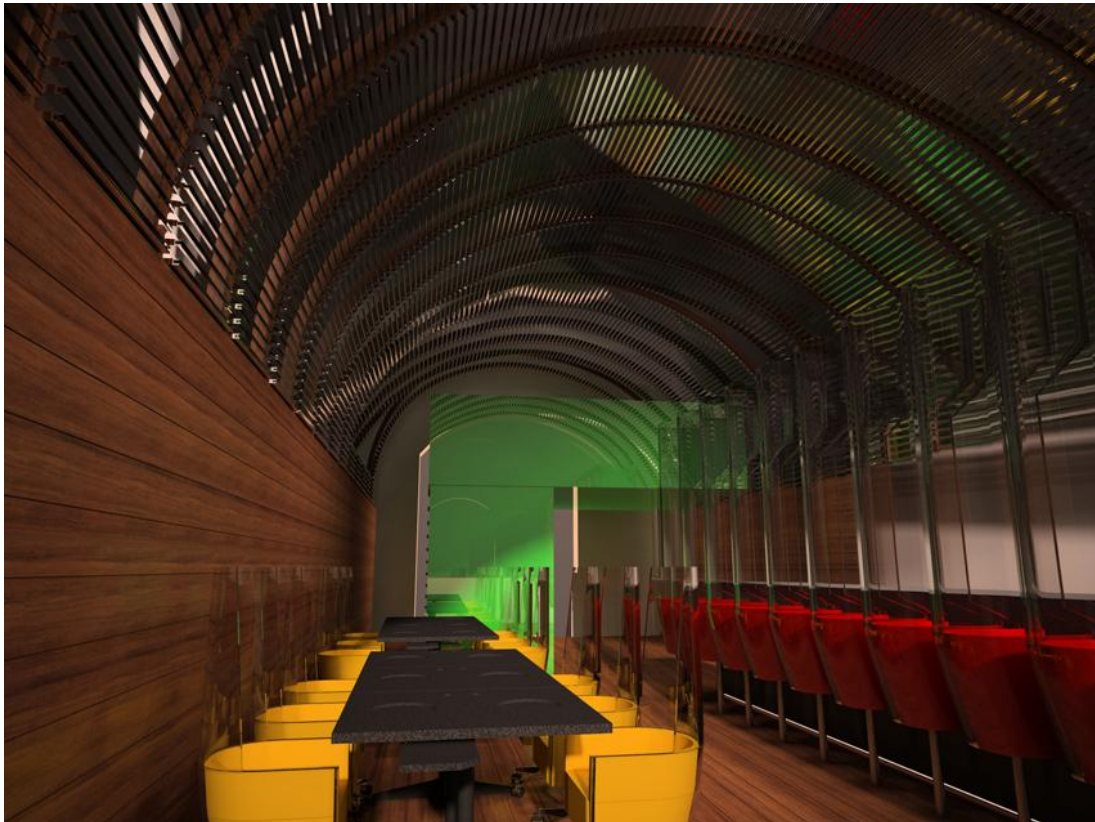


## WINE BAR (2009)

**ARCHITECT:** Architectes Anonymes

**LOCATION :** Saifi - LEBANON

**PROJECT MISSION:** Conception, Design and Control of the rehabilitation works including the preparation of the damage assessment report.





## CONGO CENTRAL BANK (2008 – 2009)

**CLIENT** : Banque Centrale du Congo

**LOCATION** : Bukavu - Congo Democratic Republic

**PROJECT MISSION:** Elaboration of the Damage assessment report and execution drawings following the Earthquakes, including seismic analysis based on the site visits findings.

