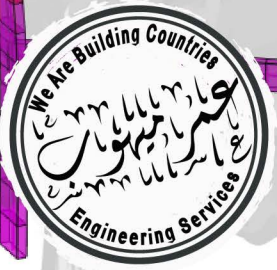
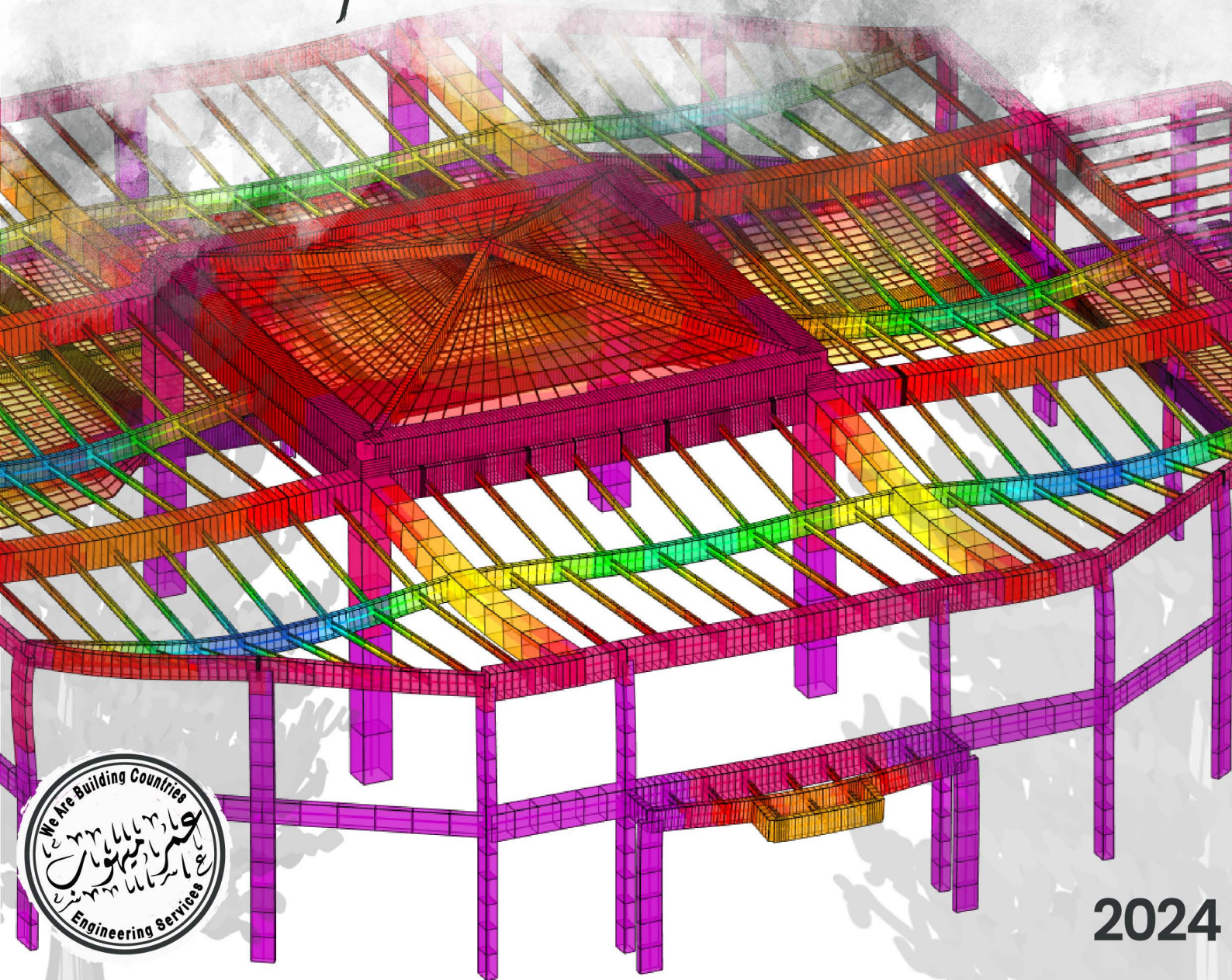


MAYHOB Engineering Office

We Are Building Countries



Currently Available Services 02 - 06

Steel Structures Design
Steel Detailing

Steel Fabrication & Erection
Attending Meetings

Recent Projects 07 - 15

NEOM Base Economy Assets
Massar Makkah Pop-Ups
Boulevard Italy Buildings
As Safiyyah Museum & Park

Masjjid Al Shaikh Abdul Latif
Freej Swaileh Restaurant
Container Buildings

Typical Halls 16 - 23

Bakery Factory
Material Store
Seven Pillars

Al Diriyah Ground + Mezzanine
Cold Food Store

F&B Structures 24 - 33

Mivida Boxpark Mall
The Street

New Mariia

Radial Halls 34 - 38

Riyadh Restaurant
Wood Workshop

University Cafeteria

Gates 39 - 40

Boulevard Tiland Gate

Riyadh Zoo Gate

Bridges 41 - 43

Extension of Airport Bridge

Cladded Bridge

Towers 44 - 46

65m Tower

14m Tower

Sign Boards 47 - 52

Mostakbal City

Sign Board

Stairs 53 - 59

Material Store & Show Room
Ford Stairs
Takosan Stairs

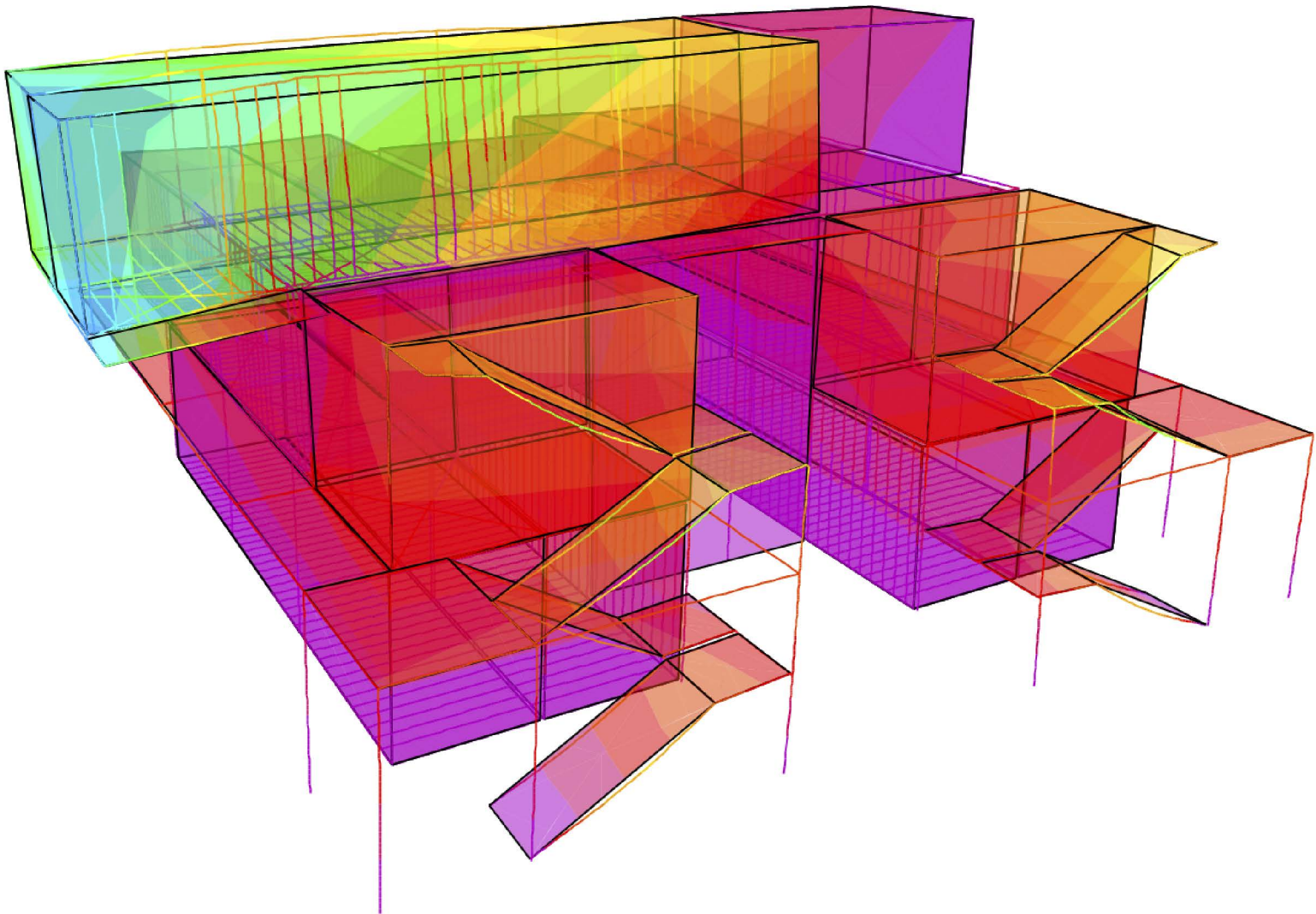
Regheef Ouf Stairs
Helical Stairs

Currently Available Services

- Steel Structures Design:

>> Estimate Design Package:

- Structure Analysis Model
(3D Model that includes all structural members and all loads which affect the building)
- Structural Design Drawings
(All plans , elevations and sections that clarify the chosen system and selected steel profiles)
- Estimate Weight + Material List ($\pm 5\%$)
(Structure's weight and list of members used)

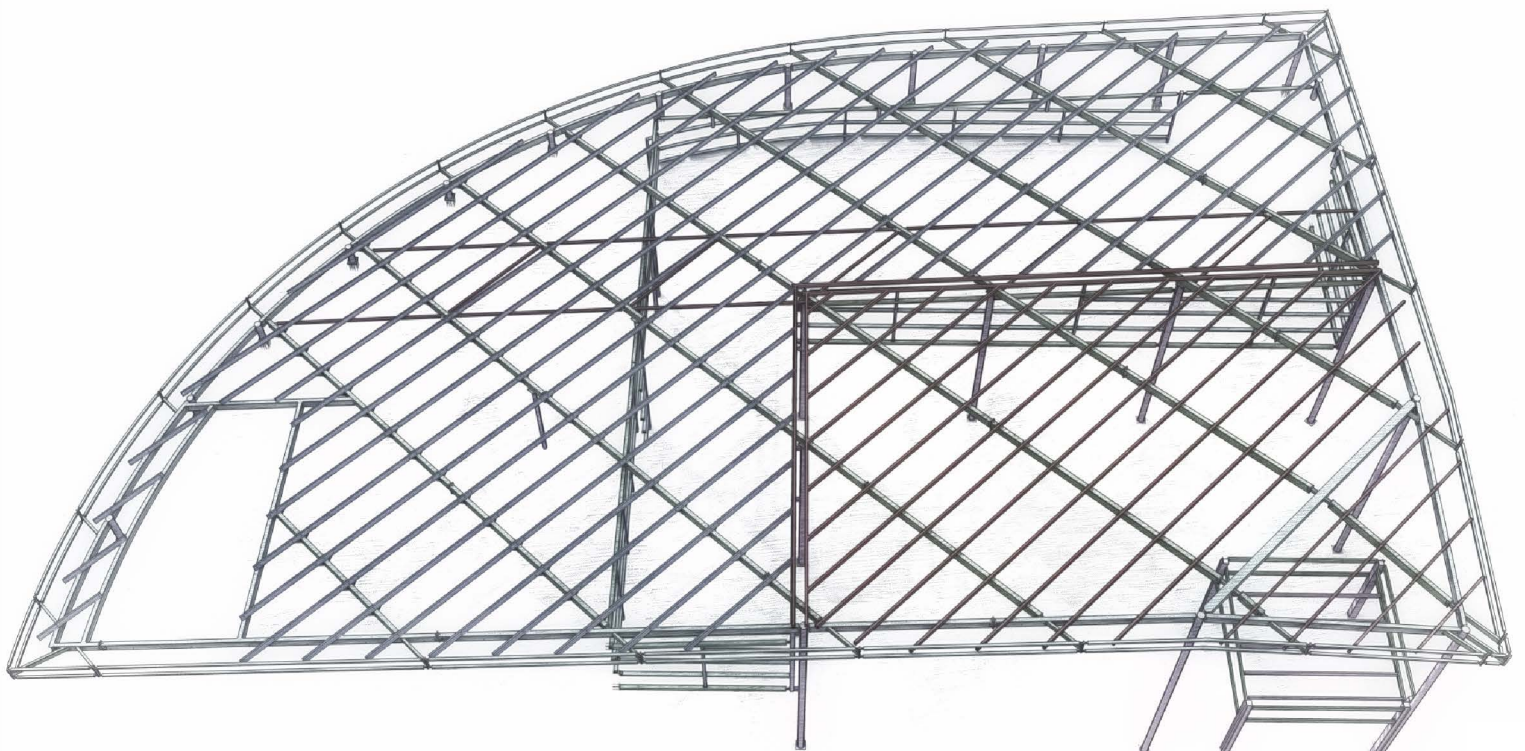


Currently Available Services

- Steel Structures Design:

>> Full Design Package:

- Final Structure Analysis Model
(3D Model that includes all structural members and all loads which affect the building)
- Full Structural Design Drawings
(All plans , elevations and sections that clarify the chosen system and selected steel profiles + full connections details)
- Calculation Sheet
(It includes all details for building geometry, system used, taken loads, straining actions on each member, members design, also full connections design using finite element method)
- Accurate Weight + Material List
(Structure's weight and list of members used)
- Fully Detailed 3D Model (**Upon Client's Request**)
(All members, connections and bolts arranged together as a 3D simulation of your structures with DWG & IFC extensions)



Currently Available Services

- Steel Detailing:

- Fully Detailed 3D Model

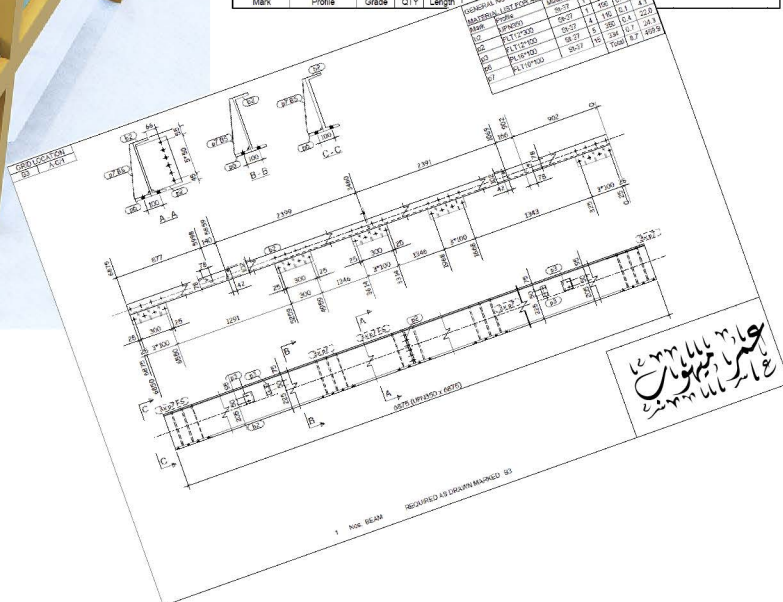
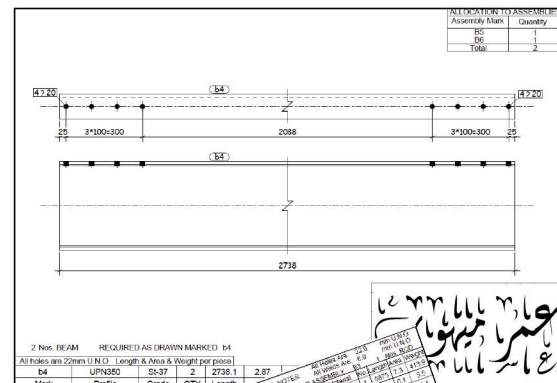
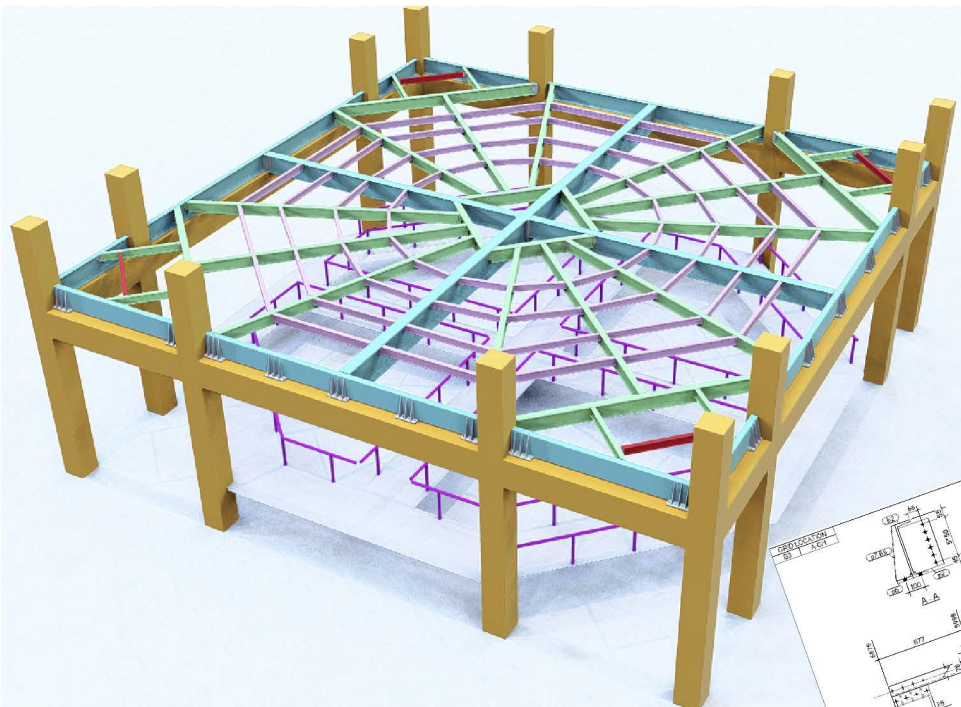
(Intelligent 3D model helps steel fabricators work more efficiently. It helps at every stage of the process from design through fabrication and installation.)

- Single Part Drawings

(workshop drawings that show the fabrication information for one part [showing part's dimensions & holes diameter]. Single-part drawings usually use small sheet sizes, for example, A4 or imperial standard size 8.5" x 11.5".)

- Assembly Drawings

(Typically workshop drawings showing fabrication information for one assembly. In most cases, an assembly consists of a main part and secondary parts. The secondary parts are either welded or bolted to a main part. Assembly drawings usually use larger sheet sizes than single-part drawings, for example, A3 or imperial standard size 11" x 17".)



Currently Available Services

- Steel Detailing:

- Genral Arrangement Drawings

(GA drawings show the model from the most suitable direction. For example, in plan drawings, you are looking from the top of a building or floor down towards the ground. In elevation drawings you are looking from one of the sides of the building, like along a grid line. General arrangement drawings often contain enlarged views of complex areas or details, and other additional information that helps in the approval process and during the installation phase.)

- NC Files

(NC [Numerical Control] refers to a method where machine tool operations are controlled with a computer. The NC data controls the motion of CNC (computer numerical control) machine tools. During the manufacturing process a machine tool or machining center drills, cuts, punches or shapes the piece of material.)

- All Needed Reports

(Includes all project's data; like materials needed, part list, assembly part list & number of bolts needed for erection stage)

- Members Nesting

(The nesting of groups enables the creation of hierarchical relationships that can be used to reduce member's waste.)

- Members & Bolts Procurement Order

(Preparing such documents makes workflow faster and no need for such process in the factory.)

- Manufacturing Follow-Up For Any Kind Of Technical Support

(Our technical team is always ready to solve any issue at the fabrication or erection stages.)

Currently Available Services

- Steel Fabrication & Erection:

We offer solutions to customers, consultants, and contractors by providing conventional, solid, high-performance metal building systems and steel structures for industrial, commercial, F&B, and institutional use.

The process of steel fabrication involves grinding, welding, cutting, bending, drilling, punching, burning or melting and other general crafting methods using various high-quality tools and CNC equipment. The entire steel fabrication process is systematic and requires utmost planning, precision, and knowledge. Steel fabricators are well aware of all the crucial steps and measures that need to be taken care of in the fabrication process. Structural steel is usually fabricated to create structures like beams, trusses, hollow sections, angles, and plates.



- Attending Meetings:

Our technical team is always ready to attend any meeting related to our previous services.

Physical attendance is only available in Egypt till now; but zoom meetings available for other countries.



Recent Projects

- NEOM Base Economy Assets:



| Location : KSA



As a contractor's designer, we proudly offer our services to "FIRST FIX" for the construction of the project, which comprises fifteen halls with varying areas, reaching a maximum of 3000 m².

Our expertise and collaboration with "FIRST FIX" ensure a seamless execution, allowing for the swift and efficient functionality of each unit.

Our team's primary responsibility was to provide comprehensive structural design packages for each building, adhering to the rigorous standards outlined by ASCE (American Society of Civil Engineers) and AISC (American Institute of Steel Construction) codes of practice.

The project presented a unique challenge as we had to develop an efficient structural design capable of withstanding various load effects, including seismic activity, wind forces, temperature fluctuations, as well as dead and live loads.

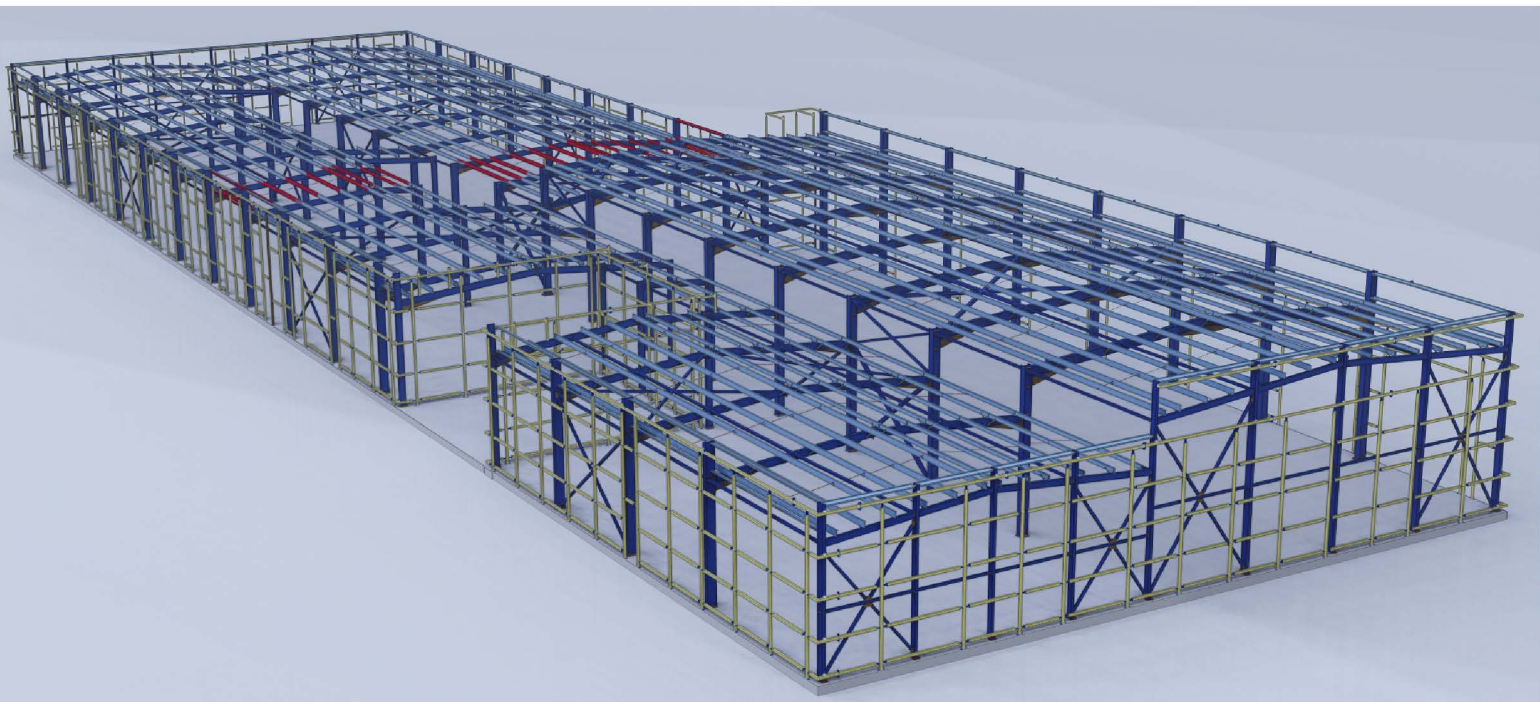
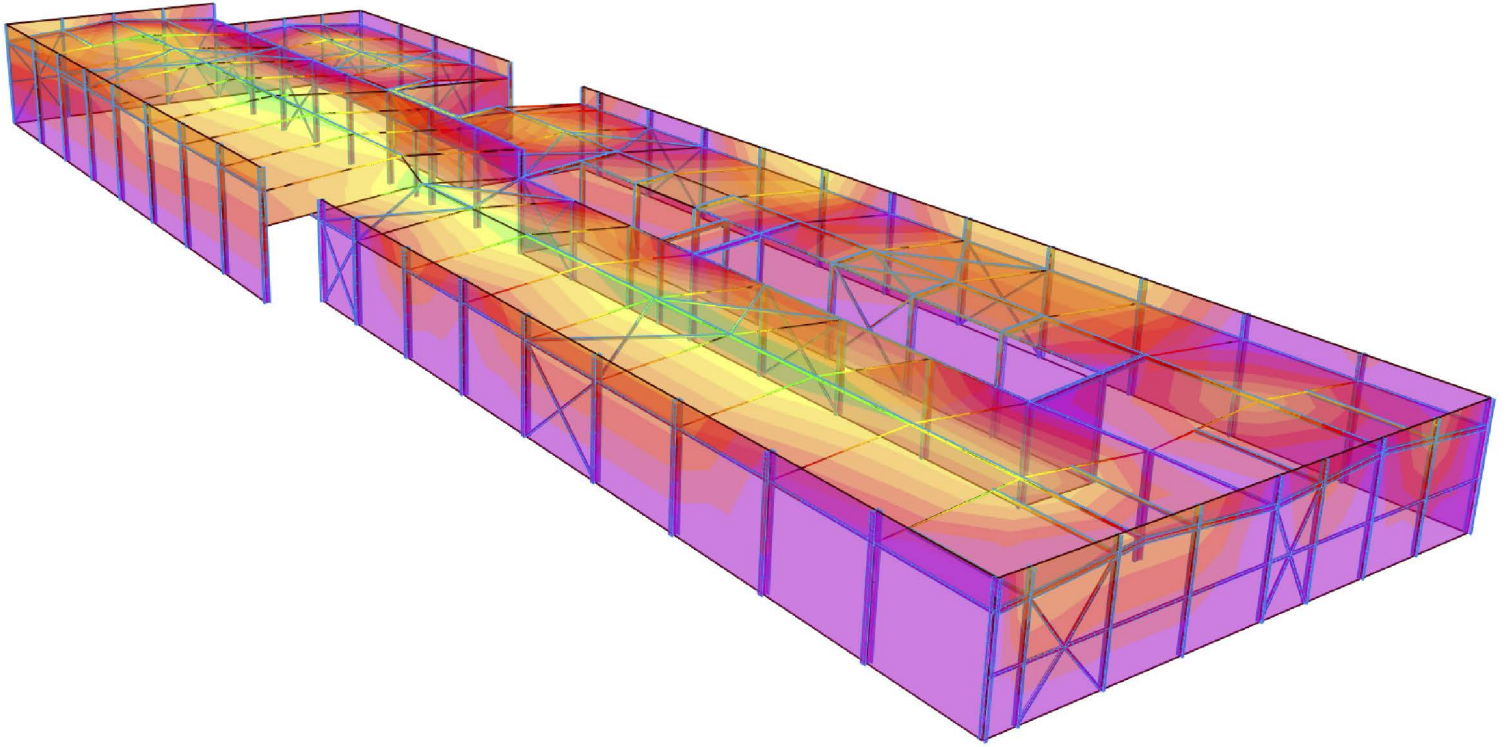
Moreover, three regulatory authorities meticulously reviewed and revised our work, adding a layer of responsibility to ensure compliance and safety.

We take great pride in the successful completion of the project, and we invite you to visit these remarkable buildings and experience their exceptional services firsthand.



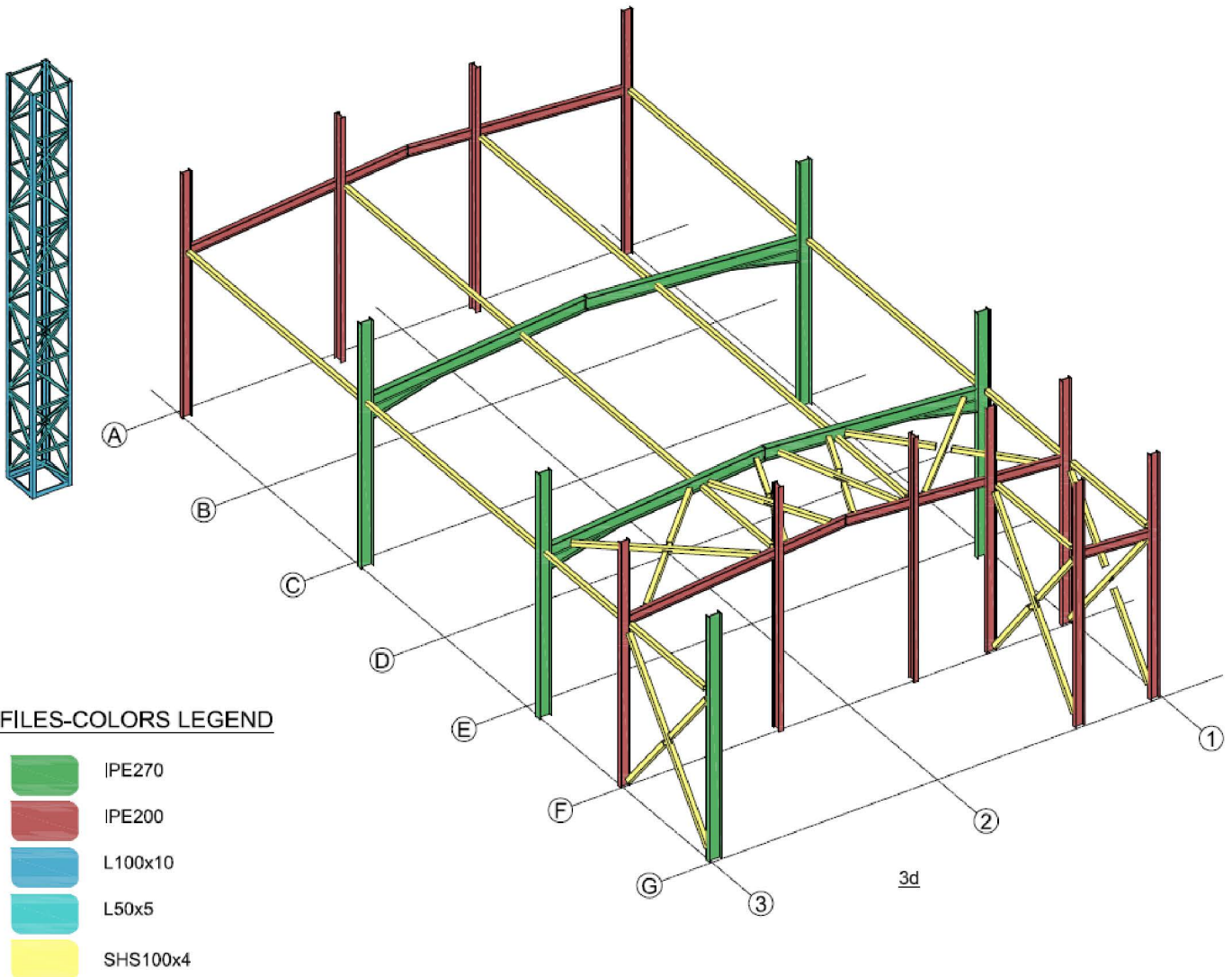
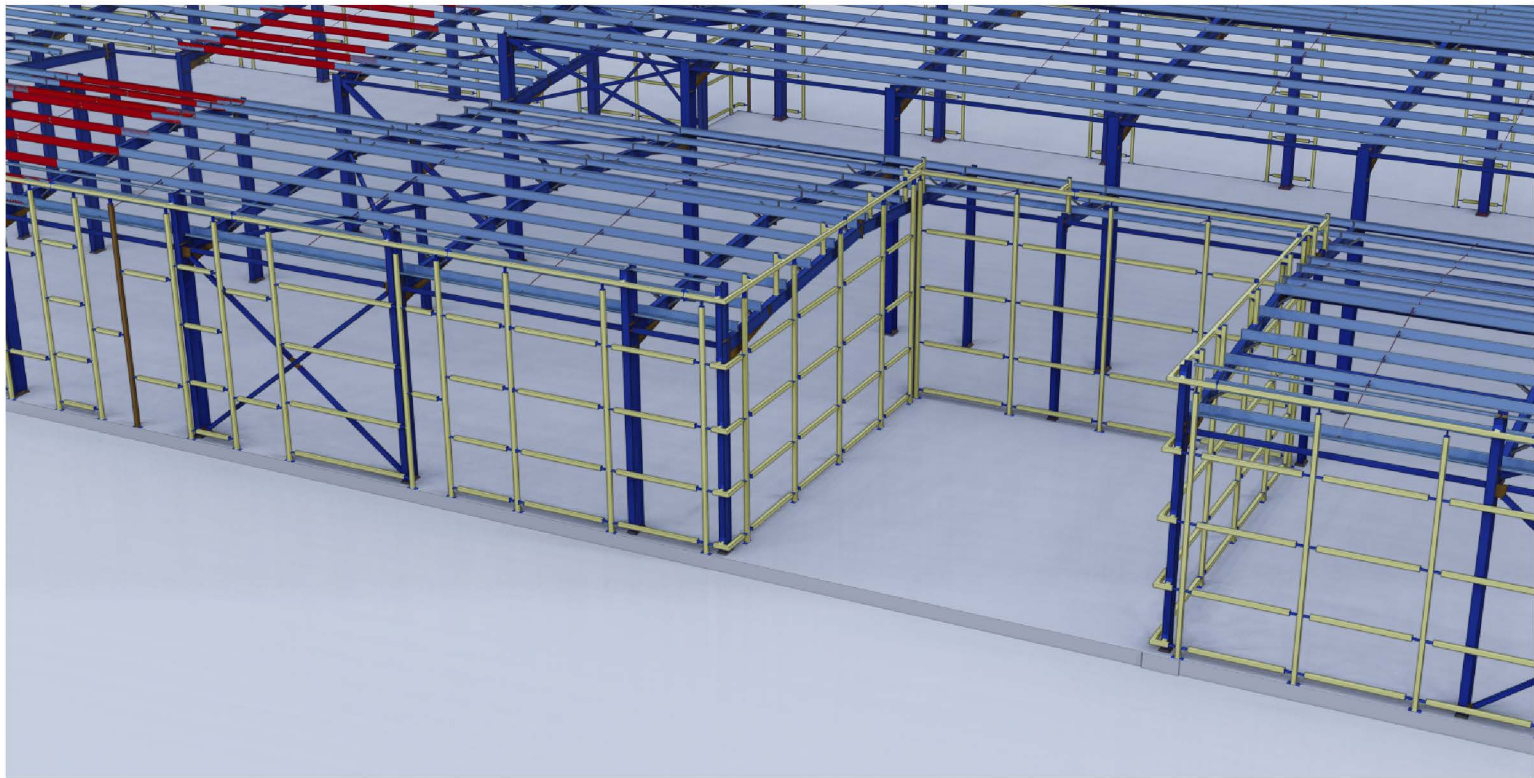
Recent Projects

- NEOM Base Economy Assets:



Recent Projects


- NEOM Base Economy Assets:



Recent Projects

- Masar Makkah Pop-Ups:

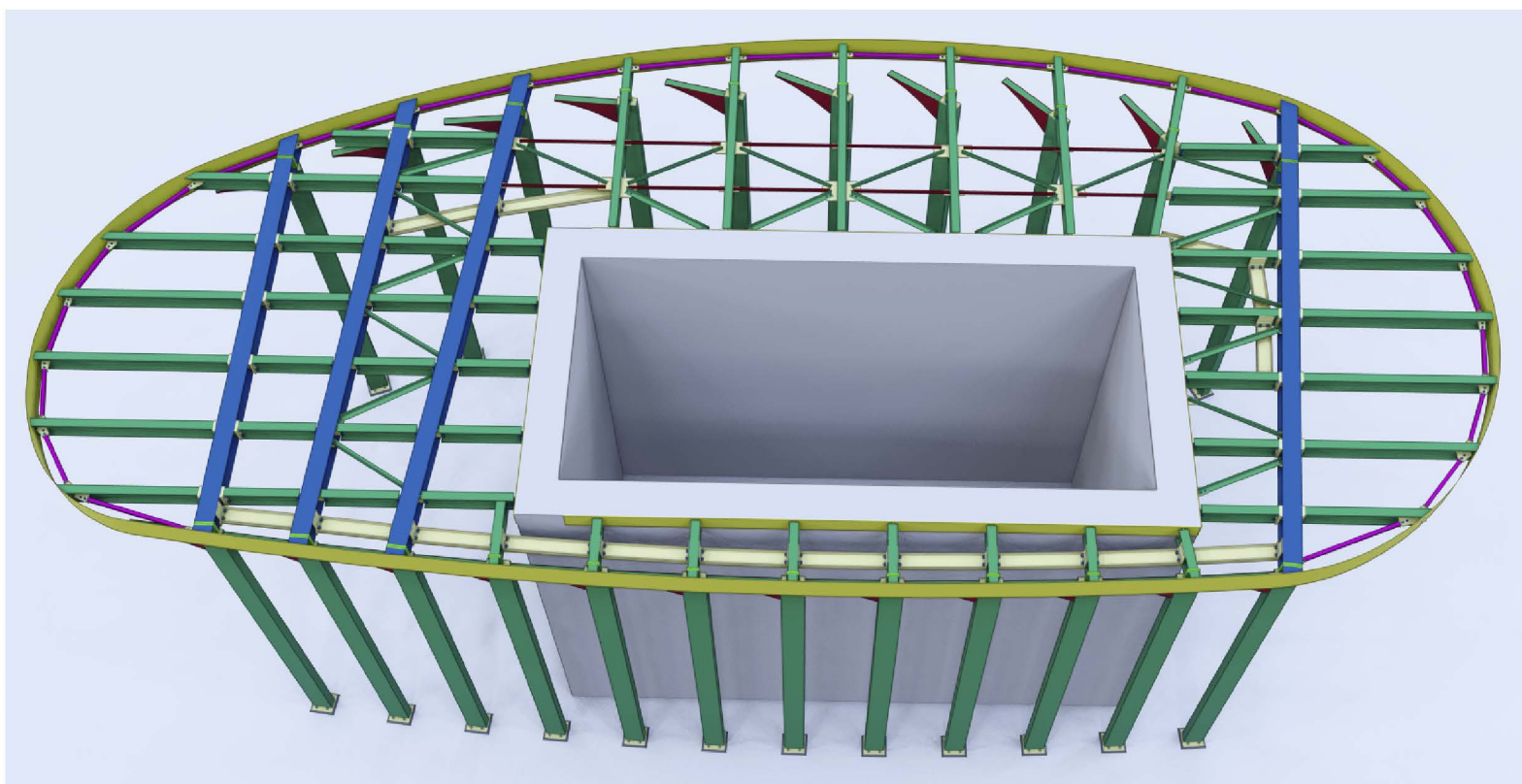


| Location : KSA 

As a fabricator's designer, we are honored to offer our professional services to "AFCO" for the ambitious construction project involving over three hundred pop-up structures. Our collaboration with "AFCO" guarantees a seamless execution, ensuring the timely and efficient functionality of each unit.