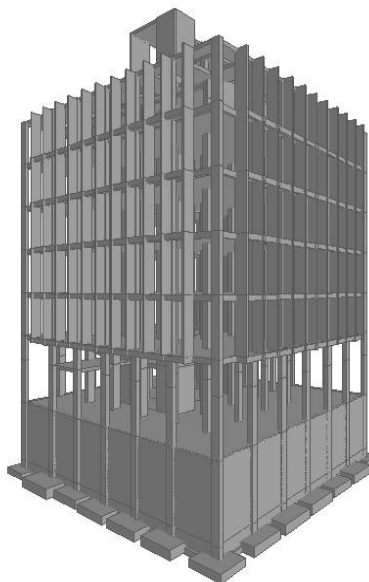


## MARFAA B – LOT1353 (2006)

**CLIENT** : SOLIDERE

**LOCATION** : Beirut Central District

**PROJECT MISSION:** Technical control for the project, as a member of SOCOTEC LIBAN including: Damage assessment, Solidity of works and Safety dispositions





## MAR ROUKOZ MOZAIQUE WORKSHOP (2007-2008)

**CLIENT** : Mar Roukoz Convent

**LOCATION** : Dekwaneh - LEBANON

**PROJECT MISSION:** Design and execution: Furnishing of labor, supervision, tools and equipments, technical and professional services, fabrication and installation drawings, materials, supplies and articles necessary for the construction and completion of the project in accordance with the contract drawings and specifications.



## VERDUN 528

**CLIENT** : SWAN S.A.L.

**ARCHITECT**:BATIMAT Architects

**VALUE** : 1,000,000 US Dollars

**LOCATION** : Verdun- LEBANON

**PROJECT MISSION**: Conception, Design, Control and Execution of the rehabilitation works including the preparation of the damage assessment report and of the works related to the lowering of the levels of foundations of the building (Underpinning Works) when adding two additional basements under the existing building.





## VERDUN 528 (cont'd)





**NABOULSI RESIDENCE****CLIENT** : Mr. NABOULSI**LOCATION** : Mina El Hosn- LEBANON**KSARA WAREHOUSE****CLIENT** : Sté. KSARA**LOCATION** : Ksara- LEBANON**CORTAS FACTORY****CLIENT** : CORTAS sal**LOCATION** : Dora- LEBANON**MARFAWKACHURCH****CLIENT** : PARISH CHURCH**LOCATION** : Jounieh-Ghadir- LEBANON**BLC – RIAD EL SOLH BRANCH****CLIENT** : BLC Bank**LOCATION** : Beirut- LEBANON**UBL - HEAD QUARTER BRANCH****CLIENT** : UBL Bank**LOCATION** : RiadEl Solh- LEBANON**VILLA LAHOUD****CLIENT** : President Emile Lahoud**LOCATION** : Baabdat- LEBANON**LCB - SAIDA BRANCH****CLIENT** : LCB Bank**VALUE** : 300,000 US Dollars**LOCATION** : Saida- LEBANON**FUELTANK-RAFICHARIRIAIRPORT****CLIENT** : CCC**LOCATION** : RAFIC HARIRI INTERNATIONAL AIRPORT- Beirut- LEBANON**PROJECT MISSION:** Technical control for the project, as a member of SOCOTEC LIBAN including: Damage assessment, Solidity of works and Safety dispositions**MINISTRY OF AGRICULTURE****CLIENT** : MINISTRY OF AGRICULTURE**LOCATION** : Hadath-LEBANON

**FRANSABANK HADATH**

**CLIENT** : FRANSABANK  
**VALUE** : 150,000 US Dollars  
**LOCATION** : Hadath -LEBANON

**CENTRE CULTUREL FRANCAIS**

**CLIENT** : FRANCEMINISTRY OF FOREIGN AFFAIRS  
**VALUE** : 400,000 US Dollars  
**AREA** : 400m<sup>2</sup>  
**LOCATION** : Jounieh- LEBANON

**LOT 671 – SOLIDERE BLDG.**

**CLIENT** : SOLIDERE  
**VALUE** : 2,200,000 US Dollars  
**LOCATION** : Zkak El Blat – LEBANON

# Pierre ABI RACHED

## Civil Engineer

### FIELDS OF EXPERIENCE AND SPECIAL SKILLS

- Conception, Design, Control and Execution of establishments of industrial type, housing and receiving the public.
- Conception, Design, Control and Execution of Civil Structural Works.
- Conception, Design, Control and Execution of rehabilitation projects including the preparation of the damage assessment reports and of the works related to the lowering of the levels of foundations of buildings (Underpinning Works).
- Modeling of Structures on Robot Millennium including their seismic & dynamic analysis.  
*Some of these models were used by ROBOBAT as an international reference. (Web site: [www.robobat.com](http://www.robobat.com)).*
- Preparation of contracts, technical specifications, bill of quantities and projects cost estimate.
- Preparation of « Design & Build » contracts, Planning, Value Engineering.
- Elaboration of Shop Drawings and Bar Bending schedules.
- Coordination, Site Supervision and Construction Management.