Our team's primary focus was to deliver comprehensive structural design packages for every building, meticulously adhering to the stringent standards set forth by the ASCE (American Society of Civil Engineers) and AISC (American Institute of Steel Construction) codes of practice. This encompassed developing detailed fabrication and erection packages, leaving no room for compromise in terms of precision and quality.

We take immense pride in our role as the fabricator's designer, knowing that our expertise and dedication have contributed to the successful realization of this project.



Recent Projects

- Boulevard Italy Buildings:

| Location : KSA 

Through a strategic collaboration with esteemed partners "GREEN WORLD & PROLIN," our highly skilled team has successfully delivered a collection of six iconic buildings, meticulously designed in the exquisite Italian style, to our valued client, "SELA." This achievement highlights our commitment to excellence and our ability to translate vision into reality through the harmonious integration of architectural prowess and meticulous craftsmanship.


Our scope of work encompassed various crucial aspects, including comprehensive structural design, active participation in coordination meetings, as well as the meticulous development of fabrication and erection packages.



Recent Projects

- As Safiyyah Museum & Park:

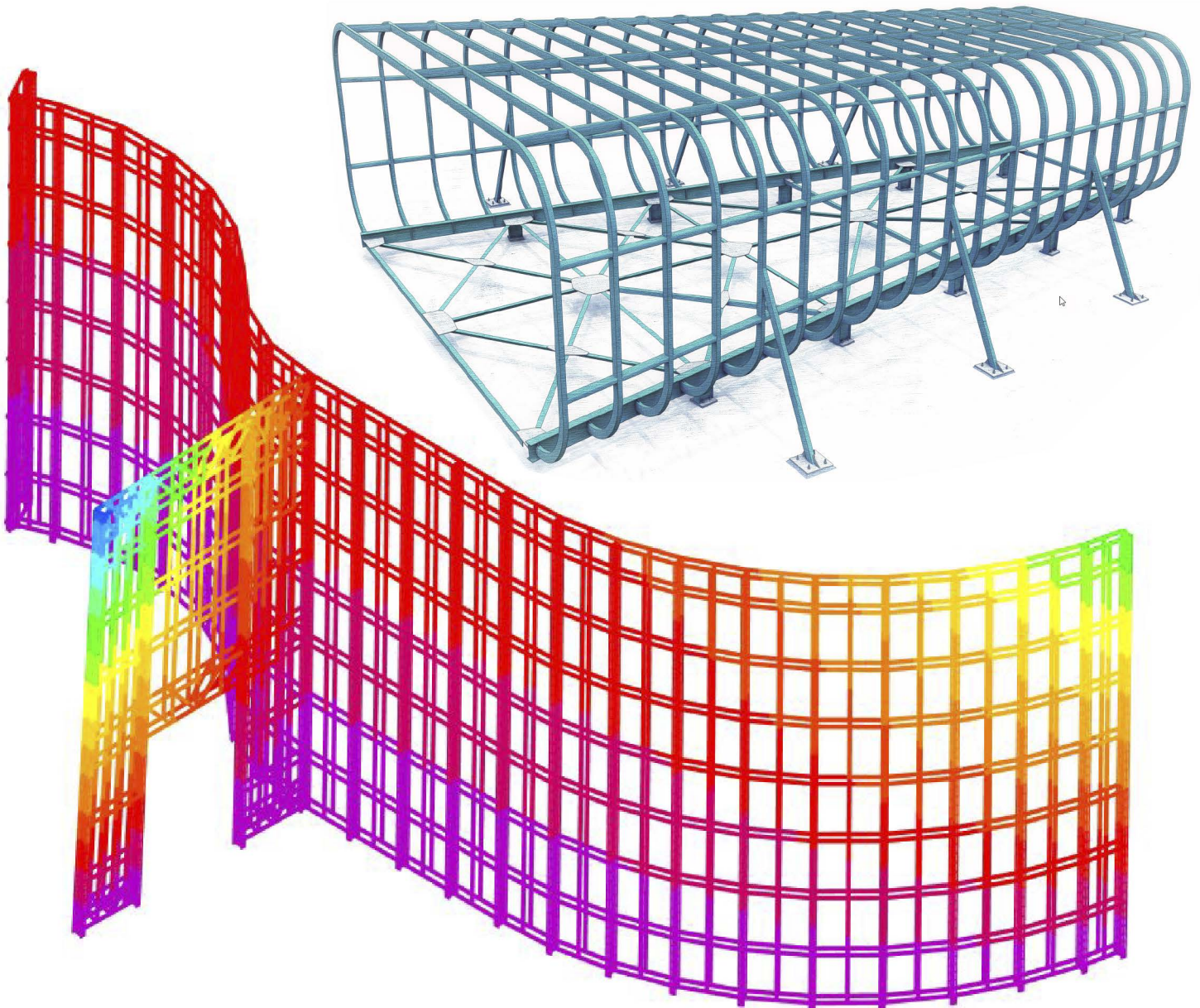


| Location : KSA 

As the designated authority for steel structure design, we are immensely proud to have played a significant role in the prestigious Safiyyah mega project, commissioned by SAMAYA HOLDING.

This project represents a remarkable undertaking, and our team is honored to have contributed our expertise and knowledge to its realization.

Our involvement in Safiyyah underscores our commitment to delivering exceptional results and our dedication to partnering with esteemed clients like SAMAYA HOLDING on visionary endeavors of this magnitude.



Recent Projects

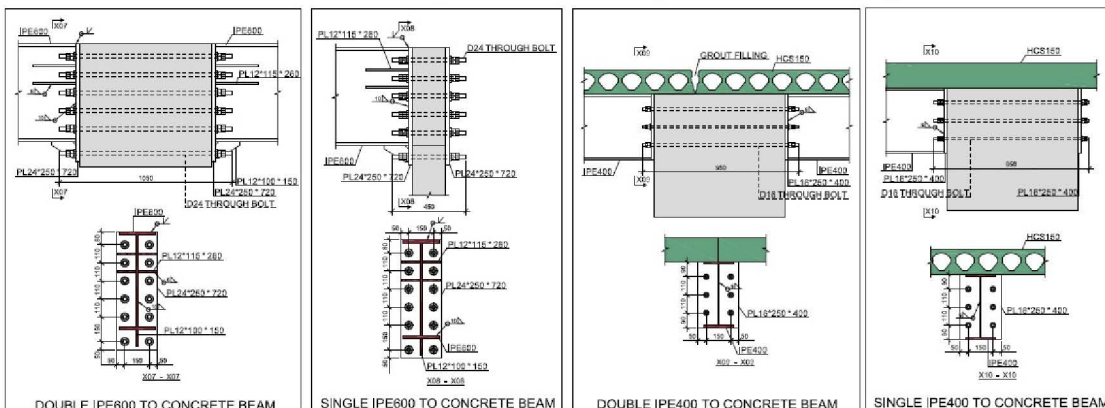
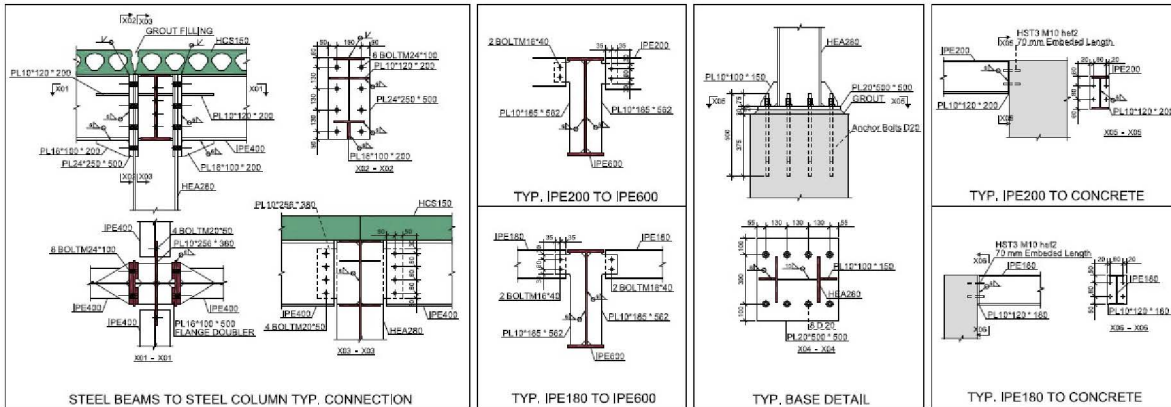
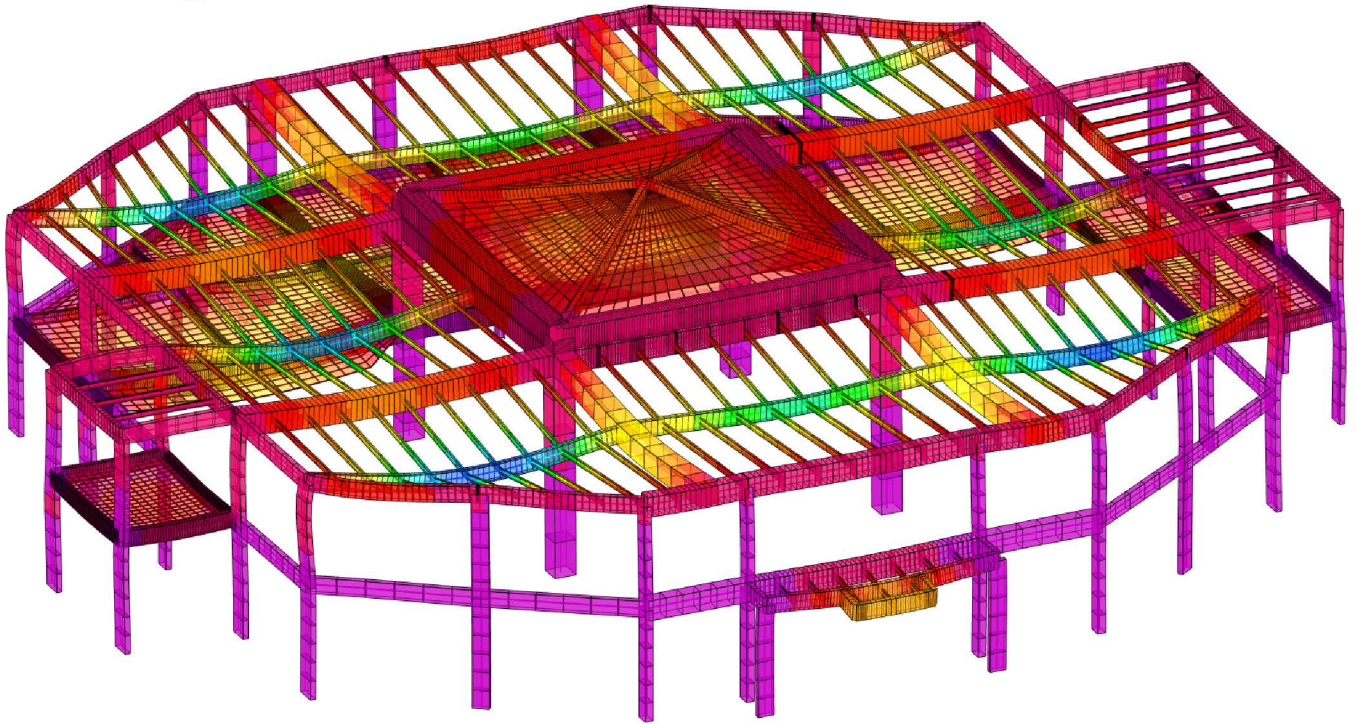
- Masjid Al Shaikh Abdul Latif:



| Location : KSA

The structure consists of ground floor + mezzanine (in the back part of Almasjid) + roof + top roof.

Our scope was to develop a structural design for huge span slabs & check existing concrete elements.



Recent Projects

- Freej Swaileh Restaurant:

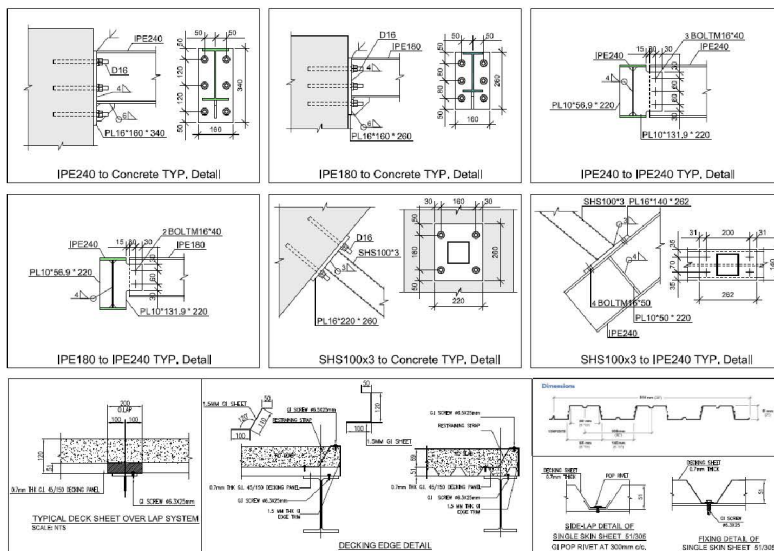
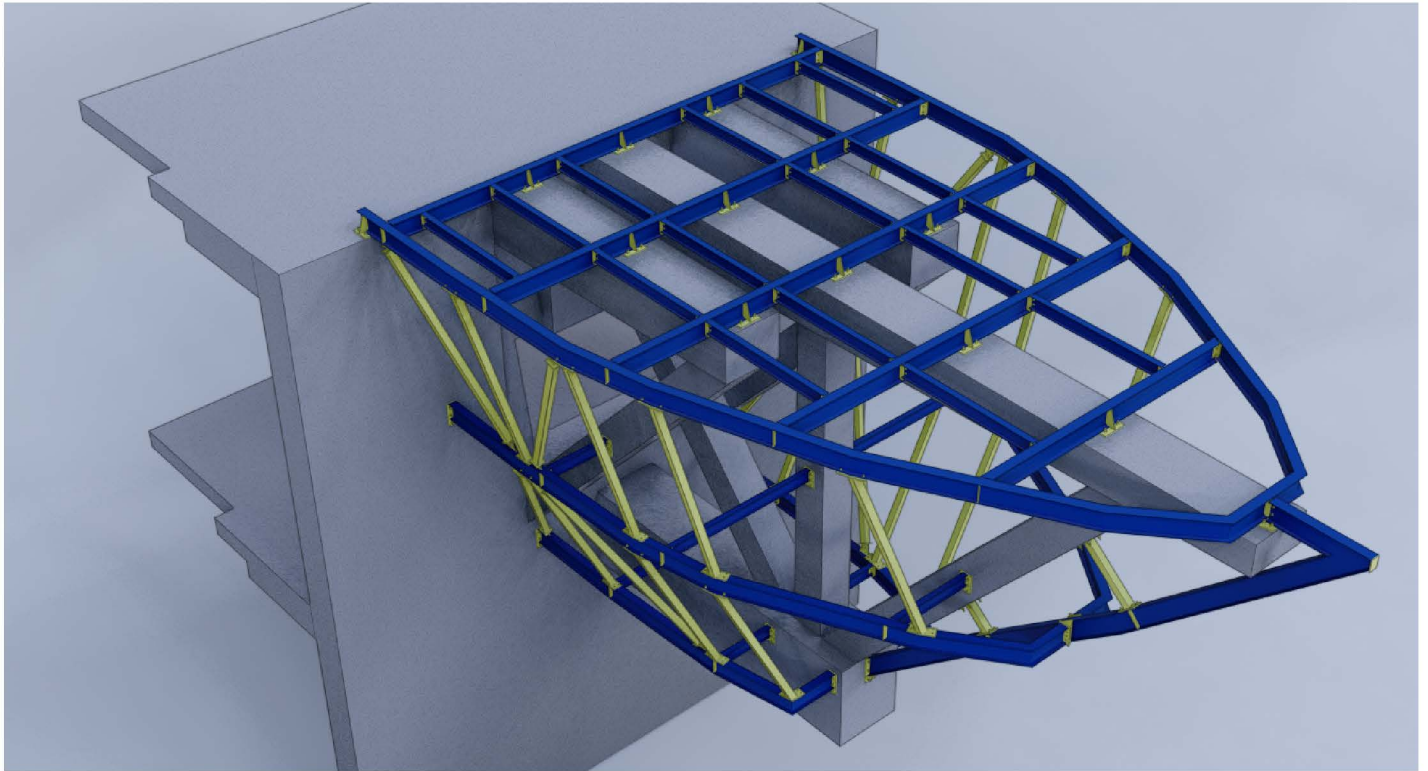


| Location : KSA 

Our primary responsibility entails designing a specialized cantilever system in the form of a ship-shaped structure, exceeding a length of 10 meters. This demanding task requires our expertise in developing a robust and tailored solution to meet the project's unique requirements.


We approach this responsibility with utmost professionalism, ensuring meticulous attention to detail and adherence to industry standards.

Our dedicated team is committed to delivering a system that fulfills the project's objectives with precision and excellence.

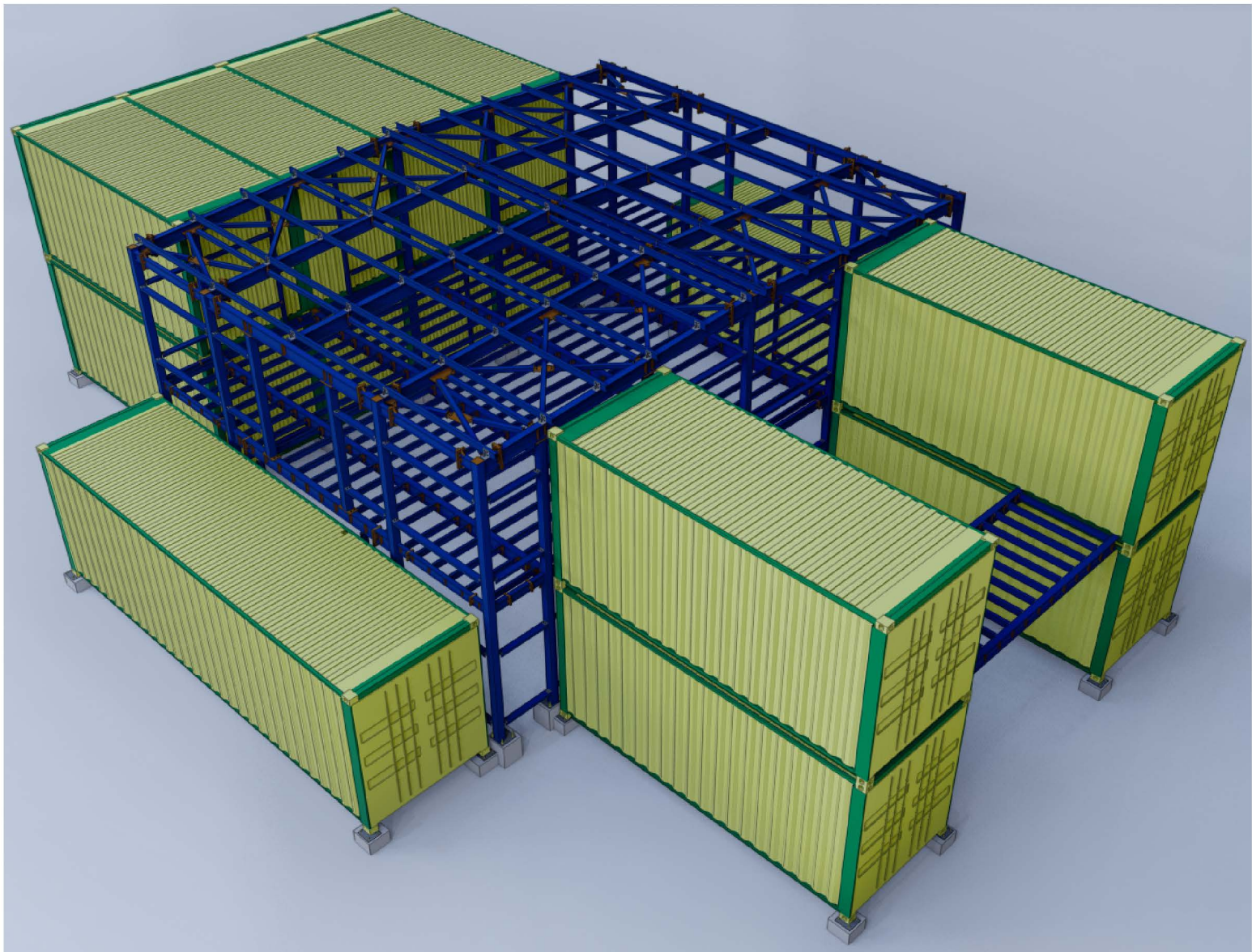


Recent Projects

- Container Buildings: [in](#) [f](#) [v](#)

| Location : EGY 

Our team served as the technical office for the fabrication of four food and beverage units utilizing recycled containers and steel frames system.



Typical Halls

- Bakery Factory:



Participation Type : Detailing

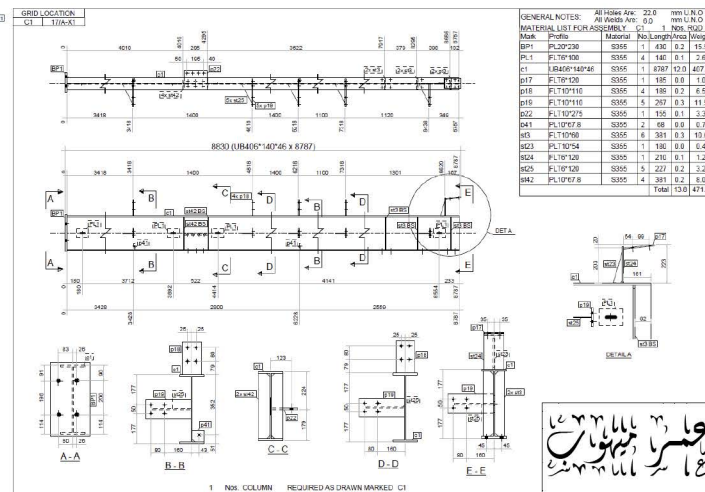
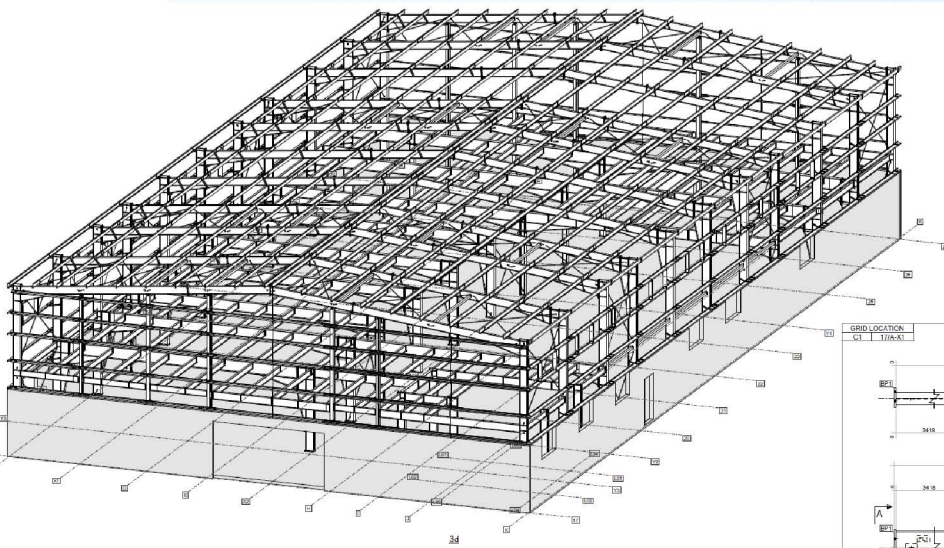
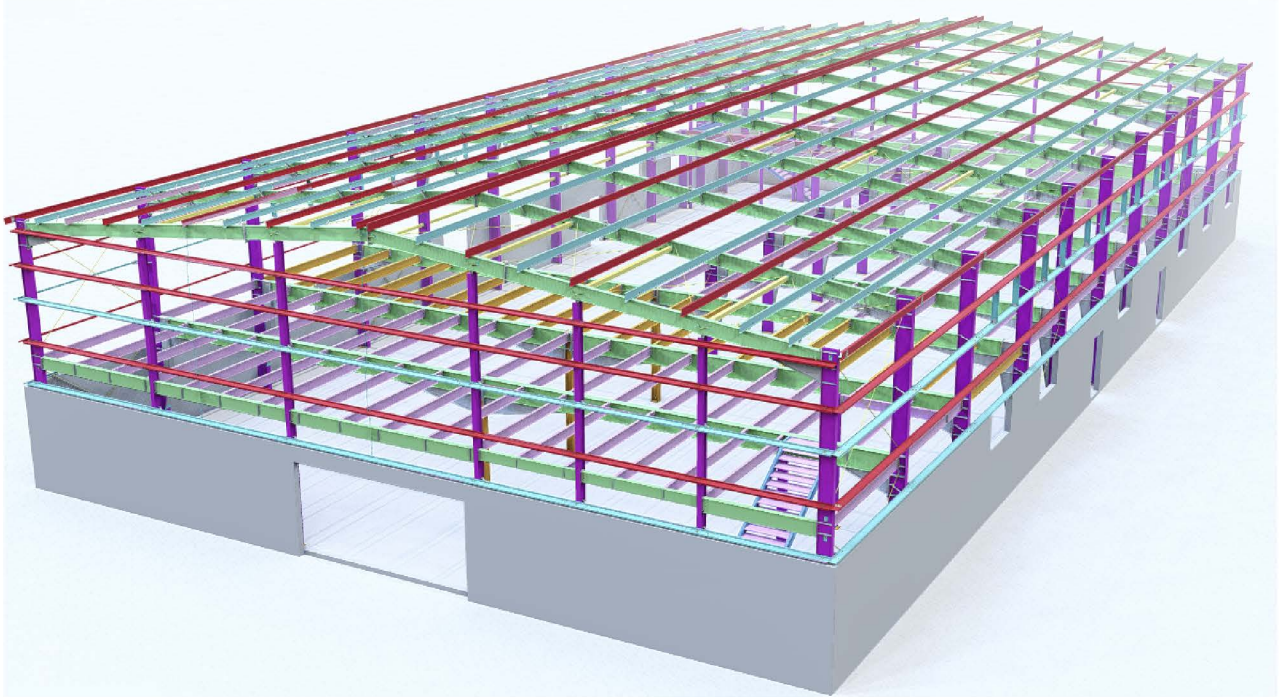
Area : 1435 m² (51.65 x 27.80)

Weight : 103 tons

System : Typical Frames + Mezzanin

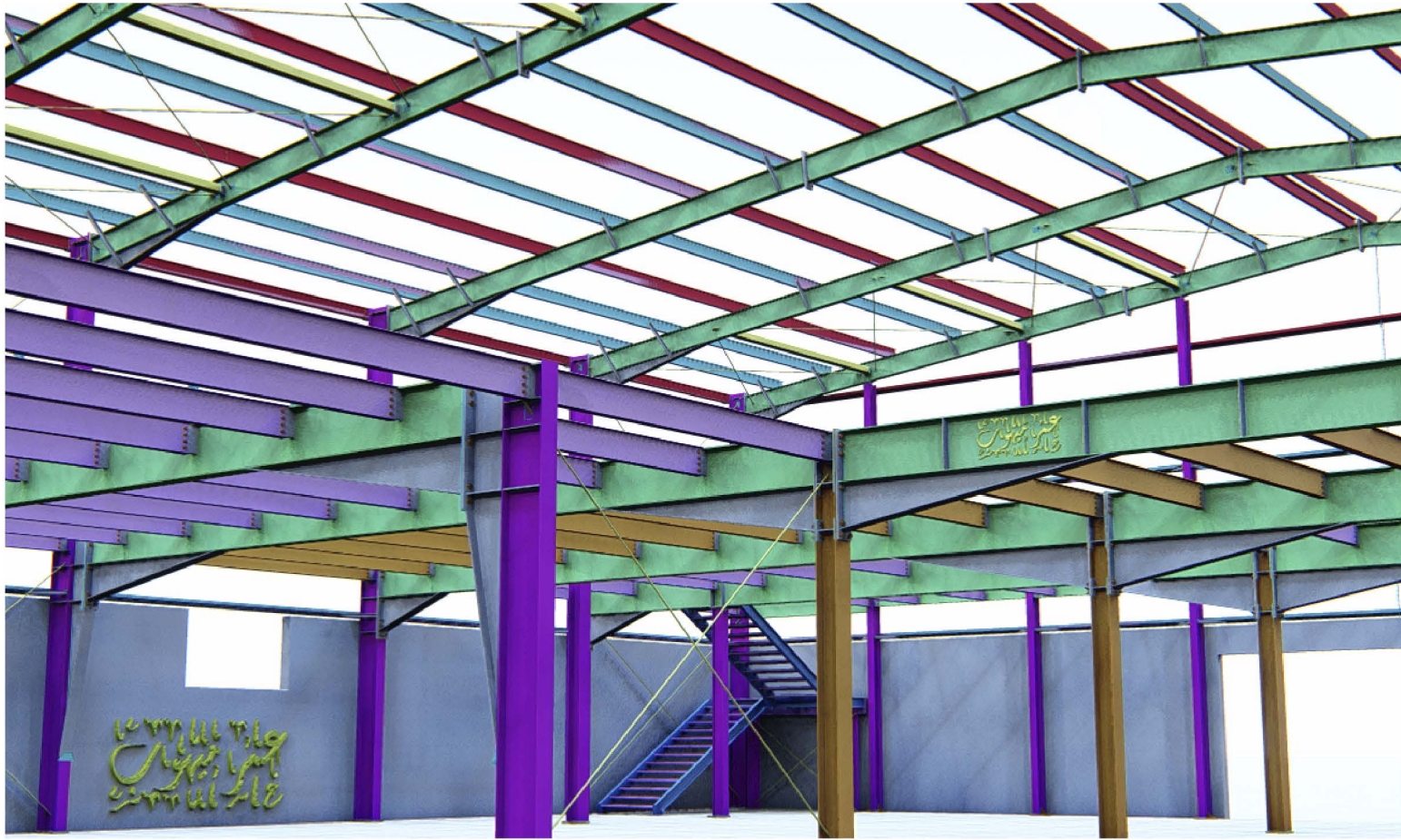
Usage : Industrial

Location : QAT



Typical Halls

- Bakery Factory:



Typical Halls

- Material Store:   