### PROFESSIONNEL BACKGROUND

Since 05/2007 **P.A.R. Consultants**  
C.E.O. - General Manager.

05-2006/04-2007 SOCOTEC LIBAN  
Project Manager.

07-95/05-2006 "Bureau D'études Rodolphe Mattar" – Lebanon.  
Managing Director and Project Manager. Conception, Design and coordination / supervision of several types of buildings and structures.

04-97/05-97 Mohammed Jelaidan contracting company – Jeddah, Saudi Arabia.  
A one month mission as a structural Consultant for the execution of "Al Andalus Residential compound-Jeddah".

06-94/07-95 U.R.E.N.C.O. Urbanism & Engineering Company – Lebanon.  
Engineer responsible of the design & Execution of a commercial center in Hadeth-Lebanon.

08-94/09-94 One month of technical training in Germany at "DAAD German office for University exchanges "request.

07-93/09-93 U.R.E.N.C.O. Urbanism & Engineering Company – Lebanon.  
Two months as a trainee site-engineer in a residential building in Baabda.

### EDUCATION

- Lebanese Baccalaureate in mathematics (1988 -1989)  
Collège Des Pères Antonins- *Baabda, Lebanon*
- Diploma in Civil Engineering – Public Works (1994 -1995)  
Lebanese University – Faculty of Engineering – Branch II *Roumieh, Lebanon.*

### COMPLEMENTARY TRAINING

- **SPECIALIZATIONS:**
  - Backfilling and Shoring Works
  - Reinforced concrete and pre-stressed Structures
  - Earthquake and dynamic calculations of structures
  - Masonry, plastering and cladding works
  - Steel Construction
  - Member of the steering committee that is working on establishing and implementing the QMS of "Design Office Rodolphe Mattar" according to ISO 9001 : 2000 standard

### PROFESSIONAL EXPERIENCE

Project manager responsible of the structural design and coordination/supervision of the following projects (including their seismic & dynamic analysis, the technical specifications & bill of quantities preparation ,shop drawings control and site supervision ) but not limited to:

For more details and information refer to our website  
[www.parconsultants.com](http://www.parconsultants.com)

- **LEBANON :**
  - "City Mall": 250,000 m<sup>2</sup> Commercial Centre, Dora.
  - "Centre pour la Culture et les Congrès": 13,300 m<sup>2</sup> Cultural Centre, Marina Dbayeh.
  - "Verdun 528": Restoration, Lowering of foundations to allow the construction of two additional basements including the Structural Design, Supervision & Construction Management of an existing building, Verdun.
  - "Centre Culturel Français": Restoration, Jounieh.
  - "Fransabank" Branch at Hadath,"BLC" Bank and "UBL" Bank at Riad El Solh and "LCB" at Sidon: Restoration.
  - "Cortas" Factory: Restoration, Dora.
  - "Luna Press" Factory: Restoration, Zouk Mosbeh.
  - "Port 151": Restoration of an office building, BCD.
  - "Faytroun, Tyr, Halate and Ksara" Electrical Sub-Stations.
  - Extension of " Bikfaya" Electrical Sub-Station.
  - "Carbonatco" factory: office building including Silos, Amchit.