Participation Type : Detailing

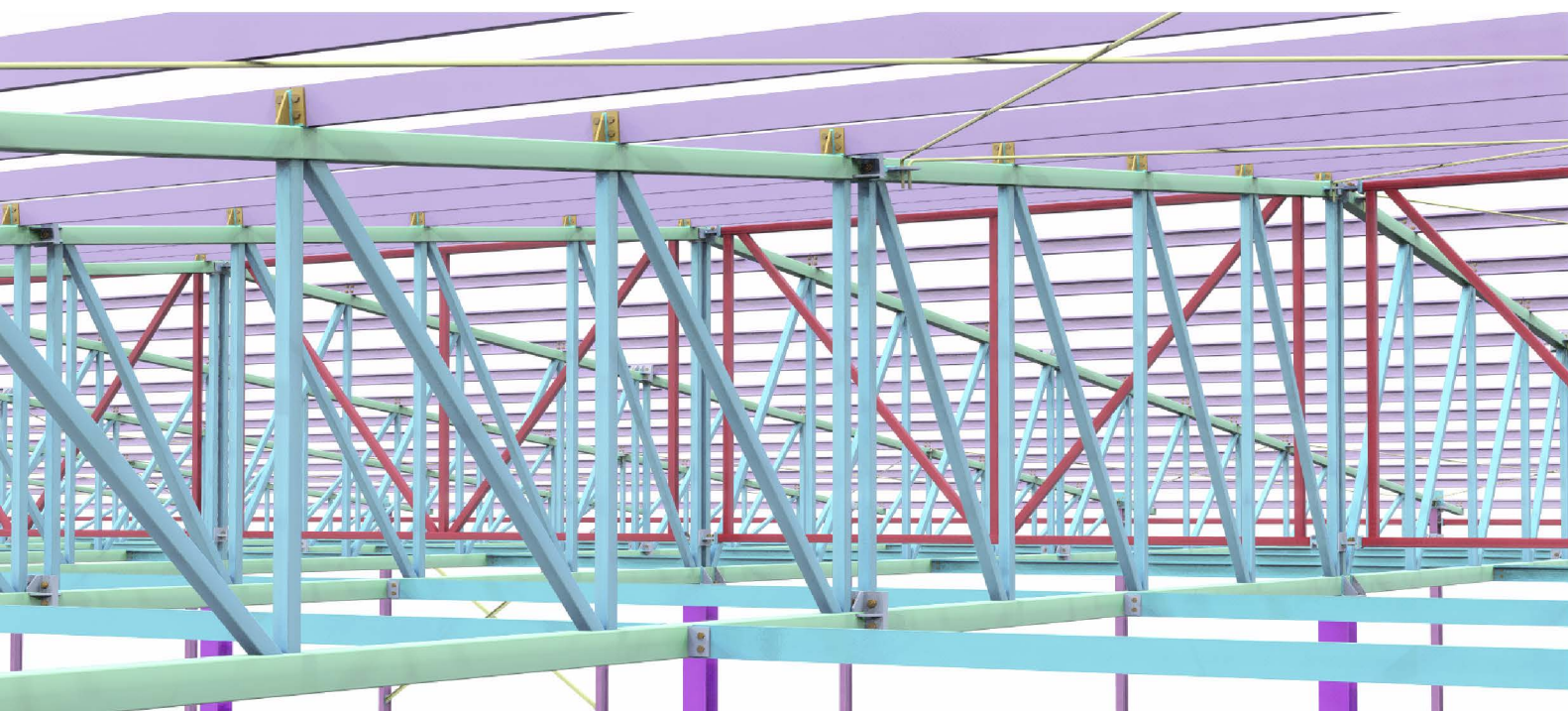
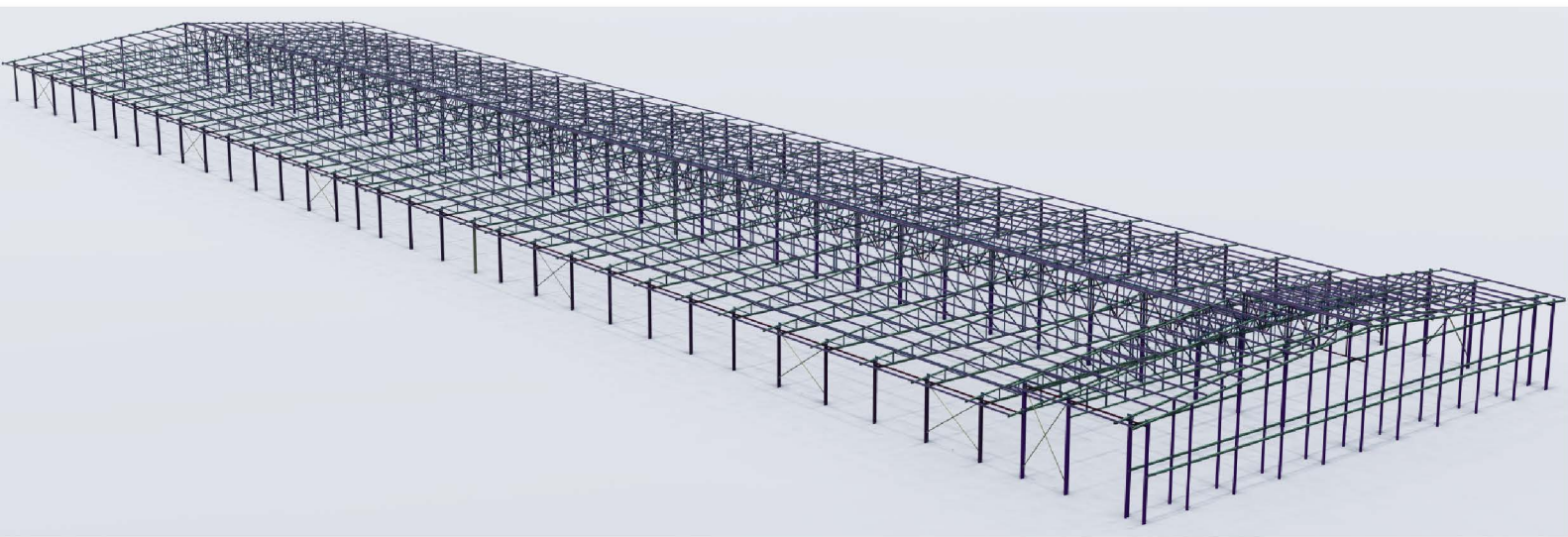
Area : 4280 m² (132.10 x 32.40)

Weight : 69 tons

System : Typical Truss

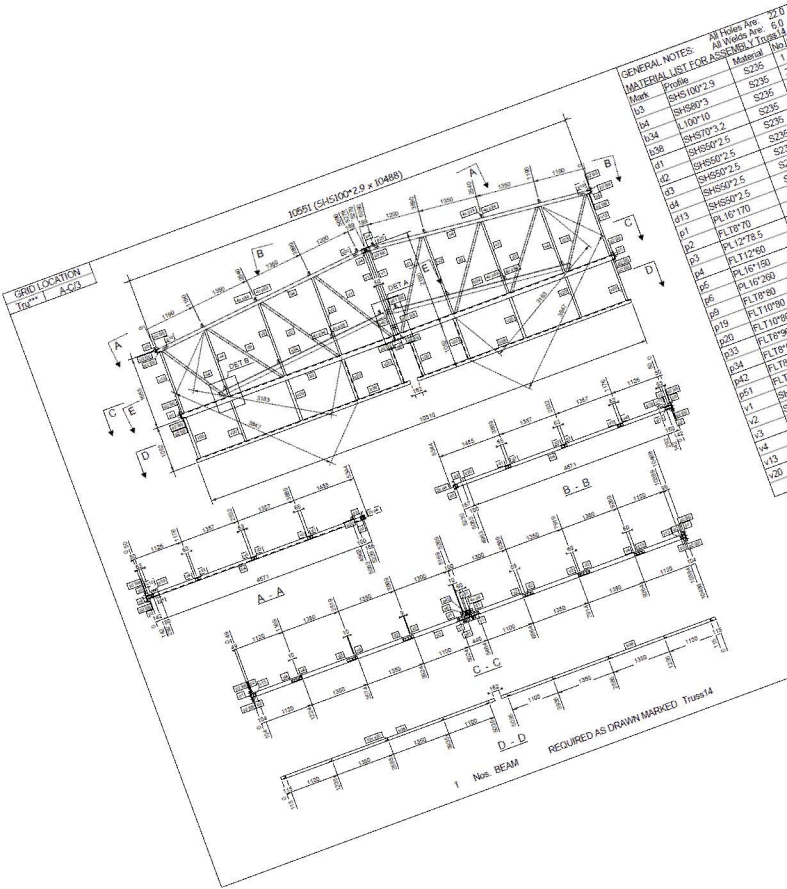
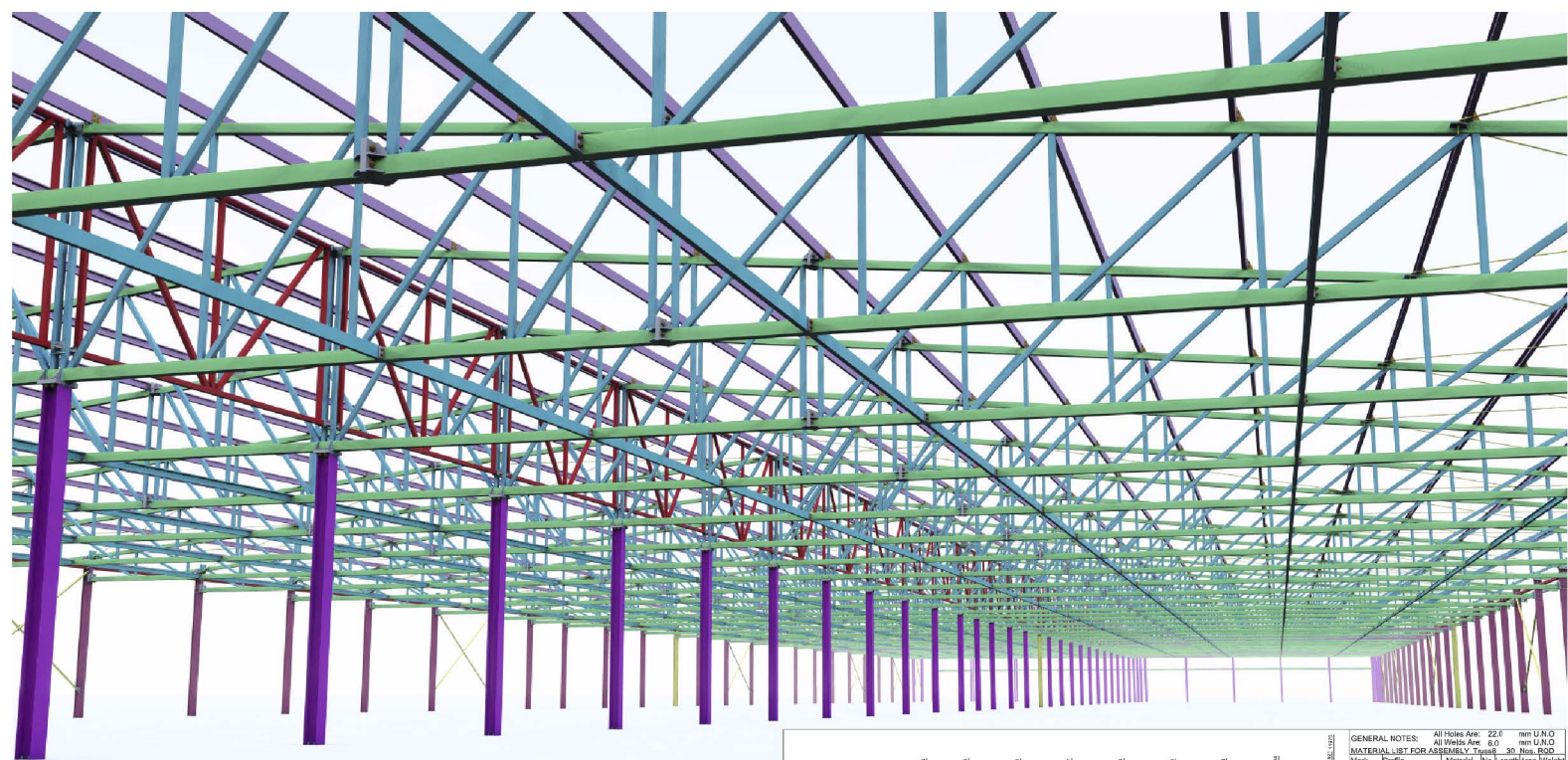
Usage : Commercial

Location : TUR 



Typical Halls

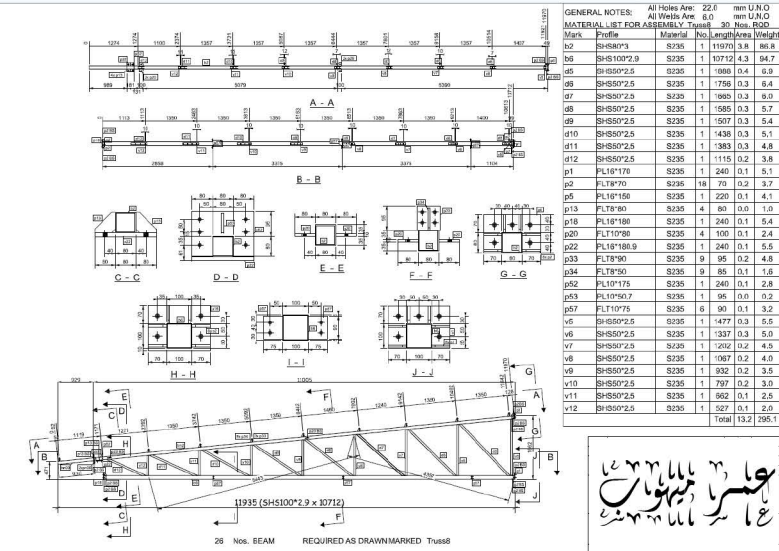
- Material Store:



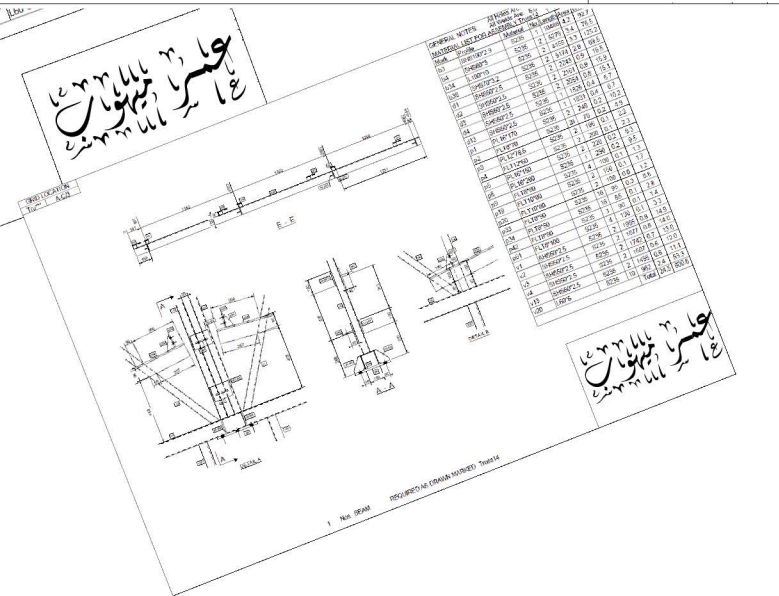
GENERAL NOTES: All Holes Are 22.0 mm U.N.O. All Wires Are 6.0 mm U.N.O.

MATERIAL LIST FOR ASSEMBLY Truss14

Mark	Profile	Material	No.	Length	Area	Weight
l3	SHS100*2.9	S235	1	10712	4.3	84.7
l4	SHS80*3	S235	1	11070	5.8	166.4
l34	SHS70*3.2	S235	1	1756	0.3	6.4
l36	SHS50*2.5	S235	1	1865	0.3	6.0
d1	SHS50*2.5	S235	1	1985	0.3	5.7
d3	SHS50*2.5	S235	1	1507	0.3	6.4
d4	SHS50*2.5	S235	1	1438	0.3	5.1
d11	SHS50*2.5	S235	1	1383	0.3	4.8
d12	SHS50*2.5	S235	1	1115	0.2	3.8
d7	SHS50*2.5	S235	1	1065	0.3	6.0
u8	SHS50*2.5	S235	1	1985	0.3	5.7
d9	SHS50*2.5	S235	1	1507	0.3	6.4
d10	SHS50*2.5	S235	1	1438	0.3	5.1
d11	SHS50*2.5	S235	1	1383	0.3	4.8
d12	SHS50*2.5	S235	1	1115	0.2	3.8
p1	PL16*176	S235	1	240	0.1	5.1
p2	FL18*70	S235	18	70	0.2	3.7
p3	PL16*156	S235	1	220	0.1	4.1
p13	FL18*90	S235	4	90	0.2	1.0
p18	PL16*186	S235	1	240	0.1	5.4
p20	FL10*88	S235	4	100	0.1	2.4
p22	PL16*188.9	S235	1	240	0.1	5.5
p33	FL18*90	S235	9	96	0.2	4.8
p34	FL18*90	S235	9	86	0.1	1.6
p32	PL10*175	S235	1	240	0.1	2.8
p33	PL10*160.7	S235	1	96	0.0	0.2
p37	FL10*75	S235	6	90	0.1	3.2
v5	SHS50*2.5	S235	1	1477	0.3	5.5
v6	SHS50*2.5	S235	1	1337	0.3	5.0
v7	SHS50*2.5	S235	1	1202	0.2	4.5
v8	SHS50*2.5	S235	1	1067	0.2	4.0
v9	SHS50*2.5	S235	1	932	0.2	3.5
v10	SHS50*2.5	S235	1	797	0.2	3.0
v11	SHS50*2.5	S235	1	662	0.1	2.5
v12	SHS50*2.5	S235	1	527	0.1	2.0
			Total		13.2	255.1



حسنا لله
عاشرنا لله



حسنا لله
عاشرنا لله

Typical Halls

- Seven Pillars:   

Participation Type : Structural Design

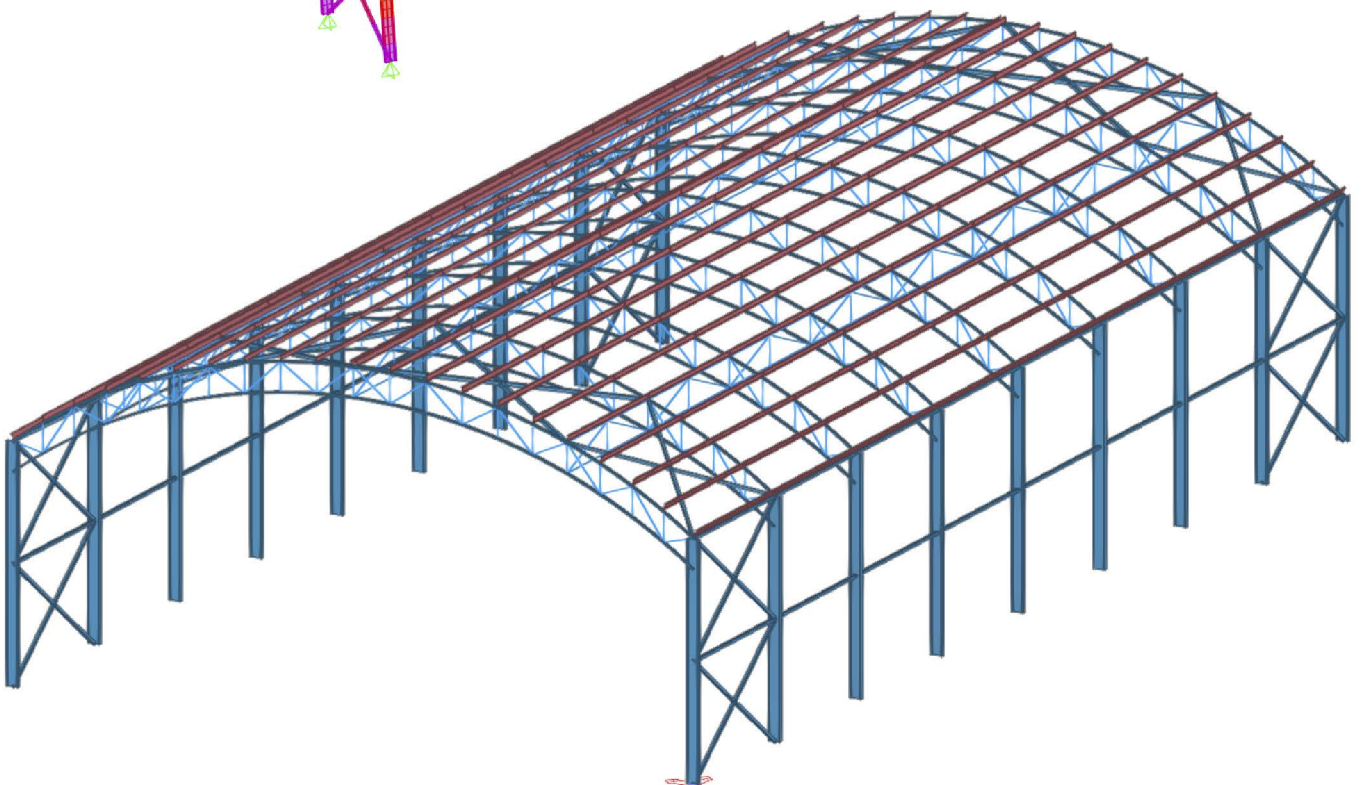
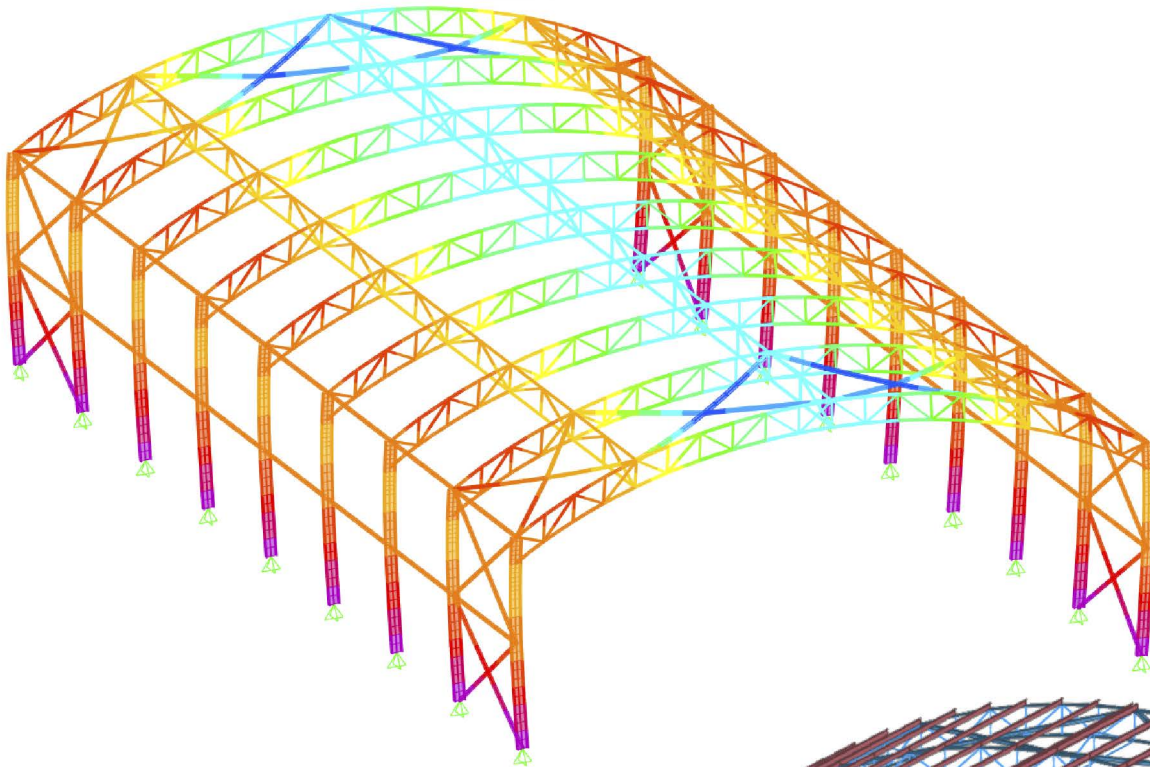
Area : 1055 m² (44.00 x 24.00)

Weight : 29.50 tons

System : Typical Arched Truss

Usage : Playground Shed


Location : EGY 

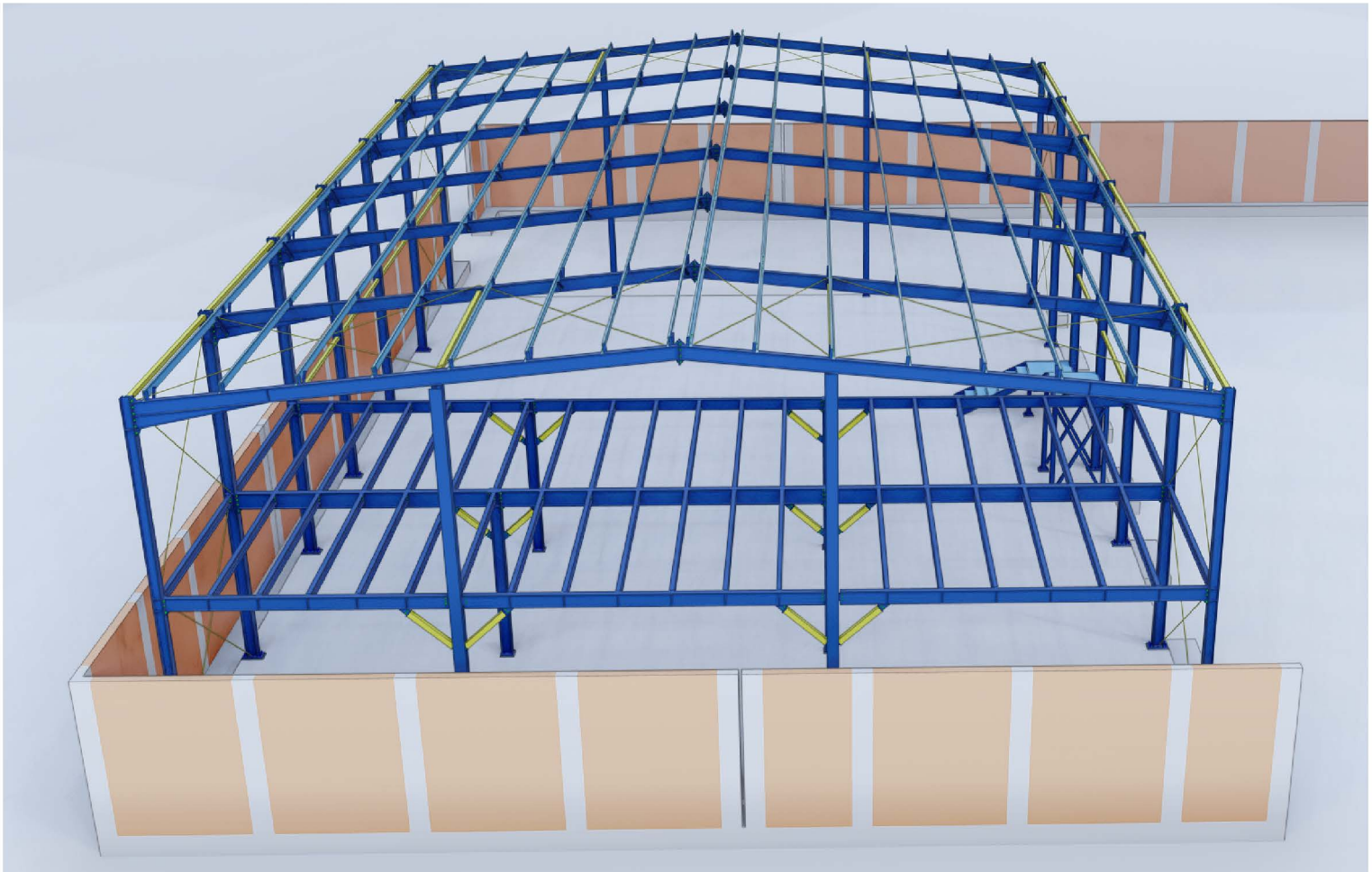
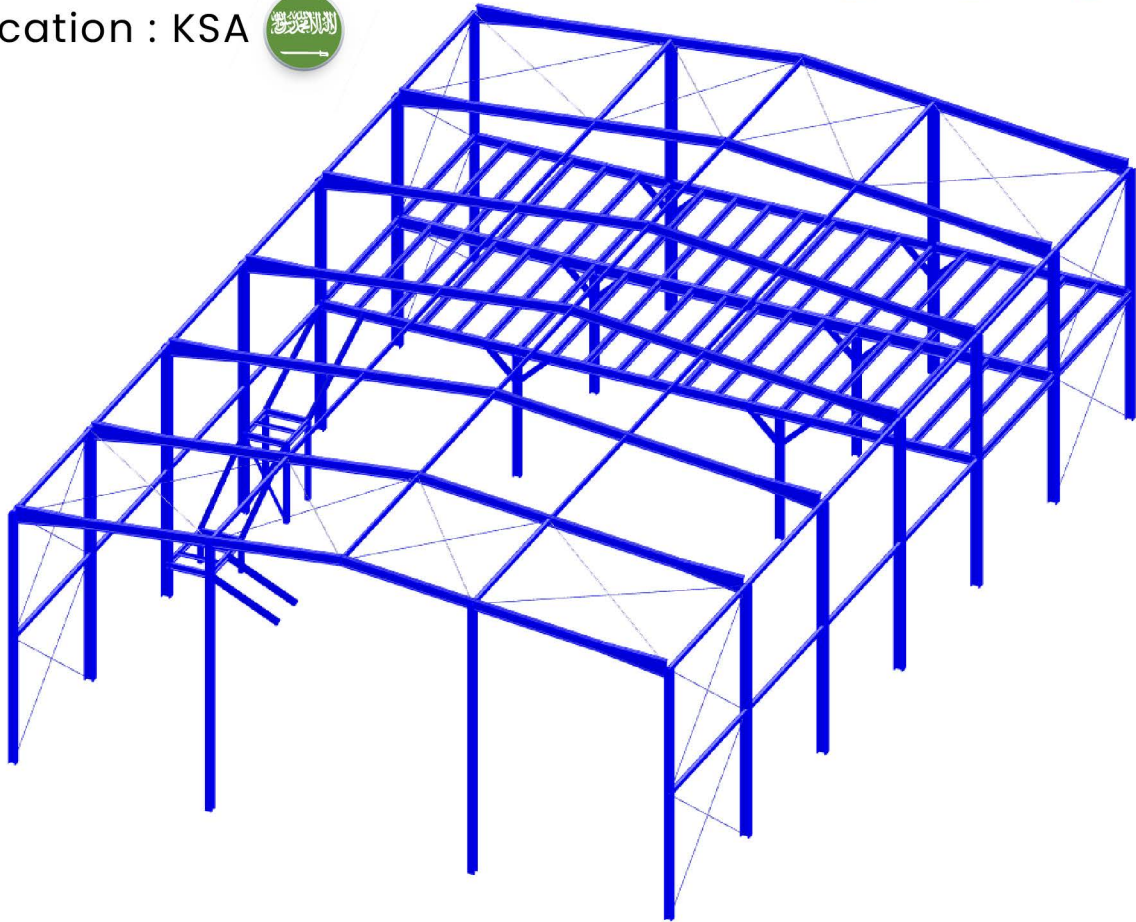


Typical Halls

- Al Diriyah Ground + Mezzanine:



| Location : KSA 



Typical Halls

- Cold Food Store:


Participation Type : Detailing

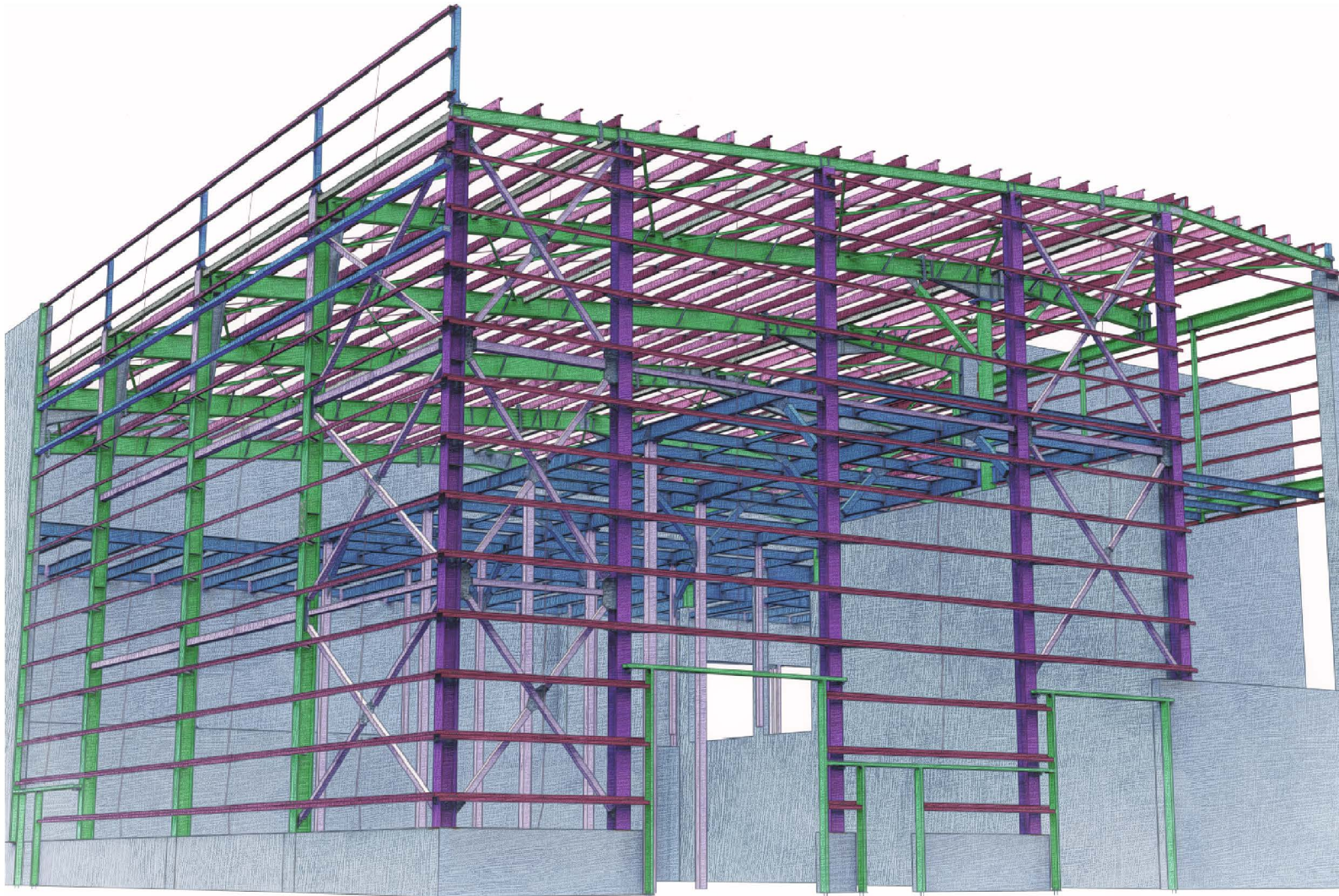
Area : 1090 m² (32.30 x 33.80)

Weight : 32 tons

System : Typical Frames

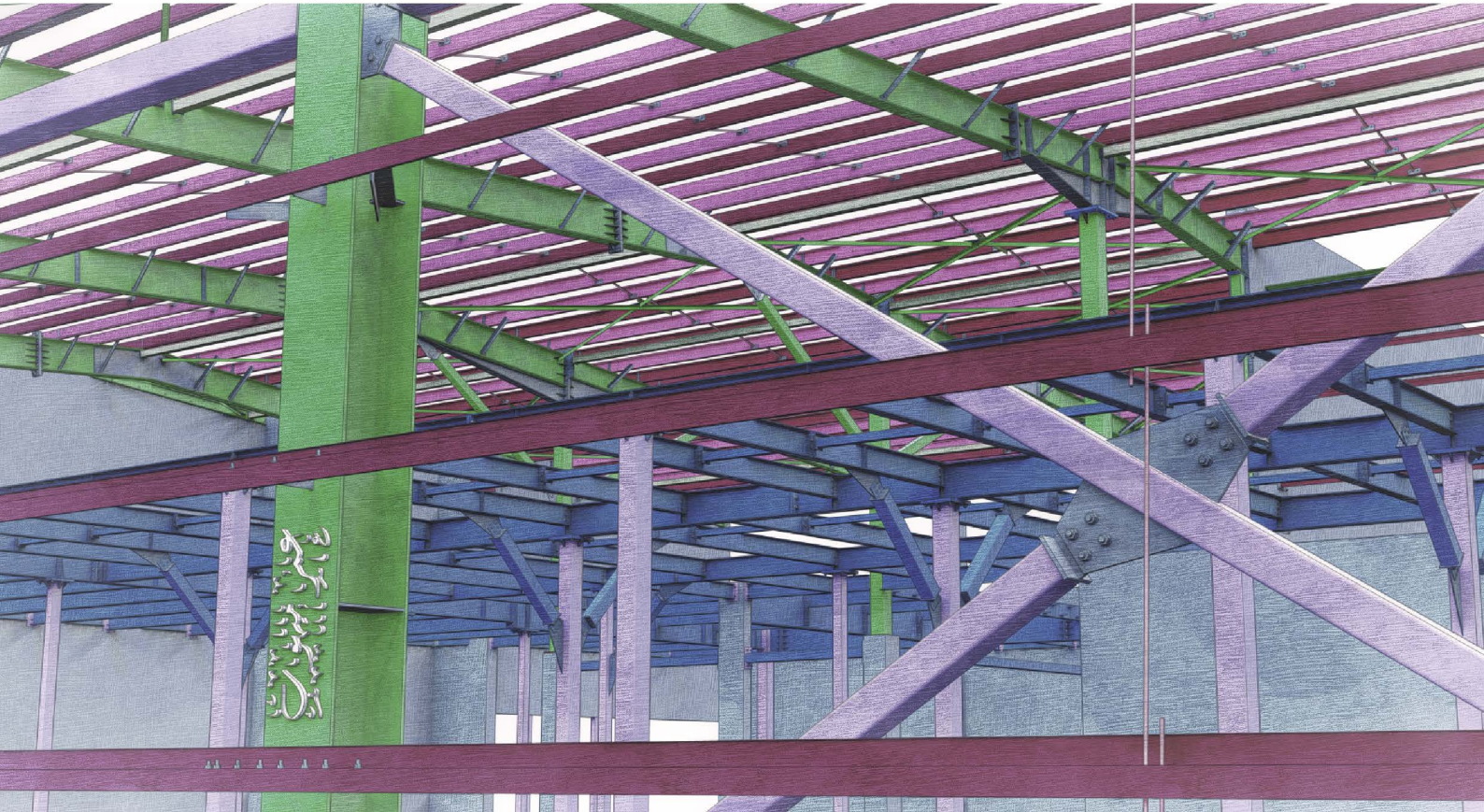
Usage : Commercial

Location : UAE 



Typical Halls

- Cold Food Store:



F&B Structures

- Mivida Boxpark Mall:

Participation Type : Structural Design

[Under Supervision of MEED Global]

Area : 610 m² (36.60 x 14.64)

Weight : 30 tons + 45 Container

System : Containers Building

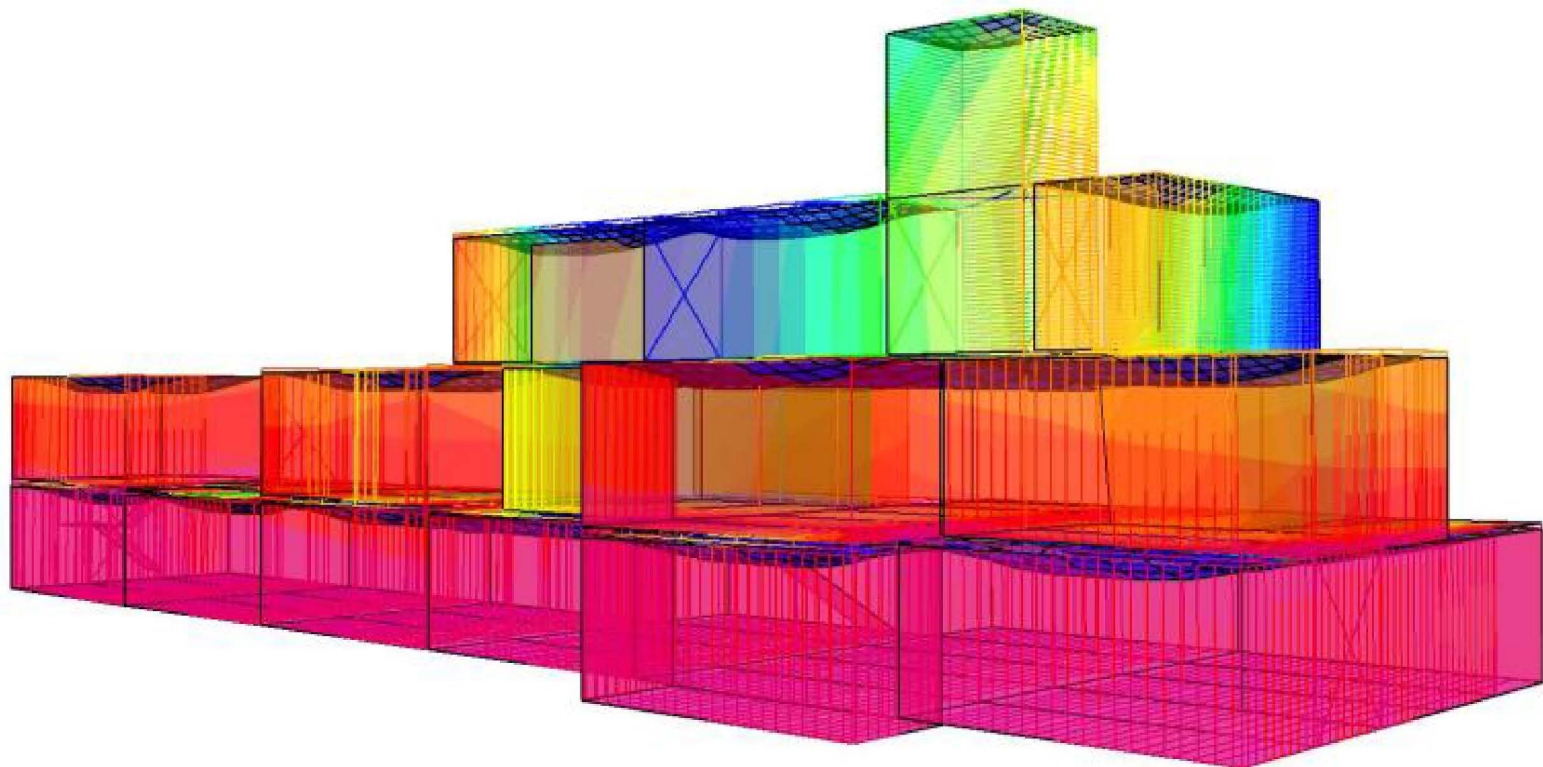
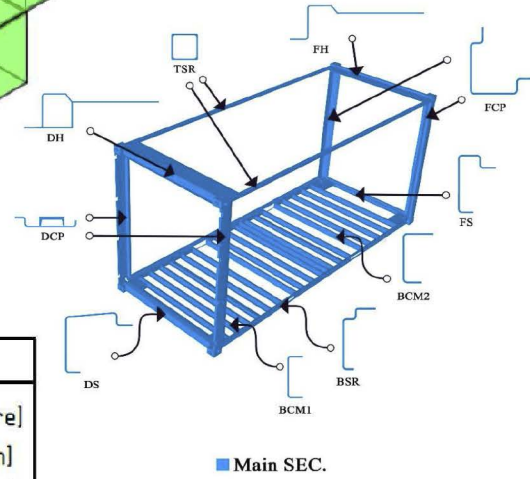
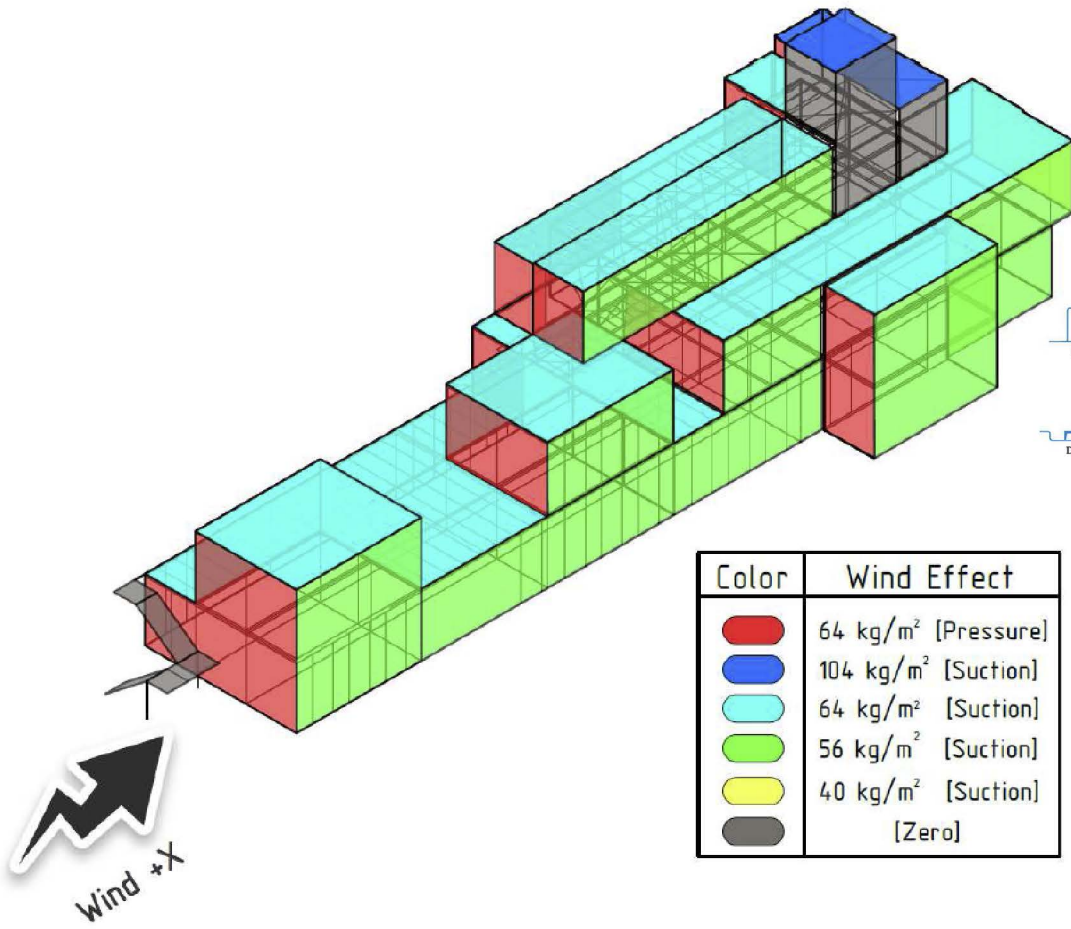
Usage : Commercial

Location : EGY 



F&B Structures

- Mivida Boxpark Mall:



F&B Structures

- The Street [CFC]:

Participation Type : Structural Design + Detailing

Area : 470 m2 (115.00 x 4.10)

Weight : 34 tons

System : Special Framing

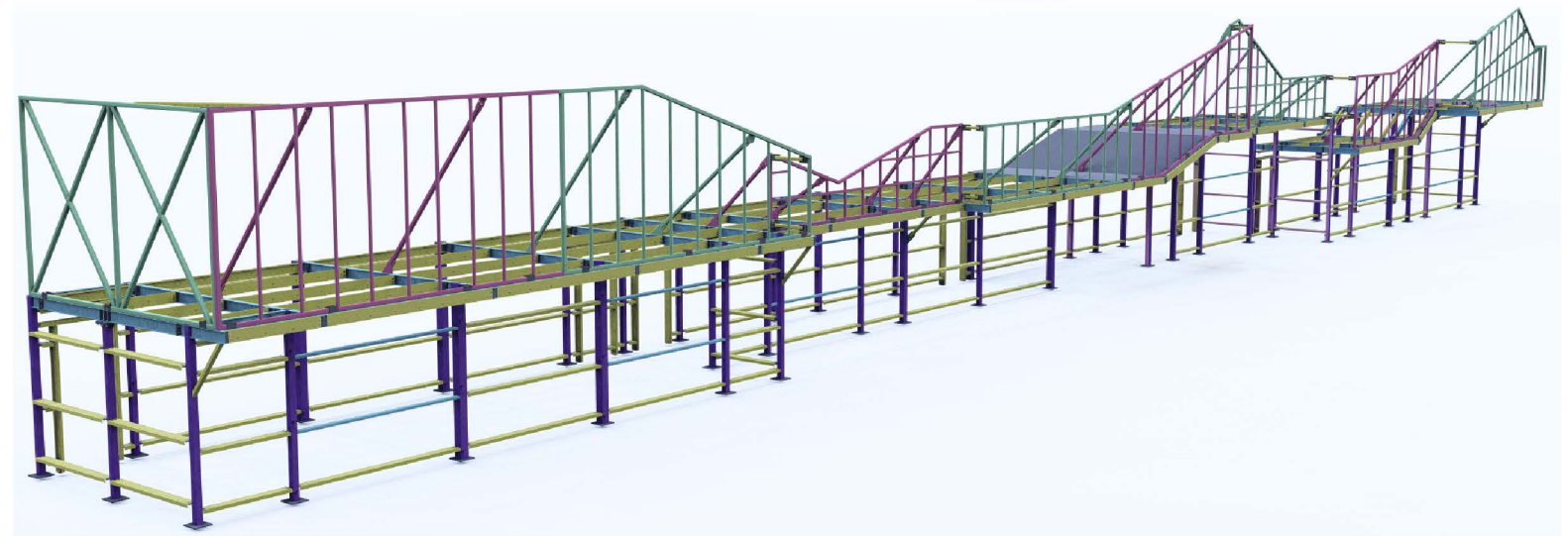
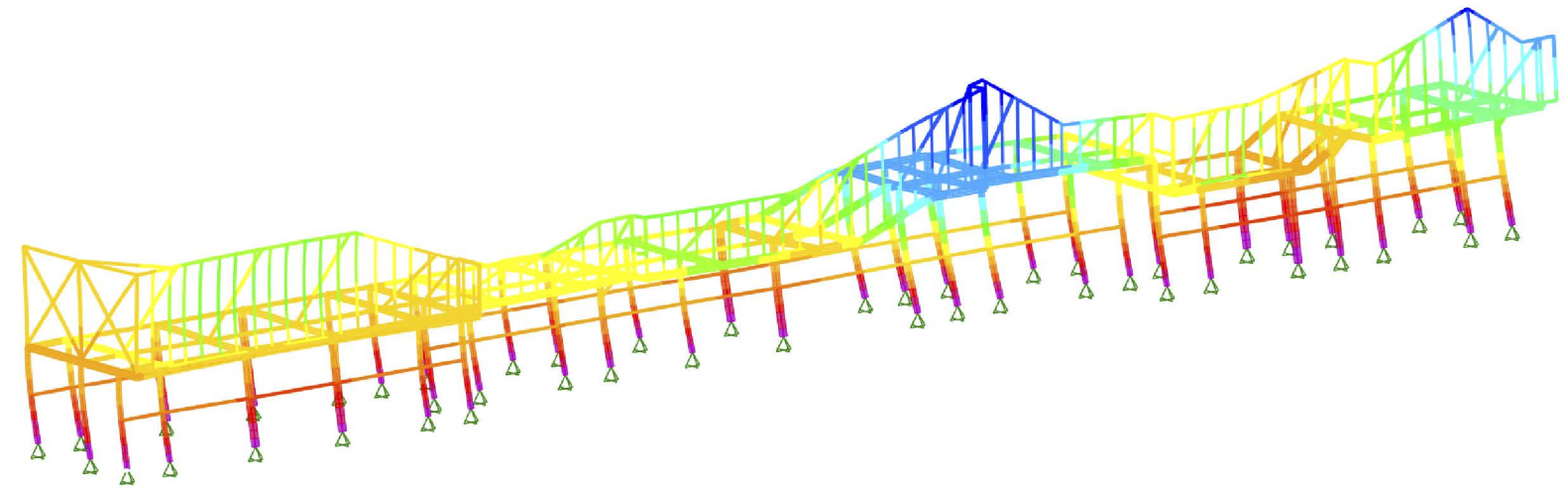
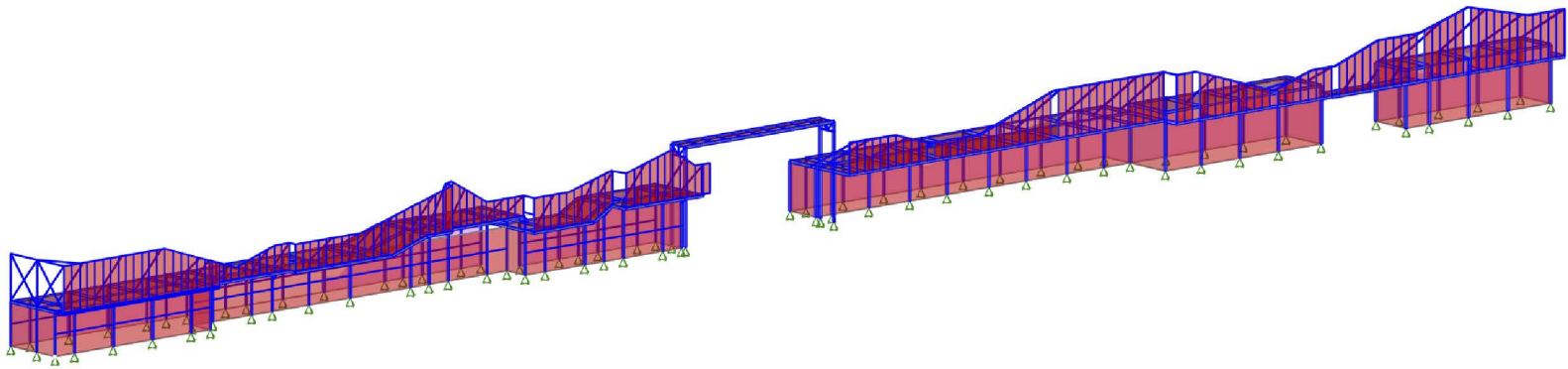
Usage : Commercial

Location : EGY 



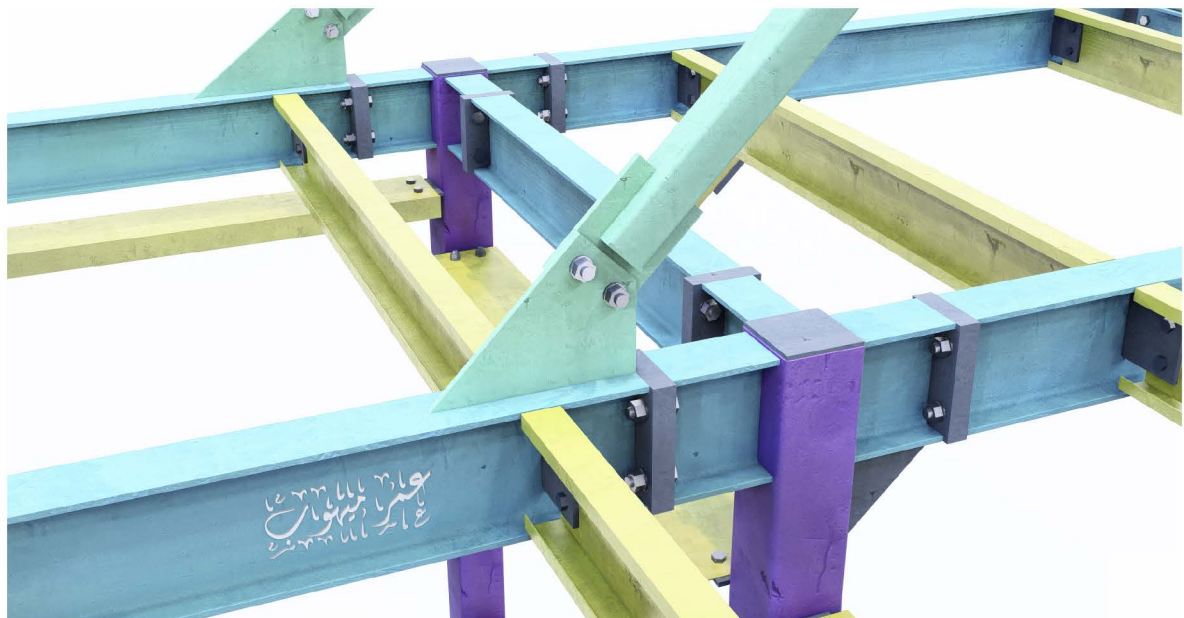
F&B Structures

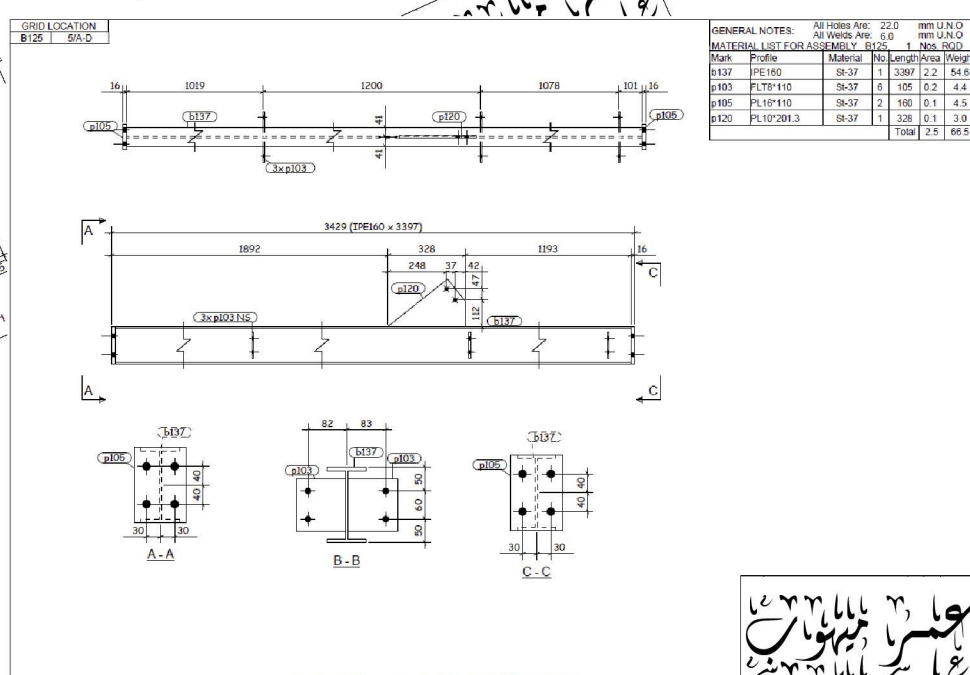
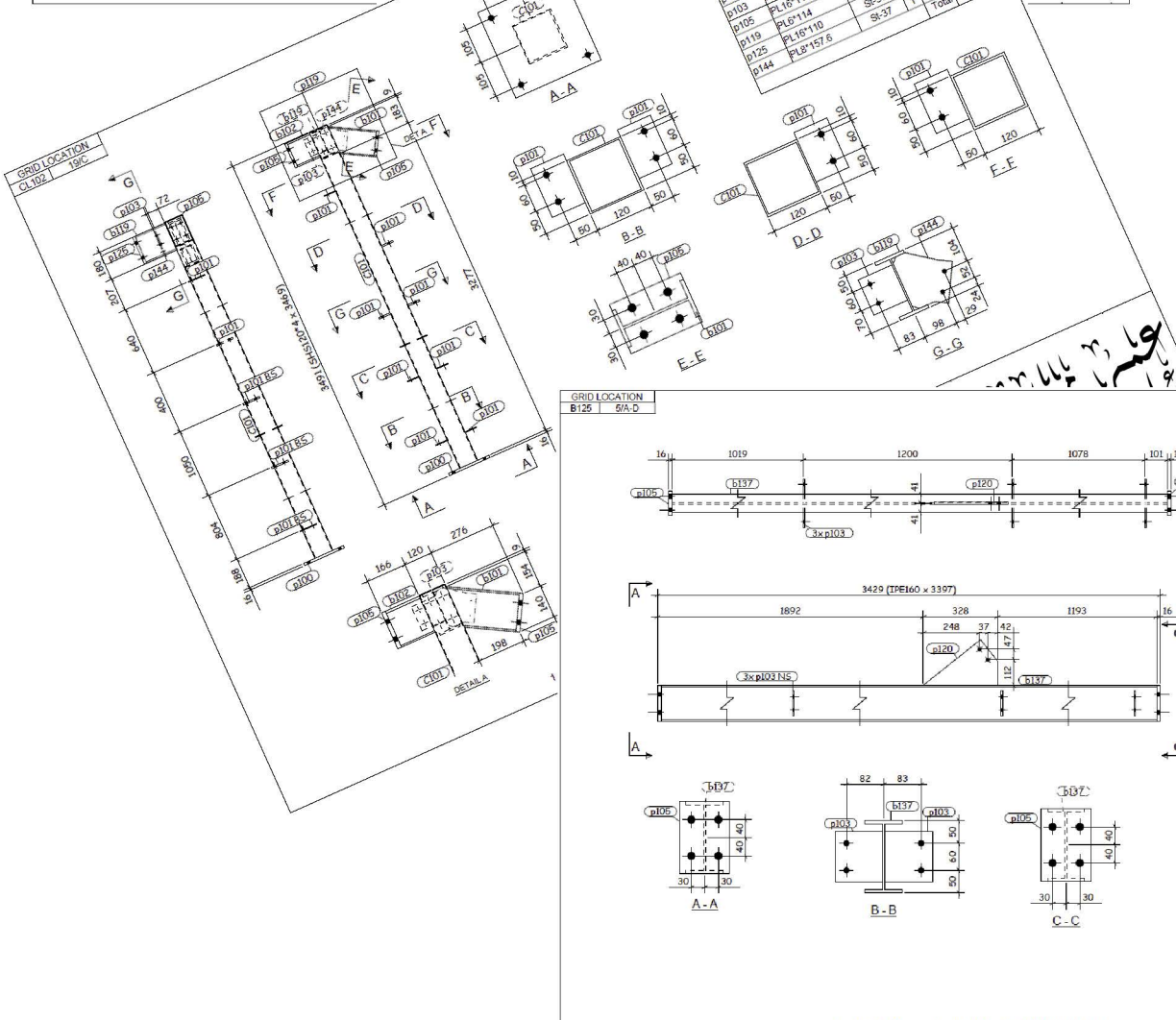
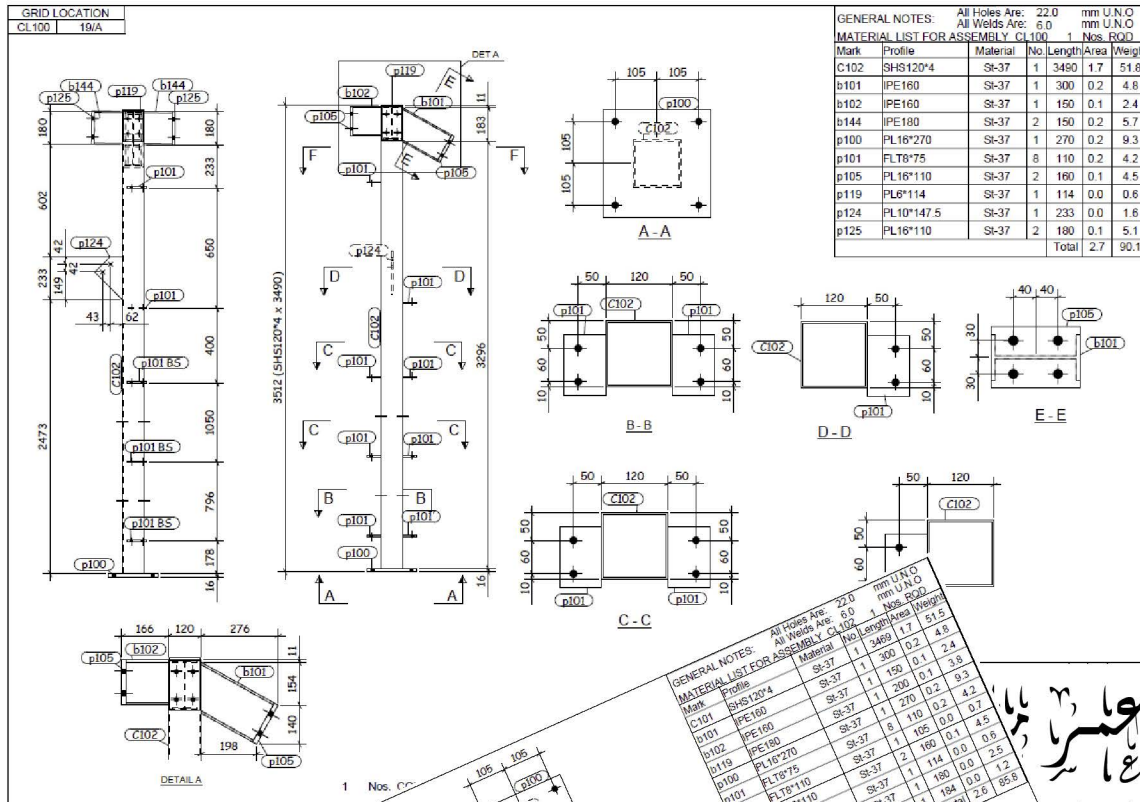
- The Street [CFC]:



F&B Structures

- The Street [CFC]:





عمر مایحوب
مهندس بصری
عمر مایحوب

F&B Structures

- **New Mariia:**   

Participation Type : Structural Design

Area : 465 m2 (38.40 x 12.10)

Weight : 28 tons

System : Special Framing

Usage : Commercial

Location : EGY 



F&B Structures

- New Mariia: [in](#) [f](#) [v](#)



Exterior Render 3 | Smooha Plaza

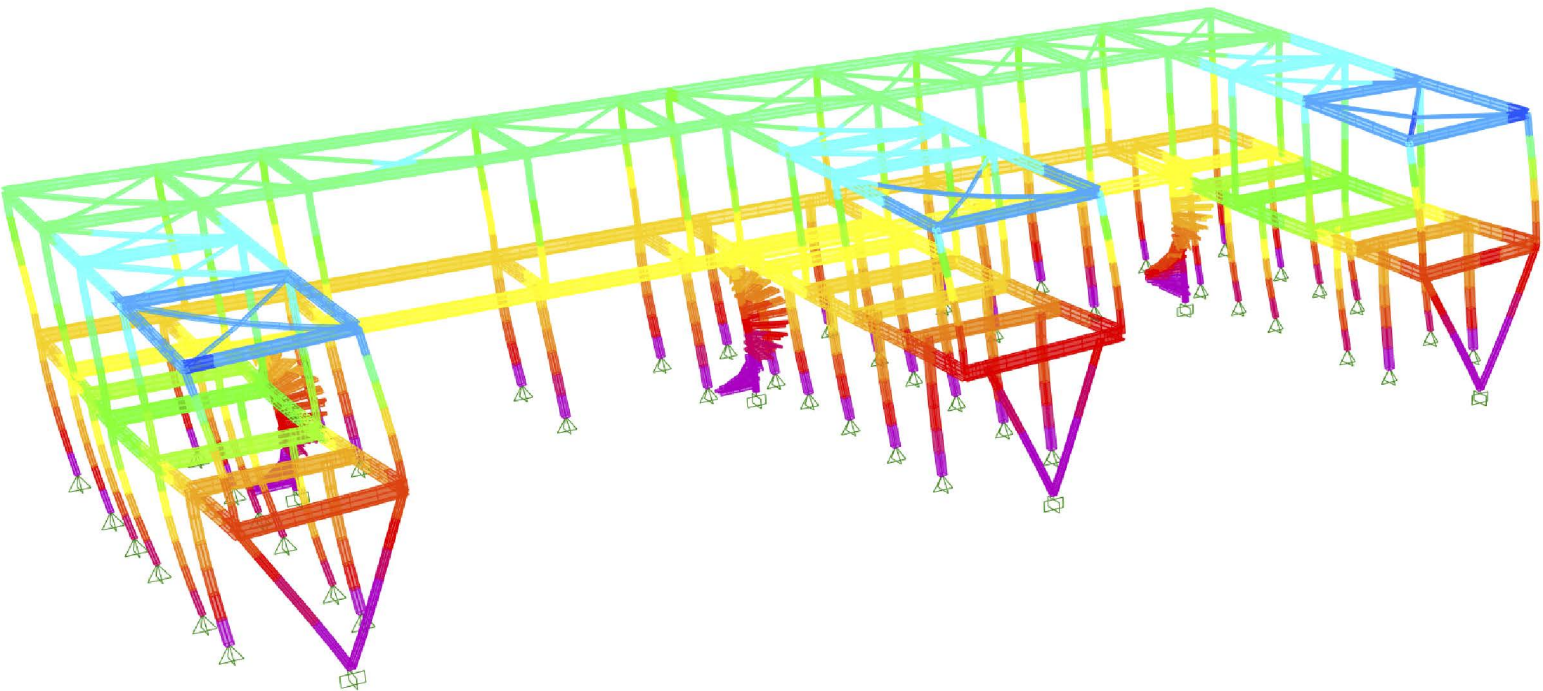
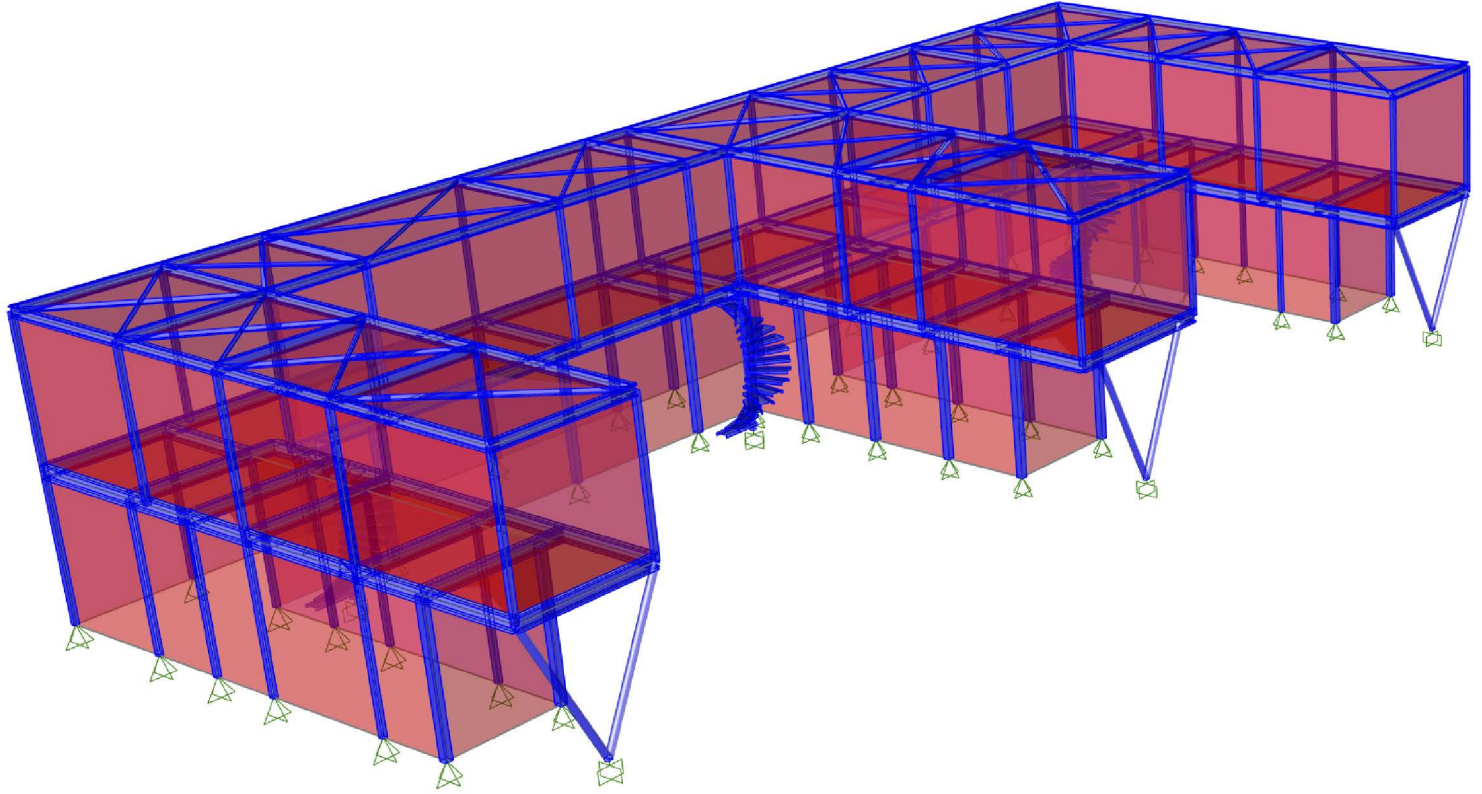