## PERSONAL INFORMATION

- **Date of Birth:**08-06-1972
- **Marital status:**Single
- **Nationality:**Lebanese
- **Languages:**Read, write and speak English, French & Arabic.
- Supervisor/member of the jury for follow up & evaluation of students' final projects at Lebanese University – Faculty of Engineering - branch II *Roumieh - Lebanon*
- Representative in the order of engineers- branch I (Consultants engineers).
- A certified member in the Ministry of Public Works and Transport, General Directorate of Roads and Buildings, second class(classes of buildings).
- Member of Baabda-Louayzeh municipality board.
- **Software Knowledge:**
  - Structural Software :
    - Robot Millennium – Structural Analysis & Design Software
    - Robot Concrete Building System (CBS)
    - SAP 80-90-2000 ( Structural analysis program series )
    - Microfeap II
    - PCA Series Portland of cement Association for reinforced concrete design.
    - RDM
    - SOCO
  - Programming language :
    - Basic
    - Turbo Pascal
  - Other Software :
    - MS Word
    - MS Excel
    - AutoCAD 2007-14
    - RCAD
    - Microsoft Project
- **Conferences:** Post-Tensioning (2004)  
*Order of Engineers and Architects- Beirut, Lebanon*
- **Activities:**
  - Sports: - Judo: Champion of LEBANON for the years: 1987-88-91-92-93  
-Football–Basketball–Ping pong– Swimming– Jogging– Skiing– Rafting
  - Music: Guitar & Drums
  - Boy Scout since 1979, former “Chef de Groupe” at the “Collège Des Pères Antonins” (2002-2005)
  - Traveling: Germany, France, United States, Saudi Arabia, China, UAE, Qatar, Morocco, Turkey, Spain, Monaco, Tunisia, Democratic republic of Congo.
  - Reading, Philosophy
  - Large interest in politics, history & scientific events
  - Active member in T.E.R.R.E. Liban (ecological Association).
- Construction of an industrial steel structure for “LORICO”, Dora.
- “Les Toits De Beyrouth”: three towers and two residential buildings, 80,000 m<sup>2</sup>, Mar Roukoz.
- “SkyHighTower”: tower, Ashrafieh.
- “Gold Souks”: Commercial Centre, 25,000 m<sup>2</sup>, BCD.
- “Entertainment Center-Blocks U&V”: 35,000 m<sup>2</sup>, BCD.
- “Delb Country Club”: 18,750m<sup>2</sup>, Bikfaya.
- “HOLDAL” Holding: 40,000 m<sup>2</sup> offices and commercial spaces, Mekalles.
- “Block 24 (lot 1356)”: 52,000 m<sup>2</sup>, Mina El Hosn – Beirut.
- “CMA\_CGM (Lot 1536)”: 18,000 m<sup>2</sup> office spaces, BCD.
- “Lot 1368”: 24,000 m<sup>2</sup> offices and residential, Mina El Hosn - Beirut.
- “Foch 94”: 20,000 m<sup>2</sup>ResidentialBuilding, BCD.
- “Abou Ghazalé”: Villa, Faqra.
- “F.I.F. Residence”: 5,505 m<sup>2</sup> Villa, Dahr El Sawan.
- “Nayaland Villa”: 5,700 m<sup>2</sup> Villa, Ramlet El Bayda – Beirut.
- “Assouman Residence”: 3,500 m<sup>2</sup> beach house, Batroun.
- “Mrs Khoury Ayoub Residence”: Villa, Yarzé – Baabda.
- “Villa du Président de la République Emile Lahoud ”: Restoration, Baabdat.
- “Villa du M. Michel Chiha”: Restoration, Yarzé.
- “St. Fawka” Church: Restoration, Ghadir -Jounieh.
- “Aménagement du parcours et de l'entrée de la “grotte de Quadisha”.
- **Dubai (UAE) :**
  - “EMAAR Headquarters”: Structural modeling and Dynamic analysis of two towers, Dubai.
- **Arbeel (Iraq-Kurdistan) :**
  - “SheikhallahCommercialCenter”:800,000m<sup>2</sup> commercial centre, Value Engineering and structural concept, Arbeel.
- **Muscat (Sultanate Of Oman) :**
  - “Oman Round About”: Design of four round about made of Steel structure.
- **Monaco (France) :**
  - “Complexe Hôtelier du Larvotto”: 100,000 m<sup>2</sup> Hotel, Structural modeling and Dynamic analysis.
- **Fort de France (Martinique) :**
  - “Maison de la Femme de la Mère et de l'Enfant”: 100,000 m<sup>2</sup> Hospital, Structural modeling, Dynamic analysis and elaboration of coordinated shop drawings and bar bending schedules.