Exterior Render 7 | Smooha Plaza

Architectural Renders

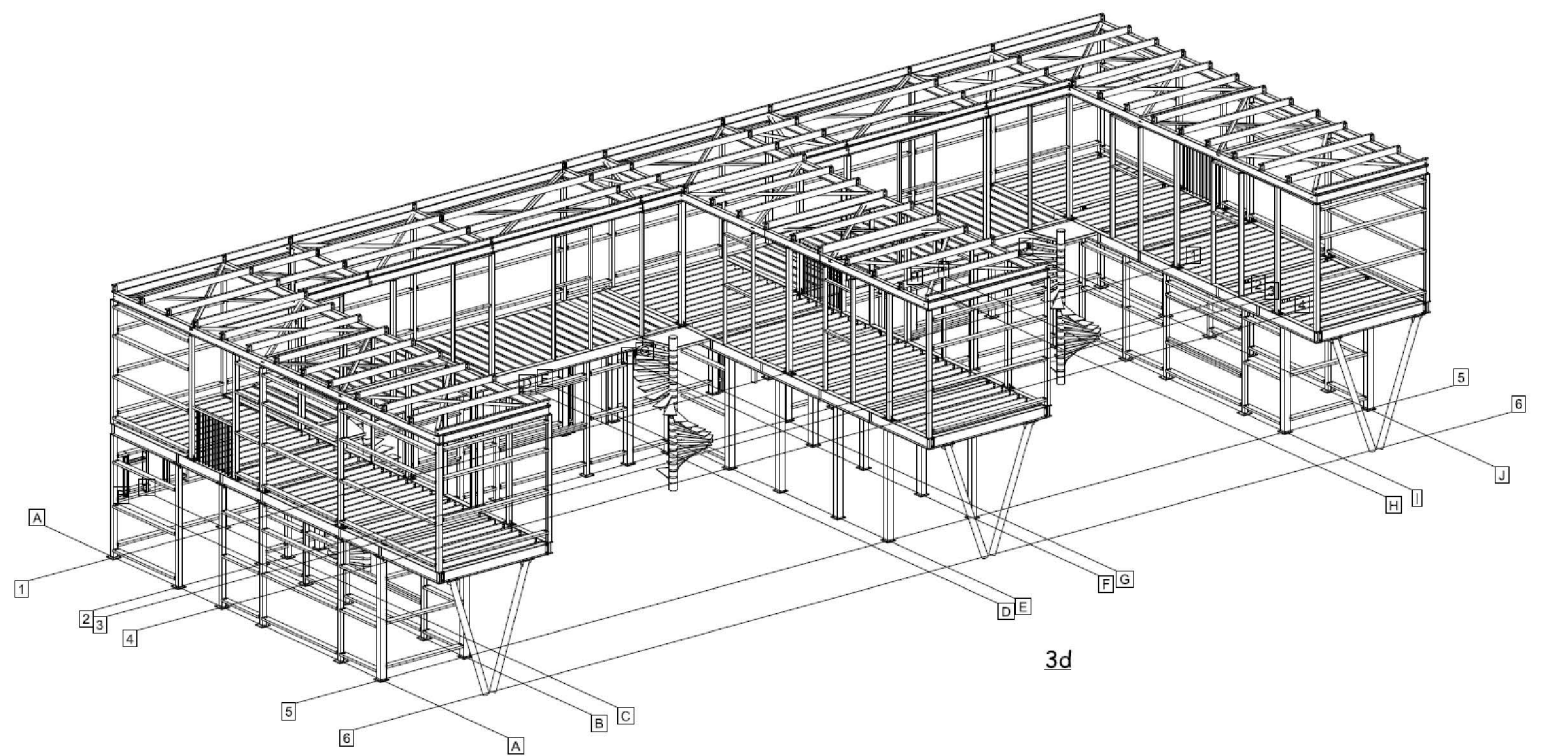
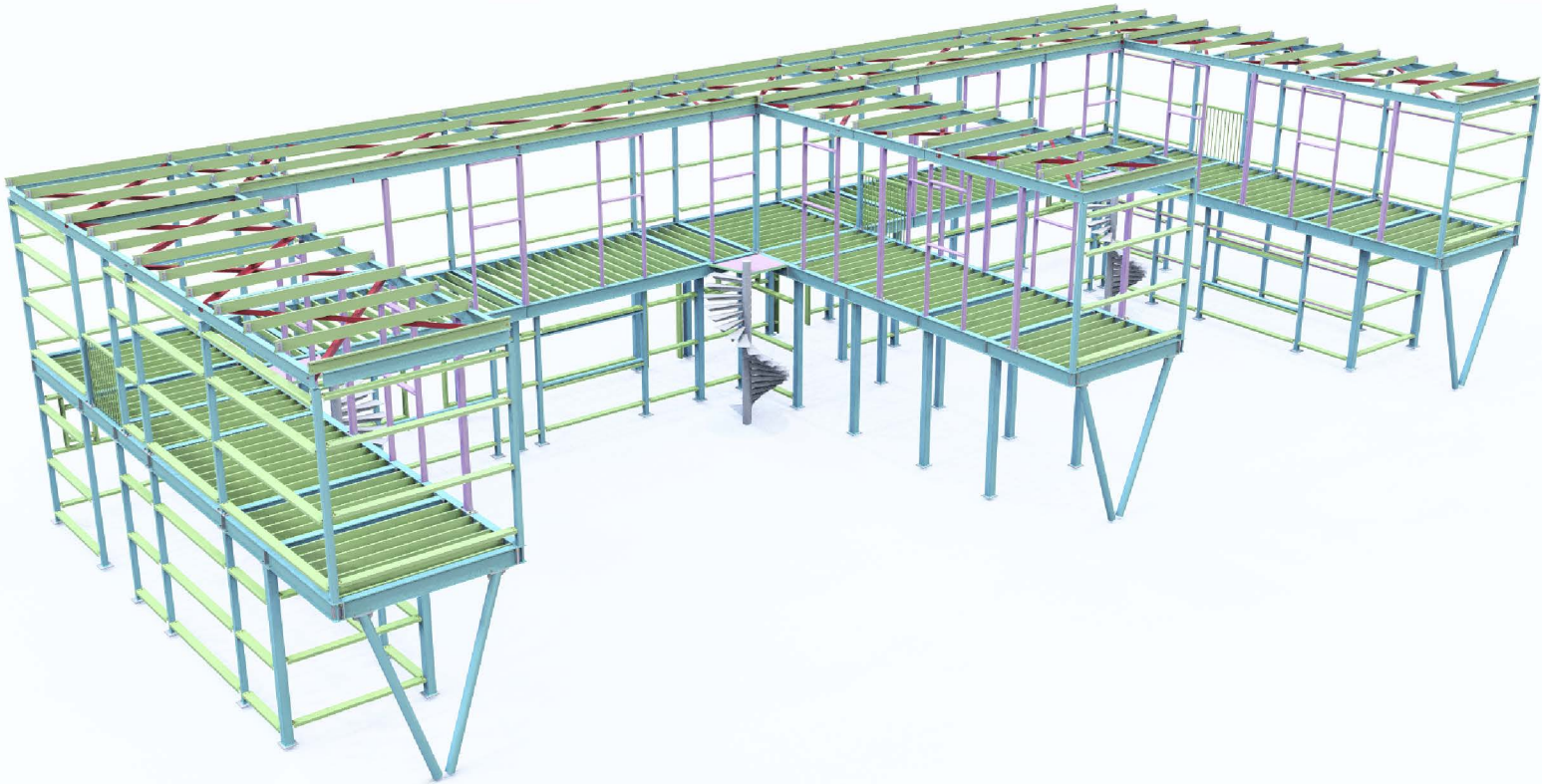
F&B Structures

- New Mariia:



F&B Structures

- New Mariia:



Radial Halls

- Riyadh Restaurant:



Participation Type : Structural Design

Area : 255 m² (D18.00)

Weight : 66 tons

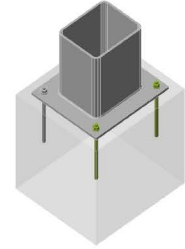
System : Radial Frames

Usage : F&B Structure

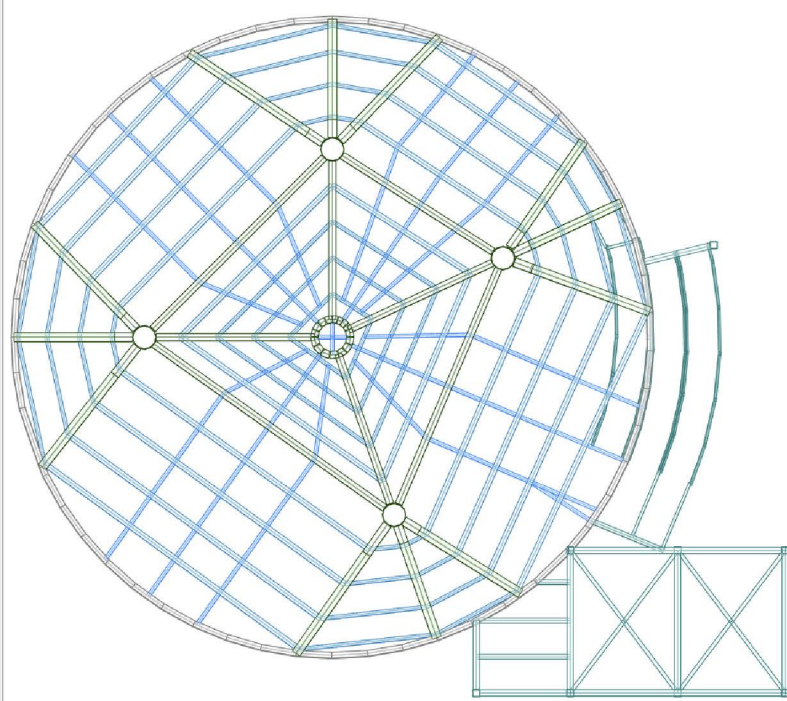
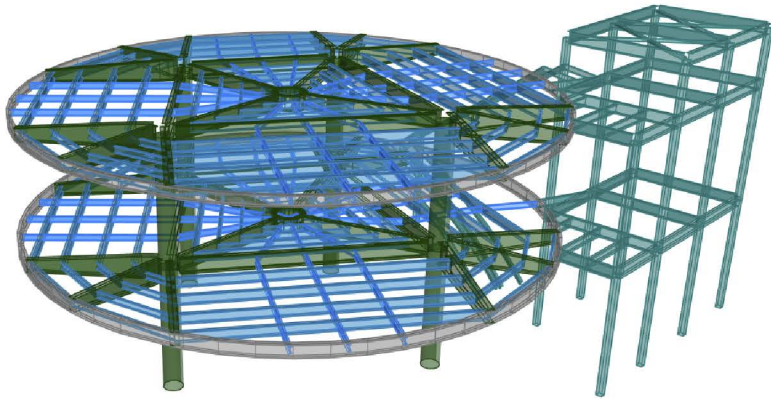
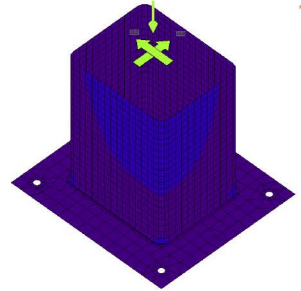
Location : KSA



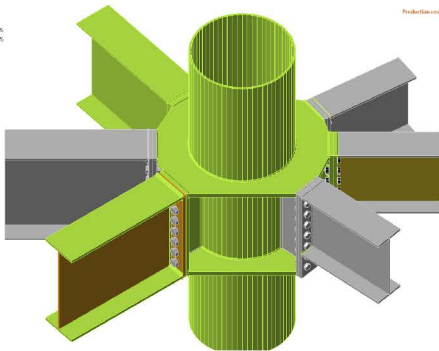
Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%



Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%

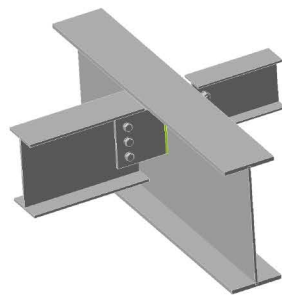


Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%

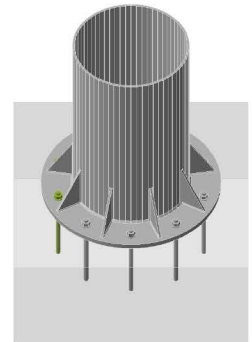


Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%

Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%

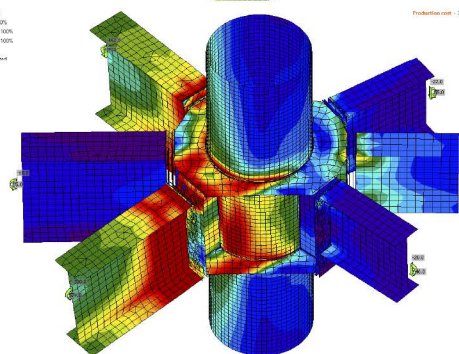


Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%



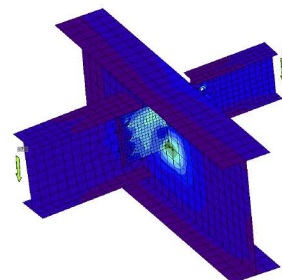
Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%

Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%



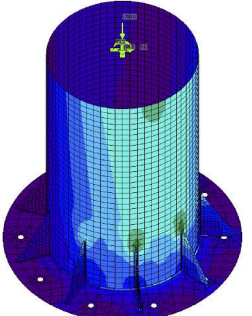
Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%

Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%



Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%

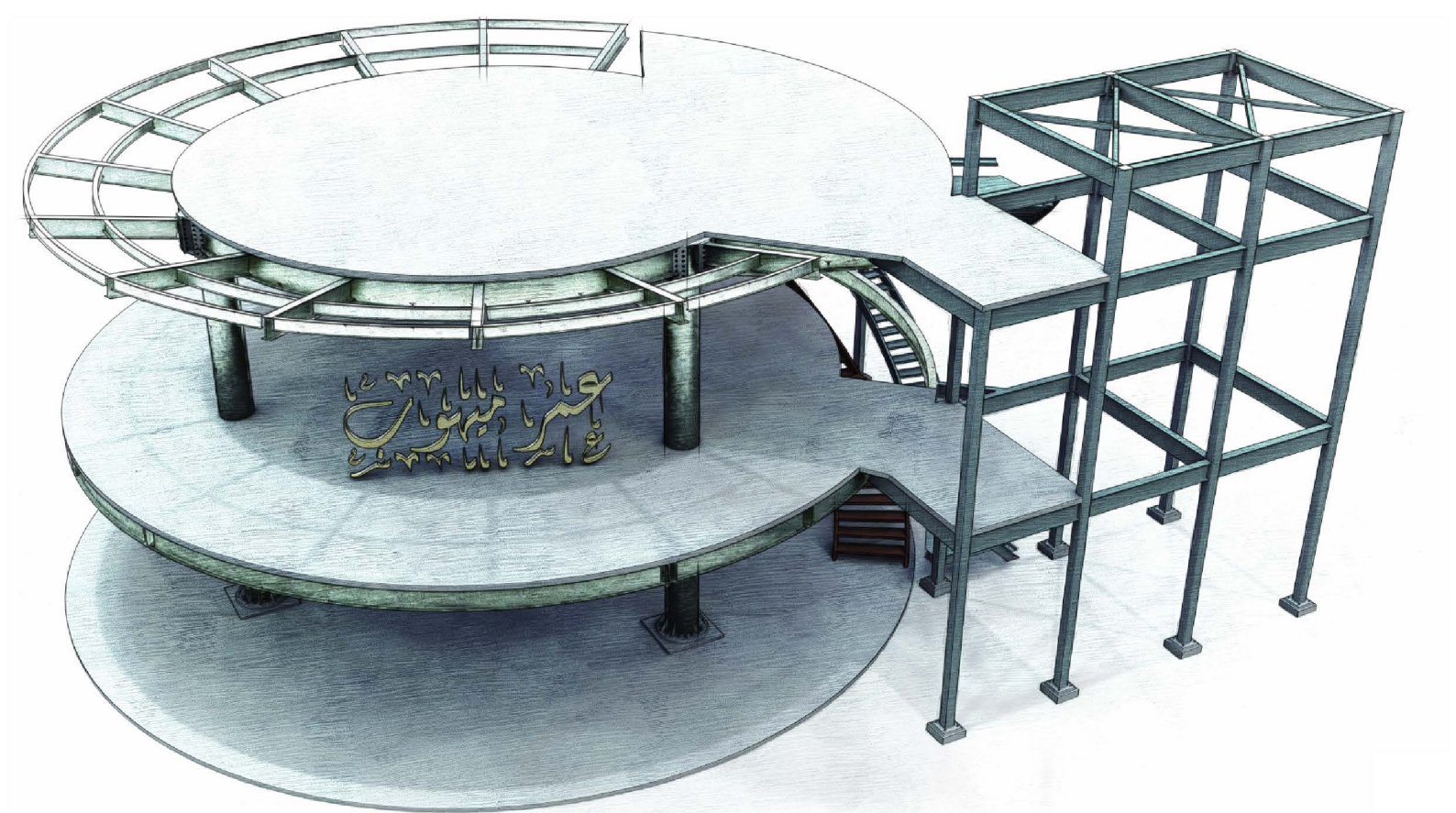
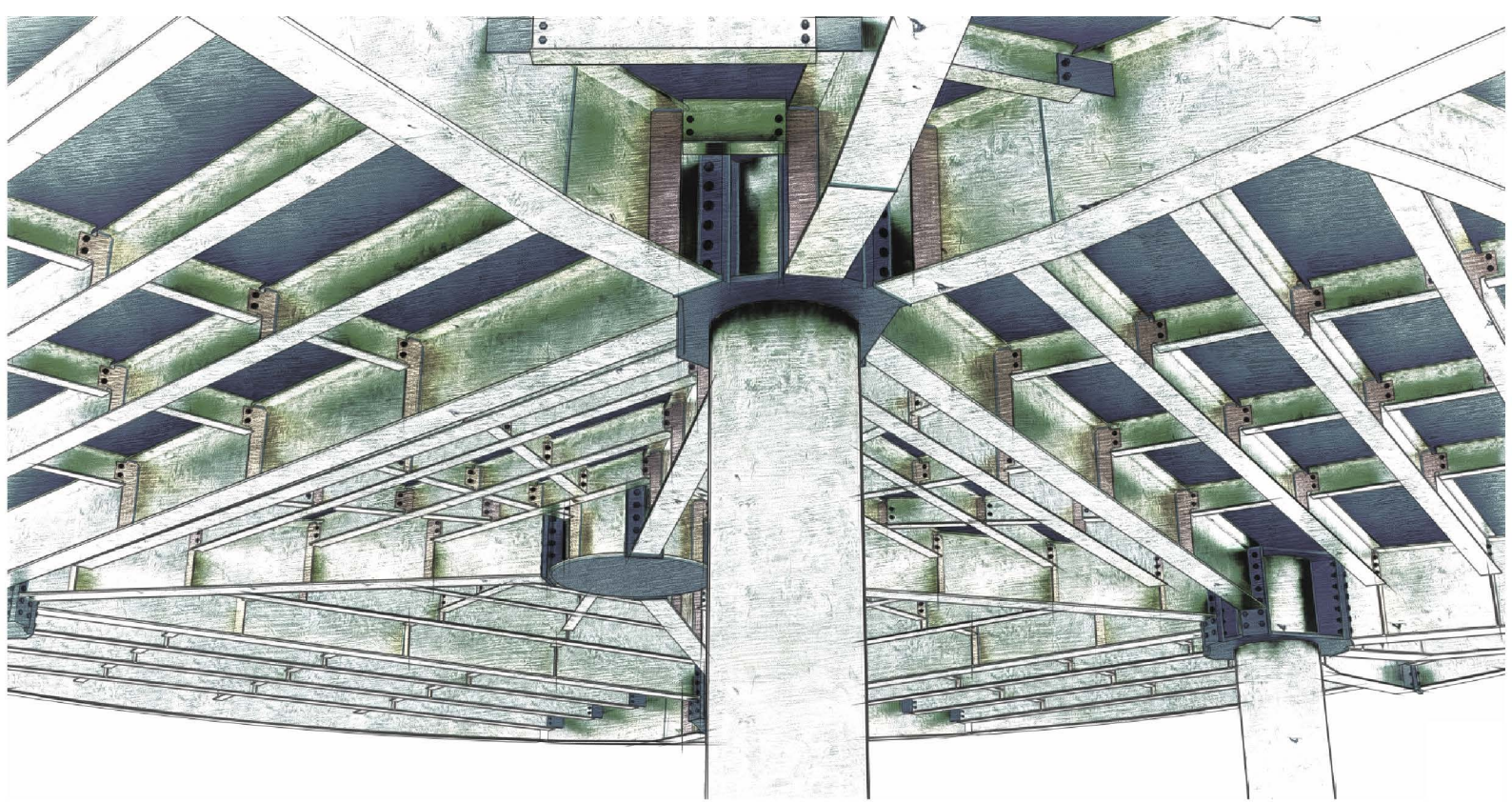
Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%



Analysis	100%
Frame	100%
Beam	100%
Wall	100%
Column	100%
Slab	100%

Radial Halls

- Riyadh Restaurant:



Radial Halls

- Wood Workshop:   

Participation Type : Detailing

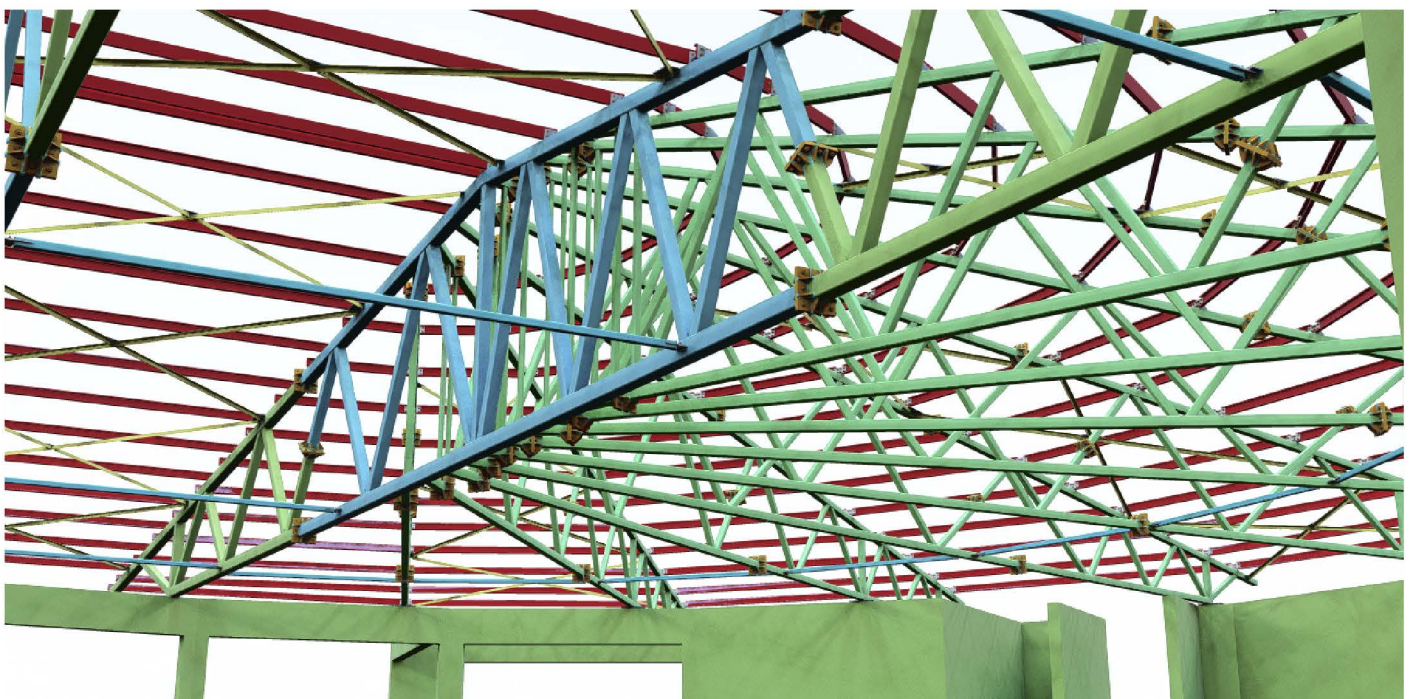
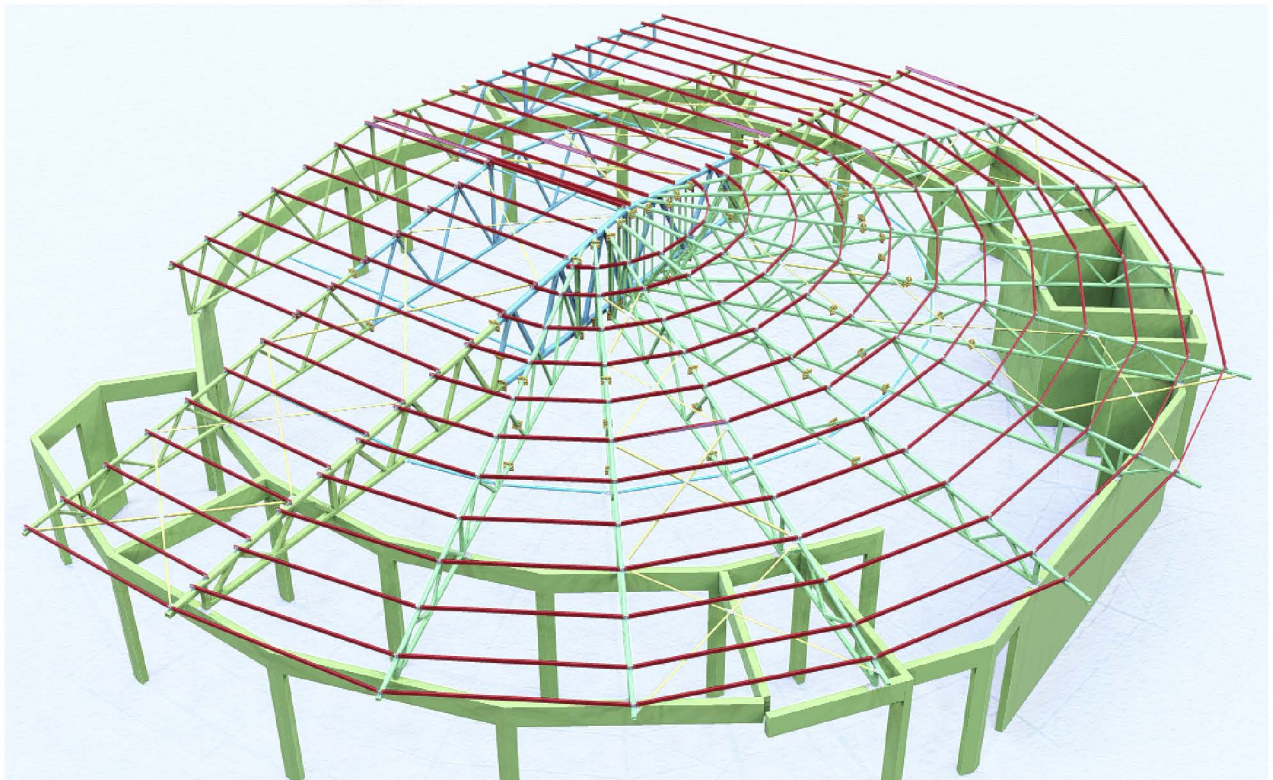
Area : 810 m²

Weight : 20 tons

System : Radial Trusses

Usage : Industrial

Location : KSA



Radial Halls

- University Cafeteria:



Participation Type : Detailing

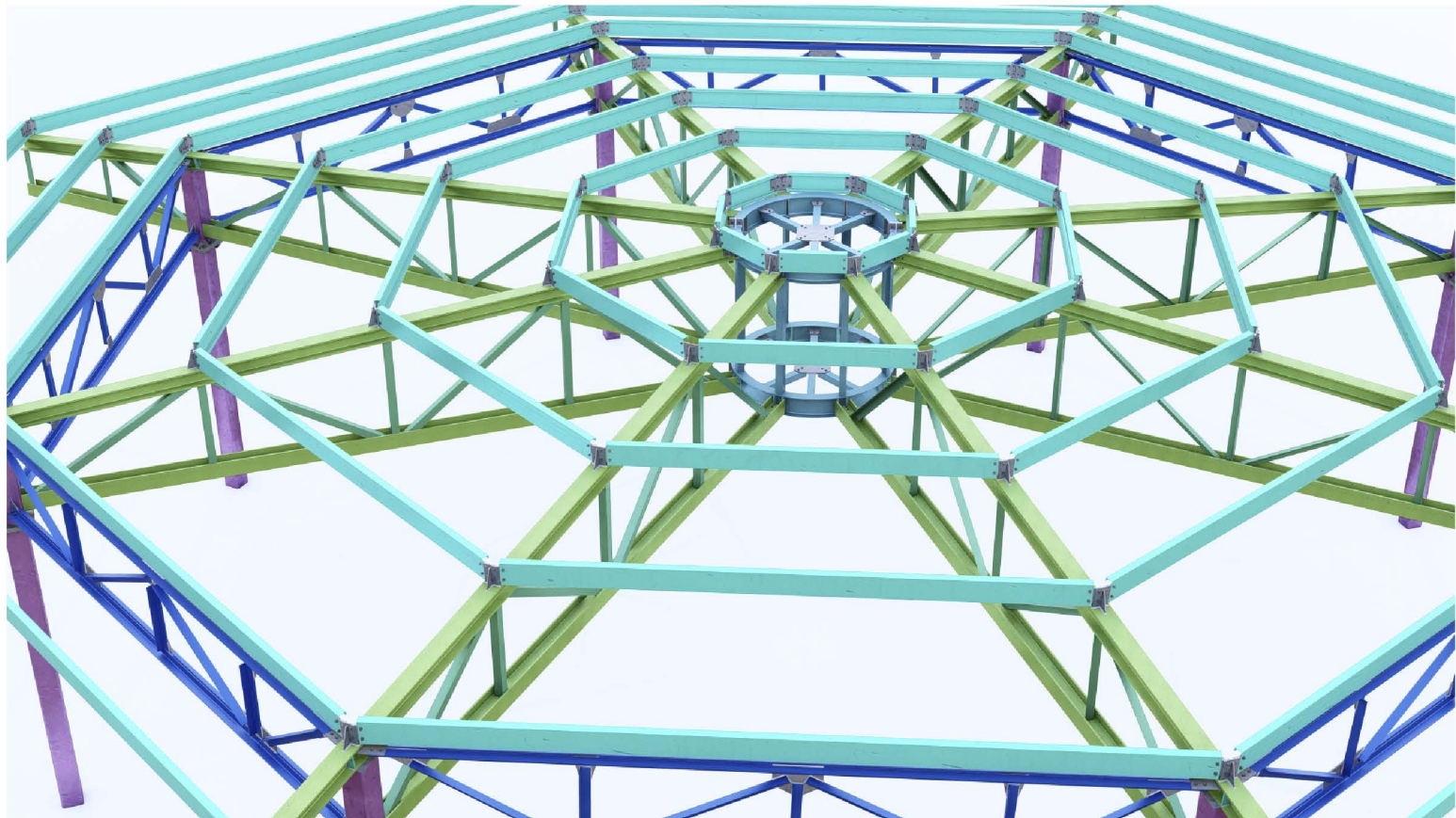
Area : 270 m² (D18.50)

Weight : 12 tons

System : Radial Trusses

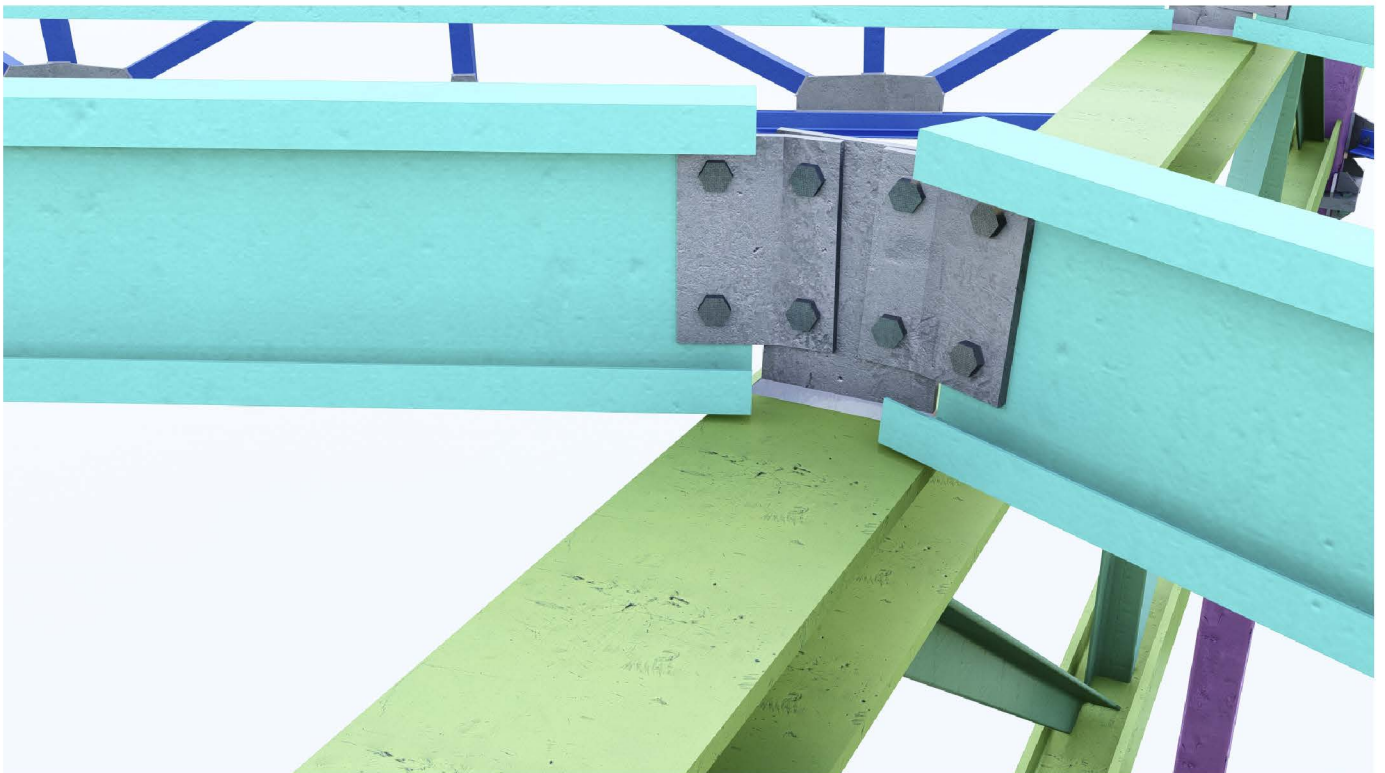
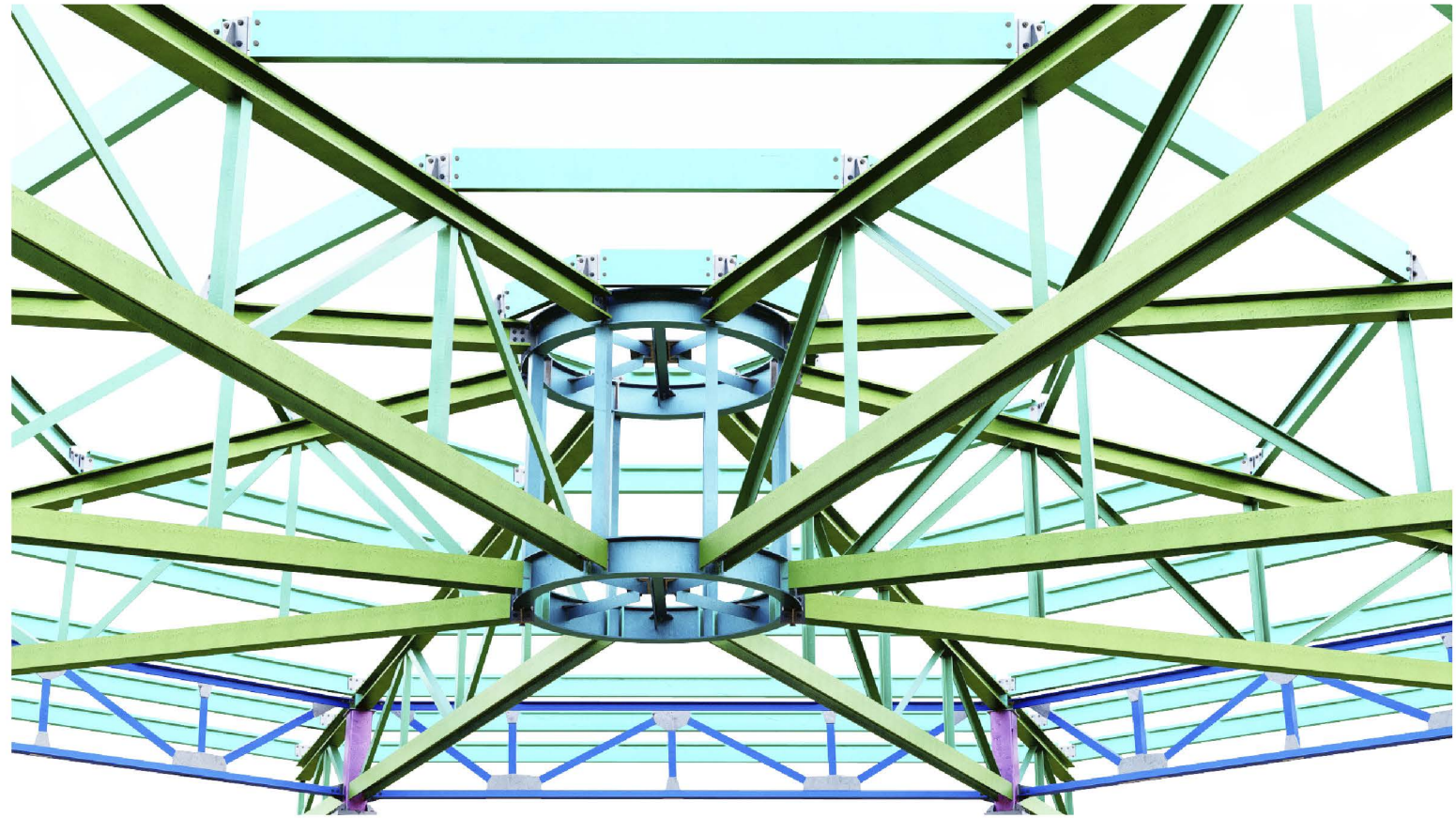
Usage : Commercial

Location : EGY



Radial Halls

- University Cafeteria:

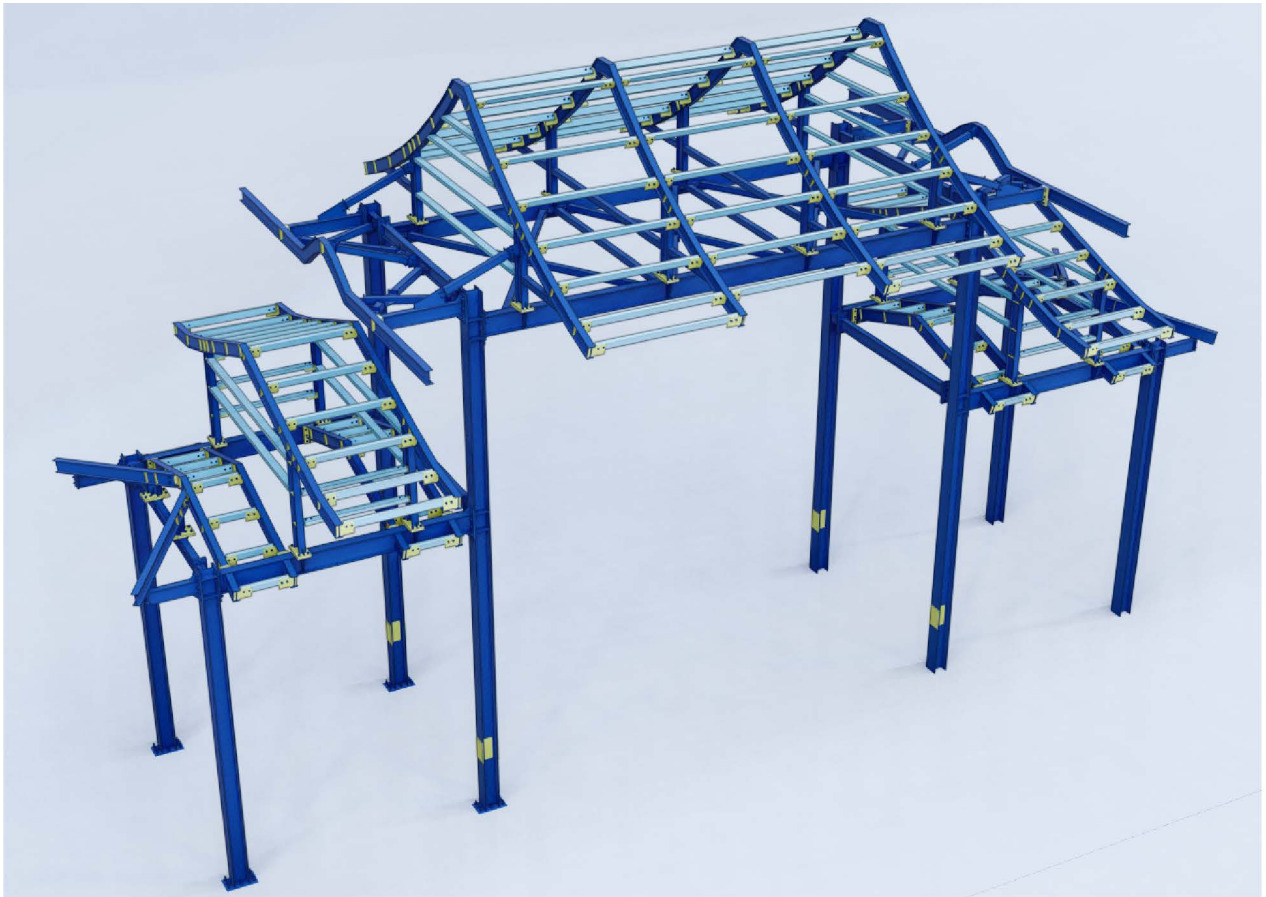
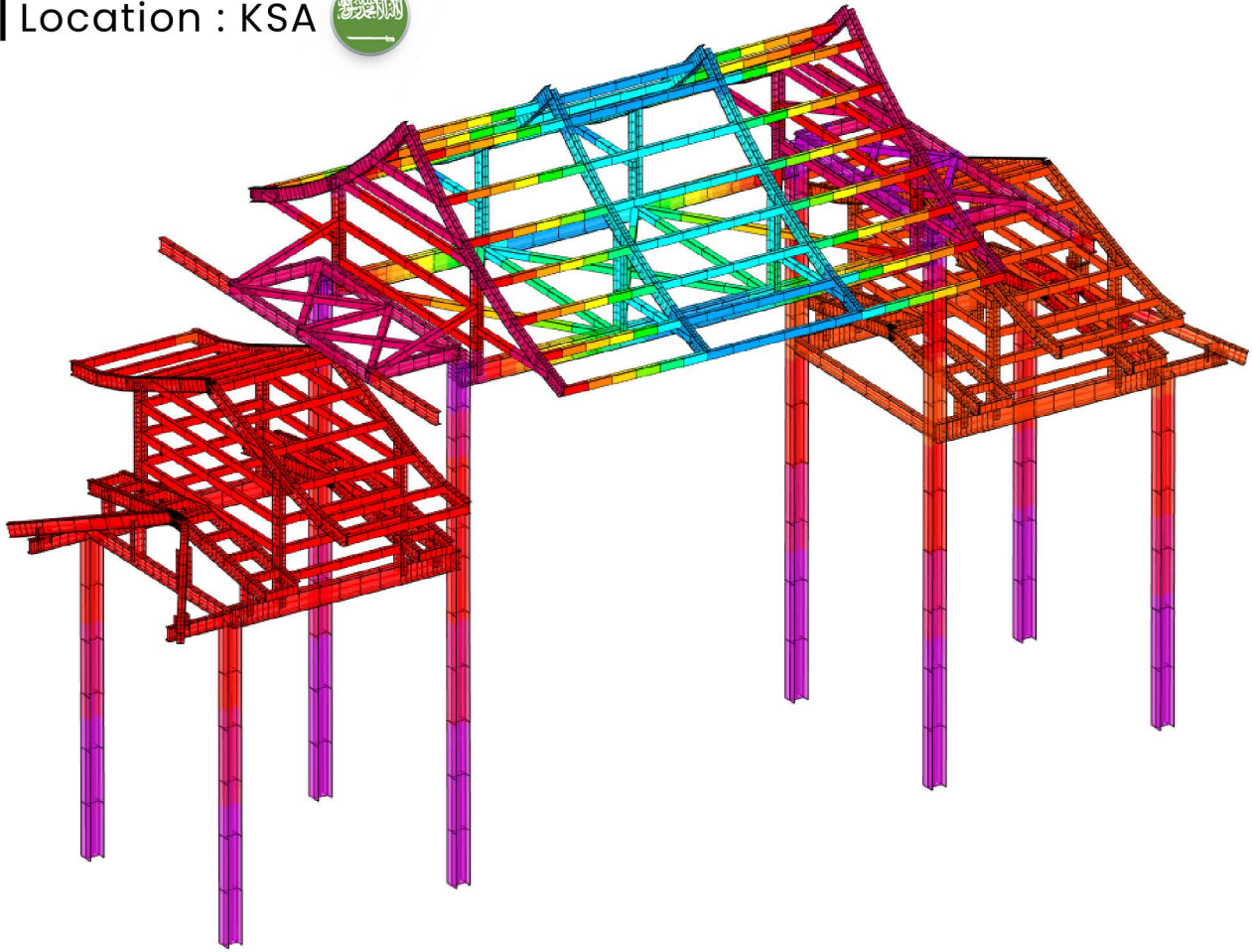


GATES

- Boulevard Tiland Gate:



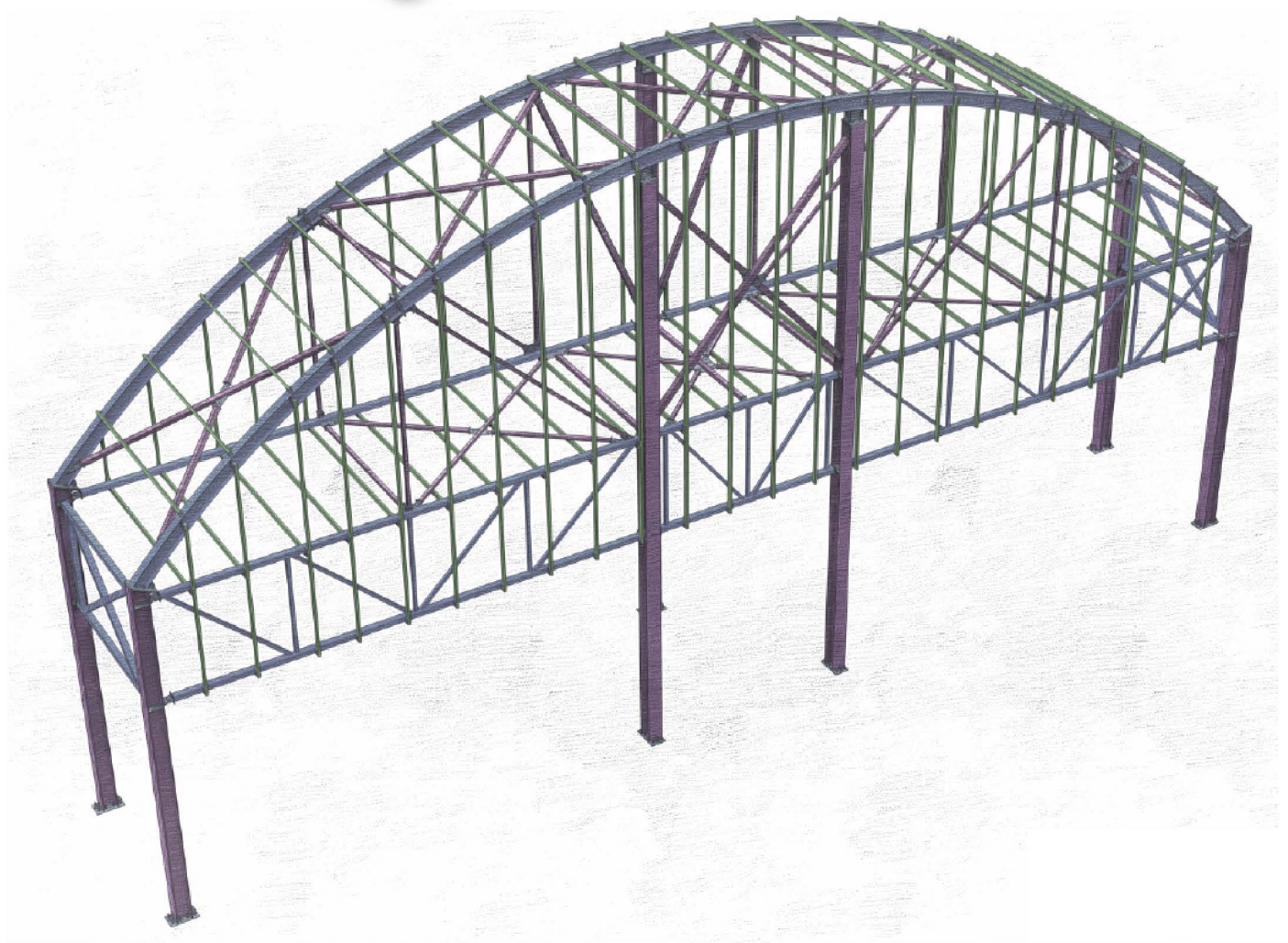
| Location : KSA



GATES

- Riyadh Zoo Gate: [in](#) [f](#) [v](#)

| Location : KSA 



Bridges

- Extension of Airport Bridge :




Participation Type : Detailing

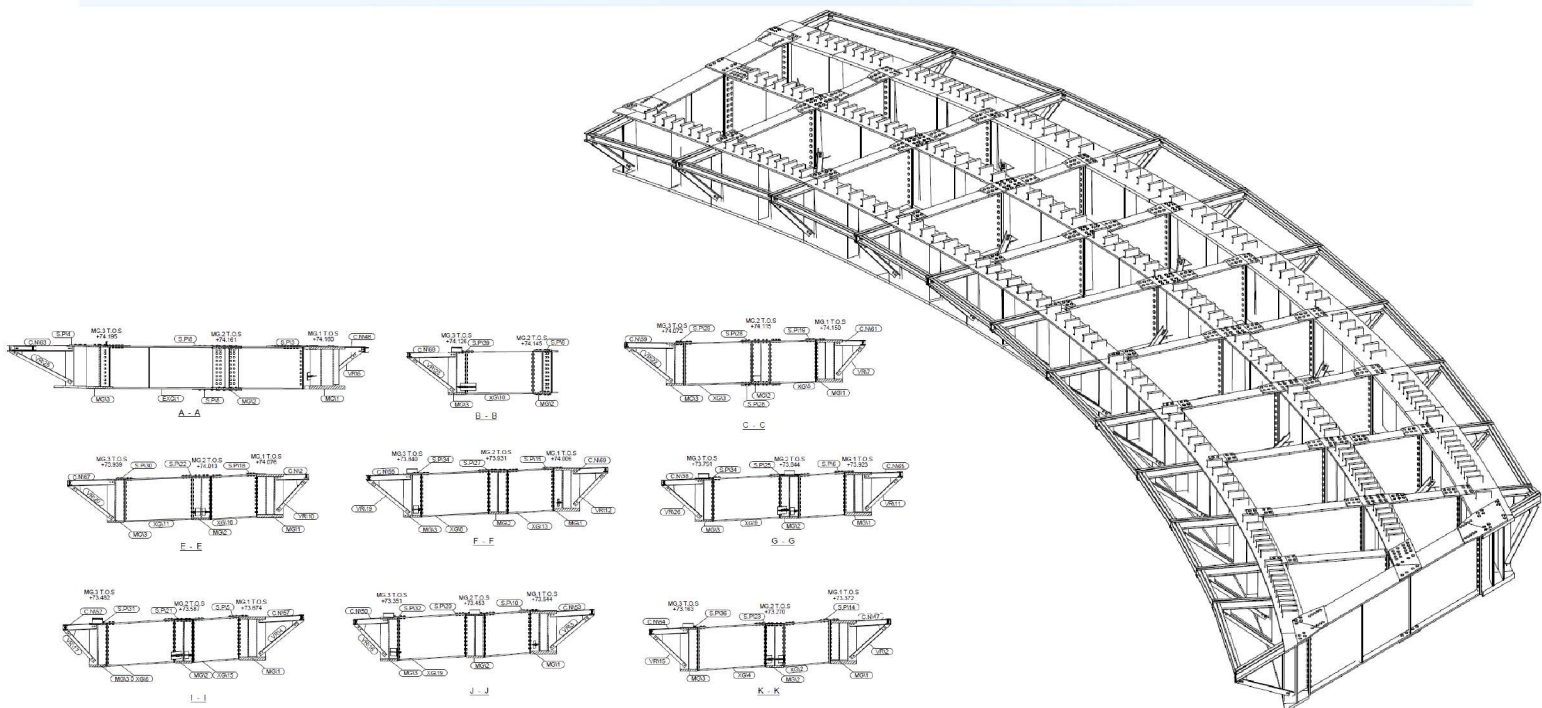
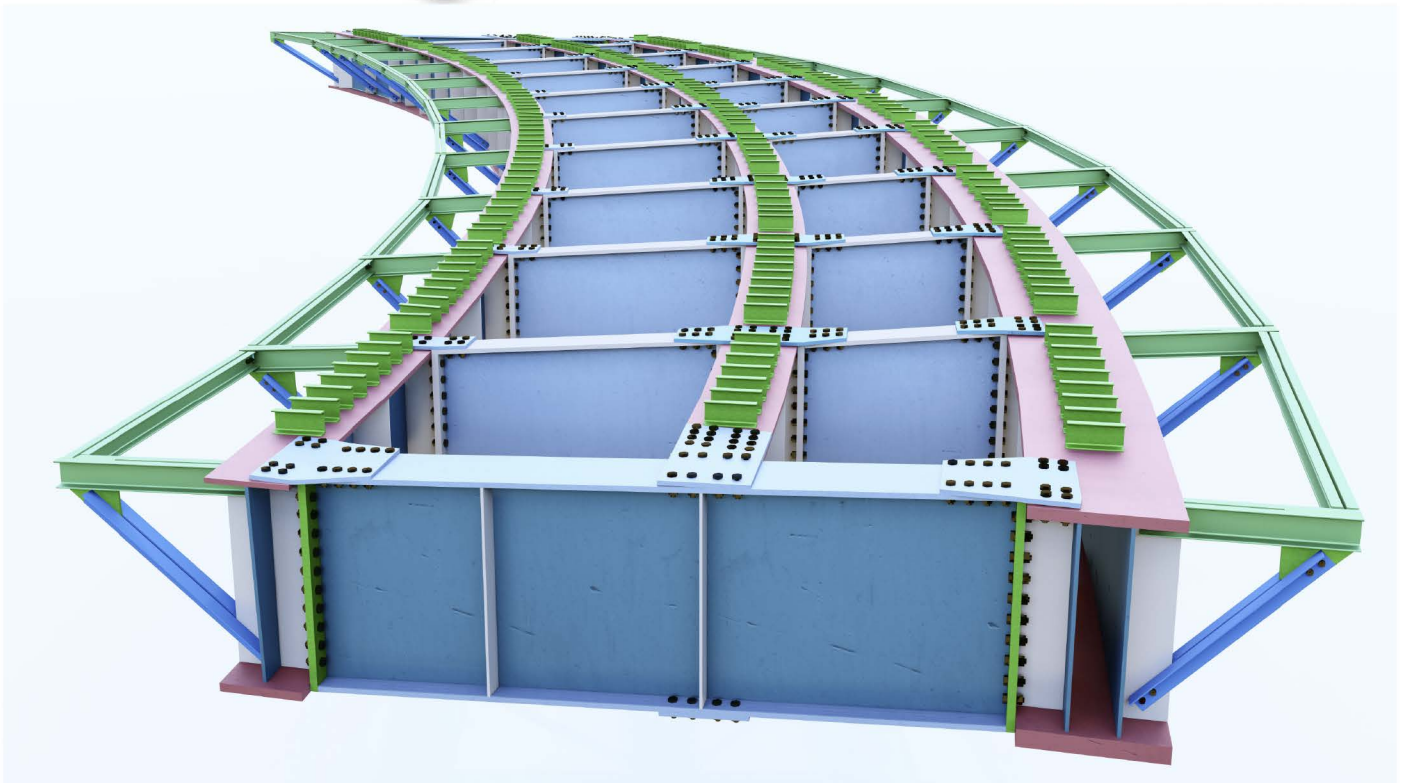
Area : 335 m² (32.00 x 10.50)

Weight : 103 tons

System : Main Girders & Cross Beams

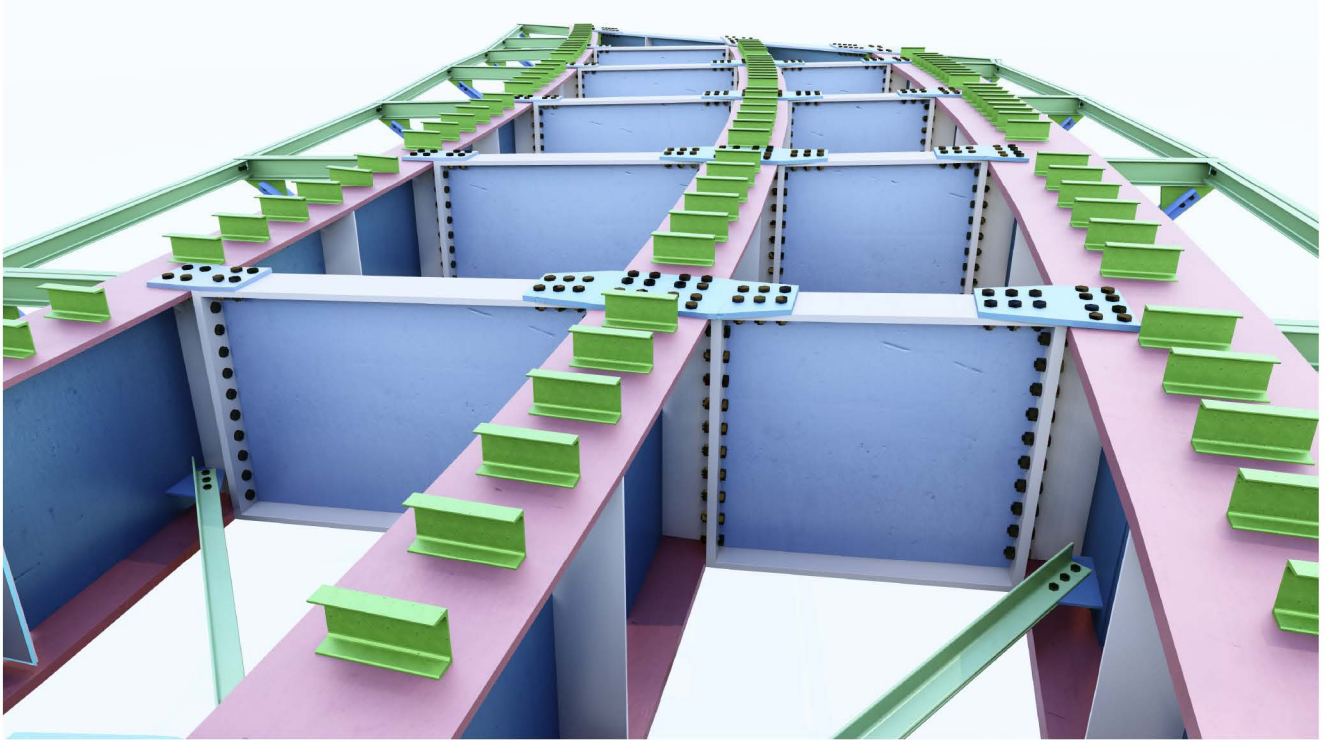
Usage : Public Services

Location : EGY 



Bridges

- Extension of Airport Bridge :



Bridges

- Cladded Bridge:


Participation Type : Structural Design

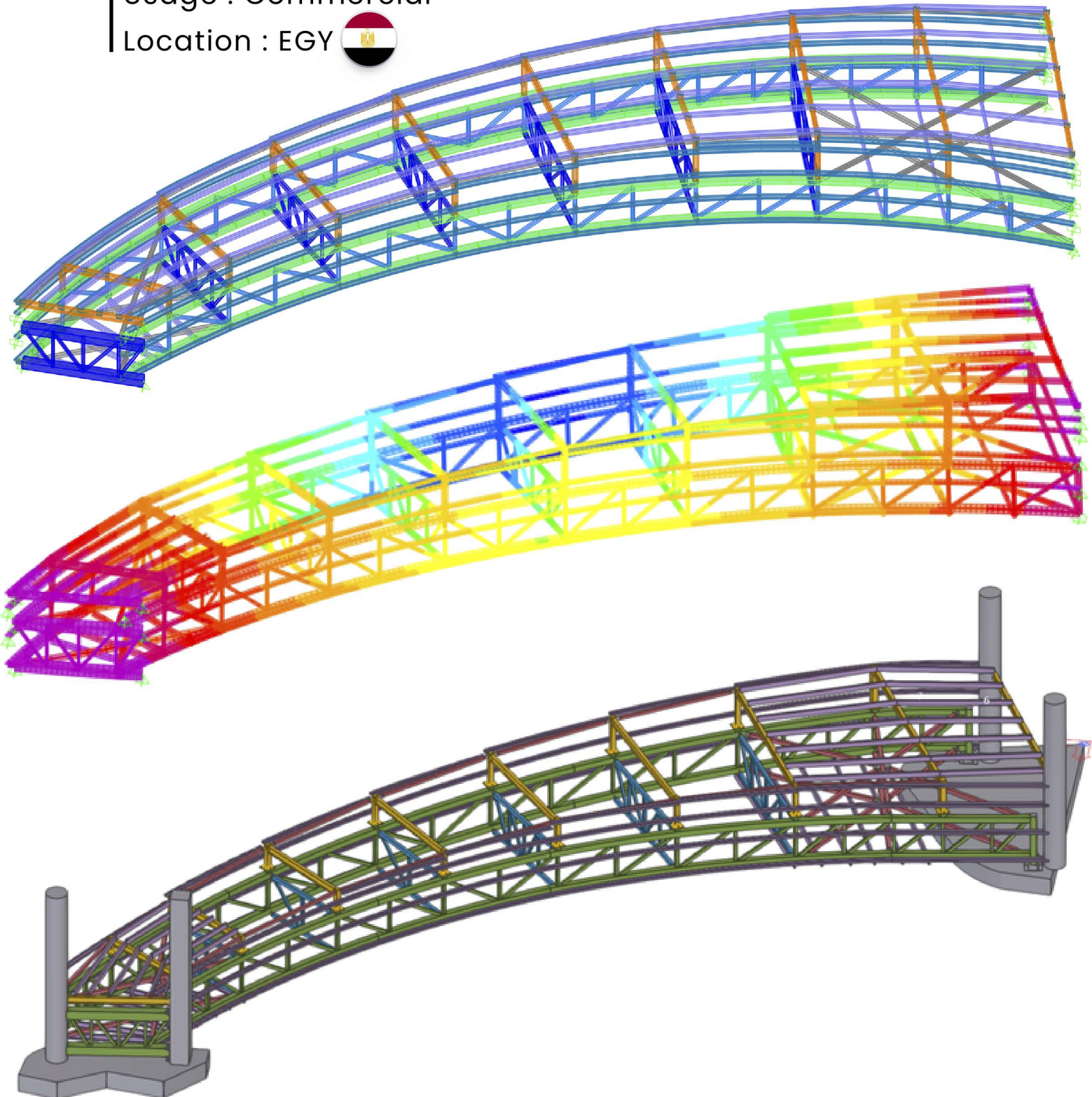
Area : 150 m² (30.00 x 5.00)

Weight : 26 tons

System : Trusses

Usage : Commercial

Location : EGY 



Towers

- 65m Tower:   

Participation Type : Detailing

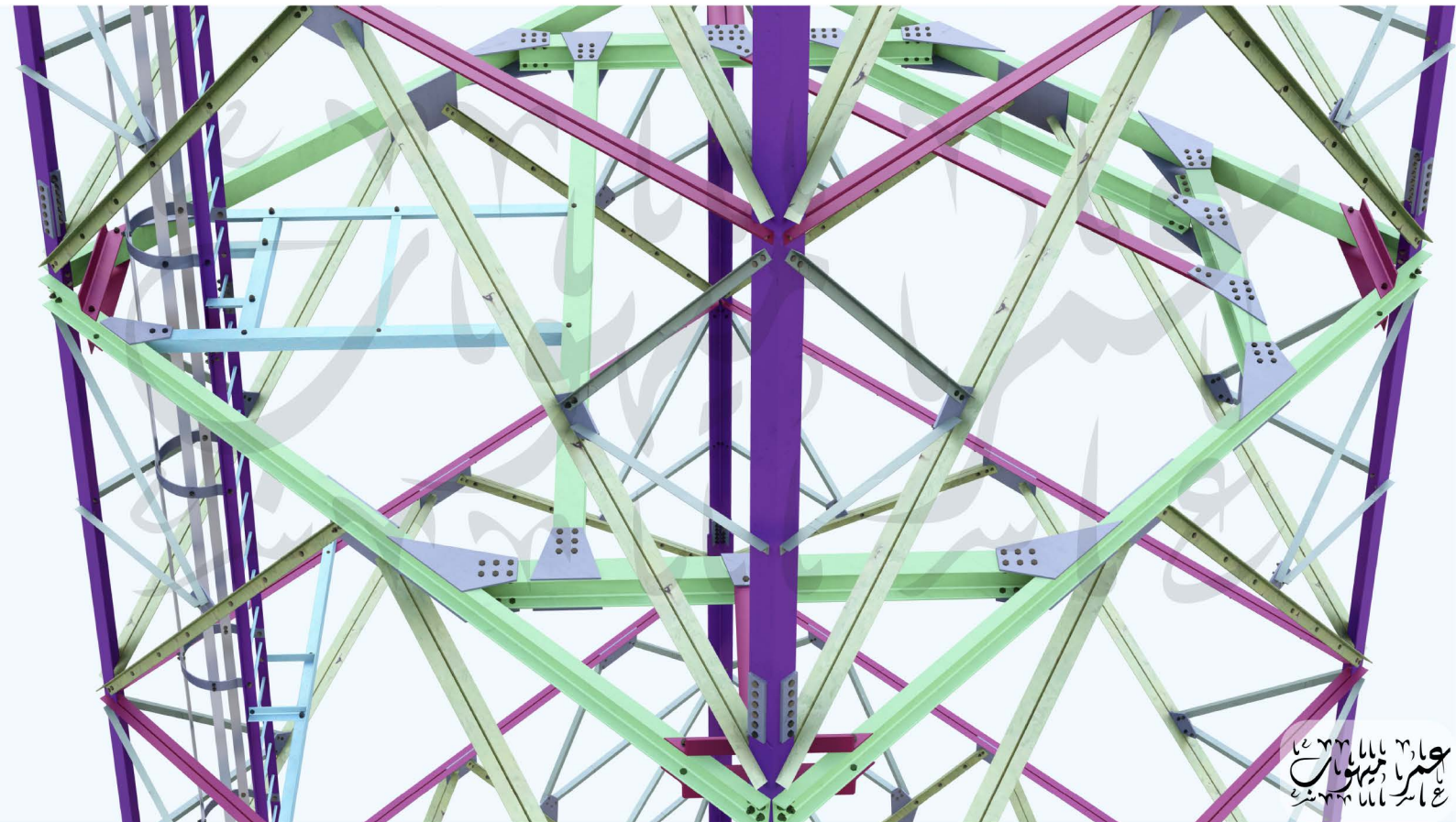
Hight : 65 m

Weight : 28 tons

System : Tower

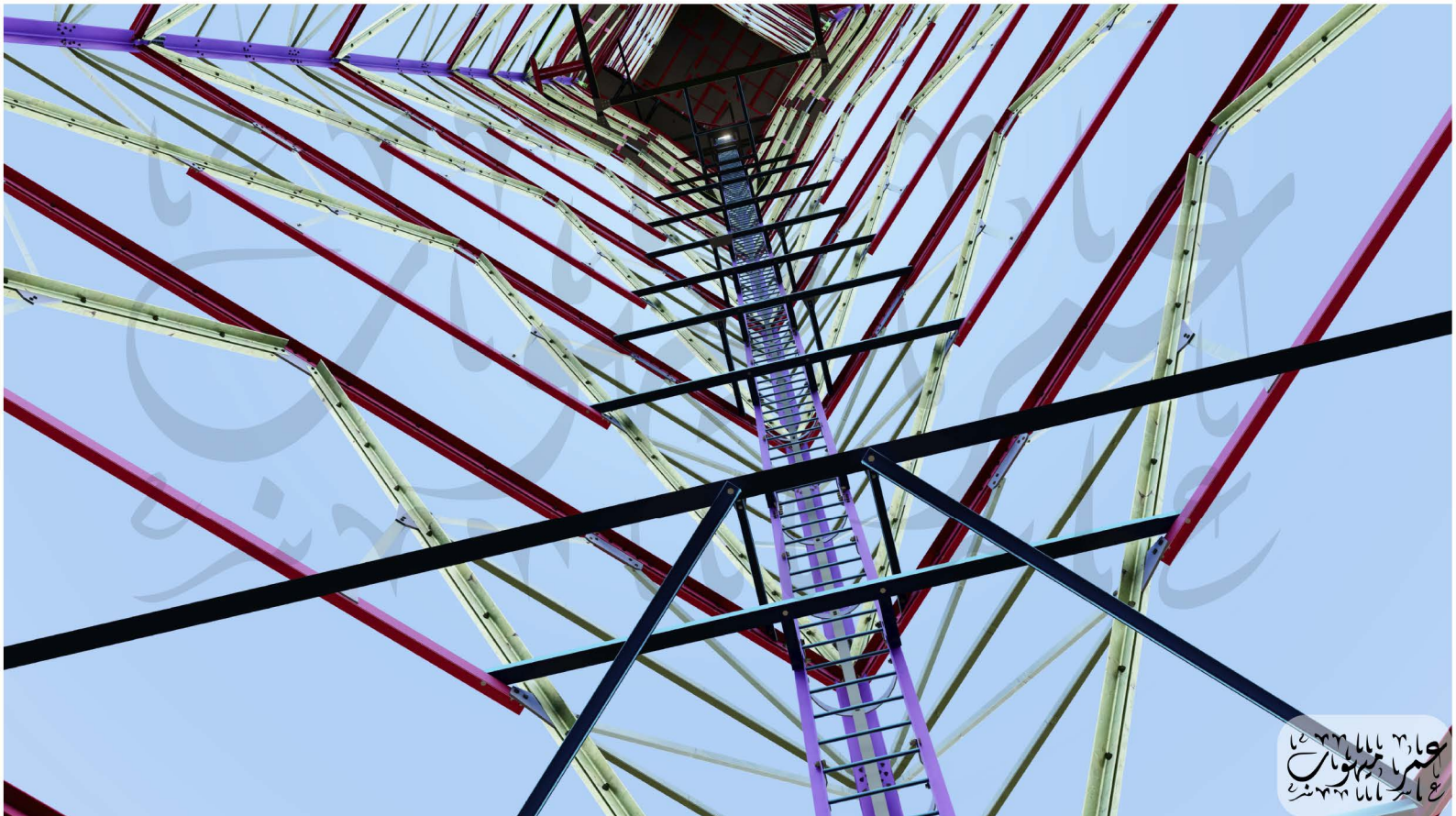
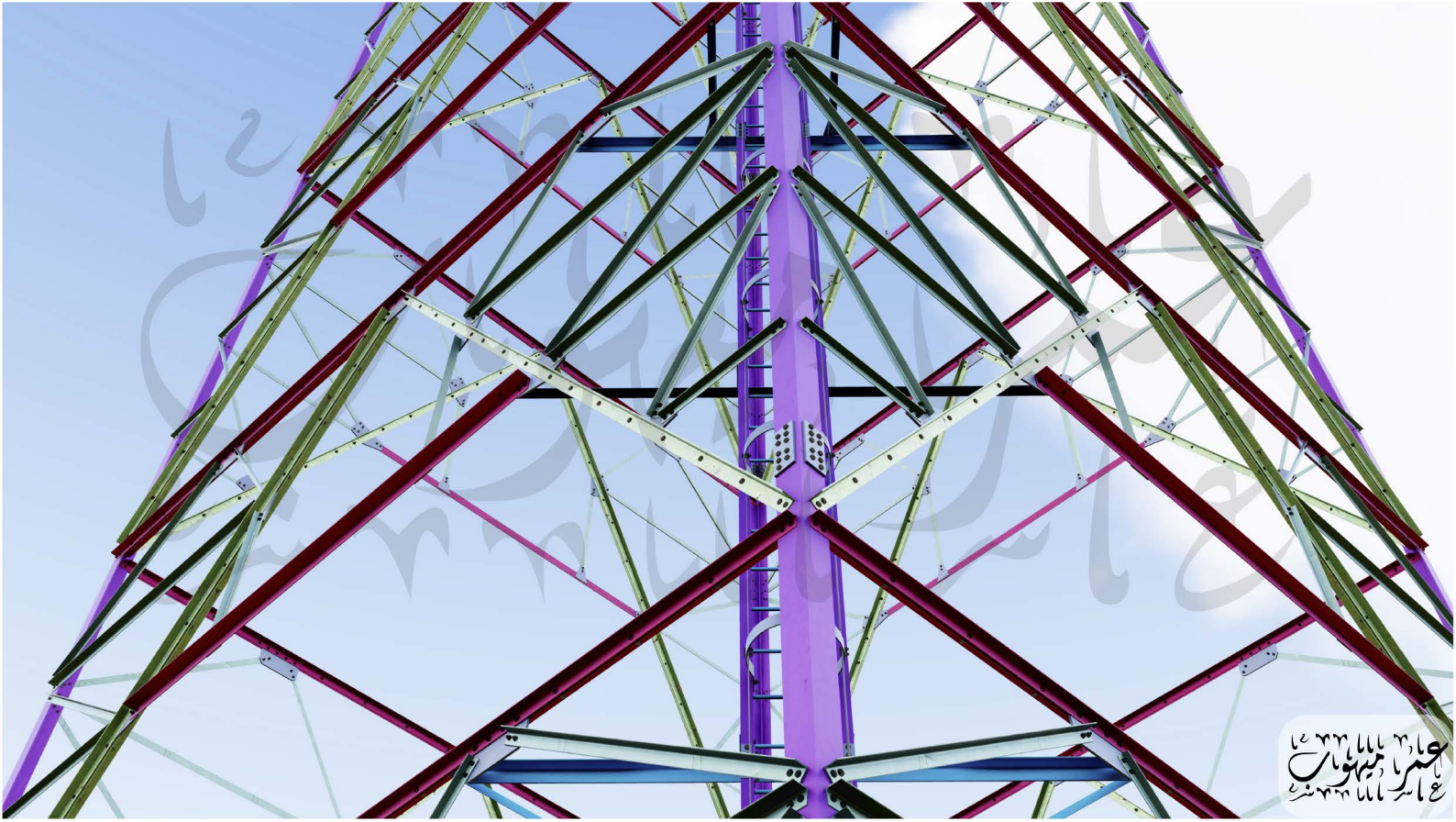
Usage : Public Services

Location : KSA 



Towers

- 65m Tower: [in](#) [f](#) [yt](#)



Towers

- 14m Tower:   


Participation Type : Detailing

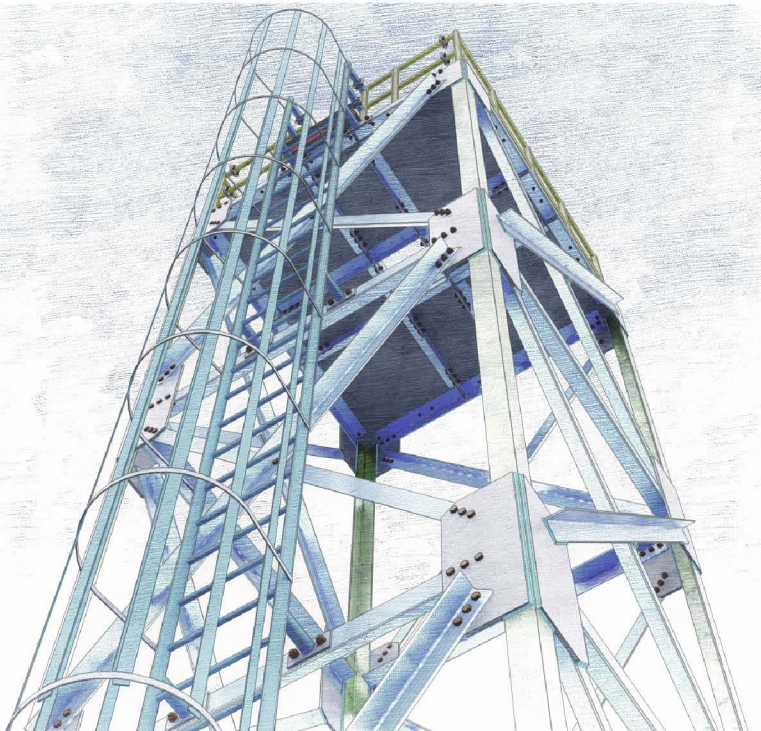
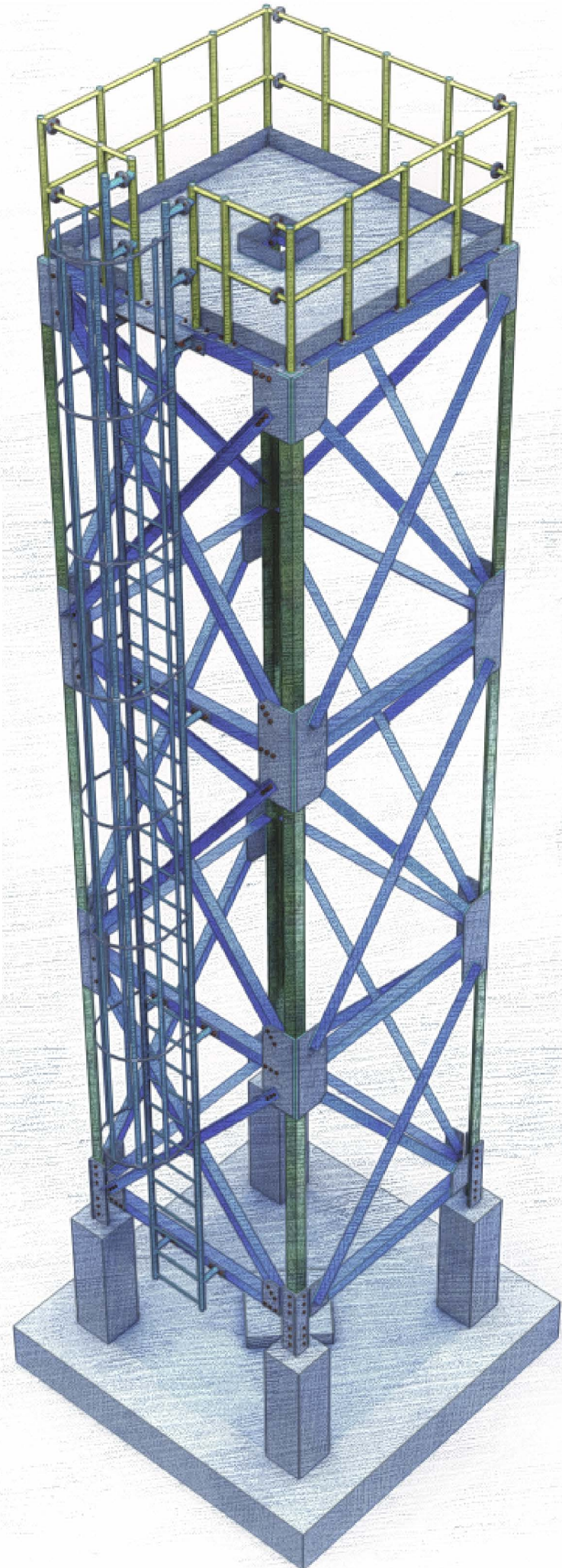
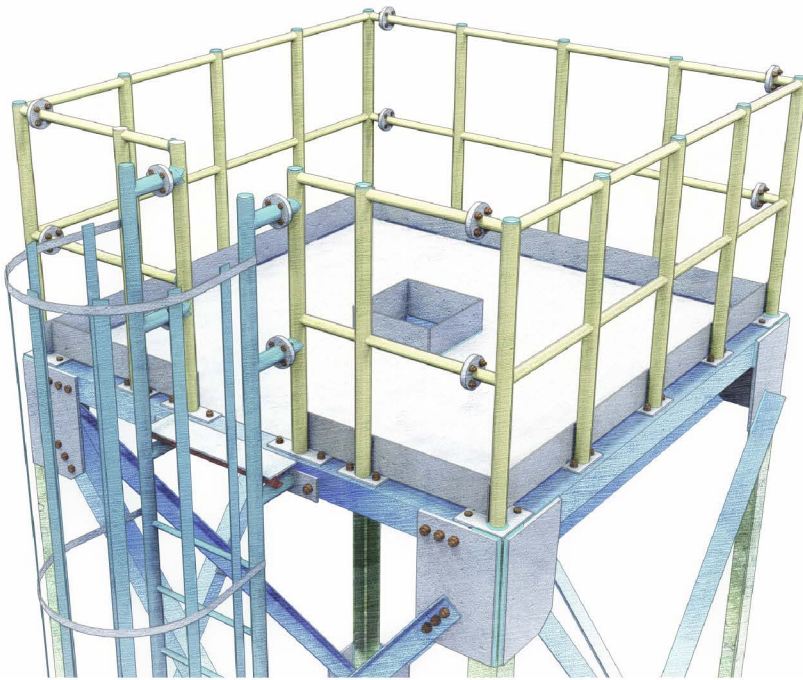
Height : 14 m

Weight : 5 tons

System : Tower

Usage : Public Services

Location : KSA 



Sign Boards

- Mostakbal City:   


Participation Type : Structural Design + Detailing

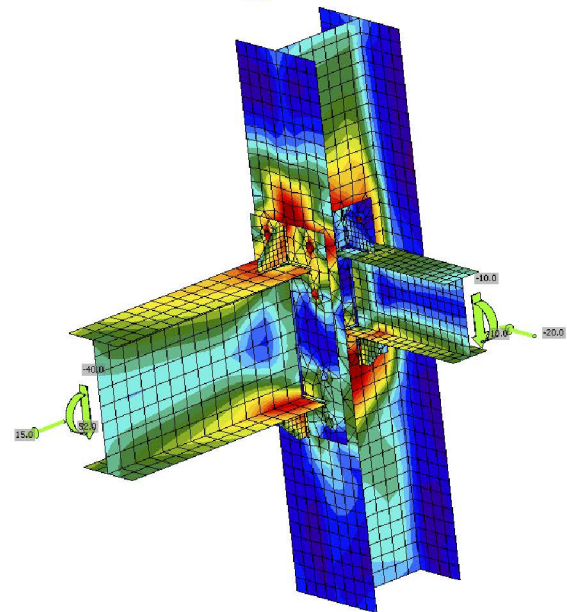
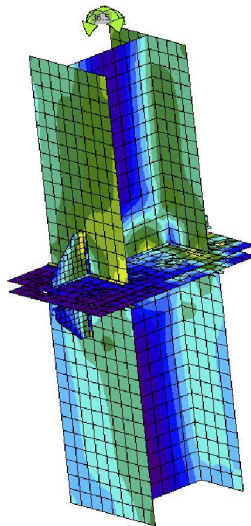
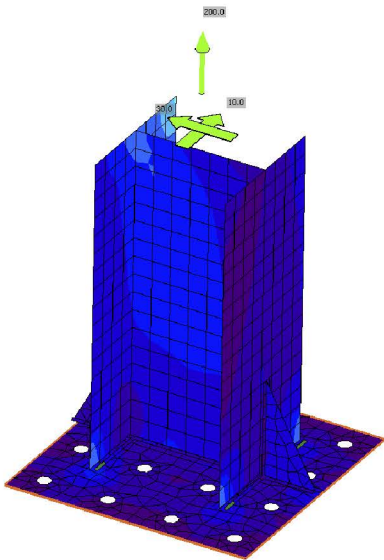
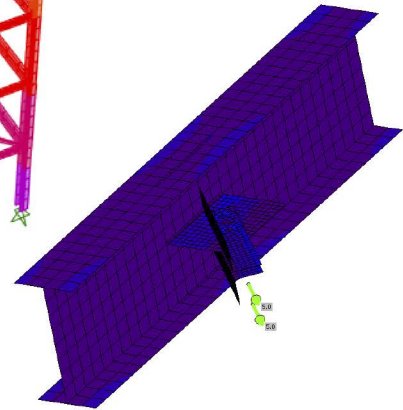
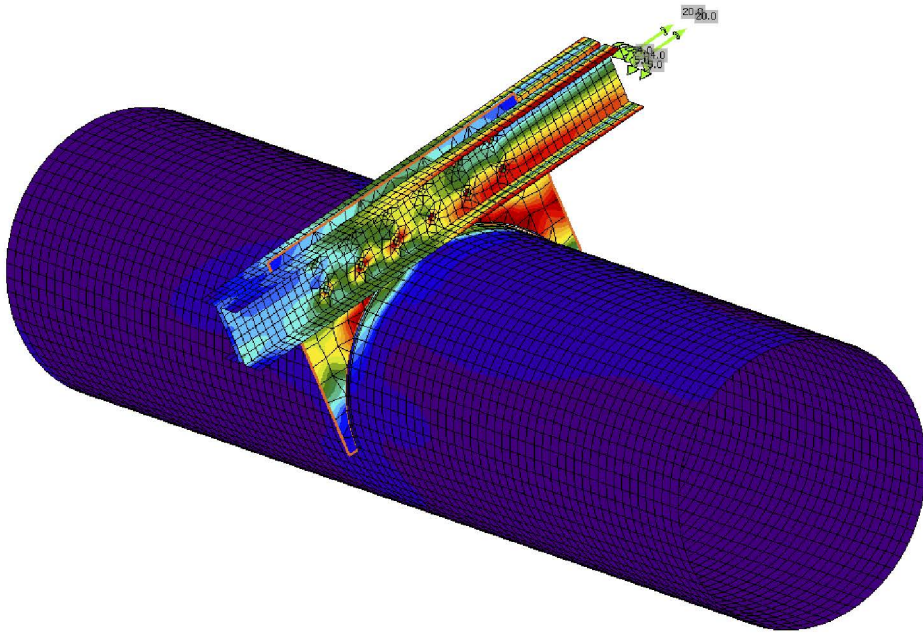
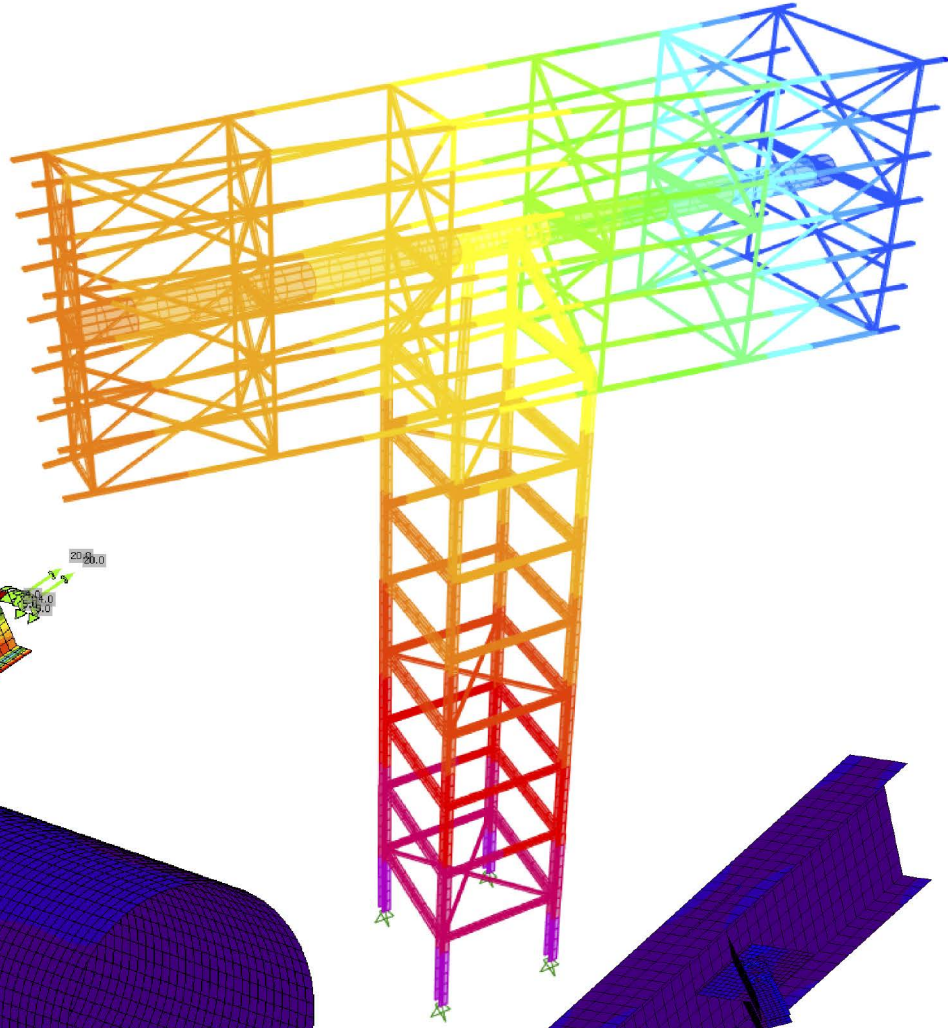
Hight : 25 m

Weight : 18 tons

System : Trusses

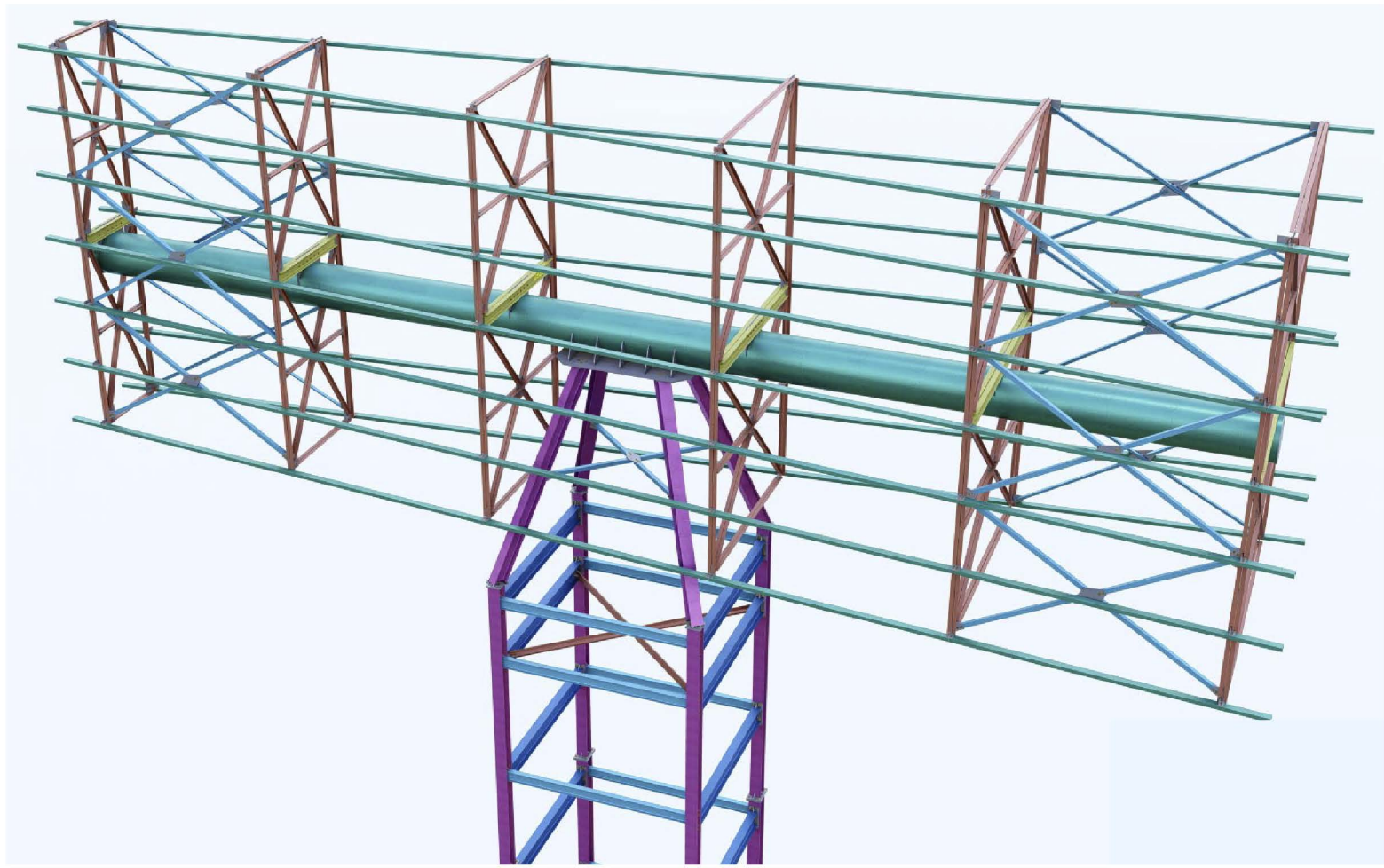
Usage : Commercial

Location : EGY 



Sign Boards

- Mostakbal City:



Sign Boards

- Sign Board:   

Participation Type : Structural Design + Detailing

Hight : 19 m

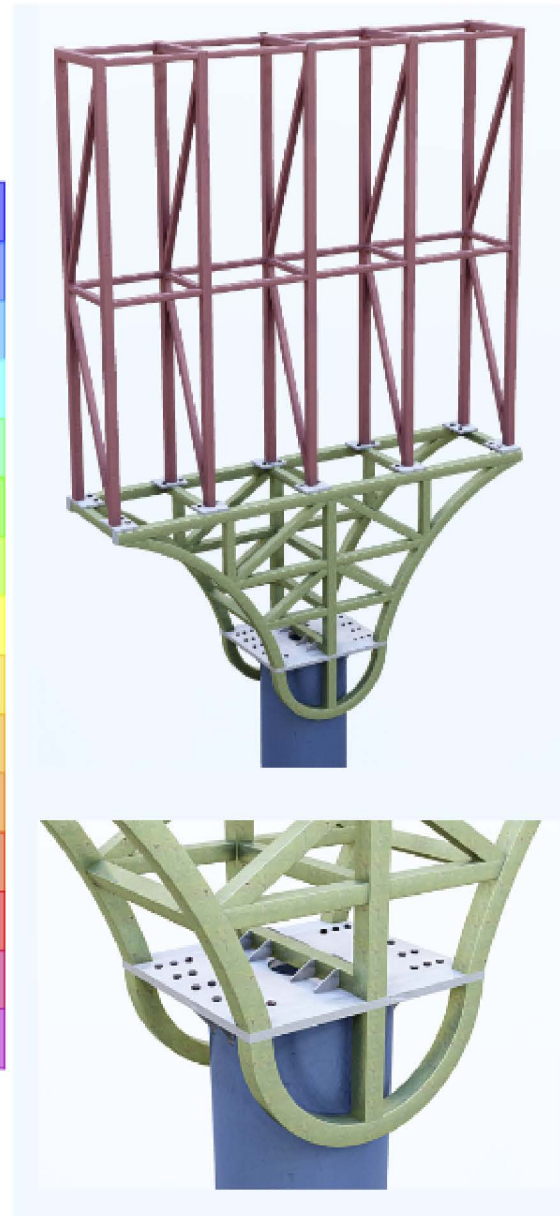
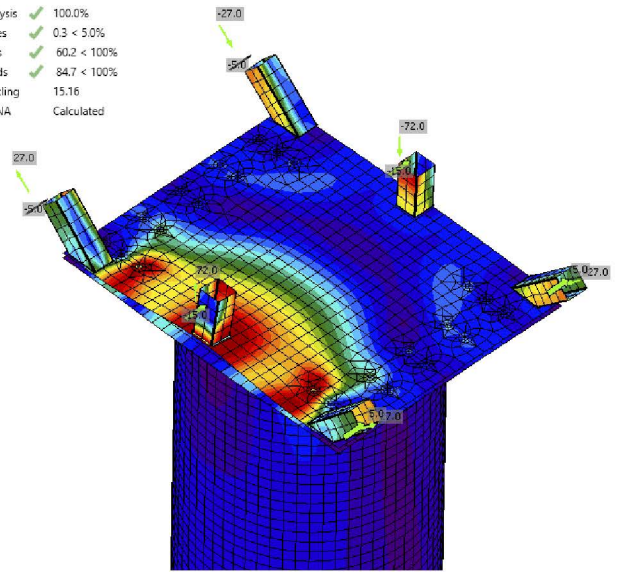
Weight : 6 tons

System : Trusses

Usage : Commercial

Location : UAE 

Analysis 100.0%
Plates 0.3 < 5.0%
Bolts 60.2 < 100%
Welds 84.7 < 100%
Buckling 15.16
GMNA Calculated



Sign Boards

- Sign Board:   

Participation Type : Detailing

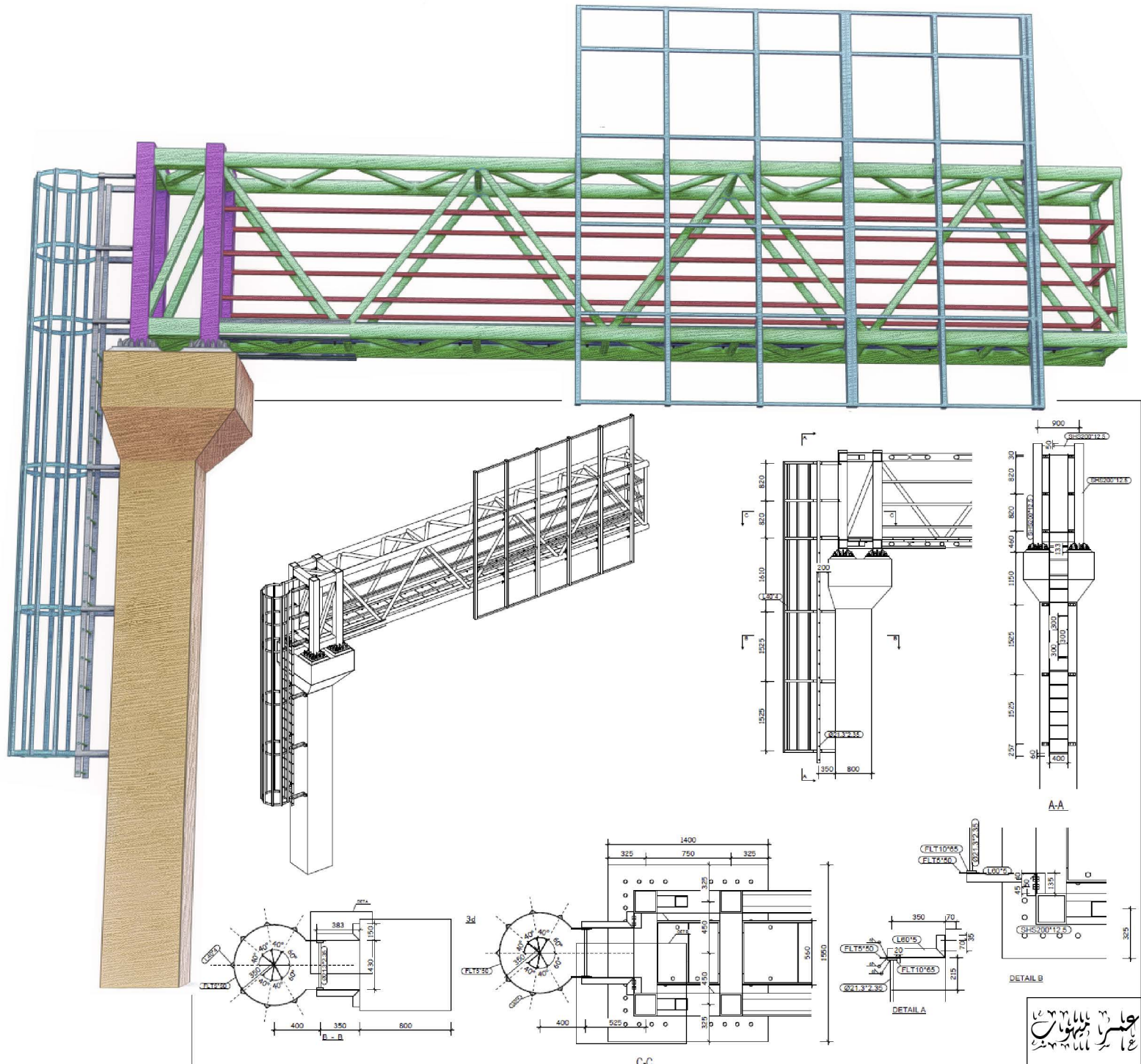
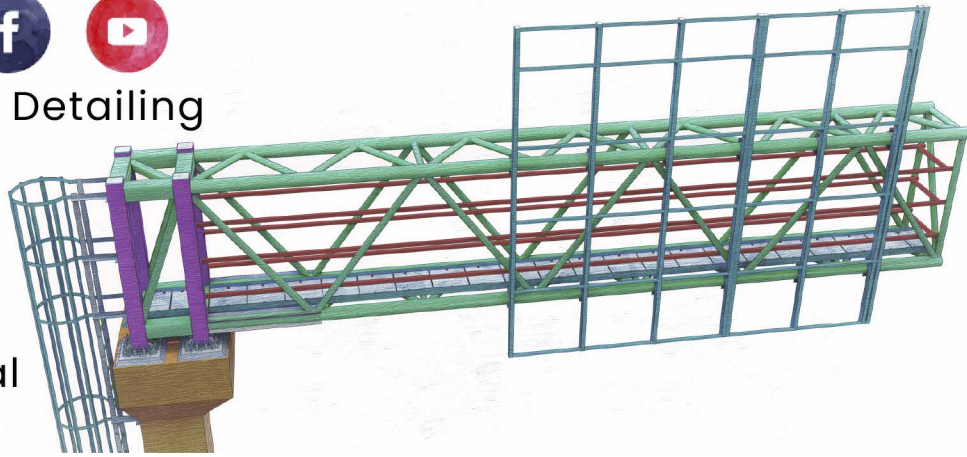
Height : 11 m

Weight : 4 tons

System : Trusses

Usage : Commercial

Location : UAE 



Sign Boards

- Sign Board:   


Participation Type : Detailing

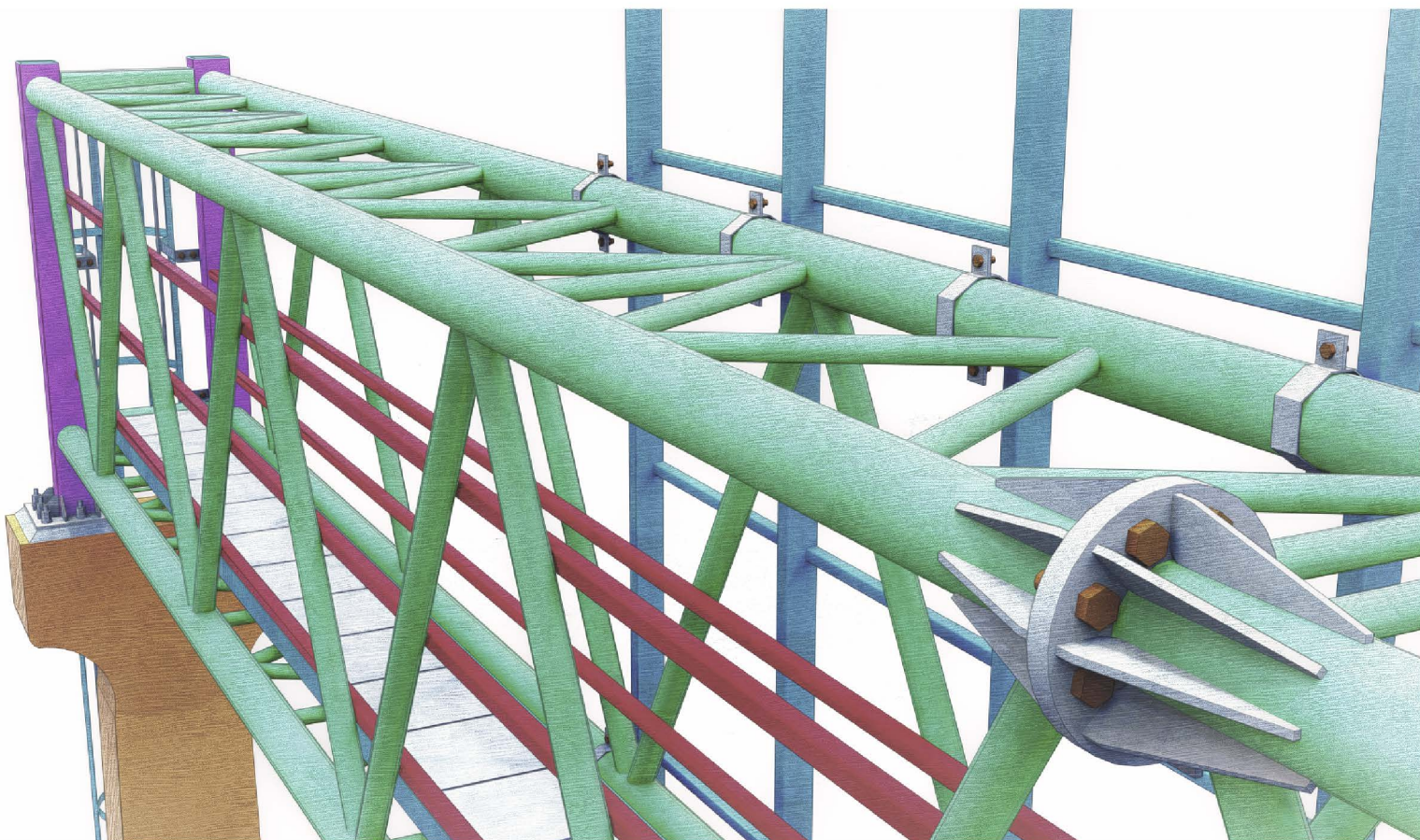
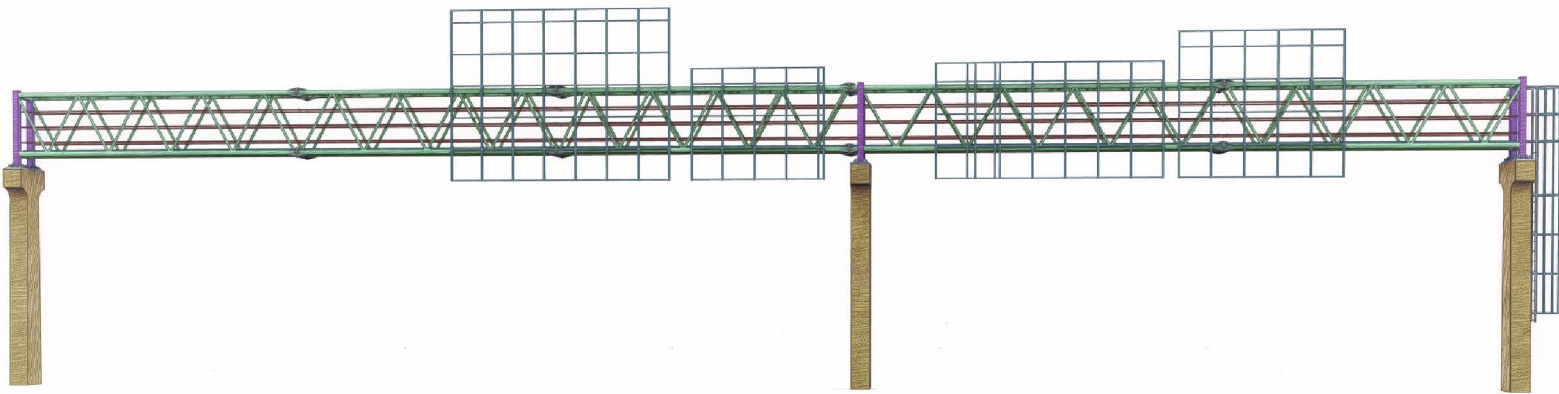
Hight : 13 m

Weight : 18 tons

System : Trusses

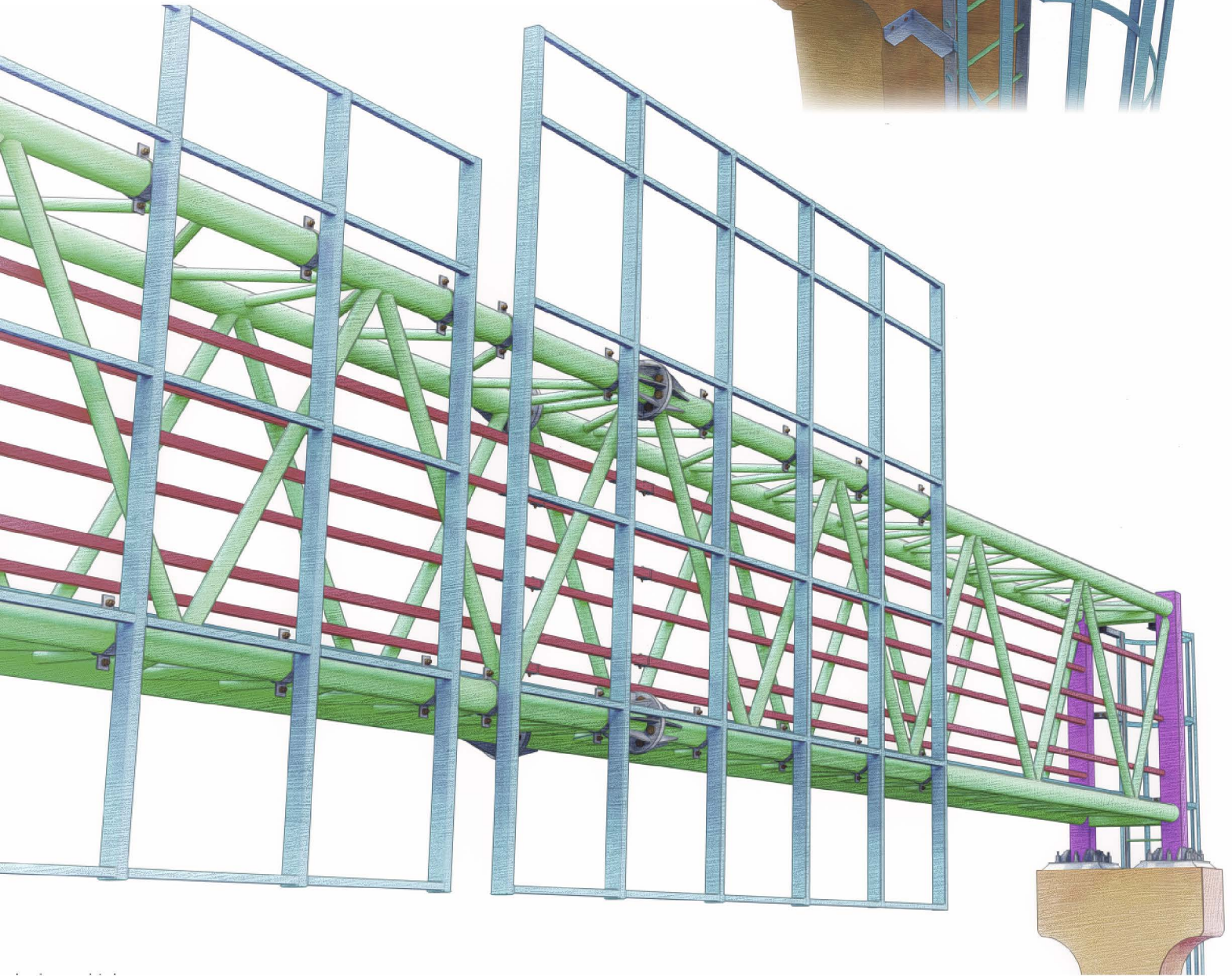
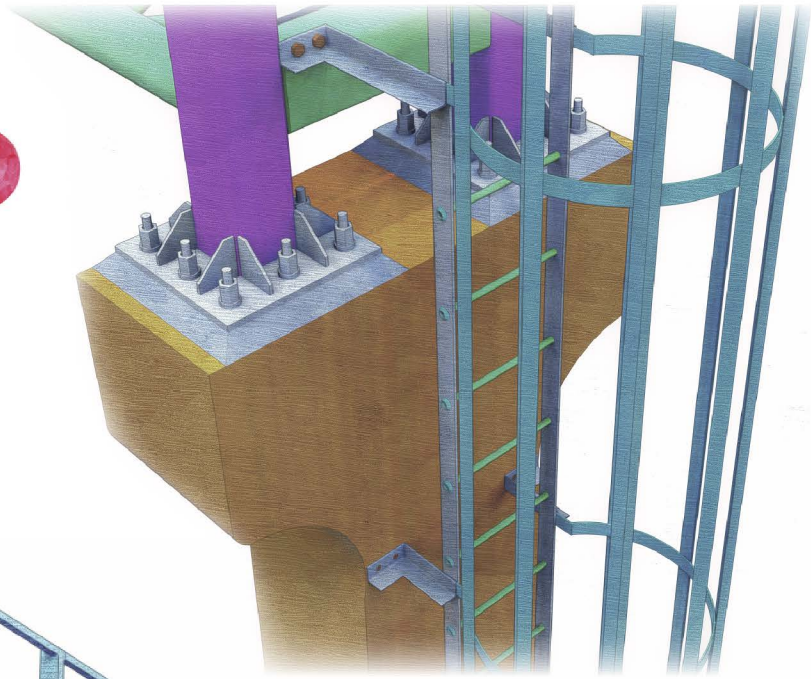
Usage : Commercial