**SOCOTEC****SOCOTEC LIBAN**

51, rue ferneini, furn-el-Hayeck  
Achrafieh - BEYROUTH  
Code postal : 2061 1911  
Tél. : 00 961 1 328 189  
Fax : 00 961 1 218 310  
E-mail : socotec@cyberia.net.lb

Beyrouth, le 31 mars 2007

**CERTIFICAT DE TRAVAIL**

Nous soussignés, SOCOTEC LIBAN S.A.R.L. attestons avoir employé Monsieur Pierre Chafic ABI RACHED du 1<sup>er</sup> mai 2006 au 31 mars 2007 en qualité d'Ingénieur chargé d'affaire.

Durant cette période et dans le cadre de ses fonctions, Monsieur Pierre ABI RACHED a représenté SOCOTEC LIBAN au sein de la commission LIBNOR chargée de l'élaboration des Normes Libanaises NL 134 et NC 135 calcul des structures pour leur résistance aux séismes.

Le Directeur



Roland MARIE

Réf. : D - RZ/RMA/2007.034

BUREAU D'ETUDES  
RODOLPHE MATTAR

JAL EL DIB  
Beirut -Lebanon

Date: 27/04/2007

Ref.: 2K70427-C

**TO WHOM IT MAY CONCERN**

I the undersigned, Rodolphe MATTAR, member of the order of Engineer & Architects in Beirut (registered under the number 3402), General Manager of " Bureau d'Etudes Rodolphe Mattar " office,

Certify hereby that Mr. Pierre Chafic ABI RACHED, born on the 8th of June 1972 and registered under the number 18796 in the order of Engineer & Architects in Beirut, was a member of our office as a senior Engineer/ Managing Director responsible of the structural design & coordination of several projects from the 26th of July 1995 till the 30<sup>th</sup> of April 2006.

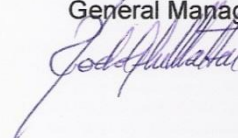
His level of input spread into designing civil engineering structures, from structural modeling till the preparation of execution drawings, site work supervision, coordination and project management:

- Conception, Design and Execution of establishments of industrial type, residential type and receiving the public.
- Conception, Design and Execution of Civil Structures.
- Conception, Design and rehabilitation of structures including the preparation of the damage assessment reports and of the works related to the lowering of the levels of foundations of buildings (Underpinning Works).
- Modeling of Structures on Robot Millennium including their seismic & dynamic analysis.  
*Some of these models were used by ROBOBAT as an international reference since 1997. (Web site: [www.robobat.com](http://www.robobat.com)).*
- Preparation of contracts, technical specifications, bill of quantities and projects cost estimate.
- Preparation of « Design & Build » contracts, Planning, Value Engineering.
- Elaboration of Shop Drawings and Bar Bending schedules.
- Coordination, Site Supervision and Construction Management.

His keen interest and professional approach placed him in high regard in the company.

This letter has been granted upon his request and given in good faith.

Rodolphe MATTAR  
General Manager



C.I.S. Bldg- 72, Main Road - Jal El Dib  
P.O.Box : 1035 - Antelias - LEBANON

Telephone + Fax: 961-4 - 406326 / 417626  
E - mail : [ROLPHMAT@cyberia.net.lb](mailto:ROLPHMAT@cyberia.net.lb)



الجمهورية اللبنانية  
وزارة الأشغال العامة والنقل  
المديرية العامة للطرق والمباني

مديرية المباني

م / ٦١٣

جانب : المهندس بيار شفيق ابي راشد

عملاً بأحكام الفقرة الثالثة من المادة السادسة من  
المرسوم رقم ٣٦٨٨ تاريخ ٢٥ كانون الثاني سنة ١٩٦٦ .

نبلغكم أن اللجنة المشكلة بموجب المادة  
الخامسة فقرة ب- من المرسوم المذكور ،  
صنفتكم بالقرار رقم ١٣٣/مباني تاريخ ٢٠٠٩/٣/١٣  
ففي الجدول الثاني الفئة ب- الدرجة - الثانية -  
دروس أعمال المباني .

بيروت في ١٦ آذار ٢٠٠٩

مدير المباني

المهندس محمد عبد اللطيف