Location : UAE 



Sign Boards

- Sign Board: [in](#) [f](#) [yt](#)



Stairs

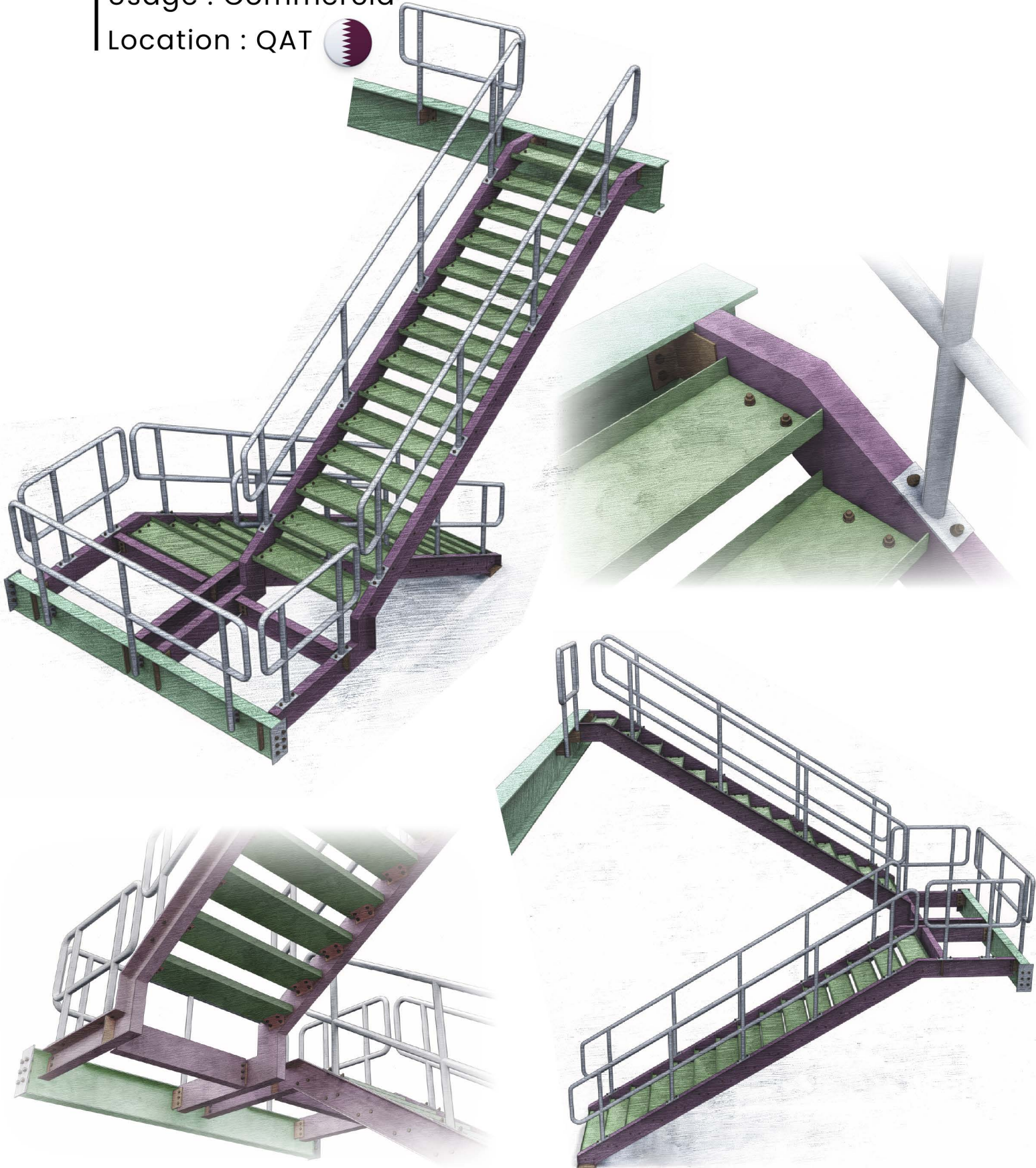
- Material Store & Show Room:



Participation Type : Detailing

Usage : Commercial

Location : QAT



Stairs

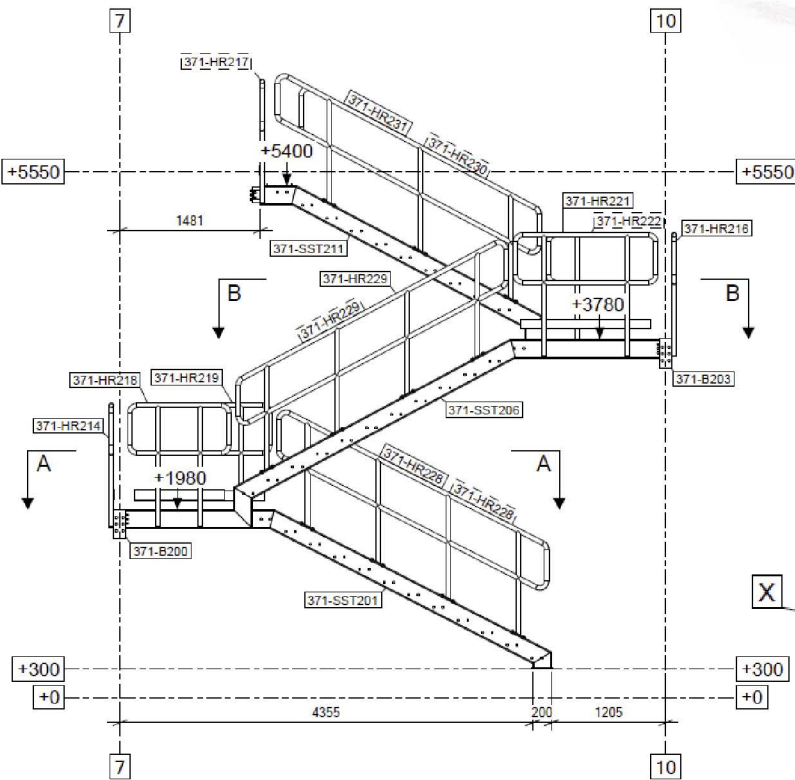
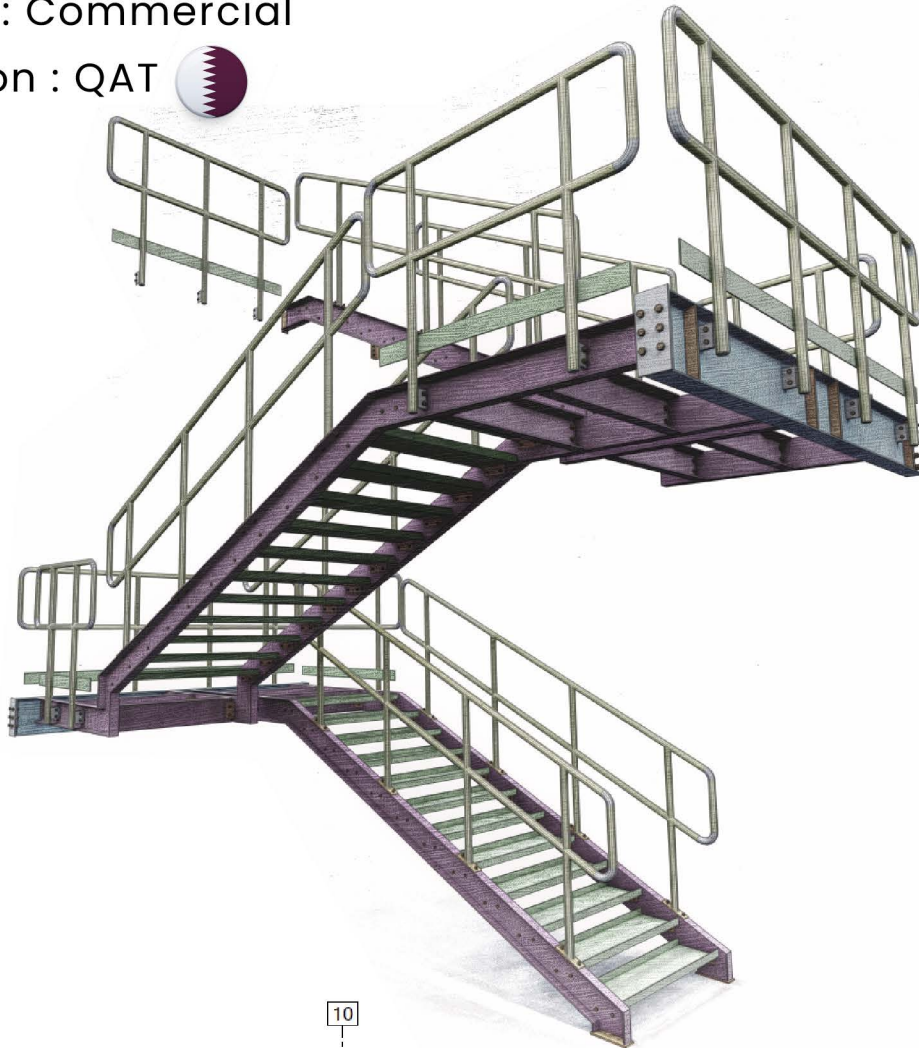
- Packing Staff Accommodation Building:



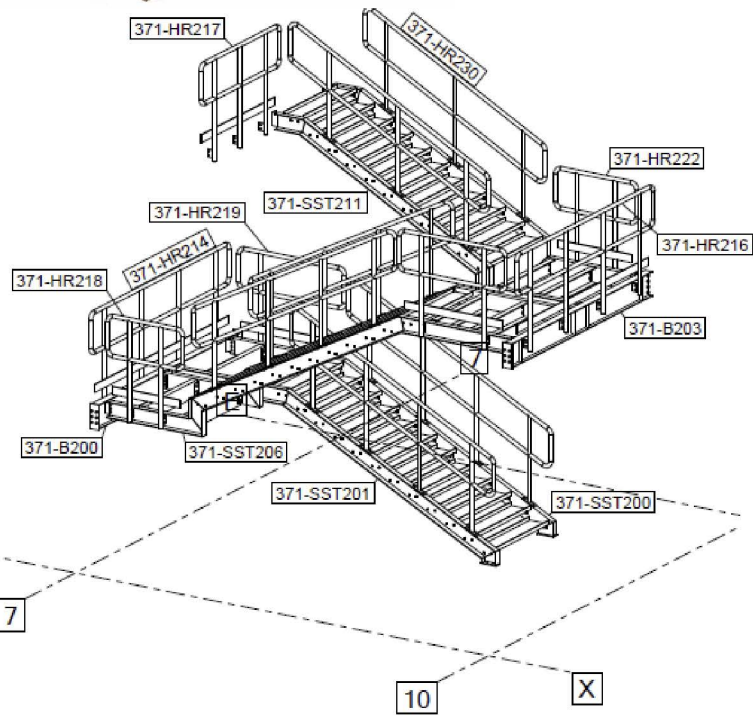
Participation Type : Detailing

Usage : Commercial

Location : QAT



Elevation



3d

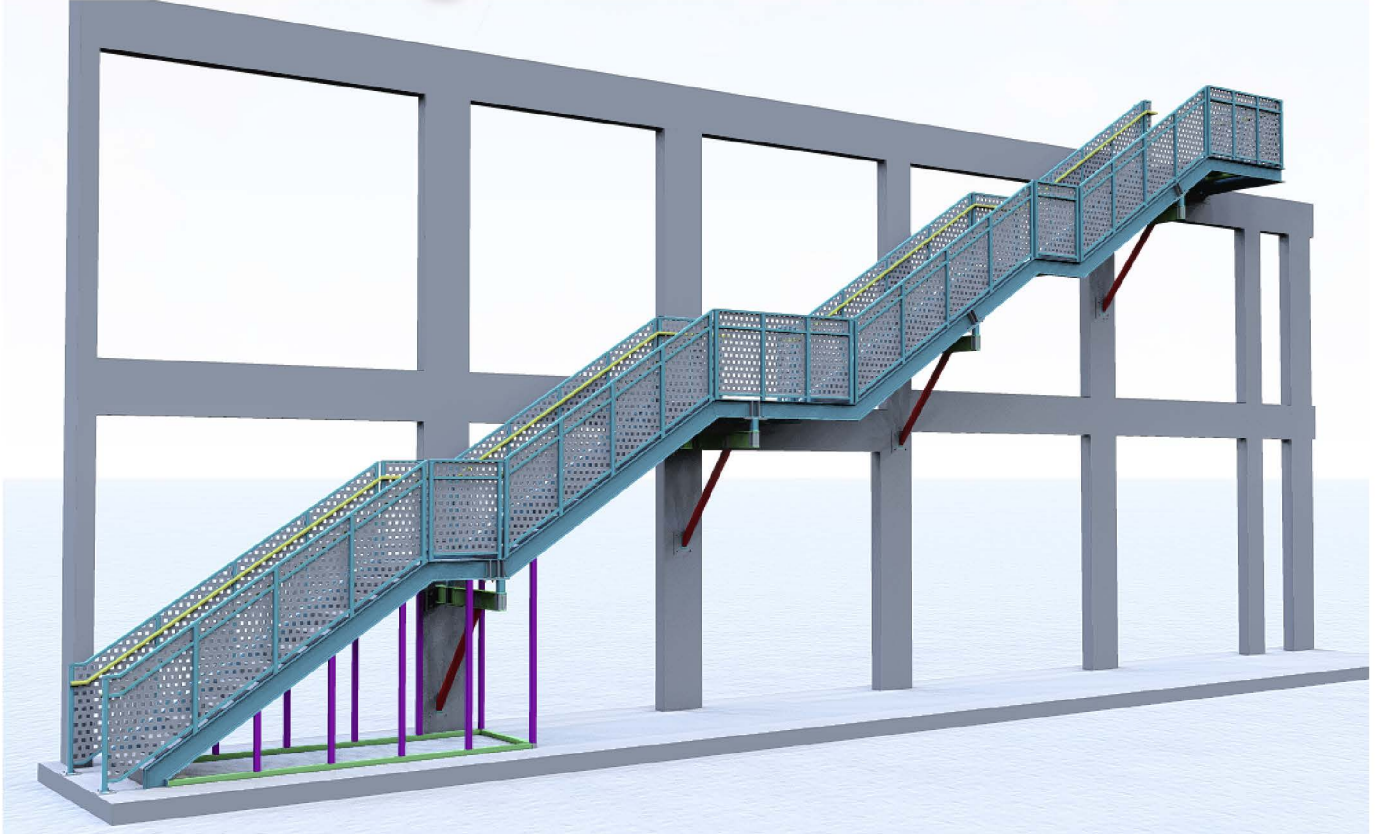
Stairs

- Ford Stairs:   

Participation Type : Detailing

Usage : Commercial

Location : UAE 



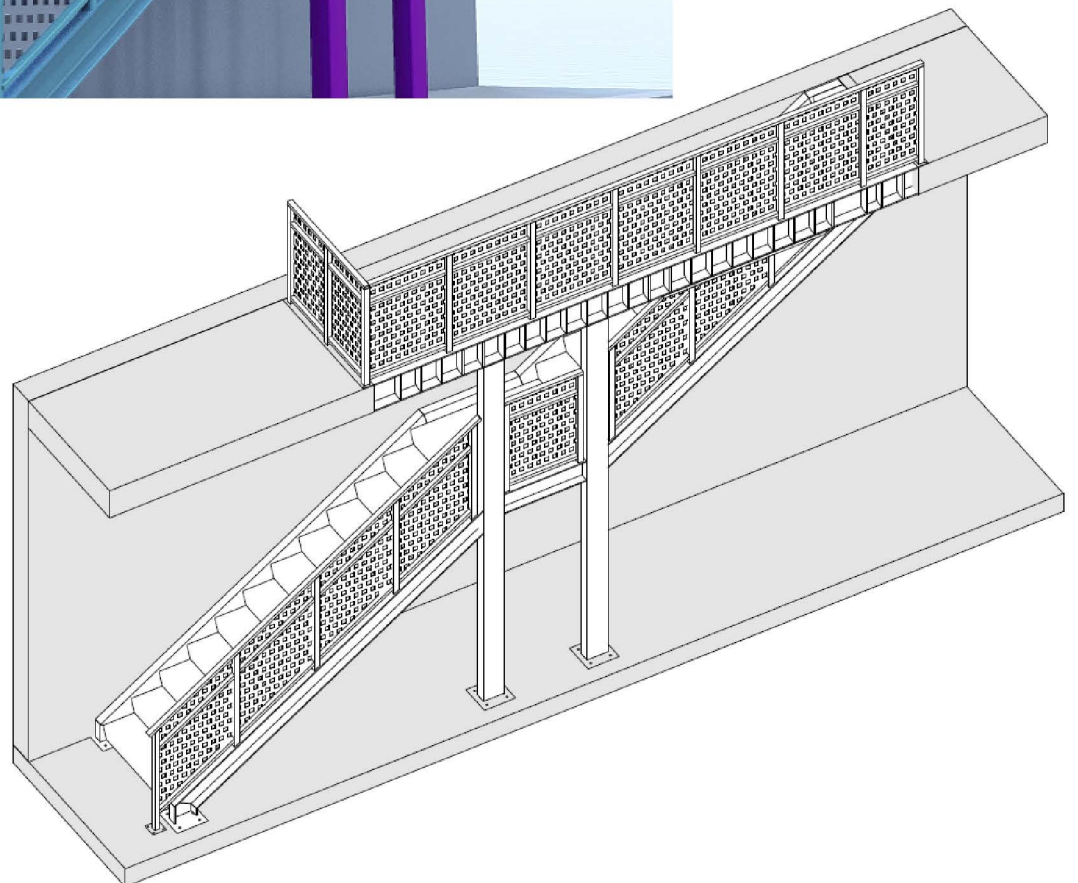
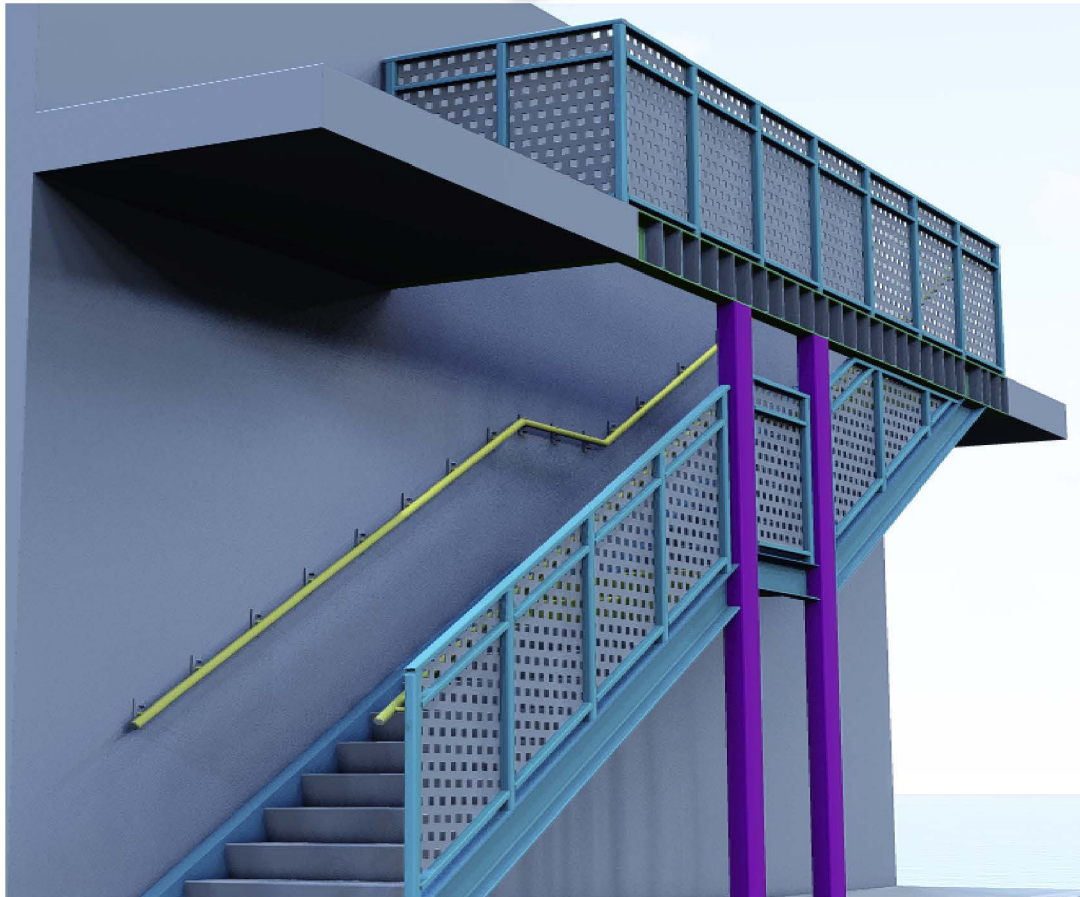
Stairs

- Ford Stairs:   

Participation Type : Detailing

Usage : Commercial

Location : UAE 




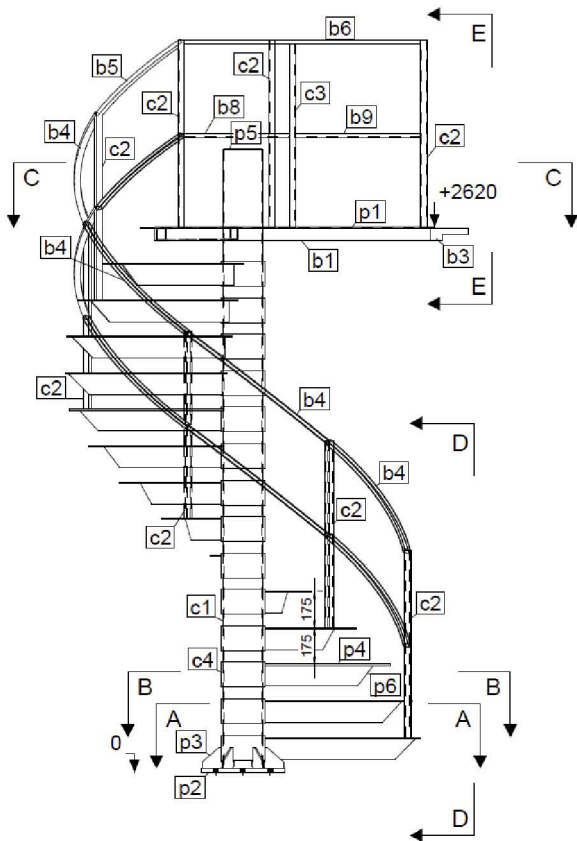
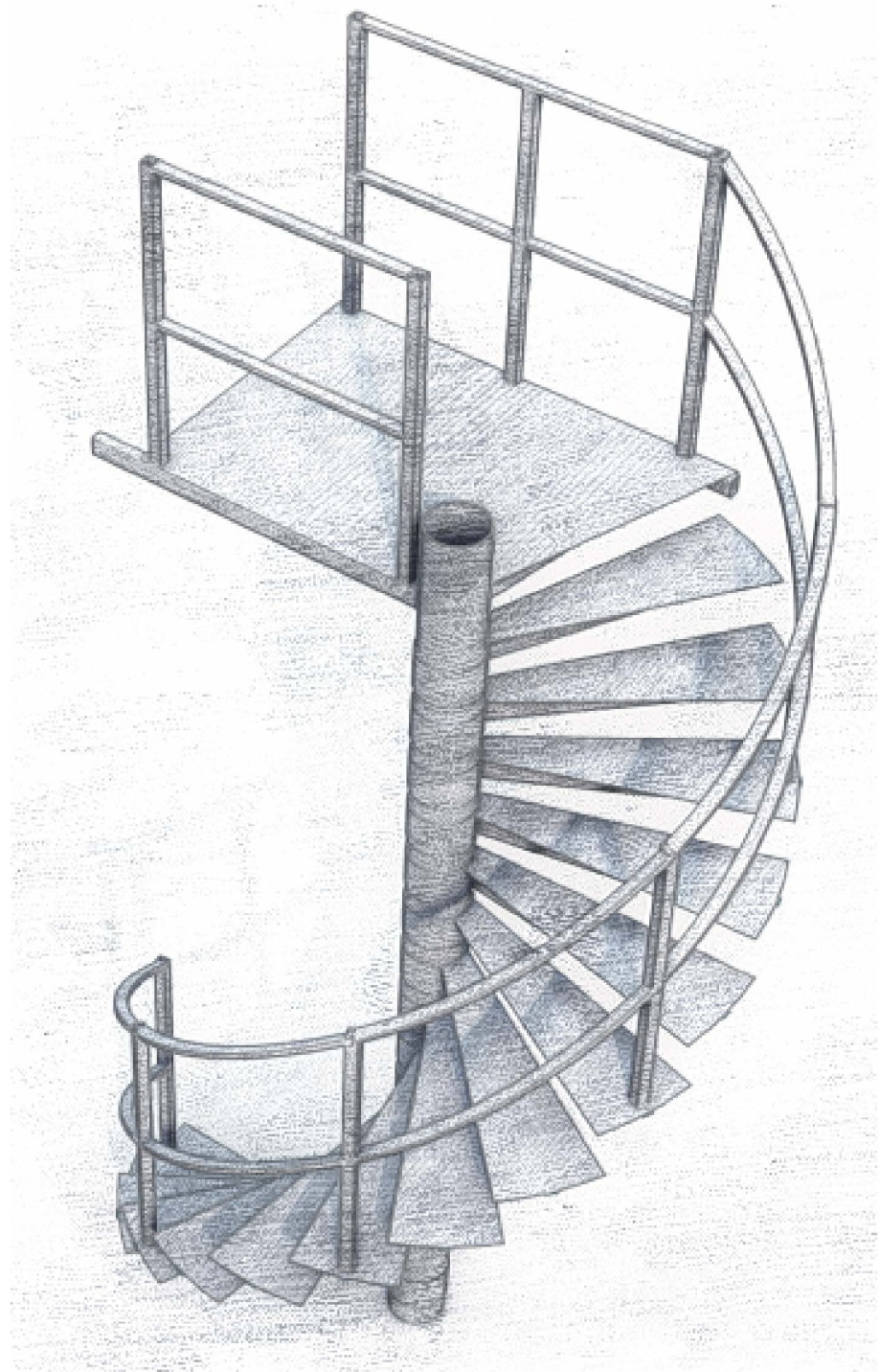
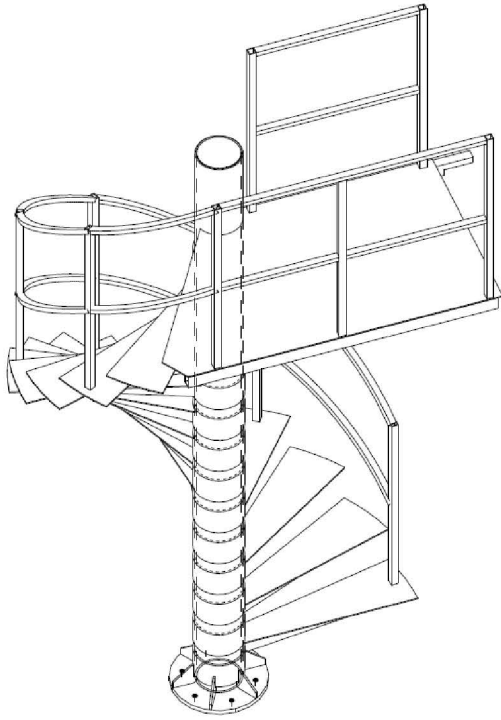
Stairs

- Takosan Stairs:   

Participation Type : Detailing

Usage : Commercial

Location : EGY 



Stairs

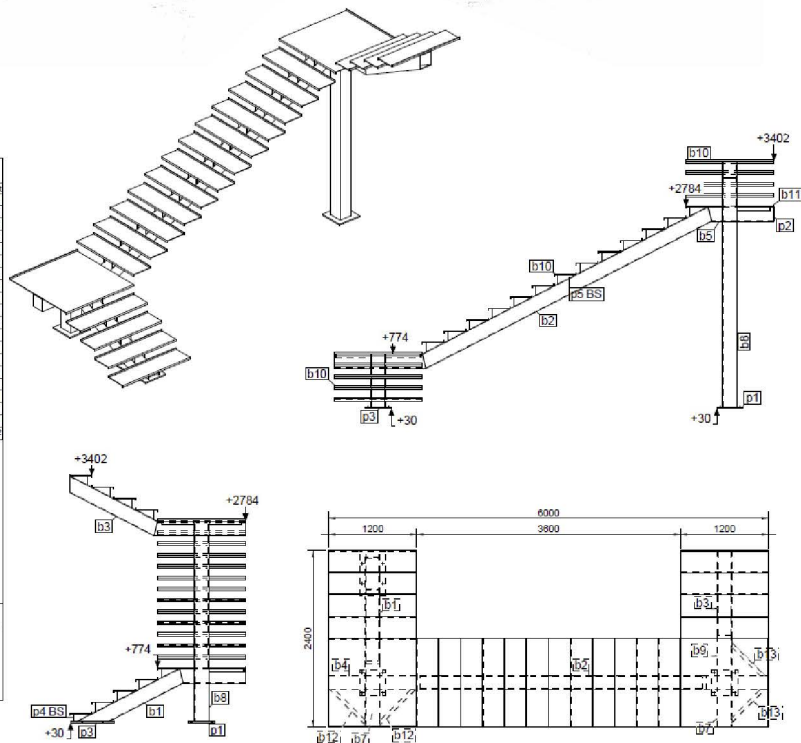
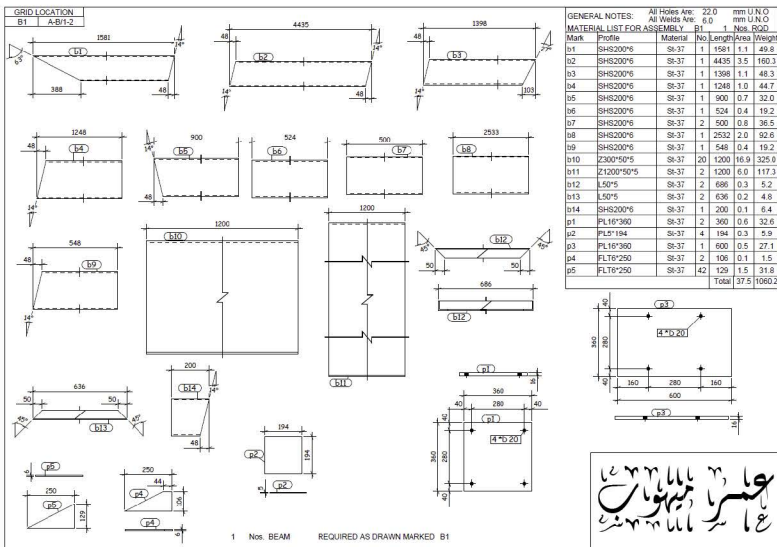
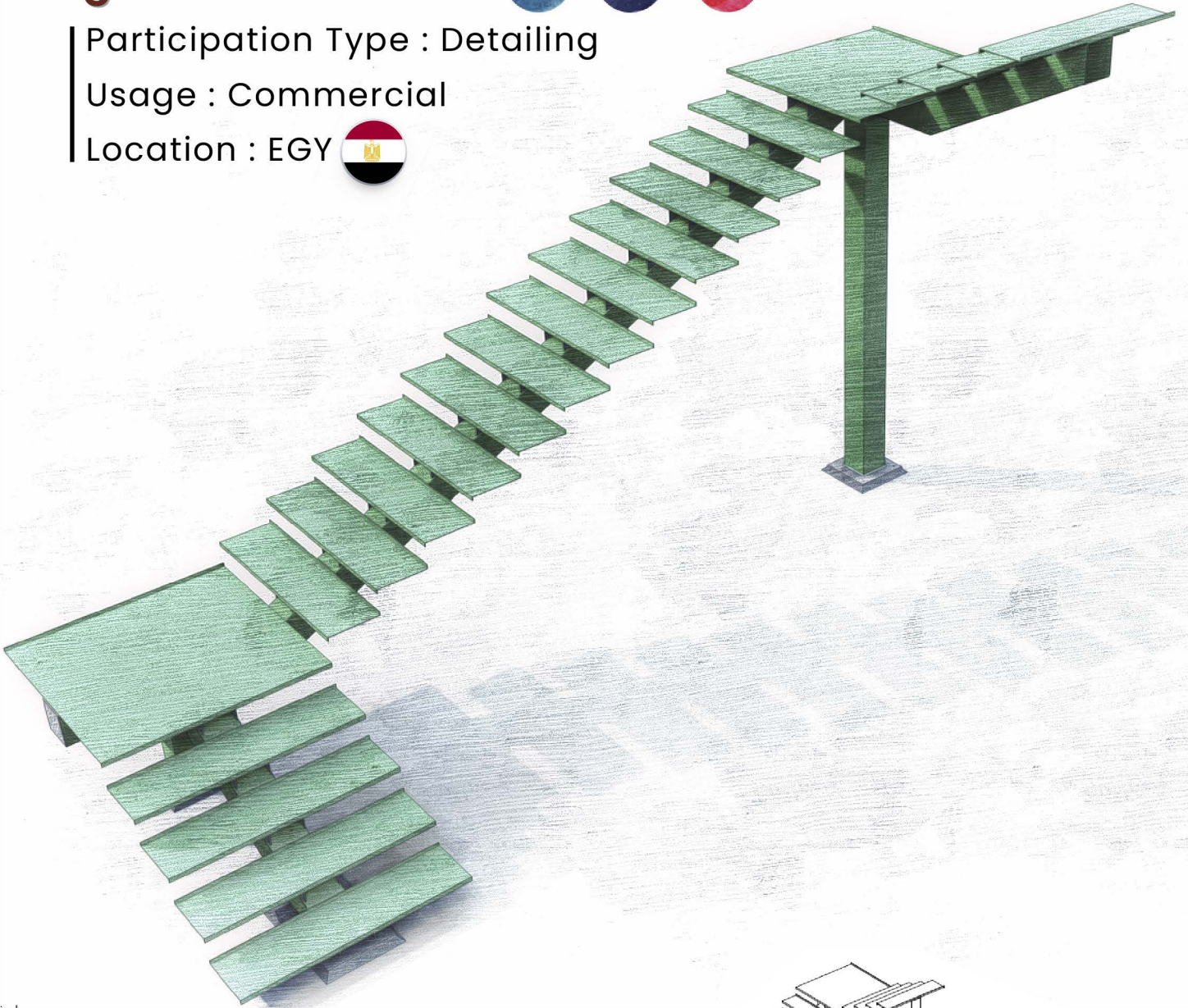
- Regheef Ouf Stairs:



Participation Type : Detailing

Usage : Commercial

Location : EGY



Stairs

- Helical Stairs:



| Location : EGY